

Full&Default Power Mode

GSM1900_Ant 13	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.16	32.13	33.50	23.15	23.16	23.13	24.50
GPRS/EDGE GMSK 1 Tx slot	32.13	32.15	32.11	33.50	23.13	23.15	23.11	24.50
GPRS/EDGE GMSK 2 Tx slots	30.11	30.13	30.10	31.50	24.11	24.13	24.10	25.50
GPRS/EDGE GMSK 3 Tx slots	27.88	27.90	27.86	29.50	23.62	23.64	23.60	25.24
GPRS/EDGE GMSK 4 Tx slots	26.26	26.28	26.25	28.00	23.26	23.28	23.25	25.00
EDGE BPSK 1 Tx slot	26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50
EDGE BPSK 2 Tx slots	24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00
EDGE BPSK 3 Tx slots	22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74
EDGE BPSK 4 Tx slots	20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00

GSM1900_Ant 13	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1520.2	1532	1543.6		1520.2	1532	1543.6	
GSM 1 Tx slot	29.16	29.18	29.13	30.50	20.16	20.18	20.13	21.50
GPRS/EDGE GMSK 1 Tx slot	28.13	28.15	28.11	30.50	20.13	20.15	20.11	21.50
GPRS/EDGE GMSK 2 Tx slots	27.27	27.30	27.25	28.00	21.27	21.30	21.25	22.00
GPRS/EDGE GMSK 3 Tx slots	25.03	25.05	25.01	25.50	20.77	20.79	20.75	21.24
GPRS/EDGE GMSK 4 Tx slots	23.36	23.38	23.35	24.50	20.36	20.38	20.35	21.50
EDGE BPSK 1 Tx slot	25.71	25.73	25.70	26.50	16.71	16.73	16.70	17.50
EDGE BPSK 2 Tx slots	23.73	23.76	23.71	24.50	17.73	17.76	17.71	18.50
EDGE BPSK 3 Tx slots	21.71	21.73	21.68	22.50	17.45	17.47	17.42	18.24
EDGE BPSK 4 Tx slots	20.10	20.12	20.08	21.00	17.10	17.12	17.08	18.00

Band	WCDMA R_Ant 13			Tune-up Limit (dBm)	WCDMA R_Ant 31			Tune-up Limit (dBm)
	TX Channel	9262	9400		9262	9400	9538	
Rx Channel	9662	9800	9938		9662	9800	9938	
Frequency (MHz)	1852.4	1860	1907.6		1852.4	1860	1907.6	
3GPP Rel 99	AMR 12.2Kbps	23.56	23.58	23.51	24.70	24.06	24.08	24.05
3GPP Rel 99	RMC 12.2Kbps	23.56	23.60	23.53	24.70	24.06	24.10	24.06
3GPP Rel 6	HSDPA Subtest-1	22.60	22.43	22.67	24.00	23.30	23.04	23.20
3GPP Rel 6	HSDPA Subtest-2	22.64	22.36	22.66	24.00	23.26	23.00	23.25
3GPP Rel 6	HSDPA Subtest-3	22.16	21.93	22.25	23.50	22.81	22.56	22.81
3GPP Rel 6	HSDPA Subtest-4	22.15	21.91	22.21	23.50	22.79	22.54	22.75
3GPP Rel 6	DC-HSDPA Subtest-1	22.50	22.41	22.58	24.00	23.18	22.96	23.19
3GPP Rel 6	DC-HSDPA Subtest-2	22.58	22.22	22.65	24.00	23.24	22.90	23.11
3GPP Rel 6	DC-HSDPA Subtest-3	22.08	21.90	22.17	23.50	22.73	22.55	22.78
3GPP Rel 6	DC-HSDPA Subtest-4	22.09	21.79	22.09	23.50	22.71	22.49	22.71
3GPP Rel 6	HSUPA Subtest-1	20.65	20.40	20.64	22.00	21.27	20.99	21.25
3GPP Rel 6	HSUPA Subtest-2	20.70	20.42	20.65	22.00	21.30	20.98	21.30
3GPP Rel 6	HSUPA Subtest-3	21.69	21.44	21.66	23.00	22.32	22.12	22.26
3GPP Rel 6	HSUPA Subtest-4	20.21	19.92	20.24	21.50	20.82	20.61	20.76
3GPP Rel 6	HSUPA Subtest-5	21.70	21.40	21.70	23.00	22.30	22.00	22.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.77	19.98	19.92	21.50	20.45	20.44	20.40

Band	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)
	TX Channel	4132	4182		4132	4182	4233	
Rx Channel	4357	4407	4458		4357	4407	4458	
Frequency (MHz)	824.4	834	846.6		824.4	834	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.53	23.58	23.51	25.00	23.53	23.58	23.81
3GPP Rel 99	RMC 12.2Kbps	23.55	23.60	23.53	25.00	23.85	23.90	23.83
3GPP Rel 6	HSDPA Subtest-1	22.66	22.59	22.54	24.00	23.08	23.01	22.96
3GPP Rel 6	HSDPA Subtest-2	22.62	22.61	22.52	24.00	23.03	23.02	22.99
3GPP Rel 6	HSDPA Subtest-3	22.21	22.14	22.09	23.50	22.62	22.59	22.52
3GPP Rel 6	HSDPA Subtest-4	22.12	22.12	22.05	23.50	22.56	22.55	22.47
3GPP Rel 6	DC-HSDPA Subtest-1	22.53	22.44	22.52	24.00	22.98	22.93	22.83
3GPP Rel 6	DC-HSDPA Subtest-2	22.53	22.48	22.38	24.00	22.93	23.00	22.84
3GPP Rel 6	DC-HSDPA Subtest-3	22.18	22.04	21.98	23.50	22.57	22.54	22.40
3GPP Rel 6	DC-HSDPA Subtest-4	22.02	22.03	21.94	23.50	22.49	22.45	22.40
3GPP Rel 6	HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96
3GPP Rel 6	HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98
3GPP Rel 6	HSUPA Subtest-3	21.60	21.63	21.55	23.00	21.98	22.02	21.97
3GPP Rel 6	HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43
3GPP Rel 6	HSUPA Subtest-5	21.60	21.60	21.50	23.00	22.00	22.00	21.90
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.17	20.20	20.15	21.50	20.55	20.68	20.62

GSM1900_Ant 31	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1520.2	1532	1543.6		1520.2	1532	1543.6	
GSM 1 Tx slot	29.67	29.69	29.55	30.50	20.57	20.60	20.55	21.50
GPRS/EDGE GMSK 1 Tx slot	29.55	29.58	29.53	30.50	20.55	20.58	20.53	21.50
GPRS/EDGE GMSK 2 Tx slots	27.78	27.80	27.76	28.00	21.78	21.80	21.76	22.00
GPRS/EDGE GMSK 3 Tx slots	25.38	25.40	25.37	25.50	21.12	21.14	21.11	21.24
GPRS/EDGE GMSK 4 Tx slots	23.96	23.98	23.95	24.50	20.96	20.98	20.95	21.50
EDGE BPSK 1 Tx slot	25.18	25.21	25.16	26.50	17.18	17.21	17.16	17.50
EDGE BPSK 2 Tx slots	24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots	22.20	22.23	22.17	22.50	17.84	17.97	17.91	18.24
EDGE BPSK 4 Tx slots	20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band	WCDMA N_Ant 13			Tune-up Limit (dBm)	WCDMA N_Ant 31			Tune-up Limit (dBm)
	TX Channel	1312	1413		1312	1413	1513	
Rx Channel	1537	1638	1738		1537	1638	1738	
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.38	23.53	23.33	24.70	24.08	24.10	24.03
3GPP Rel 99	RMC 12.2Kbps	23.40	23.55	23.35	24.70	24.10	24.12	24.05
3GPP Rel 6	HSDPA Subtest-1	22.40	22.55	22.22	24.00	23.10	23.30	22.97
3GPP Rel 6	HSDPA Subtest-2	22.37	22.54	22.20	24.00	23.08	23.31	22.97
3GPP Rel 6	HSDPA Subtest-3	21.93	22.09	21.70	23.50	22.63	22.81	22.48
3GPP Rel 6	HSDPA Subtest-4	21.90	22.02	21.71	23.50	22.60	22.78	22.47
3GPP Rel 6	DC-HSDPA Subtest-1	22.26	22.53	22.10	24.00	23.05	23.29	22.87
3GPP Rel 6	DC-HSDPA Subtest-2	22.24	22.48	22.07	24.00	22.93	23.28	22.87
3GPP Rel 6	DC-HSDPA Subtest-3	21.79	22.05	21.61	23.50	22.52	22.75	22.44
3GPP Rel 6	DC-HSDPA Subtest-4	21.77	21.96	21.63	23.50	22.47	22.71	22.43
3GPP Rel 6	HSUPA Subtest-1	20.38	20.58	20.23	22.00	21.08	21.26	20.95
3GPP Rel 6	HSUPA Subtest-2	20.38	20.56	20.19	22.00	21.13	21.27	21.04
3GPP Rel 6	HSUPA Subtest-3	21.44	21.60	21.22	23.00	22.11	22.29	22.02
3GPP Rel 6	HSUPA Subtest-4	19.97	20.09	19.78	21.50	20.62	20.66	20.46
3GPP Rel 6	HSUPA Subtest-5	21.40	21.60	21.20	23.00	22.10	22.30	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.92	20.00	19.89	21.50	20.68	20.73	20.65

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Band 7 Ant 31											
Site ID	Modulation	BS Type	BS Group	BS ID	Channel	Frequency (MHz)	Power (dBm)	Power (dBm)	Power (dBm)	Time Slot	Ant. Gain (dBi)
						2050	2100	2150			
15	QPSK	1	1	1	1	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	2	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	3	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	4	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	5	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	6	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	7	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	8	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	9	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	10	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	11	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	12	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	13	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	14	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	15	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	16	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	17	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	18	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	19	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	20	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	21	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	22	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	23	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	24	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	25	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	26	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	27	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	28	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	29	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	30	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	31	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	32	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	33	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	34	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	35	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	36	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	37	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	38	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	39	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	40	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	41	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	42	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	43	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	44	2050	20.5	20.5	20.5		
15	QPSK	1	1	1	45	2050	20.5	20.5			

Band 7_Ant 11												
RFY (MHz)	Module	RF1 (MHz)	RF2 (MHz)	RF3 (MHz)	RF4 (MHz)	RF5 (MHz)	RF6 (MHz)	RF7 (MHz)	RF8 (MHz)	RF9 (MHz)	RF10 (MHz)	RF11 (MHz)
Channel												
Frequency (MHz)												
20	PROG00	1	0	2577	2577	2582	2582	2587	2587	2592	2592	2597
20	PROG01	1	49	2578	2578	2583	2583	2588	2588	2593	2593	2598
20	PROG02	1	98	2579	2579	2584	2584	2589	2589	2594	2594	2599
20	PROG03	1	147	2580	2580	2585	2585	2590	2590	2595	2595	2600
20	PROG04	1	196	2581	2581	2586	2586	2591	2591	2596	2596	2601
20	PROG05	1	245	2582	2582	2587	2587	2592	2592	2597	2597	2602
20	PROG06	1	294	2583	2583	2588	2588	2593	2593	2598	2598	2603
20	PROG07	1	343	2584	2584	2589	2589	2594	2594	2599	2599	2604
20	PROG08	1	392	2585	2585	2590	2590	2595	2595	2600	2600	2605
20	PROG09	1	441	2586	2586	2591	2591	2596	2596	2601	2601	2606
20	PROG10	1	490	2587	2587	2592	2592	2597	2597	2602	2602	2607
20	PROG11	1	539	2588	2588	2593	2593	2598	2598	2603	2603	2608
20	PROG12	1	588	2589	2589	2594	2594	2599	2599	2604	2604	2609
20	PROG13	1	637	2590	2590	2595	2595	2600	2600	2605	2605	2610
20	PROG14	1	686	2591	2591	2596	2596	2601	2601	2606	2606	2611
20	PROG15	1	735	2592	2592	2597	2597	2602	2602	2607	2607	2612
20	PROG16	1	784	2593	2593	2598	2598	2603	2603	2608	2608	2613
20	PROG17	1	833	2594	2594	2599	2599	2604	2604	2609	2609	2614
20	PROG18	1	882	2595	2595	2600	2600	2605	2605	2610	2610	2615
20	PROG19	1	931	2596	2596	2601	2601	2606	2606	2611	2611	2616
20	PROG20	1	980	2597	2597	2602	2602	2607	2607	2612	2612	2617
20	PROG21	1	1029	2598	2598	2603	2603	2608	2608	2613	2613	2618
20	PROG22	1	1078	2599	2599	2604	2604	2609	2609	2614	2614	2619
20	PROG23	1	1127	2600	2600	2605	2605	2610	2610	2615	2615	2620
20	PROG24	1	1176	2601	2601	2606	2606	2611	2611	2616	2616	2621
20	PROG25	1	1225	2602	2602	2607	2607	2612	2612	2617	2617	2622
20	PROG26	1	1274	2603	2603	2608	2608	2613	2613	2618	2618	2623
20	PROG27	1	1323	2604	2604	2609	2609	2614	2614	2619	2619	2624
20	PROG28	1	1372	2605	2605	2610	2610	2615	2615	2620	2620	2625
20	PROG29	1	1421	2606	2606	2611	2611	2616	2616	2621	2621	2626
20	PROG30	1	1470	2607	2607	2612	2612	2617	2617	2622	2622	2627
20	PROG31	1	1519	2608	2608	2613	2613	2618	2618	2623	2623	2628
20	PROG32	1	1568	2609	2609	2614	2614	2619	2619	2624	2624	2629
20	PROG33	1	1617	2610	2610	2615	2615	2620	2620	2625	2625	2630

Band 12_Ant 13												
SW	Modulation	Ch	RF	Low	High	Power	Power	Power	Power	Power	Power	Power
MHz		MHz	MHz	MHz	MHz	dBm	dBm	dBm	dBm	dBm	dBm	dBm
Frequency (MHz)			764	767.5	771							
14	QPSK	1	25	2385	2390	23.95	23.95	23.95	23.95	25	0	
14	QPSK	2	26	2395	2400	24.00	24.00	24.00	24.00	24	1	
14	QPSK	3	27	2405	2410	24.05	24.05	24.05	24.05	24	1	
14	QPSK	4	28	2415	2420	24.15	24.15	24.15	24.15	24	1	
14	QPSK	5	29	2425	2430	24.25	24.25	24.25	24.25	24	1	
14	QPSK	6	30	2435	2440	24.35	24.35	24.35	24.35	24	1	
14	QPSK	7	31	2445	2450	24.45	24.45	24.45	24.45	24	1	
14	QPSK	8	32	2455	2460	24.55	24.55	24.55	24.55	24	1	
14	QPSK	9	33	2465	2470	24.65	24.65	24.65	24.65	24	1	
14	QPSK	10	34	2475	2480	24.75	24.75	24.75	24.75	24	1	
14	QPSK	11	35	2485	2490	24.85	24.85	24.85	24.85	24	1	
14	QPSK	12	36	2495	2500	24.95	24.95	24.95	24.95	24	1	
14	QPSK	13	37	2505	2510	25.05	25.05	25.05	25.05	24	1	
14	QPSK	14	38	2515	2520	25.15	25.15	25.15	25.15	24	1	
14	QPSK	15	39	2525	2530	25.25	25.25	25.25	25.25	24	1	
14	QPSK	16	40	2535	2540	25.35	25.35	25.35	25.35	24	1	
14	QPSK	17	41	2545	2550	25.45	25.45	25.45	25.45	24	1	
14	QPSK	18	42	2555	2560	25.55	25.55	25.55	25.55	24	1	
14	QPSK	19	43	2565	2570	25.65	25.65	25.65	25.65	24	1	
14	QPSK	20	44	2575	2580	25.75	25.75	25.75	25.75	24	1	
14	QPSK	21	45	2585	2590	25.85	25.85	25.85	25.85	24	1	
14	QPSK	22	46	2595	2600	25.95	25.95	25.95	25.95	24	1	
14	QPSK	23	47	2605	2610	26.05	26.05	26.05	26.05	24	1	
14	QPSK	24	48	2615	2620	26.15	26.15	26.15	26.15	24	1	
14	QPSK	25	49	2625	2630	26.25	26.25	26.25	26.25	24	1	
14	QPSK	26	50	2635	2640	26.35	26.35	26.35	26.35	24	1	
14	QPSK	27	51	2645	2650	26.45	26.45	26.45	26.45	24	1	
14	QPSK	28	52	2655	2660	26.55	26.55	26.55	26.55	24	1	
14	QPSK	29	53	2665	2670	26.65	26.65	26.65	26.65	24	1	
14	QPSK	30	54	2675	2680	26.75	26.75	26.75	26.75	24	1	
14	QPSK	31	55	2685	2690	26.85	26.85	26.85	26.85	24	1	
14	QPSK	32	56	2695	2700	26.95	26.95	26.95	26.95	24	1	
14	QPSK	33	57	2705	2710	27.05	27.05	27.05	27.05	24	1	
14	QPSK	34	58	2715	2720	27.15	27.15	27.15	27.15	24	1	
14	QPSK	35	59	2725	2730	27.25	27.25	27.25	27.25	24	1	
14	QPSK	36	60	2735	2740	27.35</						

[illegible]

Band 17_Ant 31										
SW	Modulation	Channel	Freq	Power	Low	Mid	High	Power	SW	SW
		Freq	F1	F2	F1	F2	F1			
Frequency (MHz)										
15G	QPSK	1	25	24.87	24.90	24.94		25	0	
15G	QPSK	2	49	24.96	24.99	25.00				
15G	QPSK	25	12	25.12	25.13	25.08		24		
15G	QPSK	50	0	25.20	25.21	25.19				
15G	QPSK	50	0	25.25	25.26	25.24				
15G	QPSK	1	23	24.81	24.83	24.84		24	1	
15G	QPSK	25	0	25.17	25.22	25.08				
15G	QPSK	25	22	25.18	25.19	25.17				
15G	QPSK	25	22	25.24	25.28	25.27		23	2	
15G	QPSK	1	0	24.99	25.03	25.01				
15G	QPSK	1	49	24.96	24.97	24.98		25	2	
15G	QPSK	25	0	25.08	25.11	25.10				
15G	QPSK	25	22	25.17	25.18	25.16				
15G	QPSK	25	22	25.25	25.29	25.28		22	3	
15G	QPSK	1	0	25.05	25.09	25.07				
15G	QPSK	1	49	24.98	24.99	24.98		20	4.5	
15G	QPSK	25	12	25.11	25.12	25.10				
15G	QPSK	25	12	25.16	25.15	25.14		20	4.5	
15G	QPSK	50	0	25.24	25.25	25.24				
Frequency (MHz)										
15G	QPSK	1	0	24.91	24.97	24.95		25	0	
15G	QPSK	1	24	24.90	24.92	24.93				
15G	QPSK	1	24	24.90	24.92	24.93				
15G	QPSK	12	7	25.04	25.05	25.04		24	1	
15G	QPSK	12	7	25.04	25.05	25.04				
15G	QPSK	25	13	25.12	25.13	25.11				
15G	QPSK	1	0	25.06	25.09	25.07				
15G	QPSK	1	24	24.90	24.92	24.93		24	1	
15G	QPSK	1	24	24.90	24.92	24.93				
15G	QPSK	12	7	25.05	25.11	25.02		23	2	
15G	QPSK	12	13	25.08	25.13	25.02				
15G	QPSK	25	0	25.07	25.10	25.11				
15G	QPSK	25	13	25.11	25.17	25.02		23	2	
15G	QPSK	1	12	25.08	25.12	25.09				
15G	QPSK	12	0	25.07	25.08	25.07				
15G	QPSK	12	0	25.02	25.03	25.02				
15G	QPSK	12	13	25.02	25.10	25.02		22	3	
15G	QPSK	25	0	25.10	25.10	25.09				
15G	QPSK	25	13	25.02	25.10	25.02		20	4.5	
15G	QPSK	1	12	25.10	25.24	25.22				
15G	QPSK	24	0	25.07	25.08	25.07				
15G	QPSK	12	0	25.07	25.07	25.13				
15G	QPSK	12	13	25.07	25.13	25.07				
15G	QPSK	12	13	18.05	20.02	20.03		20	4.5	

[illegible][illegible]

Band 66_Ant 13												
Ref ID	Modulation	RF MHz	RF Spacing	RF Bandwidth	Carrier Rate (MHz)	Carrier Spacing (MHz)	Carrier Bandwidth (MHz)	Time Slot	Ref ID	Modulation	RF MHz	RF Spacing
Channel 1												
Frequency (MHz)						15092	15093	15092				
1	QPSK	1	1	1	2155	2155	2155	24.8	0	1	QPSK	1
2	QPSK	1	1	1	2156	2156	2156					
3	QPSK	1	1	1	2157	2157	2157					
4	QPSK	1	1	1	2158	2158	2158					
5	QPSK	1	1	1	2159	2159	2159					
6	QPSK	1	1	1	2160	2160	2160	23.8	1	6	QPSK	1
7	QPSK	1	1	1	2161	2161	2161					
8	QPSK	1	1	1	2162	2162	2162					
9	QPSK	1	1	1	2163	2163	2163					
10	QPSK	1	1	1	2164	2164	2164					
11	QPSK	1	1	1	2165	2165	2165	23.8	1	11	QPSK	1
12	QPSK	1	1	1	2166	2166	2166					
13	QPSK	1	1	1	2167	2167	2167					
14	QPSK	1	1	1	2168	2168	2168					
15	QPSK	1	1	1	2169	2169	2169					
16	QPSK	1	1	1	2170	2170	2170	22.8	2	16	QPSK	1
17	QPSK	1	1	1	2171	2171	2171					
18	QPSK	1	1	1	2172	2172	2172					
19	QPSK	1	1	1	2173	2173	2173					
20	QPSK	1	1	1	2174	2174	2174					
21	QPSK	1	1	1	2175	2175	2175	22.8	2	21	QPSK	1
22	QPSK	1	1	1	2176	2176	2176					
23	QPSK	1	1	1	2177	2177	2177					
24	QPSK	1	1	1	2178	2178	2178					
25	QPSK	1	1	1	2179	2179	2179					
26	QPSK	1	1	1	2180	2180	2180	22.8	2	26	QPSK	1
27	QPSK	1	1	1	2181	2181	2181					
28	QPSK	1	1	1	2182	2182	2182					
29	QPSK	1	1	1	2183	2183	2183					
30	QPSK	1	1	1	2184	2184	2184					
31	QPSK	1	1	1	2185	2185	2185	22.8	2	31	QPSK	1
32	QPSK	1	1	1	2186	2186	2186					
33	QPSK	1	1	1	2187	2187	2187					
34	QPSK	1	1	1	2188	2188	2188					
35	QPSK	1	1	1	2189	2189	2189					
36	QPSK	1	1	1	2190	2190	2190	22.8	2	36	QPSK	1
37	QPSK	1	1	1	2191	2191	2191					
38	QPSK	1	1	1	2192	2192	2192					
39	QPSK	1	1	1	2193	2193	2193					
40	QPSK	1	1	1	2194	2194	2194					
41	QPSK	1	1	1	2195	2195	2195	22.8	2	41	QPSK	1
42	QPSK	1	1	1	2196	2196	2196					
43	QPSK	1	1	1	2197	2197	2197					
44	QPSK	1	1	1	2198	2198	2198					
45	QPSK	1	1	1	2199	2199	2199					
46	QPSK	1	1	1	2200	2200	2200	22.8	2	46	QPSK	1
47	QPSK	1	1	1	2201	2201	2201					
48	QPSK	1	1	1	2202	2202	2202					
49	QPSK	1	1	1	2203	2203	2203					
50	QPSK	1	1	1	2204	2204	2204					
51	QPSK	1	1	1	2205	2205	2205	22.8	2	51	QPSK	1
52	QPSK	1	1	1	2206	2206	2206					
53	QPSK	1	1	1	2207	2207	2207					
54	QPSK	1	1	1	2208	2208	2208					
55	QPSK	1	1	1	2209	2209	2209					
56	QPSK	1	1	1	2210	2210	2210	22.8	2	56	QPSK	1
57	QPSK	1	1	1	2211	2211	2211					
58	QPSK	1	1	1	2212	2212	2212					
59	QPSK	1	1	1	2213	2213	2213					
60	QPSK	1	1	1	2214	2214	2214					
61	QPSK	1	1	1	2215	2215	2215	22.8	2	61	QPSK	1
62	QPSK	1	1	1	2216	2216	2216					
63	QPSK	1	1	1	2217	2217	2217					
64	QPSK	1	1	1	2218	2218	2218					
65	QPSK	1	1	1	2219	2219	2219					
66	QPSK	1	1	1	2220	2220	2220	22.8	2	66	QPSK	1
67	QPSK	1	1	1	2221	2221	2221					
68	QPSK	1	1	1	2222	2222	2222					
69	QPSK	1	1	1	2223	2223	2223					
70	QPSK	1	1	1	2224	2224	2224					
71	QPSK	1	1	1	2225	2225	2225	22.8	2	71	QPSK	1
72	QPSK	1	1	1	2226	2226	2226					
73	QPSK	1	1	1	2227	2227	2227					
74	QPSK	1	1	1	2228	2228	2228					
75	QPSK	1	1	1	2229	2229	2229					
76	QPSK	1	1	1	2230	2230	2230	22.8	2	76	QPSK	1
77	QPSK	1	1	1	2231	2231	2231					
78	QPSK	1	1	1	2232	2232	2232					
79	QPSK	1	1	1	2233	2233	2233					
80	QPSK	1	1	1	2234	2234	2234					
81	QPSK	1	1	1	2235	2235	2235	22.8	2	81	QPSK	1
82	QPSK	1	1	1	2236	2236	2236					
83	QPSK	1	1	1	2237	2237	2237					
84	QPSK	1	1	1	2238	2238	2238					
85	QPSK	1	1	1	2239	2239	2239					
86	QPSK	1	1	1	2240	2240	2240	22.8	2	86	QPSK	1
87	QPSK	1	1	1	2241	2241	2241					
88	QPSK	1	1	1	2242	2242	2242					
89	QPSK	1	1	1	2243	2243	2243					
90	QPSK	1	1	1	2244	2244	2244					
91	QPSK	1	1	1	2245	2245	2245	22.8	2	91	QPSK	1
92	QPSK	1	1	1	2246	2246	2246					
93	QPSK	1	1	1	2247	2247	2247					
94	QPSK	1	1	1	2248	2248	2248					
95	QPSK	1	1	1	2249	2249	2249					
96	QPSK	1	1	1	2250	2250	2250	22.8	2	96	QPSK	1
97	QPSK	1	1	1	2251	2251	2251					
98	QPSK	1	1	1	2252	2252	2252					
99	QPSK	1	1	1	2253	2253	2253					
100	QPSK	1	1	1	2254	2254	2254					
101	QPSK	1	1	1	2255	2255	2255	22.8	2	101	QPSK	1
102	QPSK	1	1	1	2256	2256	2256					
103	QPSK	1	1	1	2257	2257	2257					
104	QPSK	1	1	1	2258	2258	2258					
105	QPSK	1	1	1	2259	2259	2259					
106	QPSK	1	1	1	2260	2260	2260	22.8	2	106	QPSK	1
107	QPSK	1	1	1	2261	2261	2261					
108	QPSK	1	1	1	2262	2262	2262					
109	QPSK	1	1	1	2263	2263	2263					
110	QPSK	1	1	1	2264	2264	2264					
111	QPSK	1	1	1	2265	2265	2265	22.8	2	111	QPSK	1
112	QPSK	1	1	1	2266	2266	2266					
113	QPSK	1	1	1	2267	2267	2267					
114	QPSK	1	1	1	2268	2268	2268					
115	QPSK	1	1	1	2269	2269	2269					
116	QPSK	1	1	1	2270	2270	2270	22.8	2	116	QPSK	1
117	QPSK	1	1	1	2271	2271	2271					
118	QPSK	1	1	1	2272	2272	2272					
119	QPSK	1	1	1	2273	2273	2273					
120	QPSK	1	1	1	2274	2274	2274					
121	QPSK	1	1	1	2275	2275	2275	22.8	2	121	QPSK	1
122	QPSK	1	1	1	2276	2276	2276					
123	QPSK	1	1	1	2277	2277	2277					
124	QPSK	1	1	1	2278	2278	2278					
125	QPSK	1	1	1	2279	2279	2279					
126	QPSK	1	1	1	2280	2280	2280	22.8	2	126	QPSK	1
127	QPSK	1	1	1	2281	2281	2281					
128	QPSK	1	1	1	2282	2282	2282					
129	QPSK	1	1	1	2283	2283	2283					
130	QPSK	1	1	1	2284	2284	2284					
131	QPSK	1	1	1	2285	2285	2285	22.8	2	131	QPSK	1
132	QPSK	1	1	1	2286	2286	2286					
133	QPSK	1	1	1	2287	2287	2287					
134	QPSK	1	1	1	2288	2288	2288					
135	QPSK	1	1	1	2289	2289	2289					
136	QPSK	1	1	1	2290	2290	2290	22.8	2	136	QPSK	1
137	QPSK	1	1	1	2291	2291	2291					
138	QPSK	1	1	1	2292	2292	2292					
139	QPSK	1	1	1	2293	2293	2293					
140	QPSK	1	1	1	2294	2294	2294					
141	QPSK	1	1	1	2295	2295	2295	22.8	2	141	QPSK	1
142	QPSK	1	1	1	2296	2296	2296					
143	QPSK	1	1	1	2297	2297	2297					
144	QPSK	1	1	1	2298	2298	2298					
145	QPSK	1	1	1	2299	2299	2299					
146	QPSK	1	1	1	2300	2300	2300	22.8	2	146	QPSK	1
147	QPSK	1	1	1	2301	2301	2301					
148	QPSK	1	1	1	2302	2302	2302					
149	QPSK	1	1	1	2303	2303	2303					
150	QPSK	1	1	1	2304	2304	2304					
151	QPSK	1	1	1	2305	2305	2305	22.8	2	151	QPSK	1
152	QPSK	1	1	1	2306	2306	2306					
153	QPSK	1	1	1	2307	2307	2307					
154	QPSK	1	1	1	2308	2308	2308					
155	QPSK	1	1	1	2309	2309	2309					
156	QPSK	1	1	1	2310	2310	2310	22.8	2	156	QPSK	1
157	QPSK	1	1	1	2311	2311	2311					
158	QPSK	1	1	1	2312	2312	2312					
159	QPSK	1	1	1	2313	2313	2313					
160	QPSK	1	1	1	2314	2314	2314					
161	QPSK	1	1	1	2315	2315	2315	22.8	2	161	QPSK	1
162	QPSK	1	1	1	2316	2316	2316					
163	QPSK	1	1	1	2317	2317	2317					
164	QPSK	1	1	1	2318	2318	2318					
165	QPSK	1	1	1	2319	2319	2319					
166	QPSK	1	1	1	2320	2320	2320	22.8	2	166	QPSK	1
167	QPSK	1	1	1	2321	2321	2321					

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Band 38_Ant 13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.07	24.08	24.05				
20	QPSK	1	49	24.01	24.02	24.02	24.8	0		
20	QPSK	1	99	23.99	24.03	23.96				
20	QPSK	50	0	23.13	23.15	23.11				
20	QPSK	50	24	23.03	23.00	23.04	23.8	1		
20	QPSK	50	50	23.07	23.03	23.09				
20	QPSK	100	0	23.11	23.13	23.10				
20	16QAM	1	0	23.08	23.14	23.05				
20	16QAM	1	49	23.08	23.10	23.05	23.8	1		
20	16QAM	1	99	23.09	23.11	23.07				
20	16QAM	50	0	22.15	22.17	22.11				
20	16QAM	50	24	22.03	22.12	22.03	22.8	2		
20	16QAM	50	50	22.09	22.13	22.11				
20	16QAM	100	0	22.06	22.15	22.12				
20	64QAM	1	0	22.31	22.32	22.24				
20	64QAM	1	49	22.22	22.25	22.17	22.8	2		
20	64QAM	1	99	22.14	22.27	22.26				
20	64QAM	50	0	21.63	21.70	21.56				
20	64QAM	50	24	21.55	21.60	21.53	21.8	3		
20	64QAM	50	50	21.51	21.62	21.61				
20	64QAM	100	0	21.53	21.68	21.62				
20	256QAM	1	0	19.91	20.05	19.91				
20	256QAM	1	49	19.84	19.92	19.78	20.3	4.5		
20	256QAM	1	99	19.95	19.98	19.92				
20	256QAM	50	0	19.84	19.89	19.89				
20	256QAM	50	24	19.70	19.82	19.80	20.3	4.5		
20	256QAM	50	50	19.66	19.80	19.78				
20	256QAM	100	0	19.77	19.85	19.78				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.98	23.96	24.01				
15	QPSK	1	37	23.95	23.90	23.86	24.8	0		
15	QPSK	1	74	23.97	24.00	23.94				
15	QPSK	36	0	22.98	23.01	22.96				
15	QPSK	36	20	23.01	22.87	23.01	23.8	1		
15	QPSK	36	39	23.01	22.90	23.08				
15	QPSK	75	0	23.09	23.00	22.95				
15	16QAM	1	0	23.04	23.10	23.00				
15	16QAM	1	37	23.00	23.06	22.93	23.8	1		
15	16QAM	1	74	23.04	23.03	22.96				
15	16QAM	36	0	22.01	22.05	21.98				
15	16QAM	36	20	21.98	22.09	21.93	22.8	2		
15	16QAM	36	39	21.84	22.03	22.07				
15	16QAM	75	0	22.04	22.09	22.10				
15	64QAM	1	0	22.22	22.30	22.17				
15	64QAM	1	37	22.18	22.22	22.14	22.8	2		
15	64QAM	1	74	22.05	22.12	22.14				
15	64QAM	36	0	21.51	21.65	21.46				
15	64QAM	36	20	21.48	21.57	21.42	21.8	3		
15	64QAM	36	39	21.43	21.60	21.49				
15	64QAM	75	0	21.44	21.65	21.61				
15	256QAM	1	0	19.86	20.04	19.88				
15	256QAM	1	37	19.79	19.79	19.67	20.3	4.5		
15	256QAM	1	74	19.88	19.90	19.82				
15	256QAM	36	0	19.73	19.87	19.66				
15	256QAM	36	20	19.62	19.78	19.72	20.3	4.5		
15	256QAM	36	39	19.53	19.85	19.70				
15	256QAM	75	0	19.67	19.76	19.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.04	24.01	23.92				
10	QPSK	1	25	23.97	23.96	23.95	24.8	0		
10	QPSK	1	49	23.93	24.02	23.94				
10	QPSK	25	0	23.00	23.11	23.07				
10	QPSK	25	12	23.02	22.95	22.96	23.8	1		
10	QPSK	25	25	23.02	22.99	23.07				
10	QPSK	50	0	23.00	23.04	23.07				
10	16QAM	1	0	22.96	23.08	22.96				
10	16QAM	1	25	23.00	23.03	22.94	23.8	1		
10	16QAM	1	49	23.02	23.08	23.03				
10	16QAM	25	0	22.07	22.09	22.03				
10	16QAM	25	12	22.02	22.08	21.89	22.8	2		
10	16QAM	25	25	21.84	21.88	22.03				
10	16QAM	50	0	21.94	22.14	22.02				
10	64QAM	1	0	22.21	22.19	22.12				
10	64QAM	1	25	22.17	22.10	22.15	22.8	2		
10	64QAM	1	49	22.04	22.19	22.25				
10	64QAM	25	0	21.54	21.62	21.49				
10	64QAM	25	12	21.41	21.56	21.39	21.8	3		
10	64QAM	25	25	21.47	21.67	21.53				
10	64QAM	50	0	21.51	21.61	21.50				
10	256QAM	1	0	19.76	19.93	19.81				
10	256QAM	1	25	19.62	19.79	19.76	20.3	4.5		
10	256QAM	1	49	19.83	19.92	19.78				
10	256QAM	25	0	19.73	19.88	19.69				
10	256QAM	25	12	19.57	19.75	19.72	20.3	4.5		
10	256QAM	25	25	19.59	19.68	19.75				
10	256QAM	50	0	19.65	19.78	19.67				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.04	23.94	23.98				
5	QPSK	1	12	23.92	23.93	23.96	24.8	0		
5	QPSK	1	24	23.97	23.99	23.93				
5	QPSK	12	0	22.98	23.10	23.04				
5	QPSK	12	7	22.92	22.92	22.99	23.8	1		
5	QPSK	12	13	22.98	22.94	22.97				
5	QPSK	25	0	22.98	23.08	23.09				
5	16QAM	1	0	22.24	23.11	22.99	23.8	1		
5	16QAM	1	12	22.93	23.06	22.98				
5	16QAM	1	24	22.94	23.00	23.06				
5	16QAM	12	0	22.12	22.02	22.06				
5	16QAM	12	7	21.99	22.03	21.91	22.8	2		
5	16QAM	12	13	21.84	21.99	22.07				
5	16QAM	25	0	22.03	22.13	22.09				
5	64QAM	1	0	22.16	22.21	22.12	22.8	2		
5	64QAM	1	12	22.10	22.20	22.14				
5	64QAM	1	24	22.12	22.17	22.22				
5	64QAM	12	0	21.62	21.68	21.54				
5	64QAM	12	7	21.54	21.59	21.48	21.8	3		
5	64QAM	12	13	21.38	21.48	21.58				
5	64QAM	25	0	21.41	21.53	21.60				
5	256QAM	1	0	19.86	20.04	19.76				
5	256QAM	1	12	19.71	19.80	19.66	20.3	4.5		
5	256QAM	1	24	19.84	19.88	19.89				
5	256QAM	12	0	19.77	19.76	19.73				
5	256QAM	12	7	19.65	19.73	19.70	20.3	4.5		
5	256QAM	12	13	19.56	19.76	19.69				
5	256QAM	25	0	19.71	19.74	19.64				

Band 38_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.70	24.78	24.75			25	0
20	QPSK	1	49	24.70	24.68	24.71				
20	QPSK	1	99	24.75	24.74	24.83				
20	QPSK	50	0	23.78	23.80	23.77			24	1
20	QPSK	50	24	23.68	23.77	23.72				
20	QPSK	50	50	23.68	23.71	23.86				
20	QPSK	100	0	23.76	23.78	23.75			23	2
20	16QAM	1	0	23.72	23.80	23.79				
20	16QAM	1	49	23.65	23.77	23.67				
20	16QAM	1	99	23.63	23.75	23.67			24	1
20	16QAM	50	0	22.71	22.84	22.69				
20	16QAM	50	24	22.66	22.75	22.73				
20	16QAM	50	50	22.60	22.73	22.61			23	2
20	16QAM	100	0	22.69	22.80	22.68				
20	64QAM	1	0	22.80	22.95	22.86				
20	64QAM	1	49	22.84	22.90	22.84			23	2
20	64QAM	1	99	22.85	22.91	22.79				
20	64QAM	50	0	22.27	22.36	22.23				
20	64QAM	50	24	22.22	22.30	22.20			22.5	2.5
20	64QAM	50	50	22.16	22.31	22.26				
20	64QAM	100	0	22.32	22.33	22.31				
20	256QAM	1	0	20.65	20.72	20.58			21	4
20	256QAM	1	49	20.63	20.65	20.58				
20	256QAM	1	99	20.58	20.66	20.57				
20	256QAM	50	0	20.64	20.70	20.62			21	4
20	256QAM	50	24	20.57	20.65	20.51				
20	256QAM	50	50	20.46	20.60	20.52				
20	256QAM	100	0	20.65	20.68	20.54				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.70	24.76	24.67			25	0
15	QPSK	1	37	24.59	24.64	24.89				
15	QPSK	1	74	24.61	24.73	24.50				
15	QPSK	36	0	23.66	23.71	23.74			24	1
15	QPSK	36	20	23.57	23.64	23.59				
15	QPSK	36	29	23.56	23.63	23.65				
15	QPSK	75	0	23.74	23.80	23.75			24	1
15	QPSK	1	0	23.57	23.76	23.55				
15	16QAM	1	37	23.60	23.70	23.58				
15	16QAM	1	74	23.61	23.74	23.64			23	2
15	16QAM	36	0	22.59	22.76	22.54				
15	16QAM	36	20	22.65	22.70	22.62				
15	16QAM	36	29	22.62	22.70	22.59			22.5	2.5
15	16QAM	75	0	22.56	22.70	22.53				
15	64QAM	1	37	22.76	22.88	22.72				
15	64QAM	1	74	22.82	22.75	22.80			23	2
15	64QAM	1	74	22.76	22.90	22.86				
15	64QAM	36	20	22.55	22.70	22.53				
15	64QAM	36	20	22.15	22.20	22.08			21	4
15	64QAM	36	36	22.03	22.23	22.20				
15	64QAM	75	0	22.27	22.21	22.28				
15	256QAM	1	0	20.59	20.68	20.53			21	4
15	256QAM	1	49	20.54	20.64	20.55				
15	256QAM	1	74	20.42	20.53	20.49				
15	256QAM	36	0	20.62	20.67	20.54			21	4
15	256QAM	36	20	20.52	20.55	20.41				
15	256QAM	36	39	20.36	20.47	20.41				
15	256QAM	75	0	20.55	20.59	20.50				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.75	24.84	24.80			25	0
10	QPSK	1	25	24.61	24.61	24.66				
10	QPSK	1	49	24.64	24.63	24.48				
10	QPSK	25	0	23.67	23.67	23.86			24	1
10	QPSK	25	12	23.65	23.67	23.63				
10	QPSK	50	0	23.84	23.73	23.62				
10	16QAM	1	0	23.69	23.88	23.68			24	1
10	16QAM	1	25	23.52	23.73	23.58				
10	16QAM	1	49	23.56	23.61	23.55				
10	16QAM	25	0	22.60	22.76	22.65			23	2
10	16QAM	25	12	22.65	22.73	22.64				
10	16QAM	25	25	22.48	22.68	22.51				
10	16QAM	50	0	22.65	22.66	22.61			22.5	2.5
10	64QAM	1	0	22.68	22.21	22.74				
10	64QAM	1	25	22.77	22.77	22.69				
10	64QAM	25	0	22.60	22.70	22.61			23	2
10	64QAM	25	0	22.20	22.23	22.12				
10	64QAM	25	12	22.13	22.22	22.14				
10	64QAM	25	25	22.14	22.25	22.24			21	4
10	64QAM	50	0	22.21	22.25	22.19				
10	256QAM	1	25	20.99	20.92	20.54				
10	256QAM	1	49	20.48	20.67	20.49			21	4
10	256QAM	25	0	20.58	20.69	20.60				
10	256QAM	25	12	20.45	20.58	20.45				
10	256QAM	50	0	20.58	20.45	20.46				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.72	24.95	24.70			25	0
5	QPSK	1	12	24.59	24.63	24.57				
5	QPSK	1	24	24.73	24.66	24.59				
5	QPSK	12	0	23.70	23.67	23.62			24	1
5	QPSK	12	7	23.65	23.64	23.59				
5	QPSK	25	0	23.71	23.63	23.66				
5	16QAM	1	0	23.70	23.76	23.70			24	1
5	16QAM	1	12	23.53	23.75	23.62				
5	16QAM	1	24	23.58	23.69	23.59				
5	16QAM	12	0	22.68	22.69	22.65			23	2
5	16QAM	12	7	22.61	22.74	22.70				
5	16QAM	12	13	22.59	22.62	22.53				
5	16QAM	25	0	22.61	22.79	22.53			23	2
5	64QAM	1	0	22.71	22.92	22.85				
5	64QAM	1	12	22.81	22.89	22.78				
5	64QAM	1	24	22.81	22.79	22.69			22.5	2.5
5	64QAM	12	0	22.17	22.26	22.10				
5	64QAM	12	7	22.13	22.27	22.10				
5	64QAM	12	13	22.01	22.21	22.14			21	4
5	64QAM	25	0	22.21	22.26	22.17				
5	256QAM	0	0	20.53	20.65	20.52				
5	256QAM	1	12	20.50	20.63	20.48			21	4
5	256QAM	1	24	20.43	20.53	20.41				
5	256QAM	12	0	20.49	20.55	20.58				
5	256QAM	12	7	20.56	20.59	20.44			21	4
5	256QAM	12	13	20.57	20.57	20.47				
5	256QAM	25	0	20.53	20.54	20.49				

Band 41_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power Low High Ch./Freq.	Power High Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	25.92	24.08	24.12	24.05	24.10		
20	QPSK	1	49	23.74	24.04	24.00	23.97	24.01	25	0
20	QPSK	1	99	23.79	23.97	24.02	23.94	24.08		
20	QPSK	50	0	22.85	23.10	23.15	23.08	23.13		
20	QPSK	50	24	22.80	23.06	23.13	22.93	23.08	24	1
20	QPSK	50	50	22.80	23.07	23.01	22.95	23.06		
20	QPSK	100	0	22.83	23.08	23.13	23.08	23.11		
20	16QAM	1	0	23.13	23.02	23.14	23.02	23.07		
20	16QAM	1	49	23.07	23.03	23.13	23.05	23.05	24	1
20	16QAM	1	99	22.96	22.99	23.10	23.08	23.00		
20	16QAM	50	0	22.00	22.11	22.14	22.08	22.06		
20	16QAM	50	24	22.02	22.08	22.10	21.98	22.05	23	2
20	16QAM	50	50	22.06	22.03	22.11	21.99	22.05		
20	16QAM	100	0	22.01	21.99	22.13	22.09	22.00		
20	64QAM	1	0	22.28	22.32	22.33	22.24	22.24		
20	64QAM	1	49	22.19	22.17	22.26	22.20	22.17	23	2
20	64QAM	1	99	22.11	22.18	22.23	22.16	22.21		
20	64QAM	50	0	21.69	21.70	21.71	21.70	21.61		
20	64QAM	50	24	21.53	21.57	21.67	21.60	21.52	22	3
20	64QAM	50	50	21.51	21.50	21.60	21.59	21.55		
20	64QAM	100	0	21.56	21.55	21.70	21.69	21.55		
20	256QAM	1	0	19.97	20.01	20.06	19.94	19.97	20.5	4.5
20	256QAM	1	49	19.94	19.97	20.01	19.98	19.93		
20	256QAM	1	99	19.92	19.95	19.98	19.89	19.94		
20	256QAM	50	0	19.86	19.85	19.91	19.85	19.76		
20	256QAM	50	24	19.70	19.77	19.85	19.78	19.84	20.5	4.5
20	256QAM	50	50	19.75	19.81	19.88	19.84	19.87		
20	256QAM	100	0	19.80	19.74	19.89	19.80	19.77		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.68	24.05	23.98	23.94	24.00		
15	QPSK	1	37	23.72	23.98	23.92	23.90	23.99	25	0
15	QPSK	1	74	23.65	23.82	23.94	23.80	23.96		
15	QPSK	36	0	22.73	22.98	23.06	22.99	23.00		
15	QPSK	36	20	22.66	22.92	22.98	22.91	22.98	24	1
15	QPSK	36	39	22.67	22.93	22.94	22.94	22.99		
15	QPSK	75	0	22.70	23.03	23.02	22.93	23.06		
15	16QAM	1	0	22.98	22.91	23.01	23.01	22.96		
15	16QAM	1	37	22.96	22.88	23.12	22.90	22.95	24	1
15	16QAM	1	74	22.93	22.98	23.08	22.97			
15	16QAM	36	0	21.92	22.08	22.02	21.99	21.96		
15	16QAM	36	20	21.99	22.04	22.01	21.83	21.98	23	2
15	16QAM	36	39	22.05	22.01	22.01	21.95	22.00		
15	16QAM	75	0	21.99	21.88	22.11	21.94	21.91		
15	64QAM	1	0	22.18	22.18	22.19	22.14	22.14		
15	64QAM	1	37	22.09	22.04	22.24	22.08	22.11	23	2
15	64QAM	1	74	22.03	22.10	22.16	22.08	22.17		
15	64QAM	36	0	21.56	21.65	21.62	21.55	21.58		
15	64QAM	36	20	21.39	21.42	21.66	21.48	21.47	22	3
15	64QAM	36	39	21.39	21.39	21.53	21.44	21.52		
15	64QAM	75	0	21.43	21.46	21.68	21.57	21.53		
15	256QAM	1	0	19.82	19.86	20.03	19.84	19.87	20.5	4.5
15	256QAM	1	37	19.92	19.92	19.92	19.84	19.88		
15	256QAM	1	74	19.86	19.94	19.84	19.79	19.79		
15	256QAM	36	0	19.72	19.81	19.80	19.71	19.72		
15	256QAM	36	20	19.65	19.62	19.76	19.72	19.77	20.5	4.5
15	256QAM	36	39	19.68	19.68	19.78	19.73	19.78		
15	256QAM	75	0	19.87	19.62	19.74	19.77	19.72		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.68	24.00	23.97	23.98	23.97		
10	QPSK	1	25	23.63	24.00	23.91	23.92	23.89	25	0
10	QPSK	1	49	23.69	23.92	23.97	23.86	23.93		
10	QPSK	25	0	22.72	23.00	23.14	23.03	23.06		
10	QPSK	25	12	22.72	22.93	22.98	22.91	23.00	24	1
10	QPSK	25	25	22.67	23.05	22.87	22.85	23.02		
10	QPSK	50	0	22.68	23.05	22.99	22.96	23.05		
10	16QAM	1	0	23.12	23.01	23.07	22.87	23.05		
10	16QAM	1	25	23.00	23.02	23.03	22.95	23.04	24	1
10	16QAM	1	49	22.94	23.03	23.03	22.92	23.05		
10	16QAM	25	0	21.98	22.09	22.02	22.08	22.00		
10	16QAM	25	12	21.91	22.04	22.08	21.96	21.99	23	2
10	16QAM	25	25	21.93	21.96	21.96	21.86	21.94		
10	16QAM	50	0	21.90	21.97	22.03	22.06	21.88		
10	64QAM	1	0	22.13	22.31	22.16	22.21	22.11	23	2
10	64QAM	1	25	22.04	22.08	22.12	22.18	22.08		
10	64QAM	1	49	22.02	22.10	22.09	22.04	22.10		
10	64QAM	25	0	21.60	21.68	21.56	21.60	21.46		
10	64QAM	25	12	21.48	21.54	21.65	21.53	21.48	22	3
10	64QAM	25	25	21.36	21.42	21.55	21.49	21.48		
10	64QAM	50	0	21.51	21.41	21.58	21.57	21.48		
10	256QAM	1	0	19.96	19.96	20.01	19.88	19.90	20.5	4.5
10	256QAM	1	25	19.92	19.90	19.88	19.91	19.90		
10	256QAM	1	49	19.94	19.90	19.91	19.87	19.89		
10	256QAM	25	0	19.82	19.70	19.89	19.83	19.61		
10	256QAM	25	12	19.67	19.73	19.83	19.70	19.77	20.5	4.5
10	256QAM	25	25	19.74	19.78	19.78	19.74	19.83		
10	256QAM	50	0	19.84	19.72	19.74	19.73	19.69		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.75	24.02	24.04	24.00	23.96		
5	QPSK	1	12	23.70	23.91	23.95	23.83	23.88	25	0
5	QPSK	1	24	23.69	23.96	23.99	23.82	23.99		
5	QPSK	12	0	22.84	23.02	23.10	23.00	23.03		
5	QPSK	12	7	22.85	22.98	23.11	22.84	22.96	24	1
5	QPSK	12	13	22.67	23.05	22.90	22.85	23.01		
5	QPSK	25	0	22.82	23.06	23.04	22.95	23.05		
5	16QAM	1	0	23.10	23.00	23.10	22.97	23.01	24	1
5	16QAM	1	12	22.99	22.90	23.11	22.98	22.90		
5	16QAM	1	24	22.83	22.86	23.09	23.00	22.95		
5	16QAM	12	0	21.97	22.08	22.05	22.02	21.97		
5	16QAM	12	7	22.01	22.00	22.04	21.89	22.03	23	2
5	16QAM	12	13	22.04	21.98	22.01	21.93	22.02		
5	64QAM	1	0	21.98	21.94	22.01	21.96	21.86		
5	64QAM	1	0	22.14	22.28	22.30	22.15	22.09	23	2
5	64QAM	1	12	22.08	22.02	22.12	22.05	22.02		
5	64QAM	1	24	22.08	22.16	22.12	22.04	22.10		
5	64QAM	12	0	21.54	21.58	21.60	21.58	21.52		
5	64QAM	12	7	21.41	21.44	21.58	21.52	21.41	22	3
5	64QAM	12	13	21.50	21.35	21.57	21.54	21.41		
5	64QAM	25	0	21.42	21.44	21.68	21.67	21.41		
5	256QAM	1	0	19.84	19.91	19.96	19.85	19.86		
5	256QAM	1	12	19.82	19.96	19.90	19.88	19.89	20.5	4.5
5	256QAM	1	24	19.82	19.82	19.90	19.80	19.82		
5	256QAM	12	0	19.71	19.74	19.89	19.74	19.86		
5	256QAM	12	7	19.60	19.68	19.79	19.70	19.82	20.5	4.5
5	256QAM	12	13	19.67	19.70	19.73	19.83	19.84		
5	256QAM	25	0	19.75	19.60	19.74	19.74	19.75		

Band 41_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Mid Ch./ Freq.	Power Low Middle Ch./ Freq.	Power/ Middle Ch./ Freq.	Power High Mid Ch./ Freq.	Power High Ch./ Freq.	Turn-up (mtd)	MPR (dB)
Channel										
Frequency (MHz)										
				39750	40185	40620	41055	41490		
				2508	2649.5	2593	2636.5	2680		
20	QPSK	1	0	24.40	24.60	24.80	25.02	24.58		
20	QPSK	1	49	24.39	24.50	24.67	24.48	24.56	25	0
20	QPSK	1	99	24.36	24.54	24.78	24.49	24.54		
20	QPSK	50	0	23.41	23.62	23.82	23.53	23.50		
20	QPSK	50	24	23.38	23.49	23.78	23.45	23.48		
20	QPSK	50	50	23.31	23.50	23.79	23.38	23.47	24	1
20	QPSK	100	0	23.40	23.60	23.80	23.51	23.56		
20	QPSK	1	0	23.34	23.51	23.81	23.49	23.51		
20	16QAM	1	0	23.29	23.48	23.77	23.38	23.48	24	1
20	16QAM	1	99	23.34	23.50	23.75	23.40	23.50		
20	16QAM	50	0	22.32	22.61	22.82	22.41	22.50		
20	16QAM	50	24	22.28	22.40	22.72	22.33	22.42	23	2
20	16QAM	50	50	22.26	22.44	22.76	22.38	22.46		
20	16QAM	100	0	22.34	22.54	22.84	22.35	22.57		
20	64QAM	1	0	22.52	22.60	22.93	22.53	22.62		
20	64QAM	1	49	22.47	22.54	22.88	22.53	22.63	23	2
20	64QAM	1	99	22.33	22.61	22.85	22.44	22.62		
20	64QAM	50	0	21.82	22.02	22.36	21.95	22.05		
20	64QAM	50	24	21.76	21.96	22.28	21.84	21.96	22.5	2.5
20	64QAM	50	50	21.82	22.04	22.38	21.93	22.04		
20	64QAM	100	0	21.92	22.03	22.33	21.96	22.05		
20	256QAM	1	0	20.18	20.43	20.71	20.39	20.43		
20	256QAM	1	49	20.08	20.39	20.62	20.27	20.31	21	4
20	256QAM	1	99	20.23	20.36	20.68	20.28	20.41		
20	256QAM	50	0	20.14	20.36	20.63	20.24	20.38		
20	256QAM	50	24	20.17	20.38	20.61	20.16	20.29	21	4
20	256QAM	50	50	20.08	20.35	20.63	20.21	20.29		
20	256QAM	100	0	20.14	20.36	20.65	20.22	20.43		
Channel										
Frequency (MHz)										
				39725	40173	40620	41058	41515		
				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.32	24.48	24.74	24.39	24.53		
15	QPSK	1	37	24.37	24.51	24.76	24.41	24.55	25	0
15	QPSK	1	74	24.22	24.51	24.69	24.37	24.52		
15	QPSK	36	0	23.40	23.59	23.78	23.38	23.57		
15	QPSK	36	20	23.26	23.39	23.76	23.34	23.37	24	1
15	QPSK	36	39	23.20	23.49	23.75	23.30	23.33		
15	QPSK	75	0	23.33	23.50	23.78	23.45	23.46		
15	16QAM	1	0	23.27	23.39	23.68	23.34	23.47		
15	16QAM	1	37	23.16	23.39	23.63	23.34	23.39	24	1
15	16QAM	1	74	23.19	23.44	23.68	23.34	23.45		
15	16QAM	36	0	22.29	22.49	22.74	22.28	22.38		
15	16QAM	36	20	22.23	22.28	22.70	22.32	22.33	23	2
15	16QAM	36	39	22.28	22.35	22.63	22.29	22.30		
15	16QAM	75	0	22.28	22.51	22.68	22.34	22.43		
15	64QAM	1	0	22.40	22.55	22.82	22.40	22.52		
15	64QAM	1	37	22.39	22.39	22.81	22.42	22.54	23	2
15	64QAM	1	74	22.20	22.53	22.82	22.43	22.51		
15	64QAM	36	0	21.77	21.98	22.31	21.93	22.03		
15	64QAM	36	20	21.68	21.97	22.28	21.89	21.97	22.5	2.5
15	64QAM	36	39	21.68	21.98	22.28	21.82	21.93		
15	64QAM	75	0	21.80	21.93	22.21	21.94	21.92		
15	256QAM	1	0	20.10	20.31	20.68	20.38	20.33		
15	256QAM	1	37	20.06	20.37	20.53	20.18	20.19	21	
15	256QAM	1	74	20.18	20.39	20.63	20.21	20.35		
15	256QAM	36	0	20.09	20.35	20.59	20.24	20.25		
15	256QAM	36	20	20.03	20.37	20.60	20.16	20.23	21	4
15	256QAM	36	39	20.07	20.30	20.48	20.16	20.18		
15	256QAM	75	0	20.05	20.23	20.58	20.11	20.30		
Channel										
Frequency (MHz)										
				39700	40160	40620	41080	41540		
				2503	2547	2593	2639	2685		
10	QPSK	1	0	24.27	24.51	24.68	24.42	24.45		
10	QPSK	1	25	24.34	24.44	24.61	24.32	24.51	24	0
10	QPSK	1	49	24.24	24.51	24.72	24.43	24.39		
10	QPSK	25	0	23.25	23.56	23.68	23.44	23.54		
10	QPSK	25	12	23.29	23.35	23.76	23.35	23.36	24	1
10	QPSK	25	25	23.24	23.45	23.73	23.37	23.41		
10	QPSK	50	0	23.28	23.37	23.71	23.41	23.44	24	1
10	16QAM	1	0	23.28	23.44	23.77	23.39	23.38		
10	16QAM	1	25	23.17	23.33	23.66	23.34	23.47	24	1
10	16QAM	1	49	23.30	23.46	23.62	23.29	23.40		
10	16QAM	25	0	22.26	22.48	22.69	22.40	22.45		
10	16QAM	25	12	22.19	22.29	22.68	22.39	22.47	23	2
10	16QAM	25	25	22.15	22.29	22.71	22.27	22.44		
10	16QAM	50	0	22.23	22.50	22.72	22.34	22.47		
10	64QAM	1	0	22.49	22.53	22.76	22.45	22.58		
10	64QAM	1	25	22.36	22.48	22.82	22.50	22.58	23	2
10	64QAM	1	49	22.28	22.53	22.84	22.40	22.52		
10	64QAM	25	0	21.81	21.90	22.23	21.83	21.94	22.5	2.5
10	64QAM	25	12	21.61	21.91	22.16	21.79	21.93		
10	64QAM	25	25	21.77	21.98	22.29	21.91	21.84		
10	64QAM	50	0	21.84	21.96	22.18	21.93	21.98		
10	256QAM	1	0	20.17	20.38	20.65	20.33	20.35		
10	256QAM	1	25	20.19	20.39	20.63	20.27	20.33	21	4
10	256QAM	1	49	20.12	20.28	20.59	20.18	20.39		
10	256QAM	25	0	20.13	20.35	20.64	20.19	20.31		
10	256QAM	25	12	20.06	20.30	20.54	20.16	20.27	21	4
10	256QAM	25	25	20.02	20.23	20.48	20.20	20.23		
10	256QAM	50	0	20.09	20.21	20.55	20.19	20.37		
Channel										
Frequency (MHz)										
				3498.5	2545.8	2593	2640.30	2697.5		
5	QPSK	1	0	24.34	24.56	24.71	24.50	24.45		
5	QPSK	1	12	24.31	24.38	24.60	24.37	24.44	25	0
5	QPSK	1	24	24.28	24.46	24.77	24.46	24.40		
5	QPSK	12	0	23.28	23.54	23.81	23.45	23.58		
5	QPSK	12	7	23.31	23.58	23.77	23.34	23.38	24	1
5	QPSK	12	13	23.28	23.57	23.76	23.36	23.47		
5	QPSK	25	0	23.27	23.57	23.68	23.48	23.47		
5	16QAM	1	0	23.29	23.42	23.66	23.45	23.40		
5	16QAM	1	12	23.17	23.33	23.62	23.30	23.35	24	1
5	16QAM	1	24	23.19	23.46	23.61	23.38	23.45		
5	16QAM	12	0	22.28	22.28	22.73	22.28	22.28		
5	16QAM	12	7	22.19	22.38	22.67	22.16	22.26	23	2
5	16QAM	12	13	22.14	22.35	22.64	22.19	22.34		
5	64QAM	1	0	22.39	22.56	22.83	22.47	22.53		
5	64QAM	1	12	22.46	22.51	22.87	22.42	22.49	23	2
5	64QAM	1	24	22.43	22.58	22.82	22.47	22.57		
5	64QAM	12	0	21.79	21.94	22.23	21.88	21.99	22.5	2.5
5	64QAM	12	7	21.69	21.98	22.15	21.82	21.91		
5	64QAM	12	13	21.75	21.94	22.28	21.94	21.97		
5	64QAM	25	0	21.83	21.90	22.20	21.88	21.96		
5	256QAM	1	0	20.16	20.37	20.63	20.37	20.33	21	4
5	256QAM	1	12	20.19	20.37	20.60	20.19	20.29		
5	256QAM	1	24	20.20	20.35	20.58	20.18	20.31		
5	256QAM	12	0	20.12	20.43	20.55	20.25	20.36		
5	256QAM	12	7	20.15	20.33	20.50	20.08	20.23	21	4
5	256QAM	12	13	20.07	20.25	20.61	20.16	20.21		

Reduced Power Mode for ECI 2

GSM850_Ant.13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	524.2	836.4	848.8	Limit	524.2	836.4	848.8	Limit
GSM 1 Tx slot	30.61	30.92	30.87	32.60	21.61	21.92	21.87	23.60
GPRS/EDGE GMSK 1 Tx slot	30.60	30.90	30.85	32.60	21.60	21.90	21.85	23.60
GPRS/EDGE GMSK 2 Tx slots	27.37	27.72	27.68	29.00	21.37	21.72	21.68	23.00
GPRS/EDGE GMSK 3 Tx slots	25.31	25.68	25.64	27.20	21.05	21.42	21.38	22.84
GPRS/EDGE GMSK 4 Tx slots	23.81	24.11	24.13	25.80	20.81	21.11	21.13	22.80
EDGE BPSK 1 Tx slot	26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50
EDGE BPSK 2 Tx slots	24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00
EDGE BPSK 3 Tx slots	22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74
EDGE BPSK 4 Tx slots	20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00

GSM1800_Ant.13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1832	1844.8	Limit	1522.2	1832	1844.8	Limit
GSM 1 Tx slot	24.65	25.17	25.15	26.30	15.95	16.17	16.15	17.30
GPRS/EDGE GMSK 1 Tx slot	24.60	25.13	25.13	26.30	15.90	16.13	16.13	17.30
GPRS/EDGE GMSK 2 Tx slots	21.69	21.95	21.92	22.80	15.89	15.95	15.92	16.80
GPRS/EDGE GMSK 3 Tx slots	19.81	20.02	20.02	20.50	15.55	15.76	15.76	16.24
GPRS/EDGE GMSK 4 Tx slots	18.23	18.48	18.49	19.80	15.23	15.48	15.49	16.60
EDGE BPSK 1 Tx slot	25.71	25.33	25.70	28.00	16.71	16.33	16.70	17.00
EDGE BPSK 2 Tx slots	22.19	22.45	22.47	23.00	16.19	16.45	16.47	17.00
EDGE BPSK 3 Tx slots	20.27	20.52	20.51	21.00	16.01	16.26	16.25	16.74
EDGE BPSK 4 Tx slots	18.92	19.13	19.11	20.00	15.92	16.13	16.11	17.00

Band	WCDMA II_Ant.13			Tune-up Limit (dbm)	WCDMA II_Ant.31			Tune-up Limit (dbm)
	TX Channel	9662	9400		9262	9400	9538	
Rx Channel	9662	9800	9938	Limit	9662	9800	9938	Limit
Frequency (MHz)	1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
3GPP Rel.99 AMR 12.2Kbps	16.61	16.63	16.60	17.70	24.06	24.08	24.05	24.70
3GPP Rel.99 RMC 12.2Kbps	16.63	16.65	16.61	17.70	24.08	24.10	24.06	24.70
3GPP Rel.6 HSDPA Subtest-1	16.49	16.49	16.56	17.70	23.30	23.04	23.20	24.00
3GPP Rel.6 HSDPA Subtest-2	16.57	16.52	16.55	17.70	23.26	23.00	23.25	24.00
3GPP Rel.6 HSDPA Subtest-3	16.53	16.53	16.51	17.70	22.81	22.56	22.81	23.50
3GPP Rel.6 HSDPA Subtest-4	16.52	16.55	16.50	17.70	22.79	22.54	22.75	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	16.55	16.50	16.59	17.70	23.18	22.96	23.19	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	16.47	16.61	16.46	17.70	23.24	22.90	23.11	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	16.52	16.54	16.51	17.70	22.73	22.55	22.78	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	16.57	16.50	16.58	17.70	22.71	22.49	22.71	23.50
3GPP Rel.6 HSUPA Subtest-1	16.55	16.56	16.58	17.70	21.27	20.98	21.25	22.00
3GPP Rel.6 HSUPA Subtest-2	16.53	16.50	16.55	17.70	21.30	20.98	21.30	22.00
3GPP Rel.6 HSUPA Subtest-3	16.60	16.56	16.56	17.70	22.32	22.12	22.26	23.00
3GPP Rel.6 HSUPA Subtest-4	16.51	16.57	16.45	17.70	20.82	20.61	20.76	21.50
3GPP Rel.6 HSUPA Subtest-5	16.55	16.61	16.46	17.70	22.30	22.00	22.30	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	16.48	16.50	16.54	17.70	20.45	20.44	20.40	21.50

Band	WCDMA V_Ant.13			Tune-up Limit (dbm)	WCDMA V_Ant.31			Tune-up Limit (dbm)
	TX Channel	4132	4182		4132	4182	4233	
Rx Channel	4357	4407	4458	Limit	4357	4407	4458	Limit
Frequency (MHz)	828.4	834.4	840.6	Limit	828.4	834.4	840.6	Limit
3GPP Rel.99 AMR 12.2Kbps	20.65	20.66	20.60	22.00	23.83	23.88	23.81	25.00
3GPP Rel.99 RMC 12.2Kbps	20.66	20.68	20.61	22.00	23.85	23.90	23.83	25.00
3GPP Rel.6 HSDPA Subtest-1	20.54	20.59	20.50	22.00	23.08	23.01	22.96	24.00
3GPP Rel.6 HSDPA Subtest-2	20.54	20.55	20.59	22.00	23.03	23.02	22.99	24.00
3GPP Rel.6 HSDPA Subtest-3	20.63	20.59	20.53	22.00	22.62	22.59	22.52	23.50
3GPP Rel.6 HSDPA Subtest-4	20.57	20.65	20.55	22.00	22.56	22.55	22.47	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	20.56	20.53	20.57	22.00	22.98	22.93	22.83	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	20.58	20.58	20.49	22.00	22.93	23.00	22.84	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	20.64	20.56	20.59	22.00	22.57	22.54	22.40	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	20.57	20.53	20.59	22.00	22.49	22.45	22.40	23.50
3GPP Rel.6 HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96	22.00
3GPP Rel.6 HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98	22.00
3GPP Rel.6 HSUPA Subtest-3	20.54	20.60	20.47	22.00	21.98	22.02	21.97	23.00
3GPP Rel.6 HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43	21.50
3GPP Rel.6 HSUPA Subtest-5	20.50	20.62	20.57	22.00	22.00	22.00	21.90	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	20.17	20.20	20.15	21.50	20.35	20.66	20.62	21.50

GSM1800_Ant.31	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1832	1844.8	Limit	1522.2	1832	1844.8	Limit
GSM 1 Tx slot	29.57	29.60	29.55	30.50	20.57	20.60	20.55	21.50
GPRS/EDGE GMSK 1 Tx slot	29.55	29.58	29.53	30.50	20.55	20.56	20.53	21.50
GPRS/EDGE GMSK 2 Tx slots	27.76	27.80	27.76	28.00	21.76	21.80	21.76	22.00
GPRS/EDGE GMSK 3 Tx slots	25.38	25.40	25.37	25.50	21.12	21.14	21.11	21.24
GPRS/EDGE GMSK 4 Tx slots	23.96	23.98	23.95	24.50	20.96	20.98	20.95	21.50
EDGE BPSK 1 Tx slot	26.18	26.21	26.16	26.50	17.18	17.21	17.16	17.50
EDGE BPSK 2 Tx slots	24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots	22.20	22.23	22.17	22.50	17.94	17.97	17.91	18.24
EDGE BPSK 4 Tx slots	20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band	WCDMA IV_Ant.13			Tune-up Limit (dbm)	WCDMA IV_Ant.31			Tune-up Limit (dbm)
	TX Channel	1312	1413		1312	1413	1513	
Rx Channel	1537	1638	1738	Limit	1537	1638	1738	Limit
Frequency (MHz)	1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	Limit
3GPP Rel.99 AMR 12.2Kbps	17.05	17.23	16.95	18.20	24.08	24.10	24.03	24.70
3GPP Rel.99 RMC 12.2Kbps	17.07	17.25	16.96	18.20	24.10	24.12	24.05	24.70
3GPP Rel.6 HSDPA Subtest-1	16.90	17.22	16.87	18.20	23.10	23.30	22.97	24.00
3GPP Rel.6 HSDPA Subtest-2	17.04	17.08	16.84	18.20	23.08	23.31	22.97	24.00
3GPP Rel.6 HSDPA Subtest-3	16.97	17.09	16.91	18.20	22.63	22.81	22.48	23.50
3GPP Rel.6 HSDPA Subtest-4	16.95	17.19	16.93	18.20	22.60	22.78	22.47	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	16.90	17.22	16.83	18.20	23.05	23.29	22.87	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	16.90	17.15	16.84	18.20	22.93	23.28	22.87	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	16.92	17.20	16.88	18.20	22.52	22.75	22.44	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	16.91	17.09	16.86	18.20	22.47	22.71	22.43	23.50
3GPP Rel.6 HSUPA Subtest-1	16.91	17.08	16.89	18.20	21.08	21.28	20.95	22.00
3GPP Rel.6 HSUPA Subtest-2	16.98	17.21	16.89	18.20	21.13	21.27	21.04	22.00
3GPP Rel.6 HSUPA Subtest-3	17.04	17.21	16.88	18.20	22.11	22.29	22.02	23.00
3GPP Rel.6 HSUPA Subtest-4	16.98	17.16	16.90	18.20	20.62	20.86	20.46	21.50
3GPP Rel.6 HSUPA Subtest-5	17.01	17.14	16.88	18.20	22.10	22.30	22.00	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	16.98	17.22	16.86	18.20	20.66	20.73	20.65	21.50

[illegible]

Band 2_Ant 31												
RF MHz	Modulation	RF Power dBm	RF Offset MHz	RF Freq (Low Power) MHz	RF Freq (Normal Power) MHz	RF Freq (High Power) MHz	RF Power dBm	RF Power dBm	RF Power dBm	RF Power dBm	RF Power dBm	RF Power dBm
Channel 1												
20	OFDM	1	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	1	8A	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	50	24	1963.8	1963.8	1963.8						
20	OFDM	100	0	1965	1965	1965						
20	OFDM	1	4A	1964.4	1964.4	1964.4						
20	OFDM	50	24	1963.8</								

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Band 4_Ant 11												
SRV	Channel	FRS	HRF	CRS	CRF	TS	TS2	TS3	TS4	TS5	TS6	TS7
Modulation	FRS	HRF	CRS	CRF	TS	TS2	TS3	TS4	TS5	TS6	TS7	TS8
Frequency (MHz)	TS	TS2	TS3	TS4	TS5	TS6	TS7	TS8	TS9	TS10	TS11	TS12
10	OPRS	1	0	20.90	20.91	20.92	20.93	20.94	20.95	20.96	20.97	20.98
10	OPRS	1	0	21.96	21.97	21.98	21.99	22.00	22.01	22.02	22.03	22.04
10	OPRS	1	0	23.04	23.05	23.06	23.07	23.08	23.09	23.10	23.11	23.12
10	OPRS	1	0	24.16	24.17	24.18	24.19	24.20	24.21	24.22	24.23	24.24
10	OPRS	1	0	25.28	25.29	25.30	25.31	25.32	25.33	25.34	25.35	25.36
10	OPRS	1	0	26.40	26.41	26.42	26.43	26.44	26.45	26.46	26.47	26.48
10	OPRS	1	0	27.52	27.53	27.54	27.55	27.56	27.57	27.58	27.59	27.60
10	OPRS	1	0	28.64	28.65	28.66	28.67	28.68	28.69	28.70	28.71	28.72
10	OPRS	1	0	29.76	29.77	29.78	29.79	29.80	29.81	29.82	29.83	29.84
10	OPRS	1	0	30.88	30.89	30.90	30.91	30.92	30.93	30.94	30.95	30.96
10	OPRS	1	0	32.00	32.01	32.02	32.03	32.04	32.05	32.06	32.07	32.08
10	OPRS	1	0	33.12	33.13	33.14	33.15	33.16	33.17	33.18	33.19	33.20
10	OPRS	1	0	34.24	34.25	34.26	34.27	34.28	34.29	34.30	34.31	34.32
10	OPRS	1	0	35.36	35.37	35.38	35.39	35.40	35.41	35.42	35.43	35.44
10	OPRS	1	0	36.48	36.49	36.50	36.51	36.52	36.53	36.54	36.55	36.56
10	OPRS	1	0	37.60	37.61	37.62	37.63	37.64	37.65	37.66	37.67	37.68
10	OPRS	1	0	38.72	38.73	38.74	38.75	38.76	38.77	38.78	38.79	38.80
10	OPRS	1	0	39.84	39.85	39.86	39.87	39.88	39.89	39.90	39.91	39.92
10	OPRS	1	0	40.96	40.97	40.98	40.99	41.00	41.01	41.02	41.03	41.04
10	OPRS	1	0	42.08	42.09	42.10	42.11	42.12	42.13	42.14	42.15	42.16
10	OPRS	1	0	43.20	43.21	43.22	43.23	43.24	43.25	43.26	43.27	43.28
10	OPRS	1	0	44.32	44.33	44.34	44.35	44.36	44.37	44.38	44.39	44.40
10	OPRS	1	0	45.44	45.45	45.46	45.47	45.48	45.49	45.50	45.51	45.52
10	OPRS	1	0	46.56	46.57	46.58	46.59	46.60	46.61	46.62	46.63	46.64
10	OPRS	1	0	47.68	47.69	47.70	47.71	47.72	47.73	47.74	47.75	47.76
10	OPRS	1	0	48.80	48.81	48.82	48.83	48.84	48.85	48.86	48.87	48.88
10	OPRS	1	0	49.92	49.93	49.94	49.95	49.96	49.97	49.98	49.99	50.00
10	OPRS	1	0	51.04	51.05	51.06	51.07	51.08	51.09	51.10	51.11	51.12
10	OPRS	1	0	52.16	52.17	52.18	52.19	52.20	52.21	52.22	52.23	52.24
10	OPRS	1	0	53.28	53.29	53.30	53.31	53.32	53.33	53.34	53.35	53.36
10	OPRS	1	0	54.40	54.41	54.42	54.43	54.44	54.45	54.46	54.47	54.48
10	OPRS	1	0	55.52	55.53	55.54	55.55	55.56	55.57	55.58	55.59	55.60
10	OPRS	1	0	56.64	56.65	56.66	56.67	56.68	56.69	56.70	56.71	56.72
10	OPRS	1	0	57.76	57.77	57.78	57.79	57.80	57.81	57.82	57.83	57.84
10	OPRS	1	0	58.88	58.89	58.90	58.91	58.92	58.93	58.94	58.95	58.96
10	OPRS	1	0	59.00	59.01	59.02	59.03	59.04	59.05	59.06	59.07	59.08
10	OPRS	1	0	60.12	60.13	60.14	60.15	60.16	60.17	60.18	60.19	60.20
10	OPRS	1	0	61.24	61.25	61.26	61.27	61.28	61.29	61.30	61.31	61.32
10	OPRS	1	0	62.36	62.37	62.38	62.39	62.40	62.41	62.42	62.43	62.44
10	OPRS	1	0	63.48	63.49	63.50	63.51	63.52	63.53	63.54	63.55	63.56
10	OPRS	1	0	64.60	64.61	64.62	64.63	64.64	64.65	64.66	64.67	64.68
10	OPRS	1	0	65.72	65.73	65.74	65.75	65.76	65.77	65.78	65.79	65.80
10	OPRS	1	0	66.84	66.85	66.86	66.87	66.88	66.89	66.90	66.91	66.92
10	OPRS	1	0	67.96	67.97	67.98	67.99	68.00	68.01	68.02	68.03	68.04
10	OPRS	1	0	69.08	69.09	69.10	69.11	69.12	69.13	69.14	69.15	69.16
10	OPRS	1	0	70.20	70.21	70.22	70.23	70.24	70.25	70.26	70.27	70.28
10	OPRS	1	0	71.32	71.33	71.34	71.35	71.36	71.37	71.38	71.39	71.40
10	OPRS	1	0	72.44	72.45	72.46	72.47	72.48	72.49	72.50	72.51	72.52
10	OPRS	1	0	73.56	73.57	73.58	73.59	73.60	73.61	73.62	73.63	73.64
10	OPRS	1	0	74.68	74.69	74.70	74.71	74.72	74.73	74.74	74.75	74.76
10	OPRS	1	0	75.80	75.81	75.82	75.83	75.84	75.85	75.86	75.87	75.88
10	OPRS	1	0	76.92	76.93	76.94	76.95	76.96	76.97	76.98	76.99	77.00
10	OPRS	1	0	78.04	78.05	78.06	78.07	78.08	78.09	78.10	78.11	78.12
10	OPRS	1	0	79.16	79.17	79.18	79.19	79.20	79.21	79.22	79.23	79.24
10	OPRS	1	0	80.28	80.29	80.30	80.31	80.32	80.33	80.34	80.35	80.36
10	OPRS	1	0	81.40	81.41	81.42	81.43	81.44	81.45	81.46	81.47	81.48
10	OPRS	1	0	82.52	82.53	82.54	82.55	82.56	82.57	82.58	82.59	82.60
10	OPRS	1	0	83.64	83.65	83.66	83.67	83.68	83.69	83.70	83.71	83.72
10	OPRS	1	0	84.76	84.77	84.78	84.79	84.80	84.81	84.82	84.83	84.84
10	OPRS	1	0	85.88	85.89	85.90	85.91	85.92	85.93	85.94	85.95	85.96
10	OPRS	1	0	87.00	87.01	87.02	87.03	87.04	87.05	87.06	87.07	87.08
10	OPRS	1	0	88.12	88.13	88.14	88.15	88.16	88.17	88.18	88.19	88.20
10	OPRS	1	0	89.24	89.25	89.26	89.27	89.28	89.29	89.30	89.31	89.32
10	OPRS	1	0	90.36	90.37	90.38	90.39	90.40	90.41	90.42	90.43	90.44
10	OPRS	1	0	91.48	91.49	91.50	91.51	91.52	91.53	91.54	91.55	91.56
10	OPRS	1	0	92.60	92.61	92.62	92.63	92.64	92.65	92.66	92.67	92.68
10	OPRS	1	0	93.72	93.73	93.74	93.75	93.76	93.77	93.78	93.79	93.80
10	OPRS	1	0	94.84	94.85	94.86	94.87	94.88	94.89	94.90	94.91	94.92
10	OPRS	1	0	95.96	95.97	95.98	95.99	96.00	96.01	96.02	96.03	96.04
10	OPRS	1	0	97.08	97.09	97.10	97.11	97.12	97.13	97.14	97.15	97.16
10	OPRS	1	0	98.20	98.21	98.22	98.23	98.24	98.25	98.26	98.27	98.28
10	OPRS	1	0	99.32	99.33	99.34	99.35	99.36	99.37	99.38	99.39	99.40
10	OPRS	1	0	100.44	100.45	100.46	100.47	100.48	100.49	100.50	100.51	100.52
10	OPRS	1	0	101.56	101.57	101.58	101.59	101.60	101.61	101.62	101.63	101.64
10	OPRS	1	0	102.68	102.69	102.70	102.71	102.72	102.73	102.74	102.75	102.76
10	OPRS	1	0	103.80	103.81	103.82	103.83	103.84	103.85	103.86	103.87	103.88
10	OPRS	1	0	104.92	104.93	104.94	104.95	104.96	104.97	104.98	104.99	105.00
10	OPRS	1	0	106.04	106.05	106.06	106.07	106.08	106.09	106.10	106.11	106.12
10	OPRS	1	0	107.16	107.17	107.18	107.19	107.20	107.21	107.22	107.23	107.24
10	OPRS	1	0	108.28	108.29	108.30	108.31	108.32	108.33	108.34	108.35	108.36
10	OPRS	1	0	109.40	109.41	109.42	109.43	109.44	109.45	109.46	109.47	109.48
10	OPRS	1	0	110.52	110.53	110.54	110.55	110.56	110.57	110.58	110.59	110.60
10	OPRS	1	0	111.64	111.65	111.66	111.67	111.68	111.69	111.70	111.71	111.72
10	OPRS	1	0	112.76	112.77	112.78	112.79	112.80	112.81	112.82	112.83	112.84
10	OPRS	1	0	113.88	113.89	113.90	113.91	113.92	113.93	113.94	113.95	113.96
10	OPRS	1	0	115.00	115.01	115.02	115.03	115.04	115.05	115.06	115.07	115.08
10	OPRS	1	0	116.12	116.13	116.14	116.15	116.16	116.17	116.18	116.19	116.20
10	OPRS	1	0	117.24	117.25	117.26	117.27	117.28	117.29	117.30	117.31	117.32
10	OPRS	1	0	118.36	118.37	118.38	118.39	118.40	118.41	118.42	118.43	118.44
10	OPRS	1	0	119.48	119.49	119.50	119.51	119.52	119.53	119.54	119.55	119.56
10	OPRS	1	0	120.60	120.61	120.62	120.63	120.64	120.65	120.66	120.67	120.68
10	OPRS	1	0	121.72	121.73	121.74	121.75	121.76	121.77	121.78	121.79	121.80
10	OPRS	1	0	122.84	122.85	122.86	122.87	122.88	122.89	122.90	122.91	122.92
10	OPRS	1	0	123.96	123.97	123.98	123.99	124.00	124.01	124.02	124.03	124.04
10	OPRS	1	0	125.08	125.09	125.10	125.11	125.12	125.13	125.14	125.15	125.16
10	OPRS	1	0	126.20	126.21	126.22	126.23	126.24	126.25	126.26	126.27	126.28
10	OPRS	1	0	127.32	127.33	127.34	127.35	127.36	127.37	127.38	127.39	127.40
10	OPRS	1	0	128.44	128.45	128.46	128.47	128.48	128.49	128.50	128.51	128.52
10	OPRS	1	0	129.56	129.57	129.58	129.59	129.60				

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Band 5 Ant 31												
SPW	Subband	RF Chan	RF Bw	RF Low	RF High	RF Center	RF Span	RF Span (MHz)	RF Span (MHz)	RF Span (MHz)	RF Span (MHz)	RF Span (MHz)
Frequency (MHz)												
1	SPW1	1	24	18.20	18.24	18.22	0.04	24	0			
1	SPW1	1	24	18.20	18.24	18.22	0.04	24	0			
1	SPW1	2	24	18.24	18.28	18.26	0.04	24	0			
1	SPW1	3	24	18.28	18.32	18.30	0.04	24	0			
1	SPW1	4	24	18.32	18.36	18.34	0.04	24	0			
1	SPW1	5	24	18.36	18.40	18.38	0.04	24	0			
1	SPW1	6	24	18.40	18.44	18.42	0.04	24	0			
1	SPW1	7	24	18.44	18.48	18.46	0.04	24	0			
1	SPW1	8	24	18.48	18.52	18.50	0.04	24	0			
1	SPW1	9	24	18.52	18.56	18.54	0.04	24	0			
1	SPW1	10	24	18.56	18.60	18.58	0.04	24	0			
1	SPW1	11	24	18.60	18.64	18.62	0.04	24	0			
1	SPW1	12	24	18.64	18.68	18.66	0.04	24	0			
1	SPW1	13	24	18.68	18.72	18.70	0.04	24	0			
1	SPW1	14	24	18.72	18.76	18.74	0.04	24	0			
1	SPW1	15	24	18.76	18.80	18.78	0.04	24	0			
1	SPW1	16	24	18.80	18.84	18.82	0.04	24	0			
1	SPW1	17	24	18.84	18.88	18.86	0.04	24	0			
1	SPW1	18	24	18.88	18.92	18.90	0.04	24	0			
1	SPW1	19	24	18.92	18.96	18.94	0.04	24	0			
1	SPW1	20	24	18.96	19.00	18.98	0.04	24	0			
1	SPW1	21	24	19.00	19.04	19.02	0.04	24	0			
1	SPW1	22	24	19.04	19.08	19.06	0.04	24	0			
1	SPW1	23	24	19.08	19.12	19.10	0.04	24	0			
1	SPW1	24	24	19.12	19.16	19.14	0.04	24	0			
1	SPW1	25	24	19.16	19.20	19.18	0.04	24	0			
1	SPW1	26	24	19.20	19.24	19.22	0.04	24	0			
1	SPW1	27	24	19.24	19.28	19.26	0.04	24	0			
1	SPW1	28	24	19.28	19.32	19.30	0.04	24	0			
1	SPW1	29	24	19.32	19.36	19.34	0.04	24	0			
1	SPW1	30	24	19.36	19.40	19.38	0.04	24	0			
1	SPW1	31	24	19.40	19.44	19.42	0.04	24	0			
1	SPW1	32	24	19.44	19.48	19.46	0.04	24	0			
1	SPW1	33	24	19.48	19.52	19.50	0.04	24	0			
1	SPW1	34	24	19.52	19.56	19.54	0.04	24	0			
1	SPW1	35	24	19.56	19.60	19.58	0.04	24	0			
1	SPW1	36	24	19.60	19.64	19.62	0.04	24	0			
1	SPW1	37	24	19.64	19.68	19.66	0.04	24	0			
1	SPW1	38	24	19.68	19.72	19.70	0.04	24	0			
1	SPW1	39	24	19.72	19.76	19.74	0.04	24	0			
1	SPW1	40	24	19.76	19.80	19.78	0.04	24	0			
1	SPW1	41	2	18.20	18.24	18.22	0.04	24	0			
1	SPW1	42	2	18.24	18.28	18.26	0.04	24	0			
1	SPW1	43	2	18.28	18.32	18.30	0.04	24	0			
1	SPW1	44	2	18.32	18.36	18.34	0.04	24	0			
1	SPW1	45	2	18.36	18.40	18.38	0.04	24	0			
1	SPW1	46	2	18.40	18.44	18.42	0.04	24	0			
1	SPW1	47	2	18.44	18.48	18.46	0.04	24	0			
1	SPW1	48	2	18.48	18.52	18.50	0.04	24	0			
1	SPW1	49	2	18.52	18.56	18.54	0.04	24	0			
1	SPW1	50	2	18.56	18.60	18.58	0.04	24	0			
1	SPW1	51	2	18.60	18.64	18.62	0.04	24	0			
1	SPW1	52	2	18.64	18.68	18.66	0.04	24	0			
1	SPW1	53	2	18.68	18.72	18.70	0.04	24	0			
1	SPW1	54	2	18.72	18.76	18.74	0.04	24	0			
1	SPW1	55	2	18.76	18.80	18.78	0.04	24	0			
1	SPW1	56	2	18.80	18.84	18.82	0.04	24	0			
1	SPW1	57	2	18.84	18.88	18.86	0.04	24	0			
1	SPW1	58	2	18.88	18.92	18.90	0.04	24	0			
1	SPW1	59	2	18.92	18.96	18.94	0.04	24	0			
1	SPW1	60	2	18.96	19.00	18.98	0.04	24	0			
1	SPW1	61	2	19.00	19.04	19.02	0.04	24	0			
1	SPW1	62	2	19.04	19.08	19.06	0.04	24	0			
1	SPW1	63	2	19.08	19.12	19.10	0.04	24	0			
1	SPW1	64	2	19.12	19.16	19.14	0.04	24	0			
1	SPW1	65	2	19.16	19.20	19.18	0.04	24	0			
1	SPW1	66	2	19.20	19.24	19.22	0.04	24	0			
1	SPW1	67	2	19.24	19.28	19.26	0.04	24	0			
1	SPW1	68	2	19.28	19.32	19.30	0.04	24	0			
1	SPW1	69	2	19.32	19.36	19.34	0.04	24	0			
1	SPW1	70	2	19.36	19.40	19.38	0.04	24	0			
1	SPW1	71	2	19.40	19.44	19.42	0.04	24	0			
1	SPW1	72	2	19.44	19.48	19.46	0.04	24	0			
1	SPW1	73	2	19.48	19.52	19.50	0.04	24	0			
1	SPW1	74	2	19.52	19.56	19.54	0.04	24	0			
1	SPW1	75	2	19.56	19.60	19.58	0.04	24	0			
1	SPW1	76	2	19.60	19.64	19.62	0.04	24	0			
1	SPW1	77	2	19.64	19.68	19.66	0.04	24	0			
1	SPW1	78	2	19.68	19.72	19.70	0.04	24	0			
1	SPW1	79	2	19.72	19.76	19.74	0.04	24	0			
1	SPW1	80	2	19.76	19.80	19.78	0.04	24	0			
1	SPW1	81	2	19.80	19.84	19.82	0.04	24	0			
1	SPW1	82	2	19.84	19.88	19.86	0.04	24	0			
1	SPW1	83	2	19.88	19.92	19.90	0.04	24	0			
1	SPW1	84	2	19.92	19.96	19.94	0.04	24	0			
1	SPW1	85	2	19.96	20.00	19.98	0.04	24	0			
1	SPW1	86	2	20.00	20.04	20.02	0.04	24	0			
1	SPW1	87	2	20.04	20.08	20.06	0.04	24	0			
1	SPW1	88	2	20.08	20.12	20.10	0.04	24	0			
1	SPW1	89	2	20.12	20.16	20.14	0.04	24	0			
1	SPW1	90	2	20.16	20.20	20.18	0.04	24	0			
1	SPW1	91	2	20.20	20.24	20.22	0.04	24	0			
1	SPW1	92	2	20.24	20.28	20.26	0.04	24	0			
1	SPW1	93	2	20.28	20.32	20.30	0.04	24	0			
1	SPW1	94	2	20.32	20.36	20.34	0.04	24	0			
1	SPW1	95	2	20.36	20.40	20.38	0.04	24	0			
1	SPW1	96	2	20.40	20.44	20.42	0.04	24	0			
1	SPW1	97	2	20.44	20.48	20.46	0.04	24	0			
1	SPW1	98	2	20.48	20.52	20.50	0.04	24	0			
1	SPW1	99	2	20.52	20.56	20.54	0.04	24	0			
1	SPW1	100	2	20.56	20.60	20.58	0.04	24	0			
1	SPW1	101	2	20.60	20.64	20.62	0.04	24	0			
1	SPW1	102	2	20.64	20.68	20.66	0.04	24	0			
1	SPW1	103	2	20.68	20.72	20.70	0.04	24	0			
1	SPW1	104	2	20.72	20.76	20.74	0.04	24	0			
1	SPW1	105	2	20.76	20.80	20.78	0.04	24	0			
1	SPW1	106	2	20.80	20.84	20.82	0.04	24	0			
1	SPW1	107	2	20.84	20.88	20.86	0.04	24	0			
1	SPW1	108	2	20.88	20.92	20.90	0.04	24	0			
1	SPW1	109	2	20.92	20.96	20.94	0.04	24	0			
1	SPW1	110	2	20.96	21.00	20.98	0.04	24	0			
1	SPW1	111	2	21.00	21.04	21.02	0.04	24	0			
1	SPW1	112	2	21.04	21.08	21.06	0.04	24	0			
1	SPW1	113	2	21.08	21.12	21.10	0.04	24	0			
1	SPW1	114	2	21.12	21.16	21.14	0.04	24	0			
1	SPW1	115	2	21.16	21.20	21.18	0.04	24	0			
1	SPW1	116	2	21.20	21.24	21.22	0.04	24	0			
1	SPW1	117	2	21.24	21.28	21.26	0.04	24	0			
1	SPW1	118	2	21.28	21.32	21.30	0.04	24	0			
1	SPW1	119	2	21.32	21.36	21.34	0.04	24	0			
1	SPW1	120	2	21.36	21.40	21.38	0.04	24	0			
1	SPW1	121	2	21.40	21.44	21.42	0.04	24	0			
1	SPW1	122	2	21.44	21.48	21.46	0.04	24	0			
1	SPW1	123	2	21.48	21.52	21.50	0.04	24	0			
1	SPW1	124	2	21.52	21.56	21.54	0.04	24	0			
1	SPW1	125	2	21.56	21.60	21.58	0.04	24	0			
1	SPW1	126	2	21.60	21.64	21.62	0.04	24	0			
1	SPW1	127	2	21.64	21.68	21.66	0.04	24	0			
1	SPW1	128										

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Band 7 Ant 11										
SRV	Channel	MSB	MSB	MSB	7	7	7	7	7	7
					2000	2100	2100	2100	2100	2100
Frequency (MHz)										
20	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
21	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
22	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
23	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
24	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
25	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
26	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
27	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
28	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
29	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
30	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
31	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
32	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
33	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
34	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
35	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
36	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
37	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
38	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
39	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
40	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
41	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
42	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
43	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
44	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
45	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
46	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
47	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
48	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
49	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
50	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
51	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
52	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
53	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
54	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
55	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
56	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
57	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
58	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
59	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
60	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
61	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
62	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
63	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
64	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
65	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
Channel										
1	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
2	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
3	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
4	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
5	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
6	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
7	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
8	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
9	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
10	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
11	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
12	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
13	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
14	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
15	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
16	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
17	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
18	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
19	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
20	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
21	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
22	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
23	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
24	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
25	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
26	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
27	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
28	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
29	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
30	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
31	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
32	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
33	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
34	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
35	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
36	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
37	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
38	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
39	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
40	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
41	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
42	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
43	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
44	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
45	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
46	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
47	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
48	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
49	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
50	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
51	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
52	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
53	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
54	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
55	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
56	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
57	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
58	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
59	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
60	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
61	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
62	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
63	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
64	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	
65	GPSC	1	0	0	16.90	16.90	16.90	20.5	0	

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Band 13 Ant 31									
Ant Type	Module	Power Class	Max Power [dBm]	Max Power [W]	Max Power [dBm]	Max Power [W]	Time-on- Air [h]	Ant Type	
General									
Frequency [MHz]									
10	HPH01	1	25	25.00	24.85	24.86	25	0	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	24	0	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	24	1	4.5
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	23	2	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	22	3	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	20.5	4.5	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85	20.5	4.5	
10	HPH01	1	25	24.86	24.85	24.86			
10	HPH01	1	25	24.85	24.86	24.85			
10	HPH01	1	25	24.86	24.85	24.86			
Frequency [MHz]									
5	HPH01	1	0	23.50	23.00	23.07	20	0	
5	HPH01	1	0	23.07	23.50	23.44			
5	HPH01	1	24	23.00	23.52	23.53			
5	HPH01	1	24	23.53	23.00	23.07			
5	HPH01	12	7	23.06	23.04	23.05	19	0	
5	HPH01	12	7	23.05	23.04	23.06			
5	HPH01	12	7	23.04	23.05	23.05			
5	HPH01	12	7	23.06	23.04	23.05			
5	HPH01	26	0	23.06	23.03	23.10	19	0	
5	HPH01	26	0	23.10	23.06	23.03			
5	HPH01	26	0	23.03	23.10	23.06			
5	HPH01	26	0	23.06	23.03	23.10			
5	HPH01	12	14	23.14	23.14	23.17	19	0	
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	12	14	23.14	23.14	23.17	19	0	
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	12	14	23.14	23.14	23.17			
5	HPH01	1	0	23.24	23.25	23.23	20.5	4.5	
5	HPH01	1	0	23.23	23.24	23.24			
5	HPH01	1	24	23.25	23.24	23.23			
5	HPH01	1	24	23.24	23.25	23.23			
5	HPH01	12	0	23.22	23.23	23.24	20.5		
5	HPH01	12	0	23.23	23.22	23.24			
5	HPH01	12	15	23.26	23.25	23.24			
5	HPH01	12	15	23.25	23.26	23.24			

[illegible]

Band 38_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.25	19.29	19.24			
20	QPSK	1	49	19.10	19.22	19.18	19.8	0	
20	QPSK	50	24	19.18	19.11	19.14			
20	QPSK	50	0	19.10	19.24	19.13			
20	QPSK	50	24	19.08	19.23	19.10	19.8	0	
20	QPSK	50	50	19.05	19.09	19.12	19.17		
20	QPSK	100	0	19.08	19.14	19.07			
20	16QAM	1	0	19.16	19.21	19.15			
20	16QAM	1	49	19.13	19.21	19.19	19.8	0	
20	16QAM	1	99	19.11	19.21	19.17			
20	16QAM	50	0	19.19	19.23	19.13			
20	16QAM	50	24	19.16	19.24	19.10	19.8	0	
20	16QAM	50	50	19.14	19.16	19.10			
20	16QAM	100	0	19.12	19.21	19.17			
20	64QAM	1	0	19.17	19.21	19.18			
20	64QAM	1	49	19.13	19.17	19.18	19.8	0	
20	64QAM	1	99	19.17	19.22	19.19			
20	64QAM	50	0	19.13	19.19	19.13			
20	64QAM	50	24	19.18	19.19	19.09	19.8	0	
20	64QAM	50	50	19.10	19.21	19.09			
20	64QAM	100	0	19.10	19.15	19.13			
Channel				37625	38065	38175			
Frequency (MHz)				2577.5	2596	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.20	19.22	19.15			
15	QPSK	1	49	19.07	19.20	19.18	19.8	0	
15	QPSK	1	74	19.86	19.05	19.09			
15	QPSK	36	0	19.10	19.18	19.13			
15	QPSK	36	20	19.88	19.08	19.88	19.8	0	
15	QPSK	36	39	19.01	18.89	19.12			
15	QPSK	75	0	19.01	19.04	19.10			
15	16QAM	1	0	19.07	19.08	19.07			
15	16QAM	1	37	19.05	19.08	19.06	19.8	0	
15	16QAM	1	74	19.88	19.07	19.04			
15	16QAM	36	0	19.08	19.12	19.86			
15	16QAM	36	20	19.10	19.12	18.85	19.8	0	
15	16QAM	36	39	19.06	19.08	19.00			
15	16QAM	75	0	19.00	19.08	19.08			
15	64QAM	1	0	19.11	19.11	19.08			
15	64QAM	1	37	19.03	19.10	19.05	19.8	0	
15	64QAM	1	74	19.04	19.14	19.12			
15	64QAM	36	0	19.13	19.13	19.08	19.8	0	
15	64QAM	36	20	19.13	19.13	18.86			
15	64QAM	36	39	19.02	19.08	19.04	19.8	0	
15	64QAM	75	0	19.03	19.01	19.88			
15	25QAM	1	0	19.00	19.18	19.04			
15	25QAM	1	37	19.13	19.06	19.00	19.8	0	
15	25QAM	1	74	19.13	19.13	19.08			
15	25QAM	36	0	19.10	19.24	19.04			
15	25QAM	36	20	19.02	19.12	19.09			
15	25QAM	36	39	19.07	19.12	19.18			
15	25QAM	75	0	19.00	19.14	19.02			
Channel				37600	38050	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
10	QPSK	1	0	19.12	19.21	19.11			
10	QPSK	1	25	19.88	19.09	19.11	19.8	0	
10	QPSK	1	49	19.88	19.09	19.04			
10	QPSK	25	0	19.12	19.14	19.04			
10	QPSK	25	12	19.84	19.18	19.05	19.8	0	
10	QPSK	25	25	19.13	19.13	19.08			
10	QPSK	50	0	19.86	19.06	19.00			
10	16QAM	1	0	19.04	19.08	19.03			
10	16QAM	1	25	19.08	19.11	19.13	19.8	0	
10	16QAM	1	49	19.11	19.14	19.03			
10	16QAM	25	0	19.11	19.08	19.02			
10	16QAM	25	12	19.13	19.08	19.04	19.8	0	
10	16QAM	25	25	19.01	19.02	19.04			
10	16QAM	50	0	19.00	19.12	19.04			
10	64QAM	1	0	19.11	19.14	19.07			
10	64QAM	1	25	19.01	19.03	19.08	19.8	0	
10	64QAM	1	49	19.11	19.16	19.16			
10	64QAM	25	0	19.08	19.14	19.01	19.8	0	
10	64QAM	25	12	19.08	19.04	19.01			
10	64QAM	25	25	19.05	19.08	18.97			
10	64QAM	50	0	19.01	19.04	19.07			
10	25QAM	1	0	19.08	19.16	19.10			
10	25QAM	1	25	19.08	19.06	19.12	19.8	0	
10	25QAM	1	49	19.07	19.04	19.10			
10	25QAM	25	0	19.05	19.22	19.04			
10	25QAM	25	12	19.06	19.07	19.00	19.8	0	
10	25QAM	25	25	19.08	19.04	19.08			
10	25QAM	50	0	19.09	19.19	19.06			
Channel				37775	38030	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2627.5	2695	2617.5			
5	QPSK	1	0	19.12	19.19	19.13			
5	QPSK	1	12	19.89	19.16	19.10	19.8	0	
5	QPSK	1	24	19.05	19.06	19.06			
5	QPSK	12	0	19.13	19.16	19.10			
5	QPSK	12	12	19.13	19.16	19.10	19.8	0	
5	QPSK	12	13	19.03	18.87	19.10			
5	QPSK	25	0	19.84	19.04	19.01			
5	16QAM	1	0	19.05	19.16	19.10			
5	16QAM	1	12	19.08	19.08	19.13			
5	16QAM	12	0	19.03	19.16	19.05	19.8	0	
5	16QAM	12	0	19.08	19.13	19.07			
5	16QAM	12	7	19.08	19.10	19.05			
5	16QAM	12	13	19.07	19.06	19.04	19.8	0	
5	16QAM	25	0	19.89	19.14	19.06			
5	64QAM	1	0	19.08	19.10	19.13			
5	64QAM	1	12	19.02	19.03	19.07	19.8	0	
5	64QAM	1	24	19.08	19.17	19.07			
5	64QAM	12	0	19.00	19.14	19.08			
5	64QAM	12	7	19.07	19.08	19.04			
5	64QAM	12	13	19.05	19.06	19.04	19.8	0	
5	64QAM	25	0	19.00	19.10	19.06			
5	25QAM	1	0	19.88	19.02	19.07			
5	25QAM	1	12	19.13	19.11	19.04	19.8	0	
5	25QAM	1	24	19.09	19.14	19.07			
5	25QAM	12	0	19.07	19.15	19.13			
5	25QAM	12	7	19.03	19.01	19.05			
5	25QAM	12	13	19.13	19.13	19.04	19.8	0	
5	25QAM	25	0	19.08	19.11	19.13			

Band 38_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)	MFR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	0	24.76	24.78	24.75			
20	QPSK	1	49	24.70	24.68	24.71	25	0	
20	QPSK	1	99	24.76	24.76	24.76	25	0	
20	QPSK	50	0	23.78	23.80	23.77			
20	QPSK	50	24	23.68	23.77	23.72			
20	QPSK	50	50	23.68	23.71	23.66	24	1	
20	QPSK	100	0	23.76	23.78	23.75			
20	16QAM	1	0	23.72	23.80	23.75			
20	16QAM	1	49	23.65	23.65	23.74	23	1	
20	16QAM	1	99	23.63	23.75	23.67			
20	16QAM	50	0	22.71	22.84	22.69			
20	16QAM	50	24	22.66	22.75	22.63			
20	16QAM	50	50	22.66	22.73	22.61	23	2	
20	16QAM	100	0	22.78	22.80	22.78			
20	64QAM	0	0	22.80	22.85	22.86			
20	64QAM	1	49	22.84	22.90	22.84	23	2	
20	64QAM	1	99	22.85	22.91	22.79			
20	64QAM	50	0	22.27	22.36	22.22			
20	64QAM	50	24	22.22	22.30	22.20			
20	64QAM	50	50	22.16	22.31	22.13	22.5	2.5	
20	64QAM	100	0	22.32	22.33	22.31			
20	256QAM	1	0	20.65	20.67	20.58			
20	256QAM	1	49	20.63	20.65	20.58	21	4	
20	256QAM	1	99	20.53	20.68	20.55			
20	256QAM	1	49	20.54	20.67	20.54			
20	256QAM	50	24	20.57	20.65	20.51			
20	256QAM	50	50	20.46	20.60	20.52	21	4	
20	256QAM	100	0	20.65	20.68	20.54			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	25965	2612.5			
15	QPSK	1	0	24.70	24.76	24.67			
15	QPSK	1	0	24.76	24.76	24.76	25	0	
15	QPSK	1	74	24.61	24.73	24.50			
15	QPSK	36	0	23.66	23.71	23.74			
15	QPSK	36	20	23.57	23.64	23.59	24	1	
15	QPSK	36	39	23.56	23.63	23.65			
15	QPSK	75	0	23.74	23.75	23.75			
15	16QAM	0	0	23.57	23.75	23.67			
15	16QAM	1	37	23.60	23.70	23.58	24	1	
15	16QAM	1	74	23.61	23.74	23.64			
15	16QAM	36	0	22.59	22.76	22.54			
15	16QAM	36	20	22.65	22.70	22.62	23	2	
15	16QAM	36	39	22.52	22.65	22.53			
15	16QAM	75	0	22.56	22.70	22.53			
15	64QAM	1	0	22.76	22.88	22.76			
15	64QAM	1	37	22.82	22.75	22.80	23	2	
15	64QAM	1	74	22.76	22.90	22.66			
15	64QAM	36	0	22.52	22.65	22.53	23	2	
15	64QAM	36	20	22.51	22.20	22.06			
15	64QAM	36	39	22.03	22.23	22.20	22.5	2.5	
15	64QAM	75	0	22.27	22.21	22.28			
15	256QAM	1	0	20.59	20.68	20.53			
15	256QAM	1	37	20.54	20.67	20.46			
15	256QAM	1	74	20.52	20.65	20.49	21	4	
15	256QAM	36	0	20.62	20.67	20.54			
15	256QAM	36	20	20.52	20.55	20.41			
15	256QAM	36	39	20.36	20.47	20.41	21	4	
15	256QAM	75	0	20.55	20.59	20.50			
Channel				37800	38080	38260			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.75	24.84	24.80			
10	QPSK	1	25	24.61	24.61	24.68	25	0	
10	QPSK	1	49	24.64	24.63	24.48			
10	QPSK	25	0	23.67	23.67	23.68			
10	QPSK	25	12	23.65	23.67	23.63			
10	QPSK	25	25	23.67	23.67	23.63	24	1	
10	QPSK	50	0	23.64	23.73	23.62			
10	16QAM	1	0	23.69	23.68	23.68			
10	16QAM	1	25	23.52	23.73	23.56	24	1	
10	16QAM	1	49	23.56	23.61	23.55			
10	16QAM	25	0	22.63	22.76	22.63			
10	16QAM	25	12	22.54	22.64	22.73	23	2	
10	16QAM	25	25	22.48	22.68	22.51			
10	16QAM	50	0	22.65	22.68	22.61			
10	64QAM	1	0	22.68	22.91	22.74			
10	64QAM	1	25	22.77	22.77	22.68	23	2	
10	64QAM	1	49	22.66	22.86	22.78			
10	64QAM	25	0	22.20	22.33	22.12			
10	64QAM	25	12	22.13	22.22	22.14	22.5	2.5	
10	64QAM	25	25	22.14	22.25	22.24			
10	64QAM	50	0	22.21	22.25	22.19			
10	256QAM	1	0	20.41	20.68	20.54			
10	256QAM	1	25	20.39	20.58	20.54	21	4	
10	256QAM	1	49	20.46	20.67	20.49			
10	256QAM	25	0	20.58	20.69	20.60			
10	256QAM	25	12	20.45	20.58	20.45	21	4	
10	256QAM	25	25	20.38	20.45	20.46			
10	256QAM	50	0	20.56	20.60	20.54			
Channel				37775	38050	38225			
Frequency (MHz)				2627.5	2645	2617.5			
5	QPSK	1	0	24.72	24.75	24.70			
5	QPSK	1	12	24.59	24.63	24.57	25	0	
5	QPSK	1	24	24.73	24.68	24.59			
5	QPSK	12	0	23.70	23.67	23.62			
5	QPSK	12	13	23.65	23.64	23.59	24	1	
5	QPSK	25	0	23.71	23.63	23.66			
5	16QAM	1	0	23.70	23.76	23.70			
5	16QAM	1	12	23.53	23.75	23.62	24	1	
5	16QAM	1	24	23.58	23.68	23.71			
5	16QAM	12	0	22.68	22.69	22.59			
5	16QAM	12	7	22.61	22.74	22.70			
5	16QAM	12	13	22.59	22.62	22.53	23	2	
5	16QAM	25	0	22.61	22.79	22.53			
5	64QAM	1	0	22.71	22.92	22.85			
5	64QAM	1	12	22.81	22.89	22.86	23	2	
5	64QAM	1	24	22.81	22.79	22.69			
5	64QAM	12	0	22.17	22.26	22.18			
5	64QAM	12	7	22.13	22.27	22.10			
5	64QAM	12	13	22.01	22.21	22.14	22.5	2.5	
5	64QAM	25	0	22.21	22.36	22.23			
5	256QAM	1	0	20.53	20.65	20.52			
5	256QAM	1	12	20.50	20.63	20.48	21	4	
5	256QAM	1	24	20.43	20.53	20.41			
5	256QAM	12	0	20.49	20.55	20.58			
5	256QAM	12	7	20.56	20.59	20.44	21	4	
5	256QAM	12	13	20.47	20.56	20.49			
5	256QAM	25	0	20.53	20.54	20.49			

Band 38_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel				37650	38000	38175			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.59	21.50	21.58			
20	QPSK	1	49	21.44	21.49	21.47	22	0	
20	QPSK	50	0	21.49	21.51	21.48			
20	QPSK	50	0	21.40	21.58	21.43			
20	QPSK	50	24	21.40	21.51	21.35			
20	QPSK	50	50	21.40	21.53	21.31	22	0	
20	QPSK	100	0	21.42	21.52	21.34			
20	16QAM	1	0	21.67	21.49	21.53			
20	16QAM	1	49	21.49	21.51	21.48	22	0	
20	16QAM	1	99	21.48	21.52	21.50			
20	16QAM	50	0	21.51	21.53	21.47			
20	16QAM	50	24	21.44	21.52	21.49			
20	16QAM	50	50	21.54	21.59	21.47	22	0	
20	16QAM	100	0	21.52	21.57	21.45			
20	64QAM	1	0	21.49	21.56	21.49			
20	64QAM	1	49	21.45	21.51	21.45	22	0	
20	64QAM	1	99	21.49	21.51	21.50			
20	64QAM	50	0	21.51	21.54	21.45			
20	64QAM	50	24	21.54	21.53	21.49			
20	64QAM	50	50	21.50	21.52	21.47	22	0	
20	64QAM	100	0	21.52	21.57	21.44			
20	256QAM	1	0	20.34	20.43	20.37			
20	256QAM	1	49	20.35	20.40	20.28	21	1	
20	256QAM	1	99	20.27	20.38	20.25			
20	256QAM	1	24	20.34	20.38	20.34			
20	256QAM	50	24	20.24	20.31	20.24			
20	256QAM	50	50	20.22	20.30	20.24	21	1	
20	256QAM	100	0	20.21	20.33	20.26			
Channel				37625	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Time-up limit	MFR	
15	QPSK	1	0	21.50	21.51	21.43			
15	QPSK	1	49	21.34	21.41	21.45	22	0	
15	QPSK	1	74	21.42	21.51	21.48			
15	QPSK	36	0	21.36	21.44	21.36			
15	QPSK	36	20	21.26	21.43	21.22	22	0	
15	QPSK	36	39	21.27	21.47	21.16			
15	QPSK	75	0	21.32	21.41	21.32			
15	16QAM	1	1	21.37	21.36	21.43			
15	16QAM	1	37	21.44	21.42	21.42	22	0	
15	16QAM	1	74	21.39	21.47	21.43			
15	16QAM	36	0	21.40	21.48	21.41			
15	16QAM	36	20	21.30	21.42	21.43	22	0	
15	16QAM	36	39	21.41	21.47	21.41			
15	16QAM	75	0	21.46	21.45	21.32			
15	64QAM	1	0	21.42	21.44	21.35			
15	64QAM	1	37	21.33	21.45	21.37			
15	64QAM	1	74	21.37	21.43	21.38			
15	64QAM	36	0	21.43	21.39	21.45			
15	64QAM	36	20	21.40	21.45	21.34	22	0	
15	64QAM	36	39	21.38	21.46	21.34			
15	64QAM	75	0	21.44	21.49	21.37			
15	256QAM	1	0	20.24	20.34	20.23			
15	256QAM	1	37	20.30	20.32	20.27	21	1	
15	256QAM	1	74	20.23	20.30	20.15			
15	256QAM	36	0	20.26	20.34	20.21			
15	256QAM	36	20	20.22	20.25	20.13			
15	256QAM	36	39	20.08	20.23	20.20	21	1	
15	256QAM	75	0	20.20	20.30	20.19			
Channel				37600	38000	38175			
Frequency (MHz)				2575	2595	2615	Time-up limit	MFR	
10	QPSK	1	0	21.44	21.59	21.44			
10	QPSK	1	25	21.38	21.35	21.33	22	0	
10	QPSK	1	49	21.41	21.49	21.37			
10	QPSK	25	0	21.41	21.49	21.38			
10	QPSK	25	12	21.33	21.43	21.24	22	0	
10	QPSK	50	0	21.34	21.41	21.30			
10	QPSK	50	0	21.36	21.45	21.23			
10	16QAM	1	0	21.35	21.35	21.48			
10	16QAM	1	25	21.36	21.45	21.42	22	0	
10	16QAM	1	49	21.35	21.44	21.40			
10	16QAM	25	0	21.45	21.39	21.40			
10	16QAM	25	12	21.34	21.38	21.35	22	0	
10	16QAM	25	25	21.49	21.45	21.41			
10	16QAM	50	0	21.42	21.48	21.33			
10	64QAM	1	0	21.40	21.41	21.44			
10	64QAM	1	25	21.34	21.42	21.33	22	0	
10	64QAM	1	49	21.36	21.49	21.44			
10	64QAM	25	0	21.36	21.40	21.39			
10	64QAM	25	12	21.39	21.40	21.41	22	0	
10	64QAM	25	25	21.43	21.43	21.32			
10	64QAM	50	0	21.40	21.50	21.30			
10	256QAM	1	0	20.27	20.41	20.25			
10	256QAM	1	25	20.30	20.36	20.25	21	1	
10	256QAM	1	49	20.25	20.34	20.21			
10	256QAM	25	0	20.22	20.35	20.19			
10	256QAM	25	12	20.10	20.25	20.09	21	1	
10	256QAM	25	25	20.14	20.20	20.10			
10	256QAM	50	0	20.10	20.30	20.21			
Channel				37775	38000	38225			
Frequency (MHz)				2627.5	2595	2617.5	Time-up limit	MFR	
5	QPSK	1	0	21.50	21.58	21.45			
5	QPSK	1	12	21.35	21.44	21.41	22	0	
5	QPSK	1	24	21.38	21.46	21.36			
5	QPSK	12	0	21.44	21.43	21.30			
5	QPSK	12	12	21.34	21.42	21.27	22	0	
5	QPSK	12	13	21.32	21.44	21.41			
5	QPSK	25	0	21.33	21.41	21.21			
5	16QAM	1	0	21.34	21.37	21.45			
5	16QAM	1	12	21.39	21.40	21.45	22	0	
5	16QAM	1	24	21.37	21.39	21.44			
5	16QAM	12	0	21.38	21.41	21.35			
5	16QAM	12	7	21.30	21.44	21.41			
5	16QAM	12	13	21.40	21.45	21.34	22	0	
5	16QAM	25	0	21.46	21.48	21.36			
5	64QAM	1	0	21.36	21.45	21.38			
5	64QAM	1	12	21.33	21.42	21.36	22	0	
5	64QAM	1	24	21.38	21.45	21.39			
5	64QAM	12	0	21.45	21.41	21.31			
5	64QAM	12	7	21.39	21.43	21.39	22	0	
5	64QAM	12	13	21.37	21.48	21.41			
5	64QAM	25	0	21.44	21.46	21.34			
5	256QAM	1	0	20.20	20.37	20.32			
5	256QAM	1	12	20.35	20.40	20.21	21	1	
5	256QAM	1	24	20.18	20.38	20.25			
5	256QAM	12	0	20.27	20.34	20.26			
5	256QAM	12	7	20.11	20.19	20.23	21	1	
5	256QAM	12	13	20.14	20.20	20.17			
5	256QAM	25	0	20.15	20.22	20.17			

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Middle Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.06	2549.5	2590	2636.5	2680		
20	QPSK	1	49	18.99	19.26	19.29	19.30	19.25	20	0
20	QPSK	1	99	18.96	19.33	19.36	19.29	19.31		
20	QPSK	50	0	19.00	19.32	19.33	19.22	19.24		
20	QPSK	50	24	18.93	19.24	19.18	19.14	19.13	20	0
20	QPSK	50	50	18.98	19.24	19.21	19.19	19.14		
20	QPSK	100	0	19.00	19.14	19.21	19.11	19.16		
20	16QAM	1	0	18.98	19.29	19.30	19.22	19.35		
20	16QAM	1	49	19.00	19.30	19.30	19.26	19.30	20	0
20	16QAM	1	99	19.01	19.23	19.28	19.31	19.34		
20	16QAM	50	0	19.03	19.33	19.33	19.33	19.36		
20	16QAM	50	24	19.01	19.23	19.36	19.28	19.28	20	0
20	16QAM	50	50	19.02	19.31	19.34	19.25	19.33		
20	16QAM	100	0	18.99	19.27	19.28	19.36	19.40		
20	64QAM	1	0	19.06	19.32	19.37	19.33	19.25		
20	64QAM	1	49	19.06	19.25	19.32	19.30	19.40		
20	64QAM	1	99	19.00	19.29	19.28	19.25	19.29		
20	64QAM	50	0	19.02	19.26	19.37	19.25	19.33		
20	64QAM	50	24	19.00	19.25	19.37	19.28	19.29		
20	64QAM	50	50	19.00	19.32	19.35	19.22	19.37	20	0
20	64QAM	100	0	19.01	19.30	19.33	19.33	19.37		
20	256QAM	1	0	19.03	19.27	19.33	19.37	19.26		
20	256QAM	1	49	19.03	19.27	19.35	19.34	19.33	20	0
20	256QAM	1	99	19.01	19.24	19.28	19.23	19.25		
20	256QAM	50	0	18.99	19.32	19.36	19.24	19.31		
20	256QAM	50	24	18.96	19.33	19.29	19.36	19.40	20	0
20	256QAM	50	50	18.99	19.32	19.28	19.33	19.34		
20	256QAM	100	0	19.00	19.31	19.33	19.24	19.36		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.99	19.30	19.35	19.23	19.35	20	0
15	QPSK	1	37	18.85	19.16	19.20	19.24	19.29	20	0
15	QPSK	1	74	18.88	19.22	19.30	19.16	19.23		
15	QPSK	36	0	18.95	19.21	19.19	19.21	19.24		
15	QPSK	36	20	18.83	19.11	19.06	19.03	18.98		
15	QPSK	36	39	18.91	19.10	19.12	19.12	19.02		
15	QPSK	75	0	18.86	19.03	19.07	19.08	19.13		
15	16QAM	1	0	18.93	19.20	19.15	19.07	19.34		
15	16QAM	1	37	18.86	19.18	19.18	19.24	19.18		
15	16QAM	1	74	18.89	19.16	19.27	19.17	19.30		
15	16QAM	36	0	18.90	19.18	19.16	19.23	19.34		
15	16QAM	36	20	18.95	19.12	19.29	19.23	19.22	20	0
15	16QAM	36	39	18.89	19.16	19.20	19.10	19.26		
15	16QAM	75	0	18.86	19.13	19.23	19.26	19.33		
15	64QAM	1	0	18.99	19.18	19.32	19.27	19.18		
15	64QAM	1	37	18.91	19.17	19.21	19.21	19.17	20	0
15	64QAM	1	74	18.94	19.19	19.23	19.10	19.28		
15	64QAM	36	0	18.88	19.18	19.26	19.23	19.30		
15	64QAM	36	20	18.92	19.10	19.32	19.24	19.22	20	0
15	64QAM	36	39	18.86	19.18	19.22	19.08	19.36		
15	64QAM	75	0	18.90	19.19	19.24	19.26	19.29		
15	256QAM	1	0	18.88	19.24	19.24	19.34	19.15		
15	256QAM	1	37	19.02	19.18	19.34	19.25	19.25	20	0
15	256QAM	1	74	18.93	19.19	19.17	19.19	19.17		
15	256QAM	36	0	18.99	19.24	19.29	19.19	19.12		
15	256QAM	36	20	18.89	19.28	19.16	19.25	19.39		
15	256QAM	36	39	18.97	19.07	19.15	19.27	19.28	20	0
15	256QAM	75	0	18.93	19.20	19.33	19.09	19.24		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.02	19.27	19.32	19.24	19.29	20	0
10	QPSK	1	25	18.86	19.21	19.14	19.16	19.11		
10	QPSK	1	49	18.82	19.22	19.31	19.17	19.31		
10	QPSK	25	0	19.01	19.21	19.26	19.17	19.16		
10	QPSK	25	12	18.81	19.15	19.04	19.06	18.99		
10	QPSK	25	25	18.88	19.17	19.09	19.17	19.01	20	0
10	QPSK	50	0	18.90	18.99	19.13	19.08	19.02		
10	16QAM	1	0	18.85	19.17	19.21	19.14	19.35		
10	16QAM	1	25	18.95	19.22	19.22	19.17	19.19	20	0
10	16QAM	1	49	18.94	19.09	19.23	19.29	19.23		
10	16QAM	25	0	18.92	19.23	19.18	19.23	19.27		
10	16QAM	25	12	18.92	19.14	19.26	19.26	19.13	20	0
10	16QAM	25	25	18.88	19.21	19.23	19.15	19.30		
10	16QAM	50	0	18.94	19.14	19.22	19.36	19.34		
10	64QAM	1	0	18.90	19.26	19.32	19.23	19.17		
10	64QAM	1	25	18.91	19.12	19.20	19.23	19.28	20	0
10	64QAM	1	49	18.90	19.18	19.13	19.23	19.26		
10	64QAM	25	0	18.86	19.18	19.22	19.24	19.32		
10	64QAM	25	12	18.90	19.15	19.23	19.24	19.20		
10	64QAM	25	25	18.85	19.21	19.27	19.21	19.25		
10	64QAM	50	0	18.89	19.22	19.19	19.25	19.30		
10	256QAM	1	0	19.00	19.17	19.23	19.37	19.16		
10	256QAM	1	25	19.03	19.19	19.25	19.31	19.25	20	0
10	256QAM	1	49	18.90	19.21	19.21	19.20	19.11		
10	256QAM	25	0	18.85	19.19	19.21	19.16	19.27		
10	256QAM	25	12	18.91	19.10	19.24	19.22	19.32	20	0
10	256QAM	25	25	18.98	19.23	19.20	19.23	19.31		
10	256QAM	50	0	18.90	19.22	19.30	19.13	19.32		
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.04	19.28	19.37	19.33	19.34	20	0
5	QPSK	1	12	18.89	19.20	19.16	19.15	19.25		
5	QPSK	1	24	18.91	19.22	19.28	19.26	19.19		
5	QPSK	12	0	18.96	19.17	19.22	19.17	19.15		
5	QPSK	12	7	18.83	19.09	19.10	19.07	19.11	20	0
5	QPSK	12	13	18.89	19.14	19.07	19.11	19.09		
5	QPSK	25	0	18.88	19.08	19.09	19.06	19.03		
5	16QAM	1	0	18.89	19.20	19.22	19.21	19.20		
5	16QAM	1	12	18.90	19.10	19.15	19.20	19.27	20	0
5	16QAM	1	24	18.92	19.10	19.15	19.21	19.19		
5	16QAM	12	0	18.93	19.19	19.24	19.19	19.24		
5	16QAM	12	7	18.88	19.11	19.23	19.11	19.17		
5	16QAM	12	13	18.96	19.22	19.28	19.22	19.31		
5	16QAM	25	0	18.92	19.22	19.19	19.28	19.25		
5	64QAM	1	0	18.99	19.20	19.23	19.24	19.23	20	0
5	64QAM	1	12	18.93	19.10	19.23	19.27	19.26		
5	64QAM	1	24	18.87	19.23	19.18	19.17	19.17		
5	64QAM	12	0	18.90	19.12	19.22	19.23	19.24		
5	64QAM	12	7	18.91	19.12	19.24	19.25	19.19		
5	64QAM	12	13	18.85	19.17	19.28	19.21	19.30	20	0
5	64QAM	25	0	18.91	19.25	19.18	19.33	19.32		
5	256QAM	1	0	18.88	19.22	19.18	19.33	19.26		
5	256QAM	1	12	18.90	19.19	19.24	19.28	19.24	20	0
5	256QAM	1	24	18.93	19.19	19.20	19.15	19.25		
5	256QAM	12	0	18.88	19.30	19.24	19.29	19.26		
5	256QAM	12	7	18.93	19.28	19.26	19.21	19.28		
5	256QAM	12	13	18.96	19.26	19.22	19.21	19.34		
5	256QAM	25	0	18.85	19.21	19.21	19.19	19.35		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Low Middle Ch./ Freq.	Power High Middle Ch./ Freq.	Power High Ch./ Freq.	Power High Ch./ Freq.	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.40	24.40	24.80	24.52	24.58	25	0
20	QPSK	1	49	24.39	24.50	24.67	24.48	24.56		
20	QPSK	1	99	24.36	24.54	24.78	24.49	24.54		
20	QPSK	50	0	23.41	23.62	23.80	23.52	23.60		
20	QPSK	50	50	23.36	23.49	23.78	23.45	23.48	24	1
20	QPSK	100	0	23.40	23.60	23.80	23.51	23.56		
20	16QAM	1	0	23.34	23.51	23.81	23.49	23.51		
20	16QAM	1	49	23.29	23.48	23.77	23.38	23.48		
20	16QAM	1	99	23.28	23.50	23.77	23.40	23.50	24	1
20	16QAM	50	0	22.32	22.61	22.82	22.41	22.50		
20	16QAM	50	24	22.28	22.40	22.72	22.33	22.42		
20	16QAM	50	50	22.26	22.44	22.76	22.38	22.46		
20	16QAM	100	0	22.33	22.54	22.80	22.45	22.57	23	2
20	16QAM	100	0	22.32	22.51	22.82	22.43	22.52		
20	16QAM	1	49	22.47	22.54	22.88	22.53	22.63		
20	16QAM	1	99	22.33	22.61	22.85	22.44	22.62		
20	64QAM	50	0	21.82	22.02	22.36	21.95	22.05	22.5	2.5
20	64QAM	50	24	21.76	21.99	22.28	21.84	21.98		
20	64QAM	100	0	21.82	22.01	22.35	21.93	22.08		
20	64QAM	100	0	21.92	22.03	22.33	21.96	22.05		
20	256QAM	1	0	20.18	20.43	20.71	20.39	20.43	21	4
20	256QAM	1	49	20.08	20.39	20.62	20.27	20.31		
20	256QAM	1	99	20.23	20.36	20.68	20.26	20.41		
20	256QAM	50	0	20.14	20.44	20.68	20.30	20.38		
20	256QAM	50	50	20.17	20.40	20.38	20.30	20.29	21	4
20	256QAM	50	24	20.08	20.35	20.63	20.21	20.29		
20	256QAM	100	0	20.14	20.36	20.65	20.22	20.43		
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.32	24.41	24.84	24.39	24.53	25	0
15	QPSK	1	37	24.30	24.48	24.76	23.98	24.48		
15	QPSK	1	74	24.22	24.51	24.69	24.37	24.52		
15	QPSK	36	0	23.40	23.59	23.78	23.38	23.57		
15	QPSK	36	20	23.26	23.39	23.76	23.34	23.37	24	1
15	QPSK	36	39	23.20	23.49	23.75	23.30	23.33		
15	QPSK	75	0	23.33	23.50	23.78	23.45	23.46		
15	16QAM	1	0	23.27	23.46	23.75	23.33	23.47		
15	16QAM	1	37	23.16	23.38	23.63	23.34	23.35	24	1
15	16QAM	1	74	23.19	23.44	23.68	23.34	23.45		
15	16QAM	36	0	22.26	22.49	22.74	22.28	22.38		
15	16QAM	36	20	22.23	22.28	22.70	22.32	22.33		
15	16QAM	36	39	22.20	22.32	22.68	22.24	22.40	23	2
15	16QAM	36	75	22.28	22.51	22.63	22.43	22.43		
15	16QAM	1	0	22.40	22.55	22.82	22.40	22.52		
15	64QAM	1	37	22.38	22.39	22.81	22.42	22.54		
15	64QAM	1	74	22.20	22.53	22.82	22.43	22.51	23	2
15	64QAM	36	0	21.77	21.98	22.31	21.83	22.03		
15	64QAM	36	20	21.68	21.88	22.28	21.82	21.93		
15	64QAM	36	39	21.68	21.98	22.28	21.82	21.93		
15	64QAM	75	0	21.80	21.93	22.21	21.84	22.01	22.5	2.5
15	256QAM	1	0	20.10	20.31	20.68	20.38	20.33		
15	256QAM	1	37	20.06	20.37	20.53	20.18	20.29		
15	256QAM	1	74	20.18	20.30	20.59	20.16	20.35		
15	256QAM	36	0	20.09	20.35	20.59	20.24	20.25	21	4
15	256QAM	36	20	20.03	20.37	20.60	20.16	20.23		
15	256QAM	36	39	20.07	20.30	20.48	20.16	20.18		
15	256QAM	75	0	20.05	20.23	20.58	20.11	20.20		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.27	24.51	24.88	24.54	24.65	25	0
10	QPSK	1	25	24.34	24.44	24.61	24.45	24.51		
10	QPSK	1	49	24.24	24.51	24.72	24.43	24.39		
10	QPSK	25	0	23.33	23.56	23.68	23.44	23.54		
10	QPSK	25	12	23.29	23.35	23.76	23.35	23.38	24	1
10	QPSK	25	25	23.24	23.45	23.75	23.27	23.41		
10	QPSK	50	0	23.30	23.50	23.75	23.41	23.44		
10	16QAM	1	0	23.28	23.44	23.77	23.39	23.38		
10	16QAM	1	25	23.17	23.33	23.66	23.34	23.37	24	1
10	16QAM	1	49	23.30	23.46	23.62	23.29	23.40		
10	16QAM	25	0	22.28	22.48	22.69	22.40	22.45		
10	16QAM	25	12	22.30	22.35	22.76	22.33	22.37		
10	16QAM	25	25	22.15	22.29	22.71	22.27	22.44	23	2
10	16QAM	50	0	22.23	22.50	22.72	22.34	22.47		
10	64QAM	1	0	22.49	22.53	22.78	22.45	22.58		
10	64QAM	1	25	22.36	22.48	22.82	22.50	22.58		
10	64QAM	1	49	22.26	22.55	22.84	22.40	22.55	23	2
10	64QAM	25	0	22.40	22.50	22.74	22.34	22.46		
10	64QAM	25	12	21.61	21.91	22.16	21.79	21.93		
10	64QAM	25	25	21.77	21.98	22.29	21.81	21.84		
10	64QAM	50	0	21.84	21.96	22.18	21.93	21.98	22.5	2.5
10	256QAM	1	0	20.17	20.38	20.65	20.33	20.35		
10	256QAM	1	25	20.30	20.51	20.59	20.18	20.23		
10	256QAM	1	49	20.12	20.28	20.59	20.18	20.26		
10	256QAM	25	0	20.13	20.35	20.64	20.19	20.31	21	4
10	256QAM	25	12	20.06	20.30	20.54	20.16	20.27		
10	256QAM	25	25	20.02	20.23	20.48	20.15	20.25		
10	256QAM	50	0	20.09	20.31	20.59	20.18	20.28		
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.34	24.56	24.93	24.60	24.65	25	0
5	QPSK	1	12	24.31	24.38	24.80	24.37	24.44		
5	QPSK	1	24	24.28	24.46	24.77	24.46	24.40		
5	QPSK	12	0	23.28	23.54	23.81	23.45	23.58		
5	QPSK	12	12	23.28	23.54	23.81	23.45	23.58	24	1
5	QPSK	12	24	23.17	23.43	23.66	23.36	23.37		
5	QPSK	25	0	23.27	23.57	23.68	23.48	23.47		
5	16QAM	1	0	23.28	23.42	23.66	23.45	23.40		
5	16QAM	1	12	23.17	23.33	23.62	23.30	23.45	24	1
5	16QAM	1	24	23.16	23.38	23.61	23.38	23.45		
5	16QAM	12	0	22.18	22.30	22.64	22.28	22.48		
5	16QAM	12	7	22.19	22.38	22.67	22.18	22.28		
5	16QAM	12	13	22.14	22.35	22.64	22.29	22.34	23	2
5	16QAM	25	0	22.30	22.53	22.76	22.35	22.45		
5	64QAM	1	0	22.39	22.48	22.83	22.47	22.53		
5	64QAM	1	12	22.44	22.54	22.85	22.42	22.46		
5	64QAM	1	24	22.32	22.58	22.83	22.41	22.57	23	2
5	64QAM	12	0	21.78	21.94	22.23	21.88	21.99		
5	64QAM	12	7	21.68	21.98	22.15	21.82	21.91		
5	64QAM	12	13	21.75	21.84	22.28	21.84	21.97		
5	64QAM	25	0	20.15	20.36	20.63	20.35	20.39	22.5	2.5
5	256QAM	1	0	20.06	20.37	20.57	20.27	20.33		
5	256QAM	1	12	19.99	20.37	20.60	20.19	20.29		
5	256QAM	1	24	20.20	20.35	20.58	20.18	20.31		
5	256QAM	12	0	20.12	20.43	20.55	20.25	20.36	21	4
5	256QAM	12	7	20.13	20.33	20.50	20.06	20.23		
5	256QAM	12	13	20.15	20.33	20.50	20.18	20.21		
5	256QAM	25	0	20.15	20.25	20.64	20.16	20.28		

Reduced Power Mode for ECI 3

GSM850_Ant.13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	524.2	836.4	848.8	524.2	836.4	848.8	524.2	836.4
GSM 1 Tx slot	29.78	29.83	29.80	31.60	20.79	20.83	20.80	22.60
GPRS/EDGE GMSK 1 Tx slot	29.77	29.80	29.78	31.60	20.77	20.80	20.78	22.60
GPRS/EDGE GMSK 2 Tx slots	26.46	26.48	26.45	28.00	20.46	20.48	20.45	22.00
GPRS/EDGE GMSK 3 Tx slots	24.26	24.28	24.25	26.20	20.00	20.02	19.99	21.84
GPRS/EDGE GMSK 4 Tx slots	22.90	23.00	22.98	24.80	19.90	20.00	19.98	21.80
EDGE BPSK 1 Tx slot	26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50
EDGE BPSK 2 Tx slots	24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00
EDGE BPSK 3 Tx slots	22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74
EDGE BPSK 4 Tx slots	20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00

GSM1800_Ant.13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1832	1844.8	1522.2	1832	1844.8	1522.2	1832
GSM 1 Tx slot	24.65	25.17	25.15	26.30	15.95	16.17	16.15	17.30
GPRS/EDGE GMSK 1 Tx slot	24.60	25.13	25.13	26.30	15.90	16.13	16.13	17.30
GPRS/EDGE GMSK 2 Tx slots	21.69	21.95	21.92	22.80	15.89	15.95	15.92	16.80
GPRS/EDGE GMSK 3 Tx slots	19.81	20.02	20.02	20.50	15.55	15.76	15.76	16.24
GPRS/EDGE GMSK 4 Tx slots	18.23	18.48	18.49	19.80	15.23	15.48	15.49	16.60
EDGE BPSK 1 Tx slot	25.71	25.33	25.70	28.00	16.71	16.33	16.70	17.00
EDGE BPSK 2 Tx slots	22.19	22.45	22.47	23.00	16.19	16.45	16.47	17.00
EDGE BPSK 3 Tx slots	20.27	20.52	20.51	21.00	16.01	16.26	16.25	16.74
EDGE BPSK 4 Tx slots	18.92	19.13	19.11	20.00	15.92	16.13	16.11	17.00

Band	WCDMA II_Ant.13			Tune-up Limit (dbm)	WCDMA II_Ant.31			Tune-up Limit (dbm)
	TX Channel	9662	9400		9662	9400	9538	
Rx Channel	9662	9800	9938	9662	9800	9938	9662	9800
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1880
3GPP Rel.99 AMR 12.2Kbps	16.61	16.63	16.60	17.70	24.06	24.08	24.05	24.70
3GPP Rel.99 RMC 12.2Kbps	16.63	16.65	16.61	17.70	24.08	24.10	24.06	24.70
3GPP Rel.6 HSDPA Subtest-1	16.49	16.49	16.56	17.70	23.30	23.04	23.20	24.00
3GPP Rel.6 HSDPA Subtest-2	16.57	16.52	16.55	17.70	23.26	23.00	23.25	24.00
3GPP Rel.6 HSDPA Subtest-3	16.53	16.53	16.51	17.70	22.81	22.56	22.81	23.50
3GPP Rel.6 HSDPA Subtest-4	16.52	16.55	16.50	17.70	22.79	22.54	22.75	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	16.55	16.50	16.59	17.70	23.18	22.96	23.19	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	16.47	16.61	16.46	17.70	23.24	22.90	23.11	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	16.52	16.54	16.51	17.70	22.73	22.55	22.78	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	16.57	16.50	16.58	17.70	22.71	22.49	22.71	23.50
3GPP Rel.6 HSUPA Subtest-1	16.55	16.56	16.58	17.70	21.27	20.98	21.25	22.00
3GPP Rel.6 HSUPA Subtest-2	16.53	16.50	16.55	17.70	21.30	20.98	21.30	22.00
3GPP Rel.6 HSUPA Subtest-3	16.60	16.56	16.56	17.70	22.32	22.12	22.26	23.00
3GPP Rel.6 HSUPA Subtest-4	16.51	16.57	16.45	17.70	20.82	20.61	20.76	21.50
3GPP Rel.6 HSUPA Subtest-5	16.55	16.61	16.46	17.70	22.30	22.00	22.30	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	16.49	16.50	16.54	17.70	20.45	20.44	20.40	21.50

Band	WCDMA V_Ant.13			Tune-up Limit (dbm)	WCDMA V_Ant.31			Tune-up Limit (dbm)
	TX Channel	4132	4182		4132	4182	4233	
Rx Channel	4357	4407	4458	4357	4407	4458	4357	4407
Frequency (MHz)	828.4	838.4	848.8	828.4	838.4	848.8	828.4	838.4
3GPP Rel.99 AMR 12.2Kbps	20.65	20.66	20.60	22.00	23.83	23.88	23.81	25.00
3GPP Rel.99 RMC 12.2Kbps	20.66	20.68	20.61	22.00	23.85	23.90	23.83	25.00
3GPP Rel.6 HSDPA Subtest-1	20.54	20.59	20.50	22.00	23.08	23.01	22.96	24.00
3GPP Rel.6 HSDPA Subtest-2	20.54	20.55	20.59	22.00	23.03	23.02	22.99	24.00
3GPP Rel.6 HSDPA Subtest-3	20.63	20.59	20.53	22.00	22.62	22.59	22.52	23.50
3GPP Rel.6 HSDPA Subtest-4	20.57	20.65	20.55	22.00	22.56	22.55	22.47	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	20.56	20.53	20.57	22.00	22.98	22.93	22.83	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	20.58	20.58	20.49	22.00	22.93	23.00	22.84	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	20.64	20.56	20.59	22.00	22.57	22.54	22.40	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	20.57	20.53	20.59	22.00	22.49	22.45	22.40	23.50
3GPP Rel.6 HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96	22.00
3GPP Rel.6 HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98	22.00
3GPP Rel.6 HSUPA Subtest-3	20.54	20.60	20.47	22.00	21.98	22.02	21.97	23.00
3GPP Rel.6 HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43	21.50
3GPP Rel.6 HSUPA Subtest-5	20.50	20.62	20.57	22.00	22.00	22.00	21.90	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	20.17	20.20	20.15	21.50	20.35	20.66	20.62	21.50

GSM1800_Ant.31	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1832	1844.8	1522.2	1832	1844.8	1522.2	1832
GSM 1 Tx slot	29.57	29.60	29.55	30.50	20.57	20.60	20.55	21.50
GPRS/EDGE GMSK 1 Tx slot	29.55	29.58	29.53	30.50	20.55	20.56	20.53	21.50
GPRS/EDGE GMSK 2 Tx slots	27.78	27.80	27.78	28.00	21.78	21.80	21.78	22.00
GPRS/EDGE GMSK 3 Tx slots	25.38	25.40	25.37	25.50	21.12	21.14	21.11	21.24
GPRS/EDGE GMSK 4 Tx slots	23.96	23.98	23.95	24.50	20.96	20.98	20.95	21.50
EDGE BPSK 1 Tx slot	26.18	26.21	26.16	26.50	17.18	17.21	17.16	17.50
EDGE BPSK 2 Tx slots	24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots	22.20	22.23	22.17	22.50	17.94	17.97	17.91	18.24
EDGE BPSK 4 Tx slots	20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band	WCDMA IV_Ant.13			Tune-up Limit (dbm)	WCDMA IV_Ant.31			Tune-up Limit (dbm)
	TX Channel	1312	1413		1312	1413	1513	
Rx Channel	1537	1638	1738	1537	1638	1738	1537	1638
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1732.6
3GPP Rel.99 AMR 12.2Kbps	17.05	17.23	16.95	18.20	24.08	24.10	24.03	24.70
3GPP Rel.99 RMC 12.2Kbps	17.07	17.25	16.96	18.20	24.10	24.12	24.05	24.70
3GPP Rel.6 HSDPA Subtest-1	16.90	17.22	16.87	18.20	23.10	23.30	22.97	24.00
3GPP Rel.6 HSDPA Subtest-2	17.04	17.08	16.84	18.20	23.08	23.31	22.97	24.00
3GPP Rel.6 HSDPA Subtest-3	16.97	17.09	16.91	18.20	22.83	22.81	22.48	23.50
3GPP Rel.6 HSDPA Subtest-4	16.95	17.19	16.93	18.20	22.80	22.78	22.47	23.50
3GPP Rel.6 DC-HSDPA Subtest-1	16.90	17.22	16.83	18.20	23.05	23.29	22.87	24.00
3GPP Rel.6 DC-HSDPA Subtest-2	16.90	17.15	16.84	18.20	22.93	23.28	22.87	24.00
3GPP Rel.6 DC-HSDPA Subtest-3	16.92	17.20	16.88	18.20	22.52	22.75	22.44	23.50
3GPP Rel.6 DC-HSDPA Subtest-4	16.91	17.09	16.86	18.20	22.47	22.71	22.43	23.50
3GPP Rel.6 HSUPA Subtest-1	16.91	17.08	16.89	18.20	21.08	21.28	20.95	22.00
3GPP Rel.6 HSUPA Subtest-2	16.98	17.21	16.89	18.20	21.13	21.27	21.04	22.00
3GPP Rel.6 HSUPA Subtest-3	17.04	17.21	16.88	18.20	22.11	22.29	22.02	23.00
3GPP Rel.6 HSUPA Subtest-4	16.98	17.16	16.90	18.20	20.62	20.86	20.46	21.50
3GPP Rel.6 HSUPA Subtest-5	17.01	17.14	16.88	18.20	22.10	22.30	22.00	23.00
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	16.98	17.22	16.88	18.20	20.88	20.73	20.65	21.50

Band 2_Ant 13

BW [MHz]

Modulation

RB Size

RB Offset

Power Ch / Freq [dBm]

Power Power Ch / Freq [dBm]

Power Power Ch / Freq [dBm]

Turn-up (dB)

MPR (dB)

Channel

Frequency (MHz)

20 QPSK 1 0 16.60 16.60 16.60

20 QPSK 1 9 16.60 16.60 16.60

20 QPSK 1 99 16.49 16.55 16.52

20 QPSK 25 24 16.39 16.42 16.37

20 QPSK 50 50 16.39 16.47 16.33

20 QPSK 100 100 16.39 16.47 16.33

20 WDM 1 0 16.55 16.55 16.44

20 WDM 1 49 16.53 16.61 16.42

20 WDM 1 50 16.53 16.55 16.44

20 WDM 1 50 16.46 16.61 16.50

20 WDM 1 24 16.49 16.58 16.42

20 WDM 1 50 16.50 16.56 16.44

20 WDM 1 0 16.51 16.57 16.48

20 WDM 1 0 16.53 16.58 16.48

20 WDM 1 0 16.52 16.58 16.48

20 WDM 1 99 16.48 16.50 16.51

20 WDM 1 0 16.47 16.67 16.48

20 WDM 1 24 16.48 16.55 16.44

20 WDM 1 50 16.51 16.56 16.48

20 WDM 1 50 16.51 16.56 16.48

20 WDM 1 0 16.51 16.59 16.50

20 WDM 1 0 16.51 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

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20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

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20 WDM 1 50 16.53 16.58 16.43

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20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62 16.45

20 WDM 1 50 16.50 16.55 16.45

20 WDM 1 24 16.49 16.52 16.50

20 WDM 1 50 16.53 16.58 16.43

20 WDM 1 0 16.50 16.57 16.51

20 WDM 1 49 16.48 16.52 16.44

20 WDM 1 99 16.50 16.62

Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Time-use (int. (sec))	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.55	21.56	21.57				
20	QPSK	1	45	20.98	20.91	20.96	21.5	0		
20	QPSK	1	90	20.41	20.33	20.48				
20	QPSK	50	0	20.77	20.80	20.76				
20	QPSK	50	24	20.77	20.87	20.82	21.5	0		
20	QPSK	50	48	20.82	20.92	20.87				
20	HQAM	1	0	20.78	20.85	20.84				
20	HQAM	1	45	20.35	20.31	20.87	21.5	0		
20	HQAM	1	90	20.80	21.06	20.92				
20	HQAM	50	0	20.93	20.98	20.89				
20	HQAM	50	24	20.97	20.91	20.93	21.5	0		
20	HQAM	50	48	20.96	20.87	20.87				
20	HQAM	100	0	20.96	20.88	20.87				
20	HQAM	100	24	20.96	20.92	20.86	21.5	0		
20	HQAM	1	45	20.35	21.01	20.94	21.5	0		
20	HQAM	50	0	20.91	20.97	20.91				
20	HQAM	50	24	20.97	21.00	20.89				
20	HQAM	50	48	20.92	21.00	20.92	21.5	0		
20	HQAM	100	0	20.94	20.92	20.87				
20	HQAM	100	24	20.94	20.94	20.94				
20	SSBDM	1	45	20.31	20.40	20.31	20.5	1		
20	SSBDM	1	90	20.40	20.43	20.38				
20	SSBDM	50	0	20.30	20.38	20.26				
20	SSBDM	50	24	20.38	20.31	20.21	20.5	1		
20	SSBDM	50	48	20.23	20.33	20.24				
20	SSBDM	100	0	20.28	20.35	20.30				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.98	20.93	20.91				
20	QPSK	1	37	20.91	20.82	20.90	21.5	0		
20	QPSK	1	74	20.84	20.86	20.84				
20	QPSK	36	0	20.84	20.86	20.89				
20	QPSK	36	20	20.84	20.76	20.68	21.5	0		
20	QPSK	36	40	20.84	20.88	20.82				
20	QPSK	75	0	20.84	20.83	20.73				
20	HQAM	1	0	20.78	20.80	20.83	21.5	0		
20	HQAM	36	0	20.78	20.78	20.78				
20	HQAM	1	74	20.80	20.91	20.82				
20	HQAM	36	0	20.85	20.80	20.81	21.5	0		
20	HQAM	36	20	20.84	20.80	20.84				
20	HQAM	36	40	20.81	20.83	20.73				
20	HQAM	75	0	20.85	20.84	20.73				
20	HQAM	75	20	20.85	20.88	20.81	21.5	0		
20	HQAM	1	37	20.92	20.95	20.88				
20	HQAM	1	74	20.87	20.82	20.74				
20	HQAM	36	0	20.80	20.82	20.84	21.5	0		
20	HQAM	36	20	20.84	20.85	20.86				
20	HQAM	36	40	20.85	20.85	20.86				
20	HQAM	75	0	20.88	20.83	20.80				
20	SSBDM	1	0	20.30	20.44	20.40	20.5	1		
20	SSBDM	1	37	20.22	20.39	20.28				
20	SSBDM	1	74	20.35	20.35	20.17				
20	SSBDM	36	0	20.20	20.34	20.14				
20	SSBDM	36	20	20.28	20.28	20.18	20.5	1		
20	SSBDM	36	40	20.30	20.23	20.18				
20	SSBDM	75	0	20.28	20.34	20.20				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.91	21.01	20.90				
20	QPSK	1	25	20.89	20.85	20.88	21.5	0		
20	QPSK	1	50	20.84	20.86	20.84				
20	QPSK	25	0	20.77	20.84	20.84				
20	QPSK	25	12	20.83	20.77	20.75	21.5	0		
20	QPSK	25	24	20.84	20.88	20.82				
20	QPSK	50	0	20.88	20.78	20.76				
20	HQAM	1	0	20.84	20.89	20.85	21.5	0		
20	HQAM	50	0	20.85	20.85	20.75				
20	HQAM	1	45	20.80	20.89	20.87				
20	HQAM	25	0	20.78	20.89	20.82				
20	HQAM	25	12	20.79	20.89	20.84	21.5	0		
20	HQAM	25	24	20.84	20.82	20.73				
20	HQAM	50	0	20.84	20.88	20.78				
20	HQAM	50	12	20.81	20.83	20.88				
20	HQAM	1	25	20.89	20.92	20.86	21.5	0		
20	HQAM	1	45	20.85	20.90	20.78				
20	HQAM	25	0	20.84	20.89	20.82				
20	HQAM	25	12	20.88	20.87	20.87	21.5	0		
20	HQAM	25	24	20.78	20.83	20.87				
20	HQAM	50	0	20.86	20.77	20.73				
20	SSBDM	1	0	20.30	20.34	20.27	20.5	1		
20	SSBDM	1	25	20.28	20.26	20.19				
20	SSBDM	1	45	20.33	20.35	20.16				
20	SSBDM	25	0	20.17	20.29	20.16				
20	SSBDM	25	12	20.28	20.28	20.18	20.5	1		
20	SSBDM	25	24	20.31	20.27	20.20				
20	SSBDM	50	0	20.19	20.22	20.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.98	20.93	20.91				
15	QPSK	1	37	20.91	20.82	20.90	21.5	0		
15	QPSK	1	74	20.84	20.86	20.84				
15	QPSK	36	0	20.84	20.86	20.89				
15	QPSK	36	20	20.84	20.76	20.68	21.5	0		
15	QPSK	36	40	20.84	20.88	20.82				
15	QPSK	75	0	20.84	20.83	20.73				
15	HQAM	1	0	20.78	20.80	20.83	21.5	0		
15	HQAM	36	0	20.78	20.78	20.78				
15	HQAM	1	74	20.80	20.91	20.82				
15	HQAM	36	0	20.85	20.80	20.81	21.5	0		
15	HQAM	36	20	20.84	20.80	20.84				
15	HQAM	36	40	20.81	20.83	20.73				
15	HQAM	75	0	20.85	20.84	20.73				
15	HQAM	75	20	20.85	20.88	20.81	21.5	0		
15	HQAM	1	37	20.92	20.95	20.88				
15	HQAM	1	74	20.87	20.82	20.74				
15	HQAM	36	0	20.80	20.82	20.84	21.5	0		
15	HQAM	36	20	20.84	20.85	20.86				
15	HQAM	36	40	20.85	20.85	20.86				
15	HQAM	75	0	20.88	20.83	20.78				
15	SSBDM	1	0	20.30	20.44	20.40	20.5	1		
15	SSBDM	1	37	20.22	20.39	20.28				
15	SSBDM	1	74	20.35	20.35	20.17				
15	SSBDM	36	0	20.20	20.34	20.14				
15	SSBDM	36	20	20.28	20.28	20.18	20.5	1		
15	SSBDM	36	40	20.30	20.23	20.18				
15	SSBDM	75	0	20.28	20.34	20.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.91	20.92	20.90				
15	QPSK	1	12	20.83	20.84	20.89	21.5	0		
15	QPSK	1	24	20.81	20.83	20.84				
15	QPSK	12	0	20.84	20.84	20.83				
15	QPSK	12	7	20.89	20.72	20.74	21.5	0		
15	QPSK	12	14	20.87	20.77	20.69				
15	QPSK	25	0	20.88	20.78	20.69				
15	HQAM	1	0	20.84	20.89	20.85	21.5	0		
15	HQAM	50	0	20.85	20.85	20.75				
15	HQAM	1	45	20.80	20.89	20.87				
15	HQAM	25	0	20.78	20.89	20.82				
15	HQAM	25	12	20.79	20.89	20.84	21.5	0		
15	HQAM	25	24	20.84	20.82	20.73				
15	HQAM	50	0	20.84	20.88	20.78				
15	HQAM	50	12	20.81	20.83	20.88				
15	HQAM	1	25	20.89	20.92	20.86	21.5	0		
15	HQAM	1	45	20.85	20.90	20.78				
15	HQAM	25	0	20.84	20.89	20.82				
15	HQAM	25	12	20.88	20.87	20.87	21.5	0		
15	HQAM	25	24	20.78	20.83	20.87				
15	HQAM	50	0	20.86	20.77	20.73				
15	SSBDM	1	0	20.30	20.34	20.27	20.5	1		
15	SSBDM	1	25	20.28	20.26	20.19				
15	SSBDM	1	45	20.33	20.35	20.16				
15	SSBDM	25	0	20.17	20.29	20.16				
15	SSBDM	25	12	20.28	20.28	20.18	20.5	1		
15	SSBDM	25	24	20.31	20.27	20.20				
15	SSBDM	50	0	20.19	20.22	20.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.91	20.92	20.90				
5	QPSK	1	12	20.83	20.84	20.89	21.5	0		
5	QPSK	1	24	20.81	20.83	20.84				
5	QPSK	12	0	20.84	20.84	20.83				
5	QPSK	12	7	20.89	20.72	20.74	21.5	0		
5	QPSK	12	14	20.87	20.77	20.69				
5	QPSK	25	0	20.88	20.78	20.69				
5	HQAM	1	0	20.84	20.89	20.85	21.5	0		
5	HQAM	50	0	20.85	20.85	20.75				
5	HQAM	1	45	20.80	20.89	20.87				
5	HQAM	25	0	20.78	20.89	20.82				
5	HQAM	25	12	20.79	20.89	20.84	21.5	0		
5	HQAM	25	24	20.84	20.82	20.73				
5	HQAM	50	0	20.84	20.88					

Band 7_Ant 31									
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on time (min)	MFR (dB)	
Channel									
Frequency (MHz)				2050	2150	2150			
30	QPSK	1	0	24.13	24.15	24.11			
30	QPSK	1	40	24.09	24.11	24.01	25	0	
30	QPSK	1	80	24.02	24.05	24.00			
30	QPSK	50	0	23.10	23.20	23.10			
30	QPSK	50	24	23.08	23.10	23.07	24	1	
30	QPSK	50	50	23.02	23.05	23.00			
30	QPSK	100	0	23.10	23.18	23.15			
30	IQMAM	1	0	23.46	23.40	23.46	24	1	
30	IQMAM	1	40	23.39	23.40	23.32			
30	IQMAM	1	80	23.41	23.43	23.36			
30	IQMAM	50	0	22.20	22.25	22.12			
30	IQMAM	50	24	22.12	22.15	22.02	23	2	
30	IQMAM	50	50	22.04	22.10	22.04			
30	IQMAM	100	0	22.08	22.21	22.14			
30	IQMAM	1	0	22.72	22.86	22.78			
30	IQMAM	1	40	22.77	22.78	22.83	23	2	
30	IQMAM	1	80	22.77	22.83	22.79			
30	IQMAM	50	0	21.07	21.77	21.76			
30	IQMAM	50	24	21.57	21.70	21.82	22	3	
30	IQMAM	50	50	21.71	21.75	21.71			
30	IQMAM	100	0	21.68	21.75	21.64			
30	25GQAM	1	0	20.17	20.32	20.26			
30	25GQAM	1	40	20.16	20.28	20.22	20.5	4.5	
30	25GQAM	1	80	20.17	20.30	20.22			
30	25GQAM	50	0	20.23	20.25	20.15			
30	25GQAM	50	24	20.12	20.20	20.18	20.5	4.5	
30	25GQAM	50	50	20.18	20.18	20.06			
30	25GQAM	100	0	20.13	20.23	20.17			
Frequency (MHz)				2050.2	2150.2	2150.2	Min-Int (min)	MFR (dB)	
Channel				2050.2	2150.2	2150.2			
15	QPSK	1	0	24.04	24.14	24.02			
15	QPSK	1	37	24.04	24.09	23.89	25	0	
15	QPSK	1	74	24.01	24.02	23.91			
15	QPSK	36	0	23.03	23.08	23.07			
15	QPSK	36	20	22.98	23.07	22.98	24	1	
15	QPSK	36	40	23.00	23.11	23.00			
15	QPSK	75	0	23.14	23.17	23.03			
15	IQMAM	1	0	23.31	23.37	23.23	24	1	
15	IQMAM	1	37	23.32	23.37	23.23			
15	IQMAM	1	74	23.31	23.42	23.31			
15	IQMAM	36	0	22.14	22.14	22.03			
15	IQMAM	36	20	22.00	22.02	21.94	23	2	
15	IQMAM	36	39	21.95	22.12	21.95			
15	IQMAM	75	0	21.93	22.20	22.03			
15	IQMAM	1	0	22.87	23.01	22.85			
15	IQMAM	1	37	22.74	22.85	22.49	23	2	
15	IQMAM	1	74	22.63	22.76	22.71			
15	IQMAM	36	0	21.84	21.89	21.71			
15	IQMAM	36	20	21.43	21.69	21.47	22	3	
15	IQMAM	36	59	21.62	21.50	21.50			
15	IQMAM	75	0	21.80	21.73	21.63			
15	25GQAM	1	0	20.04	20.21	20.23			
15	25GQAM	1	37	20.02	20.24	20.21	20.5	4.5	
15	25GQAM	1	74	20.10	20.26	20.07			
15	25GQAM	36	0	20.08	20.20	20.04			
15	25GQAM	36	20	20.07	20.05	20.00	20.5	4.5	
15	25GQAM	36	59	19.92	20.12	20.05			
15	25GQAM	75	0	20.01	20.09	20.03			
Frequency (MHz)				2050.0	2150.0	2150.0	Min-Int (min)	MFR (dB)	
Channel				2050.0	2150.0	2150.0			
10	QPSK	1	0	24.07	24.02	23.99			
10	QPSK	1	25	23.96	23.97	23.88	25	0	
10	QPSK	1	50	24.02	24.03	23.97			
10	QPSK	25	0	23.08	23.19	23.14			
10	QPSK	25	12	22.94	22.95	22.95	24	1	
10	QPSK	25	25	23.01	23.05	23.01			
10	QPSK	50	0	23.15	23.03	23.14			
10	IQMAM	1	0	23.34	23.34	23.44	24	1	
10	IQMAM	1	25	23.38	23.38	23.26			
10	IQMAM	1	49	23.37	23.38	23.31			
10	IQMAM	25	0	22.16	22.20	22.05			
10	IQMAM	25	12	22.06	22.08	21.98	23	2	
10	IQMAM	50	0	21.90	22.18	21.94			
10	IQMAM	50	0	22.07	22.11	22.12			
10	IQMAM	1	0	22.68	22.74	22.74			
10	IQMAM	1	25	22.72	22.68	22.51	23	2	
10	IQMAM	1	49	22.84	22.71	22.74			
10	IQMAM	25	0	21.80	21.75	21.73			
10	IQMAM	25	12	21.48	21.69	21.49	22	3	
10	IQMAM	50	0	21.89	21.83	21.87			
10	25GQAM	1	0	20.11	20.29	20.19			
10	25GQAM	1	25	20.03	20.13	20.18	20.5	4.5	
10	25GQAM	1	49	20.02	20.13	20.21			
10	25GQAM	25	0	20.21	20.10	20.02			
10	25GQAM	25	12	20.09	20.06	20.15	20.5	4.5	
10	25GQAM	25	25	20.07	20.14	19.98			
10	25GQAM	50	0	20.02	20.18	20.09			
Frequency (MHz)				2050.2	2150.2	2150.2	Min-Int (min)	MFR (dB)	
Channel				2050.2	2150.2	2150.2			
5	QPSK	1	0	24.02	24.10	24.06			
5	QPSK	1	12	23.96	24.00	23.93	25	0	
5	QPSK	1	24	24.10	23.94	24.01			
5	QPSK	12	0	23.04	23.18	23.15			
5	QPSK	12	7	22.95	22.98	22.96	24	1	
5	QPSK	12	13	23.07	23.03	23.01			
5	QPSK	25	0	23.02	23.15	23.13			
5	IQMAM	1	0	23.45	23.45	23.38	24	1	
5	IQMAM	1	12	23.44	23.35	23.23			
5	IQMAM	1	24	23.31	23.34	23.33			
5	IQMAM	12	0	22.08	22.20	22.07			
5	IQMAM	12	7	21.99	22.11	21.94	23	2	
5	IQMAM	12	13	22.03	22.03	21.91			
5	IQMAM	25	0	22.04	22.11	22.09			
5	IQMAM	25	0	22.80	22.82	22.77			
5	IQMAM	1	24	22.62	22.66	22.57	23	2	
5	IQMAM	1	24	22.85	22.86	22.70			
5	IQMAM	12	0	21.64	21.75	21.74			
5	IQMAM	12	7	21.54	21.69	21.49	22	3	
5	25GQAM	1	0	20.16	20.21	20.15			
5	25GQAM	1	12	20.09	20.23	20.15	20.5	4.5	
5	25GQAM	1	24	20.14	20.23	20.09			
5	25GQAM	12	0	20.15	20.21	20.07			
5	25GQAM	12	7	20.09	20.17	20.05	20.5	4.5	
5	25GQAM	12	13	19.98	20.03	19.96			
5	25GQAM	25	0	20.09	20.21	20.08			

Band 7_Ant 11									
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on time (min)	MFR (dB)	
Channel									
Frequency (MHz)				20500	21100	21300			
30	QPSK	1	0	19.05	19.08	19.03	20.5	0	
30	QPSK	1	40	19.09	19.05	19.00			
30	QPSK	1	80	19.04	19.03	19.00			
30	QPSK	50	0	19.24	19.27	19.21			
30	QPSK	50	24	19.41	19.47	19.40	20.5	0	
30	QPSK	50	50	19.47	19.57	19.45			
30	QPSK	100	0	19.40	19.49	19.36			
30	IQMAM	1	0	19.51	19.54	19.49	20.5	0	
30	IQMAM	1	40	19.55	19.53	19.57			
30	IQMAM	1	80	19.53	19.55	19.50			
30	IQMAM	50	0	19.57	19.53	19.56			
30	IQMAM	50	24	19.57	19.50	19.59	20.5	0	
30	IQMAM	50	50	19.60	19.58	19.57			
30	IQMAM	100	0	19.57	19.59	19.54			
30	IQMAM	1	0	19.54	19.52	19.48			
30	IQMAM	1	40	19.50	19.51	19.49	20.5	0	
30	IQMAM	1	80	19.54	19.57	19.52			
30	IQMAM	50	0	19.57	19.52	19.56			
30	IQMAM	50	24	19.50	19.51	19.48	20.5	0	
30	IQMAM	50	50	19.58	19.52	19.56			
30	IQMAM	100	0	19.56	19.59	19.57			
30	25GQAM	1	0	19.51	19.63	19.62			
30	25GQAM	1	40	19.55	19.61	19.48	20.5	0	
30	25GQAM	1	80	19.58	19.66	19.49			
30	25GQAM	50	0	19.56	19.56	19.54			
30	25GQAM	50	24	19.59	19.53	19.56	20.5	0	
30	25GQAM	50	50	19.58	19.51	19.58			
30	25GQAM	100	0	19.56	19.61	19.56			
Channel				20505	21105	21305	Turn-on time (min)	MFR (dB)	
Frequency (MHz)				2050.5	2150.5	2150.5			
15	QPSK	1	0	19.59	19.61	19.51			
15	QPSK	1	37	19.50	19.53	19.35	20.5	0	
15	QPSK	1	74	19.47	19.45	19.40			
15	QPSK	36	0	19.					
15	QPSK	36	36	19.40	19.45	19.42			
15	QPSK	36	72	19.45	19.45	19.40			
15	QPSK	36	108	19.40	19.34	19.30			
15	IQMAM	1	0	19.51	19.54	19.49	20.5	0	
15	IQMAM	1	37	19.47	19.55	19.51			
15	IQMAM	1	74	19.43	19.43	19.42			
15	IQMAM	36	0	19.48	19.47	19.45			
15	IQMAM	36	36	19.52	19.48	19.41	20.5	0	
15	IQMAM	36	72	19.45	19.47	19.42			
15	IQMAM	36	108	19.40	19.38	19.40			
15	IQMAM	72	0	19.42	19.38	19.40			
15	IQMAM	72	36	19.45	19.47	19.42			
15	IQMAM	72	72	19.45	19.47	19.42			
15	IQMAM	72	108	19.40	19.38	19.40			
15	IQMAM	144	0	19.45	19.51	19.44	20.5	0	
15	IQMAM	36	0	19.48	19.48	19.41			
15	IQMAM	36	36	19.48	19.47	19.43			
15	IQMAM	36	72	19.48	19.45	19.38			
15	IQMAM	36	108	19.41	19.34	19.35			
15	IQMAM	72	0	19.41	19.34	19.35			
15	IQMAM	72	36	19.43	19.53	19.47			
15	IQMAM	72	72	19.44	19.48	19.37			
15	IQMAM	72	108	19.37	19.56	19.46	20.5	0	
15	IQMAM	144	0	19.56	19.55	19.50			
15	IQMAM	36	0	19.55	19.41	19.53			
15	IQMAM	36	36	19.47	19.48	19.43			
15	IQMAM	36	72	19.41	19.38	19.41			
15	IQMAM	36	108	19.41	19.38	19.41			
15	IQMAM	72	0	19.41	19.38	19.41			
15	IQMAM	72	36	19.47	19.48	19.43			
15	IQMAM	72	72	19.41	19.38	19.41			
15	IQMAM	72	108	19.41	19.38	19.41			
15	IQMAM	144	0	19.41	19.38	19.41			
15	IQMAM	144	36	19.47	19.48	19.43			
15	IQMAM	144	72	19.41	19.38	19.41			
15	IQMAM	144	108	19.41	19.38	19.41			
15	IQMAM	144	144	19.41	19.38	19.41			
15	IQMAM	288	0	19.41	19.38	19.41			
15	IQMAM	288	36	19.47	19.48	19.43			
15	IQMAM	288	72	19.41	19.38	19.41			
15	IQMAM	288	108	19.41	19.38	19.41			
15	IQMAM	288	144	19.41	19.38	19.41			
15	IQMAM	576	0	19.41	19.38	19.41			
15	IQMAM	576	36	19.47	19.48	19.43			
15	IQMAM	576	72	19.41	19.38	19.41			
15	IQMAM	576	108	19.41	19.38	19.41			
15	IQMAM	576	144	19.41	19.38	19.41			
15	IQMAM	1152	0	19.41	19.38	19.41			
15	IQMAM	1152	36	19.47	19.48	19.43			
15	IQMAM	1152	72	19.41	19.38	19.41			
15	IQMAM	1152	108	19.41	19.38	19.41			
15	IQMAM	1152	144	19.41	19.38	19.41			
15	IQMAM	2304	0	19.41	19.38	19.41			
15	IQMAM	2304	36	19.47	19.48	19.43			
15	IQMAM	2304	72	19.41	19.38	19.41			
15	IQMAM	2304	108	19.41	19.38	19.41			
15	IQMAM	2304	144	19.41	19.38	19.41			
15	IQMAM	4608	0	19.41	19.38	19.41			
15	IQMAM	4608	36	19.47	19.48	19.43			
15	IQMAM	4608	72	19.41	19.38	19.41			
15	IQMAM	4608	108	19.41	19.38	19.41			
15	IQMAM	4608	144	19.41	19.38	19.41			
15	IQMAM	9216	0	19.41	19.38	19.41			
15	IQMAM	9216	36	19.47	19.48	19.43			
15	IQMAM	9216	72	19.41	19.38	19.41			
15	IQMAM	9216	108	19.41	19.38	19.41			
15	IQMAM	9216	144	19.41	19.38	19.41			
15	IQMAM	18432	0	19.41	19.38	19.41			
15	IQMAM	18432	36	19.47	19.48	19.43			
15	IQMAM	18432	72	19.41	19.38	19.41			
15	IQMAM	18432	108	19.41	19.38	19.41			
15	IQMAM	18432	144	19.41	19.38	19.41			
15	IQMAM	36864	0	19.41	19.38	19.41			
15	IQMAM	36864	36	19.47	19.48	19.43			
15	IQMAM	36864	72	19.41	19.38	19.41			
15	IQMAM	36864	108	19.41	19.38	19.41			
15	IQMAM	36864	144	19.41	19.38	19.41			
15	IQMAM	73728	0	19.41	19.38	19.41			
15	IQMAM	73728	36	19.47	19.48	19.43			
15	IQMAM	73728	72	19.41	19.38	19.41			
15	IQMAM	73728	108	19.41	19.38	19.41			
15	IQMAM	73728	144	19.41	19.38	19.41			
15	IQMAM	147456	0	19.41	19.38	19.41			
15	IQMAM	147456	36	19.47	19.48	19.43			
15	IQMAM	147456	72	19.41	19.38	19.41			
15	IQMAM	147456	108	19.41	19.38	19.41			
15	IQMAM	147456	144	19.41	19.38	19.41			
15	IQMAM	294912	0	19.41	19.38	19.41			
15	IQMAM	294912	36	19.47	19.48	19.43			
15	IQMAM	294912	72	19.41	19.38	19.41			
15	IQMAM	294912	108	19.41	19.38	19.41			
15	IQMAM	294912	144	19.41	19.38	19.41			
15	IQMAM	589824	0	19.41	19.38	19.41			
15	IQMAM	589824	36	19.47	19.48	19.43			
15	IQMAM	589824	72	19.41	19.38	19.41			
15	IQMAM	589824	108	19.41	19.38	19.41			
15	IQMAM	589824	144	19.41	19.38	19.41			
15	IQMAM	1179648	0	19.41	19.38	19.41			
15	IQMAM	1179648	36	19.47	19.48	19.43			
15	IQMAM	1179648	72	19.41	19.38	19.41			
15	IQMAM	1179648	108	19.41	19.38	19.41			
15	IQMAM	1179648	144	19.41	19.38	19.41			
15	IQMAM	2359296	0	19.41	19.38	19.41			
15	IQMAM	2359296	36	19.47	19.48	19.43			
15	IQMAM	2359296	72	19.41	19.38	19.41			
15	IQMAM	2359296	108	19.41	19.38	19.41			
15	IQMAM	2359296	144	19.41	19.38	19.41			
15	IQMAM	4718592	0	19.41	19.38	19.41			
15	IQMAM	4718592	36	19.47	19.48	19.43			
15	IQMAM	4718592	72	19.41	19.38	19.41			
15	IQMAM	4718592	108	19.41	19.38	19.41			
15	IQMAM	4718592	144	19.41	19.38	19.41			
15	IQMAM	9437184	0	19.41	19.38	19.41			
15	IQMAM	9437184	36	19.47	19.48	19.43			
15	IQMAM	9437184	72	19.41	19.38	19.41			
15	IQMAM	9437184	108	19.41	19.38	19.41			
15	IQMAM	9437184	144	19.41	19.38	19.41			
15	IQMAM	18874368	0	19.41	19.38	19.41			
15	IQMAM	18874368	36	19.47	19.48	19.43			
15	IQMAM	18874368	72	19.41	19.38	19.41			
15	IQMAM	18874368	108	19.41	19.38	19.41			
15	IQMAM	18874368	144	19.41	19.38	19.41			
15	IQMAM	37748736	0	19.41	19.38	19.41			
15	IQMAM	37748736	36	19.47	19.48	19.43			</

Band 13_Ant 13																	
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)									
Channel																	
Frequency (MHz)																	
10	QPSK	1	0	23.70		792	25	0									
10	QPSK	1	25	23.65													
10	QPSK	1	49	23.60			24	1									
10	QPSK	25	0	22.83													
10	QPSK	25	12	22.75			23	2									
10	QPSK	25	25	22.78													
10	QPSK	50	0	22.80			24	1									
10	16QAM	1	0	23.00													
10	16QAM	1	25	22.98			23	2									
10	16QAM	1	49	22.95													
10	16QAM	25	0	21.85			22	3									
10	16QAM	25	12	21.78													
10	16QAM	25	25	21.83			23	2									
10	16QAM	50	0	21.78													
10	64QAM	1	0	22.50			23	2									
10	64QAM	1	25	22.43													
10	64QAM	1	49	22.45			22	3									
10	64QAM	25	0	21.51													
10	64QAM	25	12	21.28			20.5	4.5									
10	64QAM	25	25	21.28													
10	256QAM	1	0	19.90			20.5	4.5									
10	256QAM	1	25	19.91													
10	256QAM	1	49	19.89			20.5	4.5									
10	256QAM	25	0	19.78													
10	256QAM	25	12	19.75			20.5	4.5									
10	256QAM	25	25	19.70													
10	256QAM	50	0	19.75													
Channel																	
Frequency (MHz)																	
5	QPSK	1	0	23.69	23.69	23.64	25	0									
5	QPSK	1	12	23.50	23.50	23.54											
5	QPSK	1	24	23.63	23.62	23.54	24	1									
5	QPSK	12	0	22.76	22.72	22.79											
5	QPSK	12	7	22.71	22.67	22.71	24	1									
5	QPSK	12	13	22.68	22.73	22.65											
5	QPSK	25	0	22.85	22.71	22.78	24	1									
5	16QAM	1	0	22.92	22.84	22.96											
5	16QAM	1	12	22.94	22.89	22.88	23	2									
5	16QAM	1	24	22.91	22.89	22.88											
5	16QAM	12	0	21.83	21.73	21.77	23	2									
5	16QAM	12	7	21.75	21.77	21.64											
5	16QAM	12	13	21.71	21.68	21.70	23	2									
5	16QAM	25	0	21.88	21.89	21.75											
5	64QAM	1	0	22.49	22.45	22.38	23	2									
5	64QAM	1	24	22.39	22.43	22.38											
5	64QAM	12	0	21.28	21.26	21.20	22	3									
5	64QAM	12	7	21.20	21.27	21.24											
5	64QAM	12	13	21.14	21.16	21.15	20.5	4.5									
5	64QAM	25	0	21.14	21.23	21.17											
5	256QAM	1	0	19.91	19.89	19.90	20.5	4.5									
5	256QAM	1	12	19.79	19.88	19.80											
5	256QAM	1	24	19.77	19.82	19.87	20.5	4.5									
5	256QAM	12	0	19.63	19.70	19.69											
5	256QAM	12	7	19.70	19.72	19.60	20.5	4.5									
5	256QAM	12	13	19.55	19.56	19.51											
5	256QAM	25	0	19.66	19.71	19.72											

Band 13_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPE (dB)		
Channel										
Frequency [MHz]										
10	QPSK	1	0	24.10	24.05		25	0		
10	QPSK	1	25	24.08	24.05					
10	QPSK	1	49	24.05	24.05		24	1		
10	QPSK	25	0	23.15	23.10					
10	QPSK	25	12	23.10	23.12		23	2		
10	QPSK	25	25	23.15	23.13					
10	16QAM	1	0	23.50			24	1		
10	16QAM	1	25	23.40						
10	16QAM	1	49	23.45			23	2		
10	16QAM	25	0	22.15						
10	16QAM	25	12	22.11			22	3		
10	16QAM	25	25	22.15						
10	16QAM	50	0	22.15			23	2		
10	16QAM	50	25	22.85						
10	64QAM	1	0	22.78			23	2		
10	64QAM	1	25	22.69						
10	64QAM	1	49	22.78			22	3		
10	64QAM	25	0	21.69						
10	64QAM	25	12	21.59			20.5	4.5		
10	64QAM	25	25	21.63						
10	64QAM	50	0	21.61			20.5	4.5		
10	64QAM	50	25	21.37						
10	256QAM	1	0	20.35			20.5	4.5		
10	256QAM	1	25	20.33						
10	256QAM	1	49	20.30			20.5	4.5		
10	256QAM	25	0	20.25						
10	256QAM	25	12	20.20			20.5	4.5		
10	256QAM	25	25	20.21						
10	256QAM	50	0	20.23			20.5	4.5		
10	256QAM	50	25	20.23						
Channel										
Frequency [MHz]										
5	QPSK	1	0	24.09	24.05	23.97	25	0		
5	QPSK	1	12	23.97	23.99	24.04				
5	QPSK	1	24	24.00	23.92	23.93	24	1		
5	QPSK	12	0	23.05	23.06	23.01				
5	QPSK	12	7	22.95	23.04	22.98	24	1		
5	QPSK	12	13	23.00	22.99	23.06				
5	QPSK	25	0	22.99	23.03	23.10	24	1		
5	16QAM	1	0	23.48	23.35	23.39				
5	16QAM	1	12	23.34	23.32	23.37	23	2		
5	16QAM	1	24	23.41	23.33	23.39				
5	16QAM	12	0	22.07	22.10	22.12	23	2		
5	16QAM	12	7	22.00	22.00	22.06				
5	16QAM	12	13	22.10	22.07	22.07	23	2		
5	16QAM	25	0	22.12	22.05	22.11				
5	64QAM	1	0	22.79	22.84	22.73	23	2		
5	64QAM	1	12	22.78	22.72	22.86				
5	64QAM	1	24	22.69	22.70	22.75	22	3		
5	64QAM	12	0	21.57	21.54	21.58				
5	64QAM	12	7	21.57	21.54	21.53	20.5	4.5		
5	64QAM	12	13	21.48	21.46	21.52				
5	64QAM	25	0	21.48	21.45	21.59	20.5	4.5		
5	256QAM	1	0	20.24	20.20	20.23				
5	256QAM	1	12	20.21	20.22	20.30	20.5	4.5		
5	256QAM	1	24	20.19	20.20	20.21				
5	256QAM	12	0	20.22	20.23	20.24	20.5	4.5		
5	256QAM	12	7	20.08	20.10	20.15				
5	256QAM	12	13	20.08	20.08	20.15	20.5	4.5		
5	256QAM	25	0	20.08	20.09	20.15				

Band 66_Ant 11											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Intvl (dB)	MFR (dB)			
Channel				1309.2	1327.2	1329.2					
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	0	21.03	21.07	21.00	21.5	0			
20	QPSK	1	49	20.81	20.87	20.83					
20	QPSK	1	99	20.00	20.00	20.00					
20	QPSK	50	24	20.89	20.93	20.78					
20	QPSK	50	50	20.88	20.88	20.78					
20	QPSK	100	0	20.83	20.95	20.75	21.5	0			
20	16QAM	1	0	20.94	20.95	20.91					
20	16QAM	1	49	20.92	20.98	20.88					
20	16QAM	1	99	20.89	20.92	20.88					
20	16QAM	50	0	20.91	20.93	20.85					
20	16QAM	50	24	20.97	20.98	20.91					
20	16QAM	50	50	20.95	20.96	20.89					
20	16QAM	100	0	20.88	20.94	20.86	21.5	0			
20	64QAM	1	0	21.00	20.94	20.91					
20	64QAM	1	49	20.95	21.01	20.95					
20	64QAM	1	99	20.92	20.93	20.92					
20	64QAM	50	0	20.95	20.97	20.93					
20	64QAM	50	24	20.92	20.95	20.92					
20	64QAM	50	50	20.92	21.00	20.91	21.5	0			
20	64QAM	100	0	20.95	20.98	20.91					
20	256QAM	1	0	20.47	20.50	20.35					
20	256QAM	1	49	20.30	20.42	20.40					
20	256QAM	1	99	20.31	20.45	20.30					
20	256QAM	50	0	20.31	20.43	20.36	20.5	1			
20	256QAM	50	24	20.27	20.34	20.22					
20	256QAM	50	50	20.31	20.33	20.30					
20	256QAM	100	0	20.24	20.37	20.26					
Channel				1309.7	1327.2	1329.2					
Frequency (MHz)				1712.5	1745	1772.5					
15	QPSK	1	0	20.82	21.00	20.87	21.5		0		
15	QPSK	1	37	20.84	20.91	20.78					
15	QPSK	1	74	20.78	20.93	20.80					
15	QPSK	36	0	20.88	20.87	20.78					
15	QPSK	36	20	20.78	20.86	20.69					
15	QPSK	36	36	20.78	20.82	20.73	21.5	0			
15	QPSK	75	0	20.87	20.84	20.81					
15	16QAM	1	0	20.88	20.84	20.79					
15	16QAM	1	37	20.77	20.90	20.81					
15	16QAM	1	74	20.81	20.82	20.83					
15	16QAM	36	0	20.80	20.84	20.74					
15	16QAM	36	20	20.90	20.93	20.80	21.5	0			
15	16QAM	36	36	20.83	20.91	20.81					
15	16QAM	75	0	20.89	20.79	20.80					
15	64QAM	1	0	20.92	20.82	20.86					
15	64QAM	1	37	20.89	20.94	20.82					
15	64QAM	1	74	20.81	20.82	20.83	21.5	0			
15	64QAM	36	0	20.87	20.88	20.82					
15	64QAM	36	20	20.79	20.86	20.65					
15	64QAM	50	0	20.84	20.85	20.84					
15	256QAM	1	0	20.37	20.36	20.34					
15	256QAM	1	37	20.21	20.41	20.31	20.5	1			
15	256QAM	1	74	20.31	20.38	20.15					
15	256QAM	36	0	20.25	20.34	20.26					
15	256QAM	36	20	20.23	20.22	20.20					
15	256QAM	36	36	20.21	20.23	20.28					
15	256QAM	75	0	20.11	20.35	20.12	20.5	1			
Channel				1309.7	1327.2	1329.2					
Frequency (MHz)				1712.5	1745	1772.5					
10	QPSK	1	0	21.00	20.98	20.89	21.5	0			
10	QPSK	1	25	20.79	20.86	20.88					
10	QPSK	1	49	20.81	20.88	20.81					
10	QPSK	25	0	20.86	20.97	20.83					
10	QPSK	25	12	20.78	20.79	20.81					
10	QPSK	35	0	20.75	20.76	20.72	21.5	0			
10	QPSK	50	0	20.78	20.82	20.67					
10	16QAM	1	0	20.88	20.80	20.85					
10	16QAM	1	25	20.77	20.88	20.74					
10	16QAM	1	49	20.81	20.84	20.77					
10	16QAM	25	0	20.75	20.88	20.72	21.5	0			
10	16QAM	25	12	20.83	20.84	20.78					
10	16QAM	25	25	20.84	20.91	20.81					
10	16QAM	50	0	20.86	20.80	20.73					
10	64QAM	1	0	20.86	20.88	20.78					
10	64QAM	1	25	20.81	20.90	20.84	21.5	0			
10	64QAM	1	49	20.85	20.80	20.81					
10	64QAM	25	0	20.81	20.92	20.81					
10	64QAM	25	12	20.85	20.89	20.65					
10	64QAM	25	25	20.87	20.93	20.79					
10	64QAM	50	0	20.81	20.91	20.83	21.5	0			
10	256QAM	1	0	20.40	20.39	20.25					
10	256QAM	1	25	20.27	20.36	20.26					
10	256QAM	1	49	20.24	20.40	20.28					
10	256QAM	25	0	20.30	20.29	20.32					
10	256QAM	25	12	20.29	20.32	20.16	20.5	1			
10	256QAM	25	25	20.25	20.21	20.30					
10	256QAM	50	0	20.17	20.36	20.13					
Channel				1319.7	1327.2	1329.2					
Frequency (MHz)				1712.5	1745	1772.5					
5	QPSK	1	0	21.02	20.99	20.97	21.5	0			
5	QPSK	1	12	20.79	20.90	20.78					
5	QPSK	1	24	20.81	20.84	20.81					
5	QPSK	12	0	20.82	20.90	20.82					
5	QPSK	12	7	20.81	20.86	20.70					
5	QPSK	12	13	20.78	20.82	20.71	21.5	0			
5	QPSK	25	0	20.79	20.88	20.65					
5	16QAM	1	0	20.84	20.82	20.84					
5	16QAM	1	12	20.86	20.84	20.80					
5	16QAM	1	24	20.81	20.79	20.82					
5	16QAM	12	0	20.85	20.80	20.79	21.5	0			
5	16QAM	12	7	20.80	20.87	20.81					
5	16QAM	12	13	20.82	20.88	20.74					
5	16QAM	25	0	20.81	20.80	20.72					
5	64QAM	1	0	20.90	20.79	20.83					
5	64QAM	1	12	20.88	20.88	20.81	21.5	0			
5	64QAM	1	24	20.85	20.80	20.85					
5	64QAM	12	0	20.84	20.86	20.81					
5	64QAM	12	7	20.79	20.82	20.85					
5	64QAM	12	13	20.82	20.88	20.84					
5	64QAM	25	0	20.85	20.83	20.78	21.5	0			
5	256QAM	1	0	20.45	20.40	20.28					
5	256QAM	1	12	20.14	20.36	20.39					
5	256QAM										
5	256QAM	14	0	20.23	20.32	20.16	20.5	1			
5	256QAM	14	7	20.22	20.31	20.17					
5	256QAM	14	14	20.20	20.29	20.13					
5	256QAM	14	21	20.18	20.26	20.17					
5	256QAM	14	28	20.16	20.24	20.14					
5	256QAM	14	35	20.14	20.22	20.12	20.5	1			
5	256QAM	14	42	20.12	20.20	20.11					
5	256QAM	14	49	20.10	20.18	20.09					
5	256QAM	14	56	20.08	20.16	20.07					
5	256QAM	14	63	20.06	20.14	20.05					
5	256QAM	14	70	20.04	20.12	20.03	20.5	1			
5	256QAM	14	77	20.02	20.10	20.01					
5	256QAM	14	84	20.00	20.08	20.00					
5	256QAM	14	91	19.98	20.06	19.99					
5	256QAM	14	98	19.96	20.04	19.97					
5	256QAM	14	105	19.94	20.02	19.95	20.5	1			
5	256QAM	14	112	19.92	20.00	19.93					
5	256QAM	14	119	19.90	19.98	19.91					
5	256QAM	14	126	19.88	19.96	19.89					
5	256QAM	14	133	19.86	19.94	19.87					
5	256QAM	14	140	19.84	19.92	19.85	20.5	1			
5	256QAM	14	147	19.82	19.90	19.83					
5	256QAM	14	154	19.80	19.88	19.81					
5	256QAM	14	161	19.78	19.86	19.79					
5	256QAM	14	168	19.76	19.84	19.77					
5	256QAM	14	175	19.74	19.82	19.75	20.5	1			
5	256QAM	14	182	19.72	19.80	19.73					
5	256QAM	14	189	19.70	19.78	19.71					
5	256QAM	14	196	19.68	19.76	19.69					
5	256QAM	14	203	19.66	19.74	19.67					
5	256QAM	14	210	19.64	19.72	19.65	20.5	1			
5	256QAM	14	217	19.62	19.70	19.63					
5	256QAM	14	224	19.60	19.68	19.61					
5	256QAM	14	231	19.58	19.66	19.59					
5	256QAM	14	238	19.56	19.64	19.57					
5	256QAM	14	245	19.54	19.62	19.55	20.5	1			
5	256QAM	14	252	19.52	19.60	19.53					
5	256QAM	14	259	19.50	19.58	19.51					
5	256QAM	14	266	19.48	19.56	19.49					
5	256QAM	14	273	19.46	19.54	19.47					
5	256QAM	14	280	19.44	19.52	19.45	20.5	1			
5	256QAM	14	287	19.42	19.50	19.43					
5	256QAM	14	294	19.40	19.48	19.41					
5	256QAM	14	301	19.38	19.46	19.39					
5	256QAM	14	308	19.36	19.44	19.37					
5	256QAM	14	315	19.34	19.42	19.35	20.5	1			
5	256QAM	14	322	19.32	19.40	19.33					
5	256QAM	14	329	19.30	19.38	19.31					
5	256QAM	14	336	19.28	19.36	19.29					
5	256QAM	14	343	19.26	19.34	19.27					
5	256QAM	14	350	19.24	19.32	19.25	20.5	1			
5	256QAM	14	357	19.22	19.30	19.23					
5	256QAM	14	364	19.20	19.28	19.21					

Band 38_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.25	19.29	19.25	19.8	0	
20	QPSK	1	49	19.10	19.22	19.14			
20	QPSK	1	99	19.11	19.20	19.14			
20	QPSK	50	0	19.19	19.24	19.19			
20	QPSK	50	24	19.06	19.23	19.10	19.8	0	
20	QPSK	50	50	19.09	19.12	19.17			
20	QPSK	100	0	19.08	19.14	19.07			
20	16QAM	1	0	19.16	19.21	19.15			
20	16QAM	1	49	19.13	19.20	19.18	19.8	0	
20	16QAM	1	99	19.11	19.21	19.17			
20	16QAM	50	0	19.19	19.23	19.13			
20	16QAM	50	24	19.16	19.24	19.10			
20	16QAM	50	50	19.14	19.16	19.10	19.8	0	
20	16QAM	100	0	19.12	19.21	19.12			
20	64QAM	1	0	19.17	19.21	19.18			
20	64QAM	1	49	19.13	19.17	19.18			
20	64QAM	1	99	19.17	19.22	19.19	19.8	0	
20	64QAM	50	0	19.13	19.19	19.13			
20	64QAM	50	24	19.18	19.19	19.11			
20	64QAM	50	50	19.10	19.21	19.09			
20	64QAM	100	0	19.10	19.15	19.13	19.8	0	
20	256QAM	1	0	19.11	19.23	19.19			
20	256QAM	1	49	19.17	19.18	19.14			
20	256QAM	1	99	19.14	19.17	19.10			
20	256QAM	50	0	19.20	19.24	19.14	19.8	0	
20	256QAM	50	24	19.17	19.16	19.10			
20	256QAM	50	50	19.13	19.16	19.18			
20	256QAM	100	0	19.14	19.24	19.15			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.20	19.26	19.15	19.8	0	
15	QPSK	1	37	19.07	19.08	19.09			
15	QPSK	1	74	19.06	19.05	19.09			
15	QPSK	36	0	19.10	19.18	19.13			
15	QPSK	36	20	19.08	19.08	19.08	19.8	0	
15	QPSK	36	39	19.01	19.09	19.12			
15	QPSK	75	0	19.01	19.04	19.06			
15	16QAM	1	0	19.07	19.08	19.00			
15	16QAM	1	37	19.05	19.08	19.06	19.8	0	
15	16QAM	1	74	19.06	19.07	19.04			
15	16QAM	36	0	19.08	19.12	19.08			
15	16QAM	36	20	19.10	19.12	18.95			
15	16QAM	36	39	19.09	19.06	19.00	19.8	0	
15	16QAM	75	0	19.00	19.08	19.06			
15	64QAM	1	0	19.11	19.11	19.06			
15	64QAM	1	37	19.10	19.10	19.05			
15	64QAM	1	74	19.04	19.14	19.12	19.8	0	
15	64QAM	36	0	19.00	19.12	19.05			
15	64QAM	36	20	19.13	19.13	18.88			
15	64QAM	36	39	19.02	19.08	19.04			
15	64QAM	75	0	19.03	19.01	19.08	19.8	0	
15	256QAM	1	0	19.00	19.18	19.04			
15	256QAM	1	37	19.13	19.06	19.00			
15	256QAM	1	74	19.13	19.13	19.08			
15	256QAM	36	0	19.10	19.24	19.04	19.8	0	
15	256QAM	36	20	19.02	19.12	19.09			
15	256QAM	36	39	19.07	19.12	19.18			
15	256QAM	75	0	19.00	19.14	19.02			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.12	19.21	19.11	19.8	0	
10	QPSK	1	25	19.08	19.09	19.10			
10	QPSK	1	49	19.08	19.09	19.04			
10	QPSK	25	0	19.12	19.14	19.04			
10	QPSK	25	12	19.04	19.18	19.05	19.8	0	
10	QPSK	25	25	19.03	19.02	19.12			
10	QPSK	50	0	19.06	19.06	19.00			
10	16QAM	1	0	19.04	19.08	19.03			
10	16QAM	1	25	19.08	19.11	19.13	19.8	0	
10	16QAM	1	49	19.06	19.14	19.03			
10	16QAM	25	0	19.11	19.08	19.02			
10	16QAM	25	12	19.06	19.14	19.05			
10	16QAM	25	25	19.01	19.02	19.04	19.8	0	
10	16QAM	50	0	19.00	19.12	19.00			
10	64QAM	1	0	19.11	19.14	19.07			
10	64QAM	1	25	19.01	19.03	19.09			
10	64QAM	1	49	19.11	19.11	19.06	19.8	0	
10	64QAM	25	0	19.08	19.04	19.01			
10	64QAM	25	12	19.09	19.05	19.03			
10	64QAM	25	25	19.05	19.06	19.07			
10	64QAM	50	0	19.01	19.04	19.07	19.8	0	
10	256QAM	1	0	19.08	19.16	19.16			
10	256QAM	1	25	19.06	19.06	19.12			
10	256QAM	1	49	19.07	19.04	19.10			
10	256QAM	25	0	19.05	19.22	19.04	19.8	0	
10	256QAM	25	12	19.06	19.07	19.00			
10	256QAM	25	25	19.08	19.04	19.08			
10	256QAM	50	0	19.09	19.09	19.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.12	19.19	19.13	19.8	0	
5	QPSK	1	12	18.99	19.16	19.10			
5	QPSK	1	24	19.05	19.06	19.06			
5	QPSK	12	0	19.13	19.16	19.10			
5	QPSK	12	7	19.00	19.14	19.06	19.8	0	
5	QPSK	12	13	19.03	18.97	19.10			
5	QPSK	25	0	18.94	19.04	19.01			
5	16QAM	1	0	19.05	19.16	19.10			
5	16QAM	1	24	19.05	19.06	19.05	19.8	0	
5	16QAM	12	0	19.06	19.13	19.07			
5	16QAM	12	7	19.08	19.10	19.05			
5	16QAM	12	13	19.07	19.06	19.04			
5	16QAM	25	0	19.09	19.14	19.06	19.8	0	
5	64QAM	1	0	19.06	19.10	19.13			
5	64QAM	1	12	19.02	19.03	19.07			
5	64QAM	1	24	19.08	19.17	19.07			
5	64QAM	12	0	19.00	19.14	19.08	19.8	0	
5	64QAM	12	7	19.07	19.06	19.04			
5	64QAM	12	13	19.05	19.06	19.04			
5	64QAM	25	0	19.00	19.09	19.08			
5	256QAM	1	0	18.98	19.20	19.07	19.8	0	
5	256QAM	1	12	19.13	19.11	19.04			
5	256QAM	1	24	19.09	19.14	19.07			
5	256QAM	12	0	19.07	19.15	19.13			
5	256QAM	12	7	19.03	19.01	19.09	19.8	0	
5	256QAM	12	13	19.13	19.05	19.14			
5	256QAM	25	0	19.08	19.11	19.13			

Band 38_Ant 31												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.70	24.76	24.75	25	0				
20	QPSK	1	49	24.70	24.68	24.71						
20	QPSK	1	99	24.75	24.74	24.63						
20	QPSK	5	0	23.78	23.80	23.77	24	1				
20	QPSK	50	24	23.68	23.77	23.72						
20	QPSK	50	50	23.68	23.71	23.66						
20	QPSK	100	0	23.76	23.78	23.75	23	2				
20	16QAM	100	24	23.72	23.73	23.79						
20	16QAM	1	49	23.65	23.77	23.67						
20	16QAM	1	99	23.63	23.75	23.67	23	2				
20	16QAM	50	0	22.71	22.84	22.69						
20	16QAM	50	24	22.66	22.75	22.73						
20	16QAM	50	50	22.60	22.73	22.61	22.5	2.5				
20	16QAM	100	0	22.60	22.73	22.61						
20	64QAM	100	0	22.80	22.95	22.86						
20	64QAM	1	49	22.84	22.90	22.84	21	4				
20	64QAM	1	99	22.85	22.91	22.79						
20	64QAM	50	0	22.27	22.36	22.23						
20	64QAM	50	24	22.22	22.32	22.20	22.5	2.5				
20	64QAM	50	50	22.16	22.31	22.26						
20	64QAM	100	0	22.32	22.33	22.31						
20	256QAM	1	0	20.65	20.72	20.58	21	4				
20	256QAM	1	49	20.63	20.65	20.58						
20	256QAM	1	99	20.63	20.66	20.58						
20	256QAM	50	0	20.64	20.70	20.62	21	4				
20	256QAM	50	24	20.57	20.65	20.51						
20	256QAM	50	50	20.46	20.60	20.52						
20	256QAM	100	0	20.65	20.66	20.54	25	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.70	24.76	24.67	25	0				
15	QPSK	1	37	24.61	24.64	24.69						
15	QPSK	36	0	23.66	23.71	23.74						
15	QPSK	36	20	23.57	23.64	23.59	24	1				
15	QPSK	36	39	23.56	23.63	23.65						
15	QPSK	75	0	23.62	23.73	23.75						
15	QPSK	1	0	23.57	23.75	23.75	24	1				
15	16QAM	1	37	23.60	23.70	23.58						
15	16QAM	1	74	23.61	23.74	23.64						
15	16QAM	36	0	22.59	22.76	22.54	23	2				
15	16QAM	36	20	22.65	22.70	22.62						
15	16QAM	36	39	22.67	22.72	22.60						
15	16QAM	75	0	22.56	22.70	22.53	22.5	2.5				
15	64QAM	1	0	22.76	22.88	22.76						
15	64QAM	1	37	22.82	22.75	22.80						
15	64QAM	1	74	22.76	22.90	22.68	21	4				
15	64QAM	36	0	22.16	22.26	22.16						
15	64QAM	36	20	22.15	22.20	22.06						
15	64QAM	36	39	22.03	22.23	22.20	21	4				
15	64QAM	75	0	22.27	22.21	22.28						
15	256QAM	1	0	20.59	20.68	20.53						
15	256QAM	1	49	20.58	20.59	20.46	21	4				
15	256QAM	1	74	20.42	20.53	20.48						
15	256QAM	36	0	20.62	20.67	20.54						
15	256QAM	36	20	20.52	20.55	20.41	25	0				
15	256QAM	36	39	20.36	20.47	20.41						
15	256QAM	75	0	20.55	20.59	20.50						
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.75	24.84	24.80	25	0				
10	QPSK	1	25	24.61	24.61	24.66						
10	QPSK	1	49	24.64	24.63	24.48						
10	QPSK	25	0	23.67	23.67	23.68	24	1				
10	QPSK	25	12	23.65	23.67	23.63						
10	QPSK	25	12	23.61	23.67	23.63						
10	QPSK	50	0	23.64	23.73	23.62	23	2				
10	16QAM	1	0	23.69	23.68	23.68						
10	16QAM	1	25	23.52	23.73	23.58						
10	16QAM	1	49	23.58	23.61	23.55	22.5	2.5				
10	16QAM	25	0	22.63	22.76	22.63						
10	16QAM	25	12	22.65	22.73	22.64						
10	16QAM	25	25	22.48	22.68	22.51	21	4				
10	16QAM	50	0	22.65	22.66	22.61						
10	64QAM	1	0	22.68	22.91	22.74						
10	64QAM	1	25	22.77	22.77	22.68	21	4				
10	64QAM	1	49	22.80	22.82	22.69						
10	64QAM	25	0	22.20	22.33	22.12						
10	64QAM	25	12	22.13	22.22	22.14	22.5	2.5				
10	64QAM	25	25	22.14	22.25	22.24						
10	64QAM	50	0	22.21	22.25	22.19						
10	256QAM	1	0	20.51	20.52	20.44	21	4				
10	256QAM	1	25	20.59	20.52	20.54						
10	256QAM	1	49	20.48	20.67	20.49						
10	256QAM	25	0	20.58	20.69	20.60	21	4				
10	256QAM	25	12	20.45	20.58	20.45						
10	256QAM	25	25	20.38	20.45	20.45						
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.72	24.75	24.70	25	0				
5	QPSK	1	12	24.59	24.63	24.57						
5	QPSK	1	24	24.73	24.66	24.59						
5	QPSK	12	0	23.70	23.67	23.62	24	1				
5	QPSK	12	1	23.54	23.74	23.67						
5	QPSK	12	13	23.65	23.64	23.59						
5	QPSK	25	0	23.71	23.63	23.66	23	2				
5	QPSK	25	0	23.70	23.76	23.70						
5	16QAM	1	12	23.53	23.75	23.62						
5	16QAM	12	0	23.58	23.71	23.63	22.5	2.5				
5	16QAM	12	0	22.68	22.69	22.52						
5	16QAM	12	7	22.61	22.74	22.70						
5	16QAM	12	13	22.59	22.62	22.53	21	4				
5	16QAM	25	0	22.61	22.79	22.53						
5	64QAM	1	0	22.71	22.92	22.85						
5	64QAM	1	12	22.81	22.86	22.76	22.5	2.5				
5	64QAM	1	24	22.81	22.79	22.69						
5	64QAM	12	0	22.17	22.26	22.18						
5	64QAM	12	7	22.13	22.27	22.10	21	4				
5	64QAM	12	13	22.01	22.21	22.14						
5	64QAM	25	0	22.21	22.26	22.16						
5	256QAM	1	0	20.53	20.65	20.52	21	4				
5	256QAM	1	12	20.50	20.63	20.46						
5	256QAM	1	24	20.43	20.53	20.41						
5	256QAM	12	0	20.56	20.55	20.58	21	4				
5	256QAM	12	7	20.50	20.59	20.44						
5	256QAM	12	13	20.41	20.56	20.47						
5	256QAM	25	0	20.53	20.54	20.49	21	4				
5	256QAM	25	0	20.53	20.54	20.49						
5	256QAM	25	0	20.53	20.54	20.49						

Band 41_Ant 13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Low Middle Ch./ Freq.	Power Middle Ch./ Freq.	Power High Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.99	19.38	19.42	19.37	19.40	20	0		
20	QPSK	1	49	18.96	19.36	19.29	19.30	19.25				
20	QPSK	1	99	18.96	19.33	19.36	19.29	19.31				
20	QPSK	50	0	19.00	19.20	19.33	19.22	19.25				
20	QPSK	50	24	18.93	19.24	19.18	19.14	19.13	20	0		
20	QPSK	50	50	18.98	19.24	19.21	19.19	19.14				
20	QPSK	100	0	19.00	19.14	19.21	19.11	19.16				
20	16QAM	1	0	18.98	19.29	19.30	19.22	19.35	20	0		
20	16QAM	1	49	19.00	19.30	19.30	19.26	19.30				
20	16QAM	1	99	19.01	19.23	19.28	19.31	19.34				
20	16QAM	50	0	19.03	19.33	19.33	19.33	19.36				
20	16QAM	50	24	19.01	19.23	19.36	19.28	19.28	20	0		
20	16QAM	50	50	19.02	19.31	19.34	19.25	19.33				
20	16QAM	100	0	18.99	19.27	19.28	19.36	19.40				
20	64QAM	1	0	19.06	19.32	19.37	19.33	19.25	20	0		
20	64QAM	1	49	19.06	19.25	19.32	19.30	19.40				
20	64QAM	1	99	19.00	19.29	19.28	19.25	19.29				
20	64QAM	50	0	19.02	19.26	19.37	19.25	19.33				
20	64QAM	50	24	19.00	19.25	19.37	19.28	19.29	20	0		
20	64QAM	50	50	19.00	19.32	19.35	19.22	19.37				
20	64QAM	100	0	19.01	19.30	19.33	19.33	19.37				
20	256QAM	1	0	19.03	19.27	19.33	19.27	19.26	20	0		
20	256QAM	1	49	19.03	19.27	19.35	19.34	19.33				
20	256QAM	1	99	19.01	19.24	19.28	19.23	19.25				
20	256QAM	50	0	18.99	19.32	19.36	19.24	19.31	20	0		
20	256QAM	50	24	18.96	19.33	19.29	19.36	19.40				
20	256QAM	50	50	18.99	19.32	19.28	19.33	19.34				
20	256QAM	100	0	19.00	19.31	19.33	19.24	19.36				
Channel												
Frequency (MHz)												
30	QPSK	1	0	19.025	40.173	40.820	41.068	41.515	20	0		
30	QPSK	1	49	19.025	40.173	40.820	41.068	41.515				
15	QPSK	1	0	18.850	19.36	19.36	19.23	19.35	20	0		
15	QPSK	1	37	18.85	19.16	19.20	19.24	19.20				
15	QPSK	1	74	18.88	19.22	19.30	19.16	19.23				
15	QPSK	36	0	18.95	19.21	19.19	19.21	19.24	20	0		
15	QPSK	36	20	18.83	19.11	19.06	19.23	19.33				
15	QPSK	36	39	18.91	19.10	19.12	19.12	19.02				
15	QPSK	75	0	18.86	19.03	19.07	19.08	19.13	20	0		
15	16QAM	1	0	18.93	19.20	19.15	19.07	19.34				
15	16QAM	1	37	18.86	19.18	19.18	19.24	19.18	20	0		
15	16QAM	1	74	18.93	19.08	19.15	19.17	19.32				
15	16QAM	36	0	18.89	19.18	19.16	19.23	19.34	20	0		
15	16QAM	36	20	18.95	19.12	19.29	19.23	19.22				
15	16QAM	36	39	18.89	19.16	19.20	19.10	19.26	20	0		
15	16QAM	75	0	18.86	19.13	19.23	19.26	19.33				
15	64QAM	1	0	18.99	19.18	19.32	19.27	19.18	20	0		
15	64QAM	1	37	18.91	19.17	19.21	19.23	19.18				
15	64QAM	1	74	18.94	19.16	19.23	19.10	19.28	20	0		
15	64QAM	36	0	18.88	19.18	19.26	19.23	19.30				
15	64QAM	36	20	18.92	19.10	19.32	19.24	19.22	20	0		
15	64QAM	36	39	18.86	19.18	19.22	19.08	19.36				
15	64QAM	75	0	18.90	19.19	19.24	19.26	19.29	20	0		
15	256QAM	1	0	18.86	19.14	19.24	19.23	19.15				
15	256QAM	1	37	19.02	19.18	19.34	19.25	19.25	20	0		
15	256QAM	1	74	18.93	19.19	19.17	19.19	19.17				
15	256QAM	36	0	18.99	19.24	19.29	19.12	19.20	20	0		
15	256QAM	36	20	18.89	19.28	19.16	19.25	19.39				
15	256QAM	36	39	18.99	19.27	19.15	19.27	19.28	20	0		
15	256QAM	75	0	18.93	19.26	19.33	19.09	19.24				
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.021	25.647	26.03	26.39	26.68	20	0		
10	QPSK	1	25	18.86	19.21	19.14	19.16	19.11				
10	QPSK	1	49	18.82	19.22	19.31	19.17	19.31	20	0		
10	QPSK	25	0	19.01	19.21	19.26	19.17	19.15				
10	QPSK	25	12	18.81	19.15	19.04	19.06	18.99	20	0		
10	QPSK	25	25	18.88	19.17	19.09	19.17	19.01				
10	QPSK	50	0	18.90	18.99	19.13	19.08	19.02	20	0		
10	16QAM	1	0	18.85	19.17	19.21	19.14	19.35				
10	16QAM	1	25	18.95	19.22	19.22	19.17	19.19	20	0		
10	16QAM	1	49	18.94	19.09	19.23	19.29	19.23				
10	16QAM	25	0	18.92	19.23	19.18	19.23	19.27	20	0		
10	16QAM	25	12	18.92	19.14	19.26	19.26	19.13				
10	16QAM	25	25	18.88	19.21	19.23	19.15	19.30	20	0		
10	16QAM	50	0	18.94	19.14	19.22	19.36	19.34				
10	64QAM	1	0	18.90	19.26	19.32	19.23	19.17	20	0		
10	64QAM	1	25	18.91	19.12	19.20	19.23	19.17				
10	64QAM	1	49	18.90	19.18	19.13	19.23	19.26	20	0		
10	64QAM	25	0	18.88	19.18	19.22	19.24	19.32				
10	64QAM	25	12	18.90	19.15	19.23	19.24	19.20	20	0		
10	64QAM	25	25	18.85	19.21	19.27	19.21	19.25				
10	64QAM	50	0	18.89	19.22	19.19	19.25	19.30	20	0		
10	256QAM	1	0	19.00	19.17	19.23	19.37	19.16				
10	256QAM	1	25	19.03	19.19	19.25	19.31	19.25	20	0		
10	256QAM	1	49	18.90	19.21	19.21	19.20	19.11				
10	256QAM	25	0	18.85	19.19	19.21	19.16	19.27	20	0		
10	256QAM	25	12	18.91	19.24	19.22	19.32	19.25				
10	256QAM	25	25	18.98	19.23	19.20	19.23	19.31	20	0		
10	256QAM	50	0	18.90	19.22	19.30	19.13	19.32				
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.04	19.28	19.37	19.33	19.34	20	0		
5	QPSK	1	12	18.89	19.20	19.16	19.15	19.25				
5	QPSK	1	24	18.91	19.22	19.28	19.26	19.19	20	0		
5	QPSK	12	0	18.96	19.17	19.22	19.17	19.15				
5	QPSK	12	7	18.83	19.09	19.10	19.07	19.11	20	0		
5	QPSK	12	13	18.89	19.14	19.07	19.11	19.09				
5	QPSK	25	0	18.88	19.08	19.09	19.06	19.03	20	0		
5	16QAM	1	0	18.89	19.20	19.22	19.21	19.20				
5	16QAM	1	12	18.92	19.20	19.15	19.20	19.27	20	0		
5	16QAM	12	0	18.90	19.12	19.19	19.21	19.19				
5	16QAM	12	7	18.88	19.11	19.24	19.19	19.24	20	0		
5	16QAM	12	13	18.96	19.22	19.28	19.22	19.31				
5	16QAM	25	0	18.92	19.22	19.19	19.28	19.25	20	0		
5	16QAM	1	0	18.99	19.20	19.23	19.24	19.23				
5	64QAM	1	12	18.93	19.10	19.23	19.27	19.26	20	0		
5	64QAM	1	24	18.87	19.23	19.18	19.17	19.17				
5	64QAM	12	0	18.90	19.12	19.22	19.23	19.24	20	0		
5	64QAM	12	7	18.91	19.12	19.24	19.25	19.19				
5	64QAM	12	13	18.85	19.17	19.26	19.21	19.30	20	0		
5	64QAM	25	0	18.91	19.25	19.29	19.33	19.32				
5	256QAM	1	0	18.88	19.22	19.18	19.33	19.26	20	0		
5	256QAM	1	12	18.90	19.19	19.24	19.28	19.24	20	0		
5	256QAM	1	24	18.93	19.19	19.20	19.15	19.25	20	0		
5	256QAM	12	0	18.88	19.30	19.24	19.09	19.28	20	0		
5	256QAM	12	7	18.90	19.17	19.23	19.21	19.19	20	0		
5	256QAM	12	13	18.96	19.26	19.22	19.21	19.34	20	0		
5	256QAM	25	0	18.85	19.21	19.21	19.19	19.35	20	0		

Reduced Power Mode for ECI 4

GSM1900_Ant 13		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel		512	661	810		512	661	810	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		32.15	32.16	32.13	33.50	23.15	23.16	23.13	24.50
GPRS/EDGE GMSK 1 Tx slot		32.13	32.15	32.11	33.50	23.13	23.15	23.11	24.50
GPRS/EDGE GMSK 2 Tx slots		30.11	30.13	30.10	31.50	24.11	24.13	24.10	25.50
GPRS/EDGE GMSK 3 Tx slots		27.88	27.90	27.86	29.50	23.62	23.64	23.60	25.24
GPRS/EDGE GMSK 4 Tx slots		26.26	26.28	26.25	28.00	23.28	23.28	23.25	25.00
EDGE BPSK 1 Tx slot		26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50
EDGE BPSK 2 Tx slots		24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00
EDGE BPSK 3 Tx slots		22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74
EDGE BPSK 4 Tx slots		20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00

GSM1900_Ant 13		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel		512	661	810		512	661	810	
Frequency (MHz)		1623.2	1635.4	1647.6		1623.2	1635.4	1647.6	
GSM 1 Tx slot		29.16	29.18	29.13	30.50	20.16	20.18	20.13	21.50
GPRS/EDGE GMSK 1 Tx slot		29.13	29.15	29.11	30.50	20.13	20.15	20.11	21.50
GPRS/EDGE GMSK 2 Tx slots		27.27	27.30	27.25	28.00	21.27	21.30	21.25	22.00
GPRS/EDGE GMSK 3 Tx slots		25.03	25.05	25.01	25.50	20.77	20.79	20.75	21.24
GPRS/EDGE GMSK 4 Tx slots		23.36	23.38	23.35	24.50	20.36	20.38	20.35	21.50
EDGE BPSK 1 Tx slot		25.71	25.73	25.70	26.50	16.71	16.73	16.70	17.50
EDGE BPSK 2 Tx slots		23.73	23.76	23.71	24.50	17.73	17.76	17.71	18.50
EDGE BPSK 3 Tx slots		21.71	21.73	21.68	22.50	17.45	17.47	17.42	18.24
EDGE BPSK 4 Tx slots		20.10	20.12	20.08	21.00	17.10	17.12	17.08	18.00

Band		WCDMA R_Ant 13			Tune-up Limit (dBm)	WCDMA R_Ant 31			Tune-up Limit (dBm)
Tx Channel		9262	9400	9538		9262	9400	9538	
Rx Channel		9662	9800	9938		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	22.26	22.28	22.25	23.70	20.49	20.43	20.39	21.20
3GPP Rel 99	AMR 12.2Kbps	22.26	22.30	22.26	23.70	20.46	20.51	20.47	21.20
3GPP Rel 6	HSDPA Subtest-1	22.20	22.15	22.14	23.70	20.35	20.38	20.34	21.20
3GPP Rel 6	HSDPA Subtest-2	22.11	22.27	22.17	23.70	20.35	20.41	20.42	21.20
3GPP Rel 6	HSDPA Subtest-3	22.16	21.93	22.25	23.50	20.37	20.37	20.39	21.20
3GPP Rel 6	HSDPA Subtest-4	22.15	21.91	22.21	23.50	20.38	20.46	20.36	21.20
3GPP Rel 6	DC-HSDPA Subtest-1	22.17	22.18	22.22	23.70	20.40	20.40	20.32	21.20
3GPP Rel 6	DC-HSDPA Subtest-2	22.14	22.24	22.23	23.70	20.33	20.44	20.32	21.20
3GPP Rel 6	DC-HSDPA Subtest-3	22.08	21.90	22.17	23.50	20.31	20.37	20.37	21.20
3GPP Rel 6	DC-HSDPA Subtest-4	22.09	21.79	22.09	23.50	20.36	20.39	20.35	21.20
3GPP Rel 6	HSUPA Subtest-1	20.65	20.46	20.64	22.00	20.37	20.46	20.42	21.20
3GPP Rel 6	HSUPA Subtest-2	20.70	20.42	20.65	22.00	20.35	20.42	20.35	21.20
3GPP Rel 6	HSUPA Subtest-3	21.69	21.44	21.66	23.00	20.33	20.39	20.35	21.20
3GPP Rel 6	HSUPA Subtest-4	20.21	19.92	20.24	21.50	20.40	20.36	20.42	21.20
3GPP Rel 6	HSUPA Subtest-5	21.70	21.40	21.70	23.00	20.40	20.41	20.39	21.20
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.77	19.98	19.92	21.50	20.41	20.40	20.41	21.20

Band		WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)
Tx Channel		4132	4162	4233		4132	4162	4233	
Rx Channel		4367	4407	4458		4367	4407	4458	
Frequency (MHz)		824.4	836.4	848.8		824.4	836.4	848.8	
3GPP Rel 99	AMR 12.2Kbps	23.53	23.58	23.51	25.00	23.53	23.58	23.51	25.00
3GPP Rel 99	AMR 12.2Kbps	23.55	23.60	23.53	25.00	23.85	23.90	23.83	25.00
3GPP Rel 6	HSDPA Subtest-1	22.66	22.59	22.54	24.00	23.08	23.01	22.96	24.00
3GPP Rel 6	HSDPA Subtest-2	22.62	22.61	22.52	24.00	23.03	23.02	22.99	24.00
3GPP Rel 6	HSDPA Subtest-3	22.21	22.14	22.06	23.50	22.62	22.59	22.52	23.50
3GPP Rel 6	HSDPA Subtest-4	22.12	22.12	22.05	23.50	22.66	22.55	22.47	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.53	22.44	22.52	24.00	22.98	22.93	22.83	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.53	22.48	22.38	24.00	22.93	23.00	22.84	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.18	22.04	21.98	23.50	22.57	22.54	22.40	23.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.02	22.03	21.94	23.50	22.49	22.45	22.40	23.50
3GPP Rel 6	HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96	22.00
3GPP Rel 6	HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	21.60	21.63	21.55	23.00	21.98	22.02	21.97	23.00
3GPP Rel 6	HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43	21.50
3GPP Rel 6	HSUPA Subtest-5	21.60	21.60	21.50	23.00	22.00	22.00	21.90	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.17	20.20	20.15	21.50	20.55	20.66	20.62	21.50

GSM1900_Ant 31		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel		512	661	810		512	661	810	
Frequency (MHz)		1623.2	1635.4	1647.6		1623.2	1635.4	1647.6	
GSM 1 Tx slot		29.57	29.60	29.55	30.20	20.57	20.60	20.55	21.20
GPRS/EDGE GMSK 1 Tx slot		29.55	29.58	29.53	30.20	20.55	20.58	20.53	21.20
GPRS/EDGE GMSK 2 Tx slots		26.53	26.55	26.51	26.70	20.53	20.55	20.51	20.70
GPRS/EDGE GMSK 3 Tx slots		24.30	24.31	24.30	24.40	20.04	20.05	20.04	20.14
GPRS/EDGE GMSK 4 Tx slots		23.09	23.07	23.06	23.50	20.09	20.07	20.06	20.50
EDGE BPSK 1 Tx slot		26.18	26.21	26.16	26.50	17.18	17.21	17.16	17.50
EDGE BPSK 2 Tx slots		24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots		22.20	22.23	22.17	22.50	17.84	17.97	17.91	18.24
EDGE BPSK 4 Tx slots		20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band		WCDMA N_Ant 13			Tune-up Limit (dBm)	WCDMA N_Ant 31			Tune-up Limit (dBm)
Tx Channel		1312	1413	1513		1312	1413	1513	
Rx Channel		1537	1638	1738		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.38	23.53	23.33	24.70	21.63	21.81	21.52	22.20
3GPP Rel 99	AMR 12.2Kbps	23.40	23.55	23.35	24.70	21.72	21.90	21.60	22.20
3GPP Rel 6	HSDPA Subtest-1	22.40	22.55	22.22	24.00	21.61	21.78	21.49	22.20
3GPP Rel 6	HSDPA Subtest-2	22.37	22.54	22.20	24.00	21.61	21.79	21.47	22.20
3GPP Rel 6	HSDPA Subtest-3	21.93	22.09	21.70	23.50	21.57	21.81	21.55	22.20
3GPP Rel 6	HSDPA Subtest-4	21.90	22.02	21.71	23.50	21.65	21.85	21.49	22.20
3GPP Rel 6	DC-HSDPA Subtest-1	22.26	22.53	22.10	24.00	21.63	21.85	21.49	22.20
3GPP Rel 6	DC-HSDPA Subtest-2	22.24	22.48	22.07	24.00	21.65	21.82	21.53	22.20
3GPP Rel 6	DC-HSDPA Subtest-3	21.79	22.05	21.61	23.50	21.66	21.79	21.53	22.20
3GPP Rel 6	DC-HSDPA Subtest-4	21.77	21.96	21.63	23.50	21.66	21.85	21.48	22.20
3GPP Rel 6	HSUPA Subtest-1	20.38	20.58	20.23	22.00	21.08	21.26	20.96	22.00
3GPP Rel 6	HSUPA Subtest-2	20.38	20.56	20.19	22.00	21.13	21.27	21.04	22.00
3GPP Rel 6	HSUPA Subtest-3	21.44	21.60	21.22	23.00	21.61	21.85	21.48	22.20
3GPP Rel 6	HSUPA Subtest-4	19.97	20.09	19.78	21.50	20.62	20.66	20.46	21.50
3GPP Rel 6	HSUPA Subtest-5	21.40	21.60	21.20	23.00	21.57	21.80	21.52	22.20
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.92	20.00	19.89	21.50	20.68	20.73	20.65	21.50

Band 2_Ant 13										Band 2_Ant 31										Band 4_Ant 13										Band 4_Ant 31									
RF [MHz]	Modulation	RB Size	RB Offset	Power [Ch / Freq]	Power [Ch / Freq]	Power [Ch / Freq]	Turn-on time (min)	MFR (dB)		RF [MHz]	Modulation	RB Size	RB Offset	Power [Ch / Freq]	Power [Ch / Freq]	Power [Ch / Freq]	Turn-on time (min)	MFR (dB)		RF [MHz]	Modulation	RB Size	RB Offset	Power [Ch / Freq]	Power [Ch / Freq]	Power [Ch / Freq]	Turn-on time (min)	MFR (dB)		RF [MHz]	Modulation	RB Size	RB Offset	Power [Ch / Freq]	Power [Ch / Freq]	Power [Ch / Freq]	Turn-on time (min)	MFR (dB)	
Channel										Channel										Channel										Channel									
Frequency [MHz]										Frequency [MHz]										Frequency [MHz]										Frequency [MHz]									
20	QPSK	1	0	22.24	22.28	22.32	23.3	0		20	QPSK	1	0	20.20	20.24	20.28	20.8	0		20	QPSK	1	0	23.24	23.28	23.32	24.8	0		20	QPSK	1	0	17.20	17.24	17.28	21	0	
20	QPSK	1	48	22.24	22.28	22.32	23.3	0		20	QPSK	1	48	20.20	20.24	20.28	20.8	0		20	QPSK	1	48	23.24	23.28	23.32	24.8	0		20	QPSK	1	48	17.20	17.24	17.28	21	0	
20	QPSK	1	96	22.24	22.28	22.32	23.3	0		20	QPSK	1	96	20.20	20.24	20.28	20.8	0		20	QPSK	1	96	23.24	23.28	23.32	24.8	0		20	QPSK	1	96	17.20	17.24	17.28	21	0	
20	QPSK	50	0	22.08	22.12	22.16	23.3	0		20	QPSK	50	0	20.16	20.20	20.24	20.8	0		20	QPSK	50	0	23.20	23.24	23.28	23.8	1		20	QPSK	50	0	17.16	17.20	17.24	21	0	
20	QPSK	50	48	22.08	22.12	22.16	23.3	0		20	QPSK	50	48	20.16	20.20	20.24	20.8	0		20	QPSK	50	48	23.20	23.24	23.28	23.8	1		20	QPSK	50	48	17.16	17.20	17.24	21	0	
20	QPSK	50	96	22.08	22.12	22.16	23.3	0		20	QPSK	50	96	20.16	20.20	20.24	20.8	0		20	QPSK	50	96	23.20	23.24	23.28	23.8	1		20	QPSK	50	96	17.16	17.20	17.24	21	0	
20	QPSK	100	0	22.07	22.11	22.08	23.3	0		20	QPSK	100	0	20.15	20.19	20.16	20.8	0		20	QPSK	100	0	23.19	23.23	23.20	23.8	1		20	QPSK	100	0	17.15	17.19	17.16	21	0	
20	QPSK	100	48	22.07	22.11	22.08	23.3	0		20	QPSK	100	48	20.15	20.19	20.16	20.8	0		20	QPSK	100	48	23.19	23.23	23.20	23.8	1		20	QPSK	100	48	17.15	17.19	17.16	21	0	
20	QPSK	100	96	22.07	22.11	22.08	23.3	0		20	QPSK	100	96	20.15	20.19	20.16	20.8	0		20	QPSK	100	96	23.19	23.23	23.20	23.8	1		20	QPSK	100	96	17.15	17.19	17.16	21	0	
20	QPSK	150	0	22.03	22.13	22.08	23.3	0		20	QPSK	150	0	20.11	20.17	20.14	20.8	0		20	QPSK	150	0	23.15	23.25	23.20	23.8	1		20	QPSK	150	0	17.11	17.21	17.16	21	0	
20	QPSK	150	48	22.03	22.13	22.08	23.3	0		20	QPSK	150	48	20.11	20.17	20.14	20.8	0		20	QPSK	150	48	23.15	23.25	23.20	23.8	1		20	QPSK	150	48	17.11	17.21	17.16	21	0	
20	QPSK	150	96	22.03	22.13	22.08	23.3	0		20	QPSK	150	96	20.11	20.17	20.14	20.8	0		20	QPSK	150	96	23.15	23.25	23.20	23.8	1		20	QPSK	150	96	17.11	17.21	17.16	21	0	
20	QPSK	150	144	22.03	22.13	22.08	23.3	0		20	QPSK	150	144	20.11	20.17	20.14	20.8	0		20	QPSK	150	144	23.15	23.25	23.20	23.8	1		20	QPSK	150	144	17.11	17.21	17.16	21	0	
20	QPSK	150	192	22.03	22.13	22.08	23.3	0		20	QPSK	150	192	20.11	20.17	20.14	20.8	0		20	QPSK	150	192	23.15	23.25	23.20	23.8	1		20	QPSK	150	192	17.11	17.21	17.16	21	0	
20	QPSK	150	240	22.03	22.13	22.08	23.3	0		20	QPSK	150	240	20.11	20.17	20.14	20.8	0		20	QPSK	150	240	23.15	23.25	23.20	23.8	1		20	QPSK	150	240	17.11	17.21	17.16	21	0	
20	QPSK	150	288	22.03	22.13	22.08	23.3	0		20	QPSK	150	288	20.11	20.17	20.14	20.8	0		20	QPSK	150	288	23.15	23.25	23.20	23.8	1		20	QPSK	150	288	17.11	17.21	17.16	21	0	
20	QPSK	150	336	22.03	22.13	22.08	23.3	0		20	QPSK	150	336	20.11	20.17	20.14	20.8	0		20	QPSK	150	336	23.15	23.25	23.20	23.8	1		20	QPSK	150	336	17.11	17.21	17.16	21	0	
20	QPSK	150	384	22.03	22.13	22.08	23.3	0		20	QPSK	150	384	20.11	20.17	20.14	20.8	0		20	QPSK	150	384	23.15	23.25	23.20	23.8	1		20	QPSK	150	384	17.11	17.21	17.16	21	0	
20	QPSK	150	432	22.03	22.13	22.08	23.3	0		20	QPSK	150	432	20.11	20.17	20.14	20.8	0		20	QPSK	150	432	23.15	23.25	23.20	23.8	1		20	QPSK	150	432	17.11	17.21	17.16	21	0	
20	QPSK	150	480	22.03	22.13	22.08	23.3	0		20	QPSK	150	480	20.11	20.17	20.14	20.8	0		20	QPSK	150	480	23.15	23.25	23.20	23.8	1		20	QPSK	150	480	17.11	17.21	17.16	21	0	
20	QPSK	150	528	22.03	22.13	22.08	23.3	0		20	QPSK	150	528	20.11	20.17	20.14	20.8	0		20	QPSK	150	528	23.15	23.25	23.20	23.8	1		20	QPSK	150	528	17.11	17.21	17.16	21	0	
20	QPSK	150	576	22.03	22.13	22.08	23.3	0		20	QPSK	150	576	20.11	20.17	20.14	20.8	0		20	QPSK	150	576	23.15	23.25	23.20	23.8	1		20	QPSK	150	576	17.11	17.21	17.16	21	0	
20	QPSK	150	624	22.03	22.13	22.08	23.3	0		20	QPSK	150	624	20.11	20.17	20.14	20.8	0		20	QPSK	150	624	23.15	23.25	23.20	23.8	1		20	QPSK	150	624	17.11	17.21	17.16	21	0	
20	QPSK	150	672	22.03	22.13	22.08	23.3	0		20	QPSK	150	672	20.11	20.17	20.14	20.8	0		20	QPSK	150	672	23.15	23.25	23.20	23.8	1		20	QPSK	150	672	17.11	17.21	17.16	21	0	
20	QPSK	150	720	22.03	22.13	22.08	23.3	0		20	QPSK	150	720	20.11	20.17	20.14	20.8	0		20	QPSK	150	720	23.15	23.25	23.20	23.8	1		20	QPSK	150	720	17.11	17.21	17.16	21	0	
20	QPSK	150	768	22.03	22.13	22.08	23.3	0		20	QPSK	150	768	20.11	20.17	20.14	20.8	0		20	QPSK	150	768	23.15	23.25	23.20	23.8	1		20	QPSK	150	768	17.11	17.21	17.16	21	0	
20	QPSK	150	816	22.03	22.13	22.08	23.3	0		20	QPSK	150	816	20.11	20.17	20.14	20.8	0		20	QPSK	150	816	23.15	23.25	23.20	23.8	1		20	QPSK	150	816	17.11	17.21	17.16	21	0	
20	QPSK	150	864	22.03	22.13	22.08	23.3	0		20	QPSK	150	864	20.11	20.17	20.14	20.8	0		20	QPSK	150	864	23.15	23.25	23.20	23.8	1		20	QPSK	150	864	17.11	17.21	17.16	21	0	
20	QPSK	150	912	22.03	22.13	22.08	23.3	0		20	QPSK	150	912	20.11	20.17	20.14	20.8	0		20	QPSK	150	912	23.15	23.25	23.20	23.8	1		20	QPSK	150	912	17.11	17.21	17.16	21	0	
20	QPSK	150	960	22.03	22.13	22.08	23.3	0		20	QPSK	150	960	20.11	20.17	20.14	20.8	0		20	QPSK	150	960	23.15	23.25	23.20	23.8	1		20	QPSK	150	960	17.11	17.21	17.16	21	0	
20	QPSK	150	1008	22.03	22.13	22.08	23.3	0		20	QPSK	150	1008	20.11	20.17	20.14	20.8	0		20	QPSK	150	1008	23.15	23.25	23.20	23.8	1		20	QPSK	150	1008	17.11	17.21	17.16	21	0	
20	QPSK	150	1056	22.03	22.13	22.08	23.3	0		20	QPSK	150	1056	20.11	20.17	20.14	20.8	0		20	QPSK	150	1056	23.15	23.25	23.20	23.8	1		20	QPSK	150	1056	17.11	17.21	17.16	21	0	
20	QPSK	150	1104	22.03	22.13	22.08	23.3	0		20	QPSK	150	1104	20.11	20.17	20.14	20.8	0		20	QPSK	150	1104	23.15	23.25	23.20	23.8	1		20	QPSK	150	1104	17.11	17.21	17.16	21	0	
20	QPSK	150	1152	22.03	22.13	22.08	23.3	0		20	QPSK	150	1152	20.11	20.17	20.14	20.8	0		20	QPSK	150	1152	23.15	23.25	23.20	23.8	1		20	QPSK	150	1152	17.11	17.21	17.16	21	0	
20	QPSK	150	1200	22.03	22.13	22.08	23.3	0		20	QPSK	150	1200	20.11	20.17	20.14	20.8	0		20	QPSK	150	1200	23.15	23.25	23.20	23.8	1		20	QPSK	150	1200	17.11	17.21	17.16	21	0	
20	QPSK	150	1248	22.03	22.13	22.08	23.3	0		20	QPSK	150	1248	20.11	20.17	20.14	20.8	0		20	QPSK	150	1248	23.15	23.25	23.20	23.8	1		20	QPSK	150	1248	17.11	17.21	17.16	21	0	
20	QPSK	150	1296	22.03	22.13	22.																																	

Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Time-use (int)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.55	24.55	24.55				
20	QPSK	1	48	24.11	24.22	24.17	25	0		
20	QPSK	1	96	24.20	24.14	24.19				
20	QPSK	50	0	23.13	23.27	23.20				
20	QPSK	50	24	23.13	23.15	23.12	24	1		
20	QPSK	50	50	23.28	23.19	23.22				
20	HQAM	1	5	23.28	23.40	23.34				
20	HQAM	1	49	23.10	23.20	23.28	24	1		
20	HQAM	1	99	23.20	23.33	23.32				
20	HQAM	50	0	23.23	23.25	23.26				
20	HQAM	50	24	23.27	23.31	23.27	23	2		
20	HQAM	50	50	23.19	23.33	23.32				
20	HQAM	100	0	23.23	23.23	23.23				
20	HQAM	100	5	23.28	23.28	23.27				
20	HQAM	1	49	22.78	22.90	22.82	23	2		
20	HQAM	1	99	22.82	22.82	22.84				
20	HQAM	50	0	21.82	21.88	21.85				
20	HQAM	50	24	21.85	21.86	21.88	22	3		
20	HQAM	50	50	21.78	21.83	21.77				
20	SSBDM	1	0	20.38	20.47	20.40				
20	SSBDM	1	49	20.37	20.40	20.31	20.5	4.5		
20	SSBDM	1	99	20.42	20.43	20.38				
20	SSBDM	50	0	20.30	20.38	20.34				
20	SSBDM	50	24	20.38	20.31	20.21	20.5	4.5		
20	SSBDM	50	50	20.23	20.33	20.34				
20	SSBDM	100	0	20.28	20.35	20.30				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.18	24.18	24.17				
15	QPSK	1	37	23.88	24.15	24.07	25	0		
15	QPSK	1	74	24.12	24.12	24.12				
15	QPSK	36	0	23.27	23.15	23.17				
15	QPSK	36	20	23.08	23.23	23.15	24	1		
15	QPSK	36	40	23.13	23.04	23.12				
15	QPSK	75	0	23.21	23.17	23.15				
15	HQAM	1	5	23.12	23.31	23.23				
15	HQAM	1	25	23.02	23.25	23.18	24	1		
15	HQAM	1	74	23.18	23.23	23.17				
15	HQAM	36	0	22.25	22.34	22.21				
15	HQAM	36	20	22.12	22.25	22.18	23	2		
15	HQAM	36	26	22.08	22.20	22.17				
15	HQAM	75	0	22.17	22.22	22.20				
15	HQAM	75	5	22.87	22.89	22.81	23	2		
15	HQAM	1	37	22.72	22.77	22.75				
15	HQAM	1	74	22.75	22.80	22.77				
15	HQAM	36	0	21.17	21.24	21.19				
15	HQAM	36	20	21.67	21.74	21.71	22	3		
15	SSBDM	1	0	20.52	20.46	20.25				
15	SSBDM	1	37	20.51	20.52	20.48	20.5	4.5		
15	SSBDM	1	74	20.38	20.42	20.13				
15	SSBDM	36	0	20.20	20.25	20.22				
15	SSBDM	36	20	20.27	20.27	20.25	20.5	4.5		
15	SSBDM	36	26	20.15	20.21	20.17				
15	SSBDM	75	0	20.18	20.24	20.21				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.50	24.50	24.50				
5	QPSK	1	25	24.00	24.14	24.08	25	0		
5	QPSK	1	50	24.13	24.13	24.13				
5	QPSK	25	0	23.18	23.18	23.18				
5	QPSK	25	12	23.08	23.16	23.09	24	1		
5	QPSK	25	25	23.12	23.03	23.10				
5	QPSK	50	0	23.21	23.14	23.11				
5	HQAM	1	5	23.21	23.32	23.26	24	1		
5	HQAM	1	25	23.12	23.25	23.21				
5	HQAM	1	49	23.18	23.21	23.17				
5	HQAM	25	0	22.18	22.25	22.23				
5	HQAM	25	12	22.07	22.20	22.14	23	2		
5	HQAM	25	25	22.10	22.19	22.12				
5	HQAM	50	0	22.13	22.22	22.22				
5	HQAM	50	12	22.08	22.24	22.12				
5	HQAM	1	25	22.84	22.89	22.77	23	2		
5	HQAM	1	49	22.81	22.80	22.80				
5	HQAM	25	0	21.82	21.82	21.83				
5	HQAM	25	12	21.57	21.65	21.67	22	3		
5	HQAM	25	25	21.54	21.73	21.61				
5	SSBDM	1	0	20.38	20.40	20.37				
5	SSBDM	1	49	20.37	20.35	20.32	20.5	4.5		
5	SSBDM	1	99	20.35	20.40	20.15				
5	SSBDM	25	0	20.17	20.27	20.16				
5	SSBDM	25	12	20.22	20.22	20.20	20.5	4.5		
5	SSBDM	25	25	20.15	20.21	20.20				
5	SSBDM	50	0	20.18	20.27	20.21				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.18	24.17	24.15				
3	QPSK	1	8	24.03	24.16	24.13	25	0		
3	QPSK	1	14	24.13	24.02	24.05				
3	QPSK	8	0	23.25	23.17	23.13				
3	QPSK	8	4	23.09	23.26	23.14	24	1		
3	QPSK	14	0	23.24	23.11	23.14				
3	QPSK	15	0	23.21	23.17	23.12				
3	HQAM	1	5	23.15	23.26	23.30	24	1		
3	HQAM	1	8	23.02	23.17	23.24				
3	HQAM	1	14	23.09	23.31	23.27				
3	HQAM	8	0	22.27	22.24	22.19				
3	HQAM	8	4	22.11	22.27	22.08	23	2		
3	HQAM	8	7	22.10	22.29	22.25				
3	HQAM	15	0	22.10	22.22	22.18				
3	HQAM	15	5	22.82	22.80	22.78				
3	HQAM	1	8	22.68	22.87	22.80	23	2		
3	HQAM	1	14	22.81	22.88	22.79				
3	HQAM	1	21	21.78	21.76	21.81				
3	HQAM	8	4	21.62	21.66	21.62	22	3		
3	HQAM	7	0	21.67	21.77	21.71				
3	HQAM	15	0	21.68	21.76	21.62				
3	SSBDM	1	0	20.28	20.44	20.25				
3	SSBDM	1	8	20.17	20.26	20.22	20.5	4.5		
3	SSBDM	1	14	20.28	20.41	20.23				
3	SSBDM	8	0	20.21	20.26	20.19				
3	SSBDM	8	4	20.22	20.26	20.22	20.5	4.5		
3	SSBDM	15	0	20.13	20.28	20.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.18	24.17	24.15				
1.4	QPSK	1	3	23.96	24.17	24.01	25	0		
1.4	QPSK	1	6	24.13	24.07	24.16				
1.4	QPSK	3	0	24.19	24.10	24.11				
1.4	QPSK	3	1	24.02	24.16	24.08				
1.4	QPSK	14	0	24.10	24.12	24.12				
1.4	QPSK	6	0	23.22	23.09	23.24	24	1		
1.4	HQAM	1	5	23.26	23.16	23.16				
1.4	HQAM	3	0	23.11	23.05	23.17				
1.4	HQAM	1	5	23.19	23.25	23.13	24	1		
1.4	HQAM	3	0	23.15	23.28	23.33				
1.4	HQAM	3	1	23.02	23.27	23.15	23	2		
1.4	HQAM	3	3	23.09	23.26	23.27				
1.4	HQAM	6	0	22.23	22.30	22.22				
1.4	HQAM	6	1	22.11	22.23	22.16				
1.4	HQAM	1	3	22.11	22.24	22.19				
1.4	HQAM	1	5	22.23	22.32	22.29	23	2		
1.4	HQAM	1	3	22.30	22.30	22.17				
1.4	HQAM	3	1	22.19	22.16	22.11				
1.4	HQAM	3	3	22.06	22.21	22.30	22	3		
1.4	HQAM	3	5	21.75	21.68	21.70				
1.4	SSBDM	1	0	20.28	20.39	20.21				
1.4	SSBDM	1	3	20.21	20.26	20.24	20.5	4.5		
1.4	SSBDM	1	5	20.28	20.41	20.21				
1.4	SSBDM	3	0	20.21	20.26	20.24				
1.4	SSBDM	3	1	20.22	20.26	20.22	20.5	4.5		
1.4	SSBDM	6	0	20.13	20.34	20.25				

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Band 7_Ant 31										
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on time (min)	MFR (dB)		
Channel				2050	2150	2150				
Frequency (MHz)				2050	2150	2150				
30	QPSK	1	0	21.93	21.96	21.96	22.5	0		
30	QPSK	1	48	21.77	21.77	21.74				
30	QPSK	1	96	21.74	21.74	21.84				
30	QPSK	50	0	21.74	21.77	21.72	22.5	0		
30	QPSK	50	24	21.84	21.87	21.59				
30	QPSK	50	50	21.81	21.84	21.84				
30	WQAM	1	0	21.78	21.78	21.74	22.5	0		
30	WQAM	1	48	21.83	21.83	21.75				
30	WQAM	1	96	21.78	21.88	21.79				
30	WQAM	50	0	21.84	21.82	21.79	22.5	0		
30	WQAM	50	24	21.77	21.78	21.72				
30	WQAM	50	50	21.80	21.78	21.79				
30	WQAM	100	0	21.84	21.86	21.77	22	0.5		
30	WQAM	1	0	21.84	21.77	21.78				
30	WQAM	1	96	21.82	21.85	21.74				
30	WQAM	50	0	21.87	21.77	21.78	22	0.5		
30	WQAM	50	24	21.57	21.70	21.82				
30	WQAM	50	50	21.71	21.73	21.71				
30	WQAM	100	0	21.88	21.75	21.84	20.5	2		
30	WQAM	1	0	20.17	20.22	20.22				
30	WQAM	1	48	20.16	20.25	20.22				
30	WQAM	50	0	20.23	20.25	20.15	20.5	2		
30	WQAM	50	24	20.12	20.22	20.18				
30	WQAM	50	50	20.16	20.25	20.06				
30	WQAM	100	0	20.13	20.23	20.17				
Channel				2050.2 <th>2150.2<th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th>	2150.2 <th>Turn-on time (min)</th> <th>MFR (dB)</th> <th colspan="2"></th>	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050.2 <th>2150.2<th>2150.2<th></th><th></th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th></th><th></th><th colspan="2"></th></th>	2150.2 <th></th> <th></th> <th colspan="2"></th>				
15	QPSK	1	0	21.81	21.77	21.75	22.5	0		
15	QPSK	1	37	21.69	21.68	21.60				
15	QPSK	1	74	21.73	21.73	21.81				
15	QPSK	1	74	21.73	21.73	21.81	22.5	0		
15	QPSK	36	0	21.61	21.70	21.58				
15	QPSK	36	30	21.51	21.62	21.45				
15	QPSK	36	60	21.47	21.58	21.53	22.5	0		
15	QPSK	75	0	21.53	21.60	21.46				
15	WQAM	1	0	21.71	21.64	21.64				
15	WQAM	1	21.71	21.71	21.70	21.64	22.5	0		
15	WQAM	36	0	21.73	21.71	21.67				
15	WQAM	36	30	21.72	21.71	21.68				
15	WQAM	36	60	21.65	21.63	21.71	22	0.5		
15	WQAM	75	0	21.70	21.76	21.72				
15	WQAM	75	30	21.74	21.64	21.53				
15	WQAM	1	37	21.57	21.70	21.89	20.5	2		
15	WQAM	1	74	21.68	21.74	21.66				
15	WQAM	36	0	21.57	21.62	21.54				
15	WQAM	36	30	21.47	21.55	21.50	20.5	2		
15	WQAM	36	60	21.58	21.66	21.60				
15	WQAM	75	0	21.57	21.68	21.68				
15	WQAM	75	30	20.15	20.23	20.21	20.5	2		
15	WQAM	75	60	20.15	20.25	20.10				
15	WQAM	75	0	20.16	20.09	20.13				
Channel				2050.2 <th>2150.2<th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th>	2150.2 <th>Turn-on time (min)</th> <th>MFR (dB)</th> <th colspan="2"></th>	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050.2 <th>2150.2<th>2150.2<th></th><th></th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th></th><th></th><th colspan="2"></th></th>	2150.2 <th></th> <th></th> <th colspan="2"></th>				
10	QPSK	1	0	21.79	21.83	21.82	22.5	0		
10	QPSK	1	25	21.82	21.83	21.69				
10	QPSK	1	50	21.68	21.73	21.67				
10	QPSK	25	0	21.68	21.67	21.58	22.5	0		
10	QPSK	25	12	21.81	21.87	21.44				
10	QPSK	25	25	21.52	21.67	21.57				
10	WQAM	1	0	21.68	21.64	21.65	22.5	0		
10	WQAM	1	25	21.69	21.73	21.67				
10	WQAM	1	49	21.61	21.77	21.72				
10	WQAM	25	0	21.70	21.72	21.66	22.5	0		
10	WQAM	25	12	21.69	21.83	21.68				
10	WQAM	25	25	21.68	21.69	21.66				
10	WQAM	50	0	21.75	21.74	21.69	22.5	0		
10	WQAM	1	0	21.72	21.72	21.71				
10	WQAM	1	25	21.65	21.70	21.71				
10	WQAM	1	49	21.74	21.74	21.64	22	0.5		
10	WQAM	25	0	21.53	21.68	21.64				
10	WQAM	25	12	21.51	21.65	21.48				
10	WQAM	25	25	21.84	21.58	21.63	20.5	2		
10	WQAM	50	0	21.53	21.62	21.59				
10	25GSSM	1	0	20.10	20.21	20.15				
10	25GSSM	1	25	20.11	20.25	20.18	20.5	2		
10	25GSSM	1	49	20.08	20.27	20.21				
10	25GSSM	25	0	20.21	20.14	20.00				
10	25GSSM	25	12	20.09	20.24	20.16	20.5	2		
10	25GSSM	25	25	19.95	20.15	20.03				
10	25GSSM	50	0	20.10	20.11	20.12				
Channel				2050.2 <th>2150.2<th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th>Turn-on time (min)</th><th>MFR (dB)</th><th colspan="2"></th></th>	2150.2 <th>Turn-on time (min)</th> <th>MFR (dB)</th> <th colspan="2"></th>	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050.2 <th>2150.2<th>2150.2<th></th><th></th><th colspan="2"></th></th></th>	2150.2 <th>2150.2<th></th><th></th><th colspan="2"></th></th>	2150.2 <th></th> <th></th> <th colspan="2"></th>				
5	QPSK	1	0	21.83	21.86	21.72	22.5	0		
5	QPSK	1	12	21.64	21.72	21.61				
5	QPSK	1	24	21.69	21.74	21.71				
5	QPSK	12	0	21.60	21.72	21.67	22.5	0		
5	QPSK	12	7	21.82	21.87	21.48				
5	QPSK	12	13	21.51	21.66	21.50				
5	WQAM	1	0	21.62	21.67	21.51	22.5	0		
5	WQAM	1	12	21.68	21.69	21.61				
5	WQAM	1	24	21.66	21.78	21.71				
5	WQAM	12	0	21.77	21.73	21.72	22.5	0		
5	WQAM	12	7	21.68	21.83	21.63				
5	WQAM	12	13	21.67	21.73	21.64				
5	WQAM	25	0	21.76	21.74	21.69	22	0.5		
5	WQAM	25	0	21.70	21.66	21.68				
5	WQAM	1	12	21.62	21.65	21.72				
5	WQAM	1	24	21.70	21.70	21.67	22	0.5		
5	WQAM	12	0	21.62	21.71	21.63				
5	WQAM	12	7	21.45	21.57	21.48				
5	WQAM	25	0	21.54	21.61	21.51	20.5	2		
5	25GSSM	1	0	20.07	20.21	20.12				
5	25GSSM	1	12	20.09	20.15	20.12				
5	25GSSM	1	24	20.17	20.22	20.13	20.5	2		
5	25GSSM	12	0	20.20	20.23	20.01				
5	25GSSM	12	7	19.98	20.25	19.96				
5	25GSSM	12	13	19.91	20.08	20.02	20.5	2		
5	25GSSM	25	0	20.08	20.15	20.06				
5	25GSSM	25	12	19.99	20.08	20.02				

Band 7_Ant 11										
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on time (min)	MFR (dB)		
Channel				2050	2150	2150				
Frequency (MHz)				2050	2150	2150				
30	QPSK	1	0	23.33	23.35	23.31	25	0		
30	QPSK	1	48	23.78	23.85	23.77				
30	QPSK	1	96	23.74	23.82	23.86				
30	QPSK	50	0	23.35	23.37	23.30	24	1		
30	QPSK	50	24	23.84	23.89	22.85				
30	QPSK	50	50	23.89	23.83	22.86				
30	16QAM	1	0	23.31	23.35	23.33	24	1		
30	16QAM	1	48	23.07	23.17	23.11				
30	16QAM	50	0	21.92	22.07	22.05				
30	16QAM	50	24	19.96	22.02	21.88	23	2		
30	16QAM	50	50	21.96	22.02	22.03				
30	16QAM	100	0	19.90	22.06	22.03				
30	16QAM	1	0	22.46	22.60	22.49	23	2		
30	16QAM	1	48	22.47	22.57	22.57				
30	16QAM	1	96	22.54	22.56	22.51				
30	16QAM	50	0	21.44	21.54	21.40	22	3		
30	16QAM	50	24	21.48	21.49	21.44				
30	16QAM	50	50	21.48	21.50	21.40				
30	16QAM	100	0	21.39	21.50	21.40	20.5	4.5		
30	16QAM	100	0	20.19	21.19	20.13				
30	16QAM	100	0	20.08	20.13	20.07				
30	16QAM	1	96	20.07	20.13	20.07	20.5	4.5		
30	16QAM	1	96	20.07	20.13	20.07				
30	16QAM	1	96	20.07	20.13	20.07				
30	16QAM	60	24	19.09	20.21	19.86	20.5	4.5		
30	16QAM	60	50	19.03	19.99	19.87				
30	16QAM	100	0	20.03	20.03	20.03				
Channel				2050	2150	2150	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050	2150	2150				
30	QPSK	1	0	23.73	23.73	23.73	25	0		
30	QPSK	1	48	23.75	23.75	23.75				
30	QPSK	1	74	23.78	23.81	23.84				
30	QPSK	50	0	23.37	23.37	23.37	24	1		
30	QPSK	50	24	23.82	23.77	23.72				
30	QPSK	50	50	22.74	22.73	22.76				
30	16QAM	1	0	23.67	23.67	23.67	24	1		
30	16QAM	1	0	22.99	23.14	23.12				
30	16QAM	1	27	22.97	23.13	23.06				
30	16QAM	1	74	23.20	23.20	23.20	23	2		
30	16QAM	50	0	21.80	22.06	21.80				
30	16QAM	50	20	21.94	21.89	21.82				
30	16QAM	50	39	21.82	21.87	21.87	23	2		
30	16QAM	75	0	21.81	22.02	21.89				
30	16QAM	1	27	22.37	22.59	22.45				
30	16QAM	1	74	22.32	22.38	22.38	23	2		
30	16QAM	1	74	22.31	22.56	22.37				
30	16QAM	50	0	21.30	21.48	21.37				
30	16QAM	50	20	21.43	21.43	21.43	22	3		
30	16QAM	50	39	21.43	21.38	21.36				
30	16QAM	75	0	21.24	21.48	21.32				
30	16QAM	1	27	20.13	21.13	20.07	20.5	4.5		
30	16QAM	1	37	18.88	20.04	18.85				
30	16QAM	1	74	20.08	20.12	20.05				
30	16QAM	50	0	19.03	20.19	19.06	20.5	4.5		
30	16QAM	50	20	19.03	19.09	19.78				
30	16QAM	50	39	19.78	19.84	19.78				
30	16QAM	75	0	19.88	20.01	19.88	20.5	4.5		
30	16QAM	1	27	19.88	20.01	19.88				
30	16QAM	1	27	19.88	20.01	19.88				
Channel				2050	2150	2150	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050	2150	2150				
30	QPSK	1	0	23.74	23.74	23.74	25	0		
30	QPSK	1	48	23.75	23.75	23.74				
30	QPSK	1	48	23.79	23.87	23.78				
30	QPSK	50	0	23.37	23.37	23.37	24	1		
30	QPSK	50	24	23.80	23.74	22.77				
30	QPSK	50	25	22.80	22.70	22.77				
30	16QAM	1	0	23.68	23.68	23.68	24	1		
30	16QAM	1	0	23.04	23.05	23.02				
30	16QAM	1	25	23.04	23.05	23.01				
30	16QAM	1	48	23.08	23.14	23.14	23	2		
30	16QAM	25	0	21.90	21.99	22.02				
30	16QAM	25	12	21.87	21.95	21.79				
30	16QAM	50	0	21.42	21.42	21.42	22	3		
30	16QAM	50	0	21.76	21.92	21.68				
30	16QAM	1	48	22.42	22.56	22.41				
30	16QAM	1	48	22.42	22.56	22.41	20.5	4.5		
30	16QAM	25	0	21.40	21.47	21.29				
30	16QAM	25	12	21.42	21.43	21.29				
30	16QAM	50	0	21.26	21.38	21.26	22	3		
30	16QAM	50	0	21.26	21.38	21.26				
30	16QAM	50	0	21.26	21.38	21.26				
30	16QAM	1	25	18.88	19.97	19.96	20.5	4.5		
30	16QAM	1	25	18.92	20.10	20.05				
30	16QAM	25	0	19.03	19.03	19.03				
30	16QAM	25	12	19.00	19.93	19.90	20.5	4.5		
30	16QAM	25	12	19.00	19.93	19.90				
30	16QAM	25	12	19.00	19.93	19.90				
Channel				2050	2150	2150	Turn-on time (min)	MFR (dB)		
Frequency (MHz)				2050	2150	2150				
30	QPSK	1	0	23.76	23.76	23.76	25	0		
30	QPSK	1	48	23.78	23.77	23.78				
30	QPSK	1	24	23.79	23.78	23.75				
30	QPSK	12	13	22.77	22.77	22.77	24	1		
30	QPSK	12	13	22.77	22.77	22.77				
30	QPSK	12	13	22.88	22.81	22.78				
30	16QAM	1	0	23.03	23.03	23.03	24	1		
30	16QAM	1	0	23.07	23.18	23.11				
30	16QAM	1	12	22.96	23.08	22.98				
30	16QAM	12	7	21.93	21.88	21.76	23	2		
30	16QAM	12	7	21.93	21.88	21.76				
30	16QAM	12	7	21.93	21.88	21.76				
30	16QAM	25	0	21.87	21.95	21.89	23	2		
30	16QAM	25	0	22.38	22.55	22.38				
30	16QAM	25	0	22.40	22.49	22.40				
30	16QAM	1	24	22.42	22.40	22.38	22	3		
30	16QAM	12	0	21.41	21.47	21.29				
30	16QAM	12	13	21.38	21.38	21.38				
30	16QAM	12	13	21.44	21.38	21.38	20.5	4.5		
30	16QAM	1	12	19.07	20.02	20.01				
30	16QAM	1	12	19.07	20.02	20.01				
30	16QAM	1	24	19.03	20.03	19.86	20.5	4.5		
30	16QAM	12	0	19.02	19.02	19.02				
30	16QAM	12	7	19.01	19.88	19.78				
30	16QAM	25	0	19.70	19.92	19.70	20.5	4.5		
30	16QAM	25	0	19.70	19.92	19.70				
30	16QAM	25	0	19.70	19.92	19.70				

Band 13_Ant 13									
BW [Hz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.75			25	0	
10	QPSK	1	25	23.85					
10	QPSK	1	40	23.95					
10	QPSK	25	0	23.83					
10	QPSK	25	12	22.75			24	1	
10	QPSK	25	25	22.75					
10	QPSK	50	0	22.80					
10	16QAM	1	0	23.50			24	1	
10	16QAM	1	25	22.50					
10	16QAM	1	40	22.85					
10	16QAM	25	0	21.85					
10	16QAM	25	12	21.75			23	2	
10	16QAM	25	25	21.83					
10	16QAM	50	0	21.78					
10	16QAM	1	0	22.50					
10	16QAM	1	25	22.43			23	2	
10	16QAM	1	40	22.45					
10	16QAM	25	0	21.31					
10	16QAM	25	12	21.28			22	3	
10	16QAM	25	25	21.26					
10	16QAM	50	0	21.28					
10	256QAM	1	0	19.96			20.5	4.5	
10	256QAM	1	25	19.91					
10	256QAM	1	40	19.90					
10	256QAM	25	0	19.79			20.5	4.5	
10	256QAM	25	12	19.73					
10	256QAM	25	25	19.70					
10	256QAM	50	0	19.75					
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.99	23.69	23.64	25	0	
5	QPSK	1	12	23.60	23.56	23.54			
5	QPSK	1	24	23.63	23.62	23.64			
5	QPSK	12	0	22.76	22.72	22.79			
5	QPSK	12	7	22.71	22.67	22.71	24	1	
5	QPSK	12	13	22.68	22.70	22.65			
5	QPSK	25	0	22.65	22.71	22.78			
5	16QAM	1	0	22.62	22.64	22.56	24	1	
5	16QAM	1	12	22.54	22.59	22.58			
5	16QAM	1	24	22.61	22.69	22.66			
5	16QAM	12	0	21.83	21.73	21.77			
5	16QAM	12	7	21.75	21.77	21.64	23	2	
5	16QAM	12	13	21.71	21.69	21.70			
5	16QAM	25	0	21.68	21.66	21.75			
5	16QAM	1	0	22.46	22.36	22.39	23	2	
5	16QAM	1	12	22.28	22.31	22.29			
5	16QAM	1	24	22.39	22.45	22.36			
5	16QAM	12	0	21.28	21.26	21.20	22	3	
5	16QAM	12	7	21.20	21.27	21.24			
5	16QAM	12	13	21.14	21.16	21.15			
5	16QAM	25	0	21.14	21.13	21.17			
5	256QAM	1	0	19.91	19.83	19.90	20.5	4.5	
5	256QAM	1	12	19.79	19.88	19.80			
5	256QAM	1	24	19.77	19.82	19.87			
5	256QAM	12	0	19.63	19.70	19.66	20.5	4.5	
5	256QAM	12	7	19.70	19.72	19.60			
5	256QAM	12	13	19.65	19.66	19.61			
5	256QAM	25	0	19.66	19.71	19.72			

Band 13_Ant 31									
BW [Hz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.10			25	0	
10	QPSK	1	25	24.06					
10	QPSK	1	40	24.05					
10	QPSK	25	0	23.15					
10	QPSK	25	12	23.10			24	1	
10	QPSK	25	25	23.12					
10	QPSK	50	0	23.13					
10	16QAM	1	0	23.50			24	1	
10	16QAM	1	25	23.40					
10	16QAM	1	40	23.45					
10	16QAM	25	0	22.19					
10	16QAM	25	12	22.11			23	2	
10	16QAM	25	25	22.13					
10	16QAM	50	0	22.15					
10	16QAM	1	0	22.85					
10	16QAM	1	25	22.80			23	2	
10	16QAM	1	40	22.78					
10	16QAM	25	0	21.66					
10	16QAM	25	12	21.58			22	3	
10	16QAM	25	25	21.60					
10	16QAM	50	0	21.61					
10	256QAM	1	0	20.37			20.5	4.5	
10	256QAM	1	25	20.33					
10	256QAM	1	40	20.30					
10	256QAM	25	0	20.25			20.5	4.5	
10	256QAM	25	12	20.20					
10	256QAM	25	25	20.21					
10	256QAM	50	0	20.23					
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.99	24.05	23.97	25	0	
5	QPSK	1	12	23.67	23.69	24.04			
5	QPSK	1	24	24.00	23.92	23.93			
5	QPSK	12	0	23.05	23.08	23.01			
5	QPSK	12	7	22.65	23.04	22.98	24	1	
5	QPSK	12	13	23.09	22.99	23.06			
5	QPSK	25	0	22.99	23.03	23.10			
5	16QAM	1	0	23.48	23.35	23.39	24	1	
5	16QAM	1	12	23.34	23.32	23.37			
5	16QAM	1	24	23.41	23.33	23.39			
5	16QAM	12	0	22.07	22.16	22.12			
5	16QAM	12	7	22.00	22.00	22.08	23	2	
5	16QAM	12	13	22.10	22.07	22.07			
5	16QAM	25	0	22.12	22.05	22.11			
5	16QAM	1	0	22.79	22.84	22.73	23	2	
5	16QAM	1	12	22.78	22.72	22.86			
5	16QAM	1	24	22.69	22.70	22.75			
5	16QAM	12	0	21.57	21.54	21.58	22	3	
5	16QAM	12	7	21.57	21.54	21.53			
5	16QAM	12	13	21.48	21.50	21.52			
5	16QAM	25	0	21.48	21.48	21.59			
5	256QAM	1	0	20.24	20.25	20.23	20.5	4.5	
5	256QAM	1	12	20.21	20.20	20.30			
5	256QAM	1	24	20.18	20.26	20.21			
5	256QAM	12	0	20.22	20.23	20.24	20.5	4.5	
5	256QAM	12	7	20.09	20.14	20.09			
5	256QAM	12	13	20.08	20.06	20.15			
5	256QAM	25	0	20.09	20.13	20.15			

Band 17_Ant 13									
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.83	23.95	23.81	25	0	
10	QPSK	1	25	23.85	23.84	23.84			
10	QPSK	1	40	23.86	23.82	23.82			
10	QPSK	25	0	22.83	22.80	22.81			
10	QPSK	25	12	22.83	22.81	22.80	24	1	
10	QPSK	25	25	22.83	22.82	22.79			
10	QPSK	50	0	22.81	22.83	22.80			
10	16QAM	1	0	23.24	23.25	23.16	24	1	
10	16QAM	1	25	23.19	23.20	23.17			
10	16QAM	1	40	23.18	23.23	23.09			
10	16QAM	25	0	21.82	21.85	21.79	23	2	
10	16QAM	25	12	21.85	21.83	21.82			
10	16QAM	25	25	21.85	21.80	21.80			
10	16QAM	50	0	21.85	21.83	21.82			
10	16QAM	1	0	22.42	22.56	22.55			
10	16QAM	1	25	22.45	22.59	22.38	23	2	
10	16QAM	1	40	22.39	22.52	22.46			
10	16QAM	25	0	21.33	21.40	21.28	22	3	
10	16QAM	25	12	21.24	21.33	21.27			
10	16QAM	25	25	21.22	21.37	21.29			
10	16QAM	50	0	21.30	21.38	21.35			
10	256QAM	1	0	19.94	20.00	19.94	20.5	4.5	
10	256QAM	1	25	19.90	19.92	19.90			
10	256QAM	1	40	19.84	19.85	19.84			
10	256QAM	25	0	19.78	19.85	19.73	20.5	4.5	
10	256QAM	25	12	19.76	19.81	19.79			
10	256QAM	25	25	19.71	19.83	19.73			
10	256QAM	50	0	19.72	19.87	19.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.80	23.92	23.83	25	0	
5	QPSK	1	12	23.81	23.83	23.75			
5	QPSK	1	24	23.81	23.75	23.80			
5	QPSK	12	0	22.81	22.88	22.80			
5	QPSK	12	7	22.74	22.79	22.80	24	1	
5	QPSK	12	13	22.73	22.75	22.64			
5	QPSK	25	0	22.81	22.80	22.81			
5	16QAM	1	0	23.18	23.24	23.03	24	1	
5	16QAM	1	12	23.04	23.13	23.12			
5	16QAM	1	24	23.02	23.02	23.02			
5	16QAM	12	0	21.90	21.89	21.87			
5	16QAM	12	7	21.81	21.88	21.78			
5	16QAM	12	13	21.77	21.77	21.68			
5	16QAM	25	0	21.74	21.88	21.81			
5	16QAM	1	0	22.36	22.47	22.40			
5	16QAM	1	12	22.24	22.24	22.24	23	2	
5	16QAM	1	24	22.20	22.28	22.40			
5	16QAM	12	7	21.78	21.81	21.78			
5	16QAM	12	13	21.78	21.81	21.78	22	3	
5	16QAM	25	0	21.27	21.23	21.29			
5	16QAM	25	12	21.19	21.25	21.25			
5	16QAM	25	24	21.19	21.25	21.25			
5	256QAM	1	0	19.84	19.82	19.85	20.5	4.5	
5	256QAM	1	12	19.88	19.82	19.85			
5	256QAM	1	24	19.84	19.82	19.85			
5	256QAM	12	0	19.74	19.84	19.80			
5	256QAM	12	7	19.61	19.66	19.69	20.5	4.5	
5	256QAM	12	13	19.63	19.67	19.67			
5	256QAM	25	0	19.64	19.63	19.62			

Band 26, Ant 13										Band 26, Ant 31										Band 66, Ant 13										Band 66, Ant 31										
RF	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up (dB)	MFR (dB)		RF	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up (dB)	MFR (dB)		RF	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up (dB)	MFR (dB)		RF	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up (dB)	MFR (dB)		
Channel										Channel										Channel										Channel										
Frequency (MHz)										Frequency (MHz)										Frequency (MHz)										Frequency (MHz)										
15	QPSK	1	0	23.06	23.06	23.06				15	QPSK	1	0	23.06	23.06	23.06					15	QPSK	1	0	17.08	17.08	17.08				15	QPSK	1	0	17.08	17.08	17.08			
15	QPSK	1	7	23.06	23.06	23.06	25	0		15	QPSK	1	7	23.06	23.06	23.06	25	0			15	QPSK	1	7	23.06	23.06	23.06	24.8	0		15	QPSK	1	7	23.06	23.06	23.06	24.8	0	
15	QPSK	1	14	23.06	23.06	23.06				15	QPSK	1	14	23.06	23.06	23.06					15	QPSK	1	14	23.06	23.06	23.06				15	QPSK	1	14	23.06	23.06	23.06			
15	QPSK	3	0	22.86	22.86	22.86				15	QPSK	3	0	22.86	22.86	22.86					15	QPSK	3	0	22.86	22.86	22.86				15	QPSK	3	0	22.86	22.86	22.86			
15	QPSK	3	7	22.86	22.86	22.86	24	1		15	QPSK	3	7	22.86	22.86	22.86	24	1			15	QPSK	3	7	22.86	22.86	22.86	23.8	1		15	QPSK	3	7	22.86	22.86	22.86	23.8	1	
15	QPSK	3	14	22.86	22.86	22.86				15	QPSK	3	14	22.86	22.86	22.86					15	QPSK	3	14	22.86	22.86	22.86				15	QPSK	3	14	22.86	22.86	22.86			
15	QPSK	3	21	22.86	22.86	22.86	24	1		15	QPSK	3	21	22.86	22.86	22.86	24	1			15	QPSK	3	21	22.86	22.86	22.86	23.8	1		15	QPSK	3	21	22.86	22.86	22.86	23.8	1	
15	QPSK	3	28	22.86	22.86	22.86				15	QPSK	3	28	22.86	22.86	22.86					15	QPSK	3	28	22.86	22.86	22.86				15	QPSK	3	28	22.86	22.86	22.86			
15	QPSK	3	35	22.86	22.86	22.86	24	1		15	QPSK	3	35	22.86	22.86	22.86	24	1			15	QPSK	3	35	22.86	22.86	22.86	23.8	1		15	QPSK	3	35	22.86	22.86	22.86	23.8	1	
15	QPSK	3	42	22.86	22.86	22.86				15	QPSK	3	42	22.86	22.86	22.86					15	QPSK	3	42	22.86	22.86	22.86				15	QPSK	3	42	22.86	22.86	22.86			
15	QPSK	3	49	22.86	22.86	22.86	24	1		15	QPSK	3	49	22.86	22.86	22.86	24	1			15	QPSK	3	49	22.86	22.86	22.86	23.8	1		15	QPSK	3	49	22.86	22.86	22.86	23.8	1	
15	QPSK	3	56	22.86	22.86	22.86				15	QPSK	3	56	22.86	22.86	22.86					15	QPSK	3	56	22.86	22.86	22.86				15	QPSK	3	56	22.86	22.86	22.86			
15	QPSK	3	63	22.86	22.86	22.86	24	1		15	QPSK	3	63	22.86	22.86	22.86	24	1			15	QPSK	3	63	22.86	22.86	22.86	23.8	1		15	QPSK	3	63	22.86	22.86	22.86	23.8	1	
15	QPSK	3	70	22.86	22.86	22.86				15	QPSK	3	70	22.86	22.86	22.86					15	QPSK	3	70	22.86	22.86	22.86				15	QPSK	3	70	22.86	22.86	22.86			
15	QPSK	3	77	22.86	22.86	22.86	24	1		15	QPSK	3	77	22.86	22.86	22.86	24	1			15	QPSK	3	77	22.86	22.86	22.86	23.8	1		15	QPSK	3	77	22.86	22.86	22.86	23.8	1	
15	QPSK	3	84	22.86	22.86	22.86				15	QPSK	3	84	22.86	22.86	22.86					15	QPSK	3	84	22.86	22.86	22.86				15	QPSK	3	84	22.86	22.86	22.86			
15	QPSK	3	91	22.86	22.86	22.86	24	1		15	QPSK	3	91	22.86	22.86	22.86	24	1			15	QPSK	3	91	22.86	22.86	22.86	23.8	1		15	QPSK	3	91	22.86	22.86	22.86	23.8	1	
15	QPSK	3	98	22.86	22.86	22.86				15	QPSK	3	98	22.86	22.86	22.86					15	QPSK	3	98	22.86	22.86	22.86				15	QPSK	3	98	22.86	22.86	22.86			
15	QPSK	3	105	22.86	22.86	22.86	24	1		15	QPSK	3	105	22.86	22.86	22.86	24	1			15	QPSK	3	105	22.86	22.86	22.86	23.8	1		15	QPSK	3	105	22.86	22.86	22.86	23.8	1	
15	QPSK	3	112	22.86	22.86	22.86				15	QPSK	3	112	22.86	22.86	22.86					15	QPSK	3	112	22.86	22.86	22.86				15	QPSK	3	112	22.86	22.86	22.86			
15	QPSK	3	119	22.86	22.86	22.86	24	1		15	QPSK	3	119	22.86	22.86	22.86	24	1			15	QPSK	3	119	22.86	22.86	22.86	23.8	1		15	QPSK	3	119	22.86	22.86	22.86	23.8	1	
15	QPSK	3	126	22.86	22.86	22.86				15	QPSK	3	126	22.86	22.86	22.86					15	QPSK	3	126	22.86	22.86	22.86				15	QPSK	3	126	22.86	22.86	22.86			
15	QPSK	3	133	22.86	22.86	22.86	24	1		15	QPSK	3	133	22.86	22.86	22.86	24	1			15	QPSK	3	133	22.86	22.86	22.86	23.8	1		15	QPSK	3	133	22.86	22.86	22.86	23.8	1	
15	QPSK	3	140	22.86	22.86	22.86				15	QPSK	3	140	22.86	22.86	22.86					15	QPSK	3	140	22.86	22.86	22.86				15	QPSK	3	140	22.86	22.86	22.86			
15	QPSK	3	147	22.86	22.86	22.86	24	1		15	QPSK	3	147	22.86	22.86	22.86	24	1			15	QPSK	3	147	22.86	22.86	22.86	23.8	1		15	QPSK	3	147	22.86	22.86	22.86	23.8	1	
15	QPSK	3	154	22.86	22.86	22.86				15	QPSK	3	154	22.86	22.86	22.86					15	QPSK	3	154	22.86	22.86	22.86				15	QPSK	3	154	22.86	22.86	22.86			
15	QPSK	3	161	22.86	22.86	22.86	24	1		15	QPSK	3	161	22.86	22.86	22.86	24	1			15	QPSK	3	161	22.86	22.86	22.86	23.8	1		15	QPSK	3	161	22.86	22.86	22.86	23.8	1	
15	QPSK	3	168	22.86	22.86	22.86				15	QPSK	3	168	22.86	22.86	22.86					15	QPSK	3	168	22.86	22.86	22.86				15	QPSK	3	168	22.86	22.86	22.86			
15	QPSK	3	175	22.86	22.86	22.86	24	1		15	QPSK	3	175	22.86	22.86	22.86	24	1			15	QPSK	3	175	22.86	22.86	22.86	23.8	1		15	QPSK	3	175	22.86	22.86	22.86	23.8	1	
15	QPSK	3	182	22.86	22.86	22.86				15	QPSK	3	182	22.86	22.86	22.86					15	QPSK	3	182	22.86	22.86	22.86				15	QPSK	3	182	22.86	22.86	22.86			
15	QPSK	3	189	22.86	22.86	22.86	24	1		15	QPSK	3	189	22.86	22.86	22.86	24	1			15	QPSK	3	189	22.86	22.86	22.86	23.8	1		15	QPSK	3	189	22.86	22.86	22.86	23.8	1	
15	QPSK	3	196	22.86	22.86	22.86				15	QPSK	3	196	22.86	22.86	22.86					15	QPSK	3	196	22.86	22.86	22.86				15	QPSK	3	196	22.86	22.86	22.86			
15	QPSK	3	203	22.86	22.86	22.86	24	1		15	QPSK	3	203	22.86	22.86	22.86	24	1			15	QPSK	3	203	22.86	22.86	22.86	23.8	1		15	QPSK	3	203	22.86	22.86	22.86	23.8	1	
15	QPSK	3	210	22.86	22.86	22.86				15	QPSK	3	210	22.86	22.86	22.86					15	QPSK	3	210	22.86	22.86	22.86				15	QPSK	3	210	22.86	22.86	22.86			
15	QPSK	3	217	22.86	22.86	22.86	24	1		15	QPSK	3	217	22.86	22.86	22.86	24	1			15	QPSK	3	217	22.86	22.86	22.86	23.8	1		15	QPSK	3	217	22.86	22.86	22.86	23.8	1	
15	QPSK	3	224	22.86	22.86	22.86				15	QPSK	3	224	22.86	22.86	22.86					15	QPSK	3	224	22.86	22.86	22.86				15	QPSK	3	224	22.86	22.86	22.86			
15	QPSK	3	231	22.86	22.86	22.86	24	1		15	QPSK	3	231	22.86	22.86	22.86	24	1			15	QPSK	3	231	22.86	22.86	22.86	23.8	1		15	QPSK	3	231	22.86	22.86	22.86	23.8	1	
15	QPSK	3	238	22.86	22.86	22.86				15	QPSK	3	238	22.86	22.86	22.86					15	QPSK	3	238	22.86	22.86	22.86				15	QPSK	3	238	22.86	22.86	22.86			
15	QPSK	3	245	22.86	22.86	22.86	24	1		15	QPSK	3	245	22.86	22.86	22.86	24	1			15	QPSK	3	245	22.86	22.86	22.86	23.8	1		15	QPSK	3	245	22.86	22.86	22.86	23.8	1	
15	QPSK	3	252	22.86	22.86	22.86				15	QPSK	3	252	22.86	22.86	22.86					15																			

Band 66_Ant 11												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Intvl (sec)	MFR (dB)				
Channel				132072	132222	132372						
Frequency (MHz)				1729	1745	1773						
20	QPSK	1	0	24.35	24.35	24.31	25	0				
20	QPSK	1	40	24.28	24.29	24.23						
20	QPSK	1	80	24.27	24.32	24.24						
20	QPSK	80	0	23.35	23.31	23.26						
20	QPSK	80	24	23.21	23.27	23.22	24	1				
20	QPSK	80	50	23.23	23.31	23.28						
20	HQDM	1	0	23.64	23.65	23.58						
20	HQDM	1	40	23.60	23.61	23.47						
20	HQDM	1	80	23.63	23.68	23.57	24	1				
20	HQDM	50	0	22.30	22.34	22.22						
20	HQDM	50	24	22.35	22.25	22.13						
20	HQDM	50	50	22.26	22.31	22.22						
20	HQDM	100	0	22.23	22.31	22.23	23	2				
20	HQDM	1	0	22.72	22.84	22.72						
20	HQDM	1	40	22.57	22.70	22.67						
20	HQDM	1	80	22.66	22.78	22.68						
20	HQDM	50	0	21.72	21.86	21.82	23	2				
20	HQDM	50	24	21.68	21.81	21.79						
20	HQDM	50	50	21.66	21.73	21.61						
20	HQDM	800	0	21.75	21.75	21.64						
20	SSBQAM	1	0	20.47	20.50	20.35	20.5	4.5				
20	SSBQAM	1	40	20.30	20.42	20.40						
20	SSBQAM	1	80	20.31	20.45	20.36						
20	SSBQAM	80	0	20.31	20.33	20.30						
20	SSBQAM	80	24	20.27	20.34	20.22						
20	SSBQAM	80	50	20.31	20.33	20.30	20.5	4.5				
20	SSBQAM	160	0	20.24	20.37	20.28						
Channel				132047	132222	132372						
Frequency (MHz)				17717.5	17465	17773.5			Tune-up Intvl (sec)	MFR (dB)		
15	QPSK	1	0	24.28	24.32	24.21	25		0			
15	QPSK	1	37	24.18	24.27	24.12						
15	QPSK	1	74	24.25	24.27	24.18						
15	QPSK	80	0	23.34	23.25	23.26						
15	QPSK	80	20	23.11	23.25	23.21	24	1				
15	QPSK	80	39	23.22	23.25	23.25						
15	QPSK	75	0	23.20	23.28	23.27						
15	HQDM	1	0	23.63	23.51	23.51						
15	HQDM	1	37	23.62	23.59	23.34	24	1				
15	HQDM	1	74	23.49	23.51	23.54						
15	HQDM	80	0	22.25	22.30	22.07						
15	HQDM	80	20	22.00	22.11	22.07						
15	HQDM	80	39	22.19	22.21	22.20	23	2				
15	HQDM	75	0	22.10	22.30	22.16						
15	HQDM	1	0	22.59	22.70	22.60						
15	HQDM	1	37	22.47	22.84	22.56						
15	HQDM	1	74	22.66	22.69	22.57	23	2				
15	HQDM	80	0	21.59	21.71	21.78						
15	HQDM	80	20	21.57	21.71	21.66						
15	HQDM	80	39	21.66	21.64	21.60						
15	HQDM	15	0	21.65	21.66	21.51	22	3				
15	SSBQAM	1	0	20.32	20.49	20.34						
15	SSBQAM	1	40	20.27	20.33	20.26						
15	SSBQAM	1	74	20.35	20.36	20.15						
15	SSBQAM	80	0	20.28	20.32	20.32	20.5	4.5				
15	SSBQAM	80	20	20.22	20.30	20.12						
15	SSBQAM	80	39	20.19	20.19	20.21						
15	SSBQAM	75	0	20.20	20.35	20.14						
Channel				132047	132222	132372	Tune-up Intvl (sec)		MFR (dB)			
Frequency (MHz)				17712.5	17465	17773.5	1400000000	1400				
10	QPSK	1	0	24.27	24.27	24.19	25	0				
10	QPSK	1	12	24.14	24.24	24.22						
10	QPSK	1	24	24.23	24.28	24.13						
10	QPSK	12	0	23.32	23.31	23.32						
10	QPSK	12	7	23.09	23.18	23.20	24	1				
10	QPSK	12	13	23.23	23.23	23.15						
10	QPSK	25	0	23.29	23.21	23.32						
10	HQDM	1	0	23.64	23.64	23.50						
10	HQDM	1	12	23.62	23.59	23.32	24	1				
10	HQDM	1	24	23.47	23.48	23.54						
10	HQDM	12	0	22.23	22.20	22.14						
10	HQDM	12	7	22.07	22.18	22.11						
10	HQDM	12	13	22.12	22.16	22.17	23	2				
10	HQDM	25	0	22.09	22.21	22.08						
10	HQDM	1	0	22.68	22.81	22.68						
10	HQDM	1	12	22.49	22.59	22.55						
10	HQDM	1	24	22.52	22.76	22.57	23	2				
10	HQDM	12	0	21.68	21.78	21.69						
10	HQDM	12	7	21.53	21.75	21.72						
10	HQDM	12	13	21.67	21.67	21.52						
10	HQDM	165	0	21.62	21.68	21.56	22	3				
10	SSBQAM	1	0	20.42	20.40	20.22						
10	SSBQAM	1	0	20.22	20.34	20.20	20.5	4.5				
10	SSBQAM	1	12	20.23	20.34	20.27						
10	SSBQAM	1	24	20.19	20.42	20.37						
10	SSBQAM	12	0	20.21	20.40	20.22						
10	SSBQAM	12	7	20.28	20.22	20.18						
10	SSBQAM	12	13	20.22	20.29	20.24	20.5	4.5				
10	SSBQAM	25	0	20.24	20.23	20.16						
10	SSBQAM	25	25	20.23	20.27	20.20						
10	SSBQAM	80	0	20.13	20.24	20.18						
Channel				131997	132222	132372	Tune-up Intvl (sec)		MFR (dB)			
Frequency (MHz)				17715.5	17465	17773.5	1400000000	1400				
5	QPSK	1	0	24.21	24.21	24.16	25	0				
5	QPSK	1	12	24.14	24.24	24.19						
5	QPSK	1	24	24.14	24.28	24.13						
5	QPSK	12	0	23.31	23.31	23.26						
5	QPSK	12	7	23.15	23.25	23.20	24	1				
5	QPSK	12	13	23.23	23.23	23.15						
5	QPSK	25	0	23.29	23.21	23.32						
5	HQDM	1	0	23.64	23.64	23.50						
5	HQDM	1	12	23.62	23.59	23.32	24	1				
5	HQDM	1	24	23.47	23.48	23.54						
5	HQDM	12	0	22.23	22.20	22.14						
5	HQDM	12	7	22.07	22.18	22.11						
5	HQDM	12	13	22.12	22.16	22.17	23	2				
5	HQDM	25	0	22.09	22.21	22.08						
5	HQDM	1	0	22.68	22.81	22.68						
5	HQDM	1	12	22.49	22.59	22.55						
5	HQDM	1	24	22.52	22.76	22.57	23	2				
5	HQDM	12	0	21.68	21.78	21.69						
5	HQDM	12	7	21.53	21.75	21.72						
5	HQDM	12	13	21.67	21.67	21.52						
5	HQDM	165	0	21.62	21.68	21.56	22	3				
5	SSBQAM	1	0	20.42	20.40	20.22						
5	SSBQAM	1	0	20.22	20.34	20.20	20.5	4.5				
5	SSBQAM	1	12	20.23	20.34	20.27						
5	SSBQAM	1	24	20.19	20.42	20.37						
5	SSBQAM	12	0	20.21	20.40	20.22						
5	SSBQAM	12	7	20.28	20.22	20.18						
5	SSBQAM	12	13	20.22	20.29	20.24	20.5	4.5				
5	SSBQAM	25	0	20.24	20.23	20.16						
5	SSBQAM	25	25	20.23	20.27	20.20						
5	SSBQAM	80	0	20.13	20.24	20.18						
Channel				131979	132222	132372	Tune-up Intvl (sec)		MFR (dB)			
Frequency (MHz)				17675.7	17465	17783.3	1400000000	1400				
1.4	QPSK	1	0	24.20	24.26	24.14	25	0				
1.4	QPSK	1	12	24.14	24.27	24.19						
1.4	QPSK	1	24	24.18	24.28	24.22						
1.4	QPSK	12	0	24.26	24.22	24.24						
1.4	QPSK	12	7	24.24	24.24	24.20	24	1				
1.4	QPSK	12	13	24.24	24.22	24.22						
1.4	QPSK	25	0	23.34	23.22	23.29						
1.4	HQDM	1	0	23.60	23.60	23.52						
1.4	HQDM	1	12	23.59	23.59	23.49	24	1				
1.4	HQDM	1	24	23.59	23.59	23.49						
1.4	HQDM	12	0	23.29	23.29	23.26						
1.4	HQDM	12	7	23.29	23.28	23.20						
1.4	HQDM	1	0	23.28	23.28	23.23	23	2				
1.4	HQDM	1	12	23.28	23.28	23.23						
1.4	HQDM	1	24	23.28	23.28	23.23						
1.4	HQDM	12	0	22.22	22.22	22.11						
1.4	HQDM	1	0	22.22	22.23	22.07	23	2				
1.4	HQDM	1	12	22.21	22.21	22.11						
1.4	HQDM	1	24	22.21	22.21	22.11						
1.4	HQDM	12	0	22.22	22.23	22.07						
1.4	HQDM	8	0	21.57	21.67	21.56	22	3				
1.4	SSBQAM	1	0	20.44	20.44	20.38						
1.4	SSBQAM	1	8	20.25	20.38	20.32						
1.4	SSBQAM	1	16	20.21	20.38	20.32						
1.4	SSBQAM	1	5	20.21	20.44	20.37	20.5	4.5				
1.4	SSBQAM	1	10	20.24	20.36	20.30						
1.4	SSBQAM	1	20	20.34	20.36	20.27						
1.4	SSBQAM	1	30	20.19	20.31	20.27						
1.4	SSBQAM	1	30	20.19	20.31	20.27	20.5		4.5			
1.4	SSBQAM	1	30	20.19	20.31	20.27						
1.4	SSBQAM	1	30	20.19	20.31	20.27						
1.4	SSBQAM	1	30	20.19	20.31	20.27						

Appendix E

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Band 38_Ant 13											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	23.34	23.37	23.35	23.8	0			
20	QPSK	1	49	23.29	23.28	23.28					
20	QPSK	1	99	23.28	23.28	23.25					
20	QPSK	50	0	23.13	23.15	23.15					
20	QPSK	50	24	23.03	23.00	23.04					
20	QPSK	50	50	23.07	23.03	23.09	23.8	0			
20	QPSK	100	0	23.11	23.13	23.10					
20	16QAM	1	49	23.29	23.14	23.16					
20	16QAM	1	49	23.08	23.00	23.05	23.8	0			
20	16QAM	1	99	23.09	23.11	23.07					
20	16QAM	50	0	22.15	22.17	22.11					
20	16QAM	50	24	22.03	22.12	22.03	22.8	1			
20	16QAM	50	50	22.15	22.19	22.12					
20	16QAM	100	0	22.31	22.32	22.24					
20	64QAM	1	49	22.22	22.25	22.17	22.8	1			
20	64QAM	1	99	22.14	22.27	22.26					
20	64QAM	50	0	21.63	21.70	21.56					
20	64QAM	50	24	21.51	21.62	21.64	21.8	2			
20	64QAM	50	50	21.51	21.62	21.61					
20	64QAM	100	0	21.53	21.60	21.62					
20	256QAM	1	0	19.91	20.05	19.91	20.3	3.5			
20	256QAM	1	49	19.84	19.92	19.78					
20	256QAM	1	99	19.84	19.92	19.92					
20	256QAM	50	0	19.84	19.86	19.85					
20	256QAM	50	24	19.70	19.82	19.80					
20	256QAM	50	50	19.66	19.80	19.78	20.3	3.5			
20	256QAM	100	0	19.77	19.85	19.78					
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5	Turn-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	23.24	23.26	23.27	23.8	0			
15	QPSK	1	37	23.15	23.23	23.19					
15	QPSK	1	74	23.14	23.23	23.11					
15	QPSK	36	0	23.06	23.05	22.99					
15	QPSK	36	20	22.91	22.91	22.98			23.8	0	
15	QPSK	36	39	22.83	22.80	23.02					
15	QPSK	75	0	22.85	22.85	22.15					
15	16QAM	1	0	22.95	23.00	22.91	23.8	0			
15	16QAM	1	37	22.99	23.04	22.94					
15	16QAM	1	74	23.03	22.99	22.98					
15	16QAM	36	0	22.02	22.05	21.98					
15	16QAM	36	20	21.96	22.01	21.97			22.8	1	
15	16QAM	36	39	22.19	22.19	22.03					
15	16QAM	75	0	21.93	22.10	22.00					
15	64QAM	1	0	22.17	22.24	22.13	22.8	1			
15	64QAM	1	37	22.11	22.20	22.11					
15	64QAM	1	74	22.05	22.20	22.21					
15	64QAM	36	0	21.94	22.11	21.81					
15	64QAM	36	20	21.50	21.48	21.43			21.8	2	
15	64QAM	36	39	21.45	21.54	21.55					
15	64QAM	75	0	21.45	21.63	21.54					
15	256QAM	1	0	19.87	19.90	19.88	20.3	3.5			
15	256QAM	1	49	19.87	19.90	19.89					
15	256QAM	1	74	19.90	19.94	19.91					
15	256QAM	36	0	19.82	19.84	19.75					
15	256QAM	36	20	19.69	19.72	19.65			20.3	3.5	
15	256QAM	36	39	19.59	19.69	19.74					
15	256QAM	75	0	19.63	19.74	19.68					
Channel				37800	38000	38200	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2587.5	2605	2625					
10	QPSK	1	0	23.19	23.25	23.22	23.8	0			
10	QPSK	1	25	23.15	23.19	23.15					
10	QPSK	1	49	23.16	23.18	23.13					
10	QPSK	25	0	23.02	23.00	22.98					
10	QPSK	25	12	22.98	22.87	22.97			23.8	0	
10	QPSK	25	37	22.98	22.98	22.97					
10	QPSK	50	0	23.01	23.06	22.95					
10	16QAM	1	0	22.99	23.07	23.00	23.8	0			
10	16QAM	1	25	22.93	22.98	22.91					
10	16QAM	1	49	22.99	23.05	22.95					
10	16QAM	25	0	22.02	22.06	22.04					
10	16QAM	25	12	21.91	22.01	21.91			22.8	1	
10	16QAM	25	25	21.85	22.05	22.06					
10	16QAM	50	0	21.84	22.06	21.98					
10	64QAM	1	0	22.23	22.23	22.16	22.8	1			
10	64QAM	1	25	22.20	22.13	22.05					
10	64QAM	1	49	22.26	22.26	22.16					
10	64QAM	25	0	21.48	21.64	21.44					
10	64QAM	25	12	21.45	21.45	21.47			21.8	2	
10	64QAM	25	25	21.38	21.52	21.51					
10	64QAM	50	0	21.39	21.57	21.55					
10	256QAM	1	0	19.83	19.83	19.83	20.3	3.5			
10	256QAM	1	49	19.70	19.92	19.86					
10	256QAM	1	49	19.84	19.82	19.89					
10	256QAM	25	0	19.83	19.82	19.87					
10	256QAM	25	12	19.66	19.80	19.80			20.3	3.5	
10	256QAM	25	25	19.65	19.86	19.69					
10	256QAM	50	0	19.66	19.83	19.83					
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	23.27	23.30	23.24	23.8	0			
5	QPSK	1	12	23.21	23.20	23.17					
5	QPSK	1	24	23.15	23.15	23.11					
5	QPSK	12	0	23.00	23.07	22.97					
5	QPSK	12	13	22.99	22.99	22.99			23.8	0	
5	QPSK	25	0	23.13	22.93	23.02					
5	QPSK	25	0	23.01	23.02	23.04					
5	16QAM	1	0	22.96	23.00	22.99	23.8	0			
5	16QAM	1	12	23.03	23.01	22.91					
5	16QAM	1	24	22.99	23.00	22.99					
5	16QAM	12	0	22.02	22.03	22.06					
5	16QAM	12	7	21.90	22.04	21.88			22.8	1	
5	16QAM	12	13	21.86	22.04	22.06					
5	16QAM	25	0	21.96	22.07	22.00					
5	64QAM	1	0	22.18	22.27	22.16	22.8	1			
5	64QAM	1	12	22.15	22.18	22.18					
5	64QAM	1	24	22.02	22.17	22.19					
5	64QAM	12	0	21.54	21.62	21.44					
5	64QAM	12	7	21.45	21.47	21.44			21.8	2	
5	64QAM	12	13	21.38	21.55	21.50					
5	64QAM	25	0	21.45	21.55	21.55					
5	256QAM	1	0	19.80	19.94	19.88	20.3	3.5			
5	256QAM	1	12	19.83	19.79	19.71					
5	256QAM	1	24	19.84	19.95	19.87					
5	256QAM	12	0	19.76	19.79	19.73					
5	256QAM	12	7	19.64	19.72	19.65			20.3	3.5	
5	256QAM	12	13	19.65	19.78	19.78					
5	256QAM	25	0	19.75	19.73	19.72					

Band 38_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.83	21.85	21.79			
20	QPSK	1	99	21.78	21.80	21.71	22	0	
20	QPSK	50	0	21.75	21.77	21.71			
20	QPSK	50	24	21.63	21.65	21.56			
20	QPSK	50	50	21.67	21.68	21.62	22	0	
20	QPSK	100	0	21.63	21.66	21.59			
20	16QAM	1	0	21.67	21.70	21.64			
20	16QAM	1	49	21.69	21.72	21.65	22	0	
20	16QAM	1	99	21.73	21.77	21.74			
20	16QAM	50	0	21.68	21.75	21.69			
20	16QAM	50	24	21.68	21.77	21.74	22	0	
20	16QAM	50	50	21.76	21.80	21.74			
20	16QAM	100	0	21.73	21.76	21.74	22	0	
20	64QAM	1	0	21.77	21.79	21.68			
20	64QAM	1	49	21.70	21.72	21.73	22	0	
20	64QAM	1	99	21.68	21.75	21.64			
20	64QAM	50	0	21.72	21.75	21.66			
20	64QAM	50	24	21.74	21.76	21.71	22	0	
20	64QAM	50	50	21.73	21.73	21.73			
20	64QAM	100	0	21.71	21.71	21.74			
20	256QAM	1	0	20.65	20.62	20.58			
20	256QAM	1	49	20.63	20.65	20.58	21	1	
20	256QAM	1	99	20.53	20.68	20.65			
20	256QAM	50	0	20.64	20.67	20.62			
20	256QAM	50	24	20.57	20.65	20.51	21	1	
20	256QAM	50	50	20.46	20.60	20.52			
20	256QAM	100	0	20.65	20.68	20.54			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.72	21.74	21.72			
15	QPSK	1	37	21.54	21.57	21.55	22	0	
15	QPSK	1	74	21.73	21.68	21.58			
15	QPSK	36	0	21.61	21.67	21.66			
15	QPSK	36	20	21.54	21.59	21.48	22	0	
15	QPSK	36	39	21.62	21.54	21.56			
15	QPSK	75	0	21.68	21.64	21.54			
15	16QAM	1	0	21.64	21.66	21.64			
15	16QAM	1	37	21.57	21.62	21.60	22	0	
15	16QAM	1	74	21.60	21.69	21.59			
15	16QAM	36	0	21.62	21.70	21.54			
15	16QAM	36	20	21.62	21.62	21.68	22	0	
15	16QAM	36	39	21.67	21.57	21.66			
15	16QAM	75	0	21.68	21.64	21.58			
15	64QAM	1	0	21.68	21.71	21.60			
15	64QAM	1	37	21.56	21.57	21.65	22	0	
15	64QAM	1	74	21.57	21.70	21.57			
15	64QAM	36	0	21.63	21.63	21.61			
15	64QAM	36	20	21.69	21.62	21.52	22	0	
15	64QAM	36	39	21.68	21.63	21.58			
15	64QAM	75	0	21.61	21.66	21.65			
15	256QAM	1	0	20.54	20.70	20.47			
15	256QAM	1	49	20.52	20.68	20.56	21	1	
15	256QAM	1	99	20.46	20.80	20.53			
15	256QAM	50	0	20.59	20.68	20.56			
15	256QAM	50	20	20.52	20.64	20.50	21	1	
15	256QAM	50	39	20.31	20.49	20.52			
15	256QAM	75	0	20.53	20.55	20.46			
Channel				37800	38000	38200	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25875	2595	2615 <th></th> <th></th> <th></th>			
10	QPSK	1	0	21.69	21.70	21.74			
10	QPSK	1	25	21.57	21.65	21.57	22	0	
10	QPSK	1	49	21.68	21.66	21.60			
10	QPSK	25	0	21.69	21.65	21.57			
10	QPSK	25	12	21.57	21.52	21.50	22	0	
10	QPSK	25	37	21.65	21.59	21.51			
10	QPSK	50	0	21.57	21.55	21.48			
10	16QAM	1	0	21.56	21.70	21.60			
10	16QAM	1	25	21.61	21.66	21.58	22	0	
10	16QAM	1	49	21.62	21.71	21.62			
10	16QAM	25	0	21.61	21.62	21.63			
10	16QAM	25	12	21.50	21.63	21.68	22	0	
10	16QAM	25	25	21.70	21.74	21.63			
10	16QAM	50	0	21.62	21.65	21.53			
10	64QAM	1	0	21.64	21.69	21.51			
10	64QAM	1	25	21.64	21.60	21.62	22	0	
10	64QAM	25	0	21.64	21.60	21.54			
10	64QAM	25	12	21.67	21.65	21.51			
10	64QAM	25	25	21.64	21.58	21.65	22	0	
10	64QAM	50	0	21.65	21.65	21.68			
10	256QAM	1	0	20.61	20.61	20.58			
10	256QAM	25	0	20.59	20.58	20.47	21	1	
10	256QAM	1	49	20.44	20.64	20.54			
10	256QAM	25	0	20.51	20.60	20.53			
10	256QAM	25	12	20.42	20.55	20.47	21	1	
10	256QAM	25	25	20.40	20.46	20.42			
10	256QAM	50	0	20.59	20.59	20.54	22	0	
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5 <th></th> <th></th> <th></th>			
5	QPSK	1	0	21.75	21.70	21.67			
5	QPSK	1	12	21.59	21.57	21.55	22	0	
5	QPSK	1	24	21.64	21.71	21.54			
5	QPSK	12	0	21.64	21.71	21.64			
5	QPSK	12	7	21.56	21.56	21.56	22	0	
5	QPSK	12	13	21.66	21.51	21.48			
5	QPSK	25	0	21.57	21.60	21.45			
5	16QAM	1	0	21.58	21.68	21.58			
5	16QAM	1	12	21.61	21.62	21.56	22	0	
5	16QAM	1	24	21.65	21.65	21.65			
5	16QAM	12	0	21.54	21.62	21.62			
5	16QAM	12	7	21.58	21.66	21.64	22	0	
5	16QAM	12	13	21.65	21.70	21.59			
5	16QAM	25	0	21.67	21.65	21.54			
5	64QAM	1	0	21.71	21.71	21.53			
5	64QAM	1	12	21.64	21.63	21.63	22	0	
5	64QAM	1	24	21.59	21.66	21.55			
5	64QAM	12	0	21.67	21.63	21.51			
5	64QAM	12	7	21.66	21.67	21.57	22	0	
5	64QAM	12	13	21.63	21.59	21.67			
5	64QAM	25	0	21.61	21.61	21.54			
5	256QAM	1	0	20.55	20.66	20.43			
5	256QAM	1	12	20.53	20.64	20.53	21	1	
5	256QAM	1	24	20.40	20.63	20.52			
5	256QAM	12	0	20.54	20.63	20.58			
5	256QAM	12	7	20.57	20.52	20.39	21	1	
5	256QAM	12	13	20.52	20.52	20.39			
5	256QAM	25	0	20.65	20.66	20.49			

Band 38_An 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-on time (dtm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.41	24.43	24.40			
20	QPSK	1	49	24.34	24.37	24.33	25	0	
20	QPSK	1	99	24.27	24.30	24.27			
20	QPSK	50	0	23.43	23.45	23.41			
20	QPSK	50	24	23.38	23.40	23.35	24	1	
20	QPSK	50	50	23.28	23.32	23.40			
20	QPSK	100	0	23.41	23.43	23.40			
20	16QAM	1	0	23.46	23.47	23.47			
20	16QAM	1	49	23.33	23.43	23.33	24	1	
20	16QAM	1	99	23.35	23.40	23.39			
20	16QAM	50	0	22.41	22.51	22.38			
20	16QAM	50	24	22.29	22.43	22.31	23	2	
20	16QAM	50	50	22.37	22.40	22.27			
20	16QAM	100	0	22.46	22.47	22.47			
20	64QAM	1	0	22.62	22.68	22.61			
20	64QAM	1	49	22.47	22.56	22.53	23	2	
20	64QAM	1	99	22.55	22.62	22.47			
20	64QAM	50	0	21.96	22.05	21.93			
20	64QAM	50	24	22.00	22.01	22.00	22.5	2.5	
20	64QAM	50	50	21.88	21.95	21.94			
20	64QAM	100	0	21.95	22.01	21.97			
20	256QAM	1	0	20.34	20.43	20.37			
20	256QAM	1	49	20.35	20.40	20.28	21	4	
20	256QAM	1	99	20.27	20.38	20.25			
20	256QAM	50	0	20.34	20.38	20.35			
20	256QAM	50	24	20.24	20.31	20.24	21	4	
20	256QAM	50	50	20.22	20.30	20.24			
20	256QAM	100	0	20.21	20.33	20.30			
Channel				37725	38000	38175			
Frequency (MHz)				25713	2595	2617.5			
15	QPSK	1	0	24.33	24.33	24.33			
15	QPSK	1	37	24.19	24.25	24.18	25	0	
15	QPSK	1	74	24.28	24.26	24.32			
15	QPSK	36	0	23.28	23.40	23.38			
15	QPSK	36	20	23.34	23.30	23.20	24	1	
15	QPSK	36	39	23.23	23.31	23.35			
15	QPSK	75	0	23.28	23.32	23.24			
15	16QAM	1	0	23.45	23.44	23.41			
15	16QAM	1	37	23.22	23.42	23.32	24	1	
15	16QAM	1	74	23.33	23.28	23.34			
15	16QAM	36	0	22.30	22.49	22.24			
15	16QAM	36	20	22.20	22.31	22.20	23	2	
15	16QAM	36	39	22.27	22.35	22.27			
15	16QAM	75	0	22.30	22.38	22.41			
15	64QAM	1	0	22.58	22.63	22.57			
15	64QAM	1	37	22.41	22.45	22.43	23	2	
15	64QAM	1	74	22.49	22.51	22.34			
15	64QAM	36	0	21.90	21.91	21.90			
15	64QAM	36	20	21.97	21.98	21.87	22.5	2.5	
15	64QAM	36	39	21.73	21.93	21.93			
15	64QAM	75	0	21.83	21.87	21.83			
15	256QAM	1	0	20.30	20.32	20.35			
15	256QAM	1	49	20.28	20.36	20.25	21	4	
15	256QAM	1	99	20.18	20.26	20.11			
15	256QAM	50	0	20.21	20.25	20.27			
15	256QAM	50	20	20.11	20.16	20.10	21	4	
15	256QAM	50	39	20.14	20.29	20.16			
15	256QAM	75	0	20.20	20.28	20.25			
Channel				37675	38000	38225			
Frequency (MHz)				25765	2595	2615			
10	QPSK	1	0	24.38	24.28	24.29			
10	QPSK	1	25	24.33	24.31	24.19	25	0	
10	QPSK	1	49	24.15	24.31	24.32			
10	QPSK	25	0	23.37	23.34	23.36			
10	QPSK	25	12	23.34	23.25	23.31	24	1	
10	QPSK	25	25	23.28	23.28	23.31			
10	QPSK	50	0	23.20	23.38	23.31			
10	16QAM	1	0	23.38	23.45	23.32			
10	16QAM	1	25	23.32	23.31	23.28	24	1	
10	16QAM	1	49	23.27	23.28	23.24			
10	16QAM	25	0	22.26	22.45	22.24			
10	16QAM	25	12	22.18	22.38	22.25	23	2	
10	16QAM	25	25	22.36	22.31	22.25			
10	16QAM	50	0	22.37	22.45	22.37			
10	64QAM	1	0	22.49	22.54	22.58			
10	64QAM	1	25	22.45	22.52	22.47	23	2	
10	64QAM	1	49	22.50	22.52	22.44			
10	64QAM	25	0	21.92	22.01	21.91			
10	64QAM	25	12	21.95	21.89	21.90	22.5	2.5	
10	64QAM	25	25	21.73	21.91	21.86			
10	64QAM	50	0	21.80	21.92	21.94			
10	256QAM	1	0	20.21	20.25	20.28			
10	256QAM	1	25	20.31	20.35	20.27	21	4	
10	256QAM	1	49	20.23	20.32	20.20			
10	256QAM	25	0	20.26	20.34	20.20			
10	256QAM	25	12	20.23	20.20	20.12	21	4	
10	256QAM	25	25	20.10	20.20	20.20			
10	256QAM	50	0	20.14	20.20	20.20			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.26	24.33	24.26			
5	QPSK	1	12	24.29	24.28	24.26	25	0	
5	QPSK	1	24	24.19	24.30	24.29			
5	QPSK	12	0	23.25	23.36	23.27			
5	QPSK	12	7	23.27	23.32	23.25	24	1	
5	QPSK	12	13	23.15	23.27	23.35			
5	QPSK	25	0	23.33	23.42	23.27			
5	16QAM	1	0	23.44	23.40	23.38			
5	16QAM	1	12	23.24	23.33	23.32	24	1	
5	16QAM	12	7	23.20	23.31	23.26			
5	16QAM	12	0	22.33	22.38	22.28			
5	16QAM	12	7	22.21	22.29	22.21	23	2	
5	16QAM	12	13	22.25	22.27	22.27			
5	16QAM	25	0	22.60	22.50	22.33			
5	64QAM	1	0	22.65	22.67	22.63			
5	64QAM	1	12	22.43	22.54	22.41	23	2	
5	64QAM	1	24	22.46	22.54	22.42			
5	64QAM	12	0	21.83	21.96	21.82			
5	64QAM	12	7	21.88	21.94	21.96	22.5	2.5	
5	64QAM	12	13	21.82	21.89	21.80			
5	64QAM	25	0	21.94	22.07	21.88			
5	256QAM	1	0	20.19	20.27	20.30			
5	256QAM	1	12	20.21	20.25	20.16	21	4	
5	256QAM	1	24	20.21	20.27	20.21			
5	256QAM	12	0	20.19	20.24	20.21			
5	256QAM	12	7	20.12	20.29	20.17	21	4	
5	256QAM	12	13	20.08	20.20	20.10			
5	256QAM	25	0	20.17	20.22	20.19			

Band 41_Ant 13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power Low High Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBm)	MPR (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.90	23.08	24.12	24.05	24.10	25	0		
20	QPSK	1	49	23.74	24.04	24.00	23.97	24.01				
20	QPSK	1	99	23.79	23.97	24.02	23.94	24.08				
20	QPSK	50	0	22.85	23.10	23.15	23.08	23.13				
20	QPSK	50	24	22.80	23.06	23.13	22.93	23.08	24	1		
20	QPSK	50	50	22.80	23.07	23.01	22.95	23.06				
20	QPSK	100	0	22.83	23.08	23.13	23.06	23.11				
20	16QAM	1	0	23.13	23.02	23.14	23.02	23.07				
20	16QAM	1	49	23.07	23.03	23.13	23.05	23.05	24	1		
20	16QAM	1	99	22.96	22.99	23.10	23.08	23.00				
20	16QAM	50	0	22.00	22.11	22.14	22.08	22.06				
20	16QAM	50	24	22.02	22.08	22.10	21.98	22.05				
20	16QAM	50	50	22.06	22.03	22.11	21.99	22.05	23	2		
20	16QAM	100	0	22.01	21.99	22.13	22.09	22.00				
20	64QAM	1	0	22.28	22.32	22.33	22.24	22.24				
20	64QAM	1	49	22.19	22.17	22.26	22.20	22.17				
20	64QAM	1	99	22.11	22.18	22.23	22.16	22.21	23	2		
20	64QAM	50	0	21.69	21.70	21.71	21.70	21.61				
20	64QAM	50	24	21.53	21.57	21.67	21.60	21.52				
20	64QAM	50	50	21.51	21.50	21.60	21.59	21.55				
20	64QAM	100	0	21.56	21.55	21.70	21.69	21.55	20.5	4.5		
20	256QAM	1	0	19.97	20.01	20.06	19.94	19.97				
20	256QAM	1	49	19.94	19.97	20.01	19.99	19.93				
20	256QAM	1	99	19.92	19.95	19.98	19.89	19.94				
20	256QAM	50	0	19.86	19.85	19.91	19.85	19.76	20.5	4.5		
20	256QAM	50	24	19.70	19.77	19.85	19.78	19.84				
20	256QAM	50	50	19.75	19.81	19.88	19.84	19.87				
20	256QAM	100	0	19.88	19.74	19.89	19.80	19.77				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.68	24.05	23.98	23.94	24.00	25	0		
15	QPSK	1	37	23.72	23.98	23.92	23.90	23.99				
15	QPSK	1	74	23.65	23.82	23.94	23.80	23.96				
15	QPSK	36	0	22.73	22.98	23.06	22.99	23.00				
15	QPSK	36	20	22.65	22.92	22.98	22.91	22.98	24	1		
15	QPSK	36	39	22.67	22.93	22.94	22.94	22.99				
15	QPSK	75	0	22.70	23.03	23.02	22.93	23.06				
15	16QAM	1	0	22.98	22.91	23.01	23.01	22.96				
15	16QAM	1	37	22.96	22.88	23.12	22.90	22.95	24	1		
15	16QAM	1	74	22.93	22.85	22.98	22.88	22.97				
15	16QAM	36	0	21.92	22.08	22.02	21.99	21.96				
15	16QAM	36	20	21.99	22.04	22.01	21.83	21.98				
15	16QAM	36	39	22.05	22.01	22.01	21.95	22.00	23	2		
15	16QAM	75	0	21.99	21.88	22.11	21.94	21.91				
15	64QAM	1	0	22.18	22.18	22.19	22.14	22.14				
15	64QAM	1	37	22.09	22.04	22.24	22.08	22.11				
15	64QAM	1	74	22.03	22.10	22.16	22.08	22.17	23	2		
15	64QAM	36	0	21.56	21.65	21.62	21.55	21.58				
15	64QAM	36	20	21.39	21.42	21.66	21.48	21.47				
15	64QAM	36	39	21.39	21.39	21.53	21.44	21.52				
15	64QAM	75	0	21.43	21.46	21.68	21.57	21.53	20.5	4.5		
15	256QAM	1	0	19.92	19.86	20.03	19.84	19.87				
15	256QAM	1	37	19.92	19.92	19.92	19.84	19.88				
15	256QAM	1	74	19.86	19.84	19.84	19.79	19.79				
15	256QAM	36	0	19.72	19.81	19.80	19.71	19.72	20.5	4.5		
15	256QAM	36	20	19.65	19.62	19.76	19.72	19.77				
15	256QAM	36	39	19.66	19.68	19.81	19.73	19.79				
15	256QAM	75	0	19.87	19.62	19.74	19.77	19.72				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.68	24.00	23.97	23.98	23.97	25	0		
10	QPSK	1	25	23.63	24.00	23.91	23.92	23.89				
10	QPSK	1	49	23.69	23.92	23.97	23.86	23.93				
10	QPSK	25	0	22.72	23.00	23.14	23.03	23.09				
10	QPSK	25	12	22.72	22.93	22.98	22.91	23.00	24	1		
10	QPSK	25	25	22.67	23.05	22.87	22.85	23.02				
10	QPSK	50	0	22.68	23.05	22.99	22.96	23.05				
10	16QAM	1	0	23.12	23.01	23.07	22.87	23.05				
10	16QAM	1	25	23.00	23.02	23.03	22.95	23.04	24	1		
10	16QAM	1	49	22.94	23.09	23.03	22.92	23.05				
10	16QAM	25	0	21.98	22.09	22.02	22.08	22.00				
10	16QAM	25	12	21.91	22.04	22.08	21.96	21.99				
10	16QAM	25	25	21.93	21.96	21.96	21.86	21.94	23	2		
10	16QAM	50	0	21.90	21.97	22.03	22.06	21.88				
10	64QAM	1	0	22.13	22.13	22.19	22.21	22.11				
10	64QAM	1	25	22.04	22.08	22.12	22.18	22.08				
10	64QAM	1	49	22.02	22.10	22.09	22.04	22.10	22	3		
10	64QAM	25	0	21.60	21.68	21.56	21.60	21.46				
10	64QAM	25	12	21.48	21.54	21.65	21.53	21.48				
10	64QAM	25	25	21.36	21.28	21.55	21.49	21.48				
10	64QAM	50	0	21.51	21.41	21.58	21.57	21.48	21	1		
10	256QAM	1	0	19.96	19.96	20.01	19.88	19.90				
10	256QAM	1	25	19.92	19.90	19.88	19.91	19.90				
10	256QAM	1	49	19.84	19.90	19.91	19.87	19.89				
10	256QAM	25	0	19.82	19.70	19.89	19.83	19.61	20.5	4.5		
10	256QAM	25	12	19.67	19.73	19.83	19.70	19.77				
10	256QAM	25	25	19.74	19.78	19.78	19.74	19.83				
10	256QAM	50	0	19.84	19.72	19.74	19.73	19.69				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.75	24.02	24.04	24.00	23.96	25	0		
5	QPSK	1	12	23.70	23.91	23.95	23.83	23.88				
5	QPSK	1	24	23.69	23.96	23.99	23.82	23.99				
5	QPSK	12	0	22.84	23.02	23.10	23.00	23.03				
5	QPSK	12	7	22.85	22.98	23.11	22.84	22.96	24	1		
5	QPSK	12	13	22.67	23.05	22.90	22.85	23.01				
5	QPSK	25	0	22.82	23.06	23.04	22.95	23.05				
5	16QAM	1	0	23.10	23.00	23.10	22.97	23.01				
5	16QAM	1	12	22.99	22.90	23.11	22.98	22.90	24	1		
5	16QAM	1	24	22.83	22.86	23.09	23.00	22.95				
5	16QAM	12	0	21.97	22.08	22.05	22.02	21.97				
5	16QAM	12	7	22.01	22.00	22.04	21.89	22.03				
5	16QAM	12	13	22.04	21.98	22.01	21.93	22.02	23	2		
5	64QAM	1	0	21.98	21.94	22.01	21.96	21.86				
5	64QAM	12	0	22.14	22.28	22.30	22.15	22.41				
5	64QAM	25	0	21.42	21.44	21.68	21.67	21.41				
5	256QAM	1	0	19.84	19.91	19.96	19.85	19.86	20.5	4.5		
5	256QAM	1	12	19.82	19.86	19.90	19.88	19.89				
5	256QAM	1	24	19.82	19.82	19.90	19.80	19.82				
5	256QAM	12	0	19.71	19.74	19.89	19.74	19.66				
5	256QAM	12	7	19.60	19.68	19.79	19.70	19.82	20.5	4.5		
5	256QAM	25	0	19.75	19.60	19.74	19.74	19.75				

Band 41_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Mid Ch / Freq	Power Low Mid Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-on limit (dBm)	MFR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.51	21.73	21.96	21.66	21.79		
20	QPSK	1	49	21.26	21.48	21.79	21.41	21.63	22	0
20	QPSK	1	99	21.26	21.48	21.79	21.41	21.63	22	0
20	QPSK	50	0	21.30	21.66	21.88	21.53	21.75		
20	QPSK	50	24	21.17	21.45	21.74	21.39	21.62		
20	QPSK	50	50	21.17	21.45	21.66	21.39	21.59	22	0
20	QPSK	100	0	21.22	21.49	21.67	21.39	21.60		
20	16QAM	1	0	21.29	21.56	21.80	21.49	21.59		
20	16QAM	1	49	21.29	21.56	21.80	21.49	21.59	22	0
20	16QAM	1	99	21.31	21.55	21.77	21.49	21.54		
20	16QAM	50	0	21.27	21.48	21.77	21.54	21.56		
20	16QAM	50	24	21.35	21.50	21.71	21.51	21.57	22	0
20	16QAM	50	50	21.28	21.53	21.72	21.56	21.58		
20	16QAM	100	0	21.28	21.56	21.73	21.53	21.57	22	0
20	64QAM	1	0	21.30	21.55	21.74	21.51	21.83		
20	64QAM	1	49	21.27	21.52	21.71	21.55	21.67	22	0
20	64QAM	1	99	21.29	21.50	21.72	21.52	21.58		
20	64QAM	50	0	21.33	21.49	21.73	21.49	21.54		
20	64QAM	50	24	21.33	21.53	21.72	21.51	21.56	22	0
20	64QAM	50	50	21.35	21.48	21.71	21.54	21.79		
20	64QAM	100	0	21.27	21.51	21.74	21.47	21.54		
20	256QAM	1	0	20.18	20.43	20.71	20.39	20.43		
20	256QAM	1	49	20.08	20.39	20.62	20.27	20.31	21	1
20	256QAM	1	99	20.23	20.36	20.68	20.26	20.41		
20	256QAM	50	0	20.18	20.43	20.68	20.39	20.43		
20	256QAM	50	24	20.17	20.38	20.61	20.18	20.29	21	1
20	256QAM	50	50	20.08	20.35	20.63	20.21	20.29		
20	256QAM	100	0	20.14	20.36	20.65	20.22	20.43		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Turn-on limit (dBm)	MFR (dB)
15	QPSK	1	0	21.33	21.55	21.79	21.48	21.69		
15	QPSK	1	37	21.29	21.53	21.78	21.33	21.57	22	0
15	QPSK	1	74	21.20	21.41	21.65	21.40	21.64		
15	QPSK	36	0	21.22	21.45	21.71	21.37	21.57		
15	QPSK	36	20	21.09	21.37	21.60	21.26	21.48	22	0
15	QPSK	36	39	21.04	21.39	21.52	21.29	21.59		
15	QPSK	75	0	21.17	21.40	21.65	21.36	21.57		
15	16QAM	1	0	21.21	21.46	21.72	21.46	21.52		
15	16QAM	1	37	21.13	21.41	21.65	21.47	21.55	22	0
15	16QAM	1	74	21.19	21.44	21.62	21.42	21.39		
15	16QAM	36	0	21.22	21.36	21.68	21.54	21.49		
15	16QAM	36	20	21.26	21.38	21.61	21.45	21.54	22	0
15	16QAM	36	39	21.26	21.38	21.61	21.45	21.54		
15	16QAM	75	0	21.23	21.46	21.65	21.40	21.60		
15	16QAM	1	0	21.24	21.40	21.63	21.48	21.59		
15	64QAM	1	37	21.14	21.44	21.68	21.54	21.60	22	0
15	64QAM	1	74	21.17	21.37	21.63	21.52	21.57		
15	64QAM	36	0	21.28	21.36	21.66	21.54	21.46		
15	64QAM	36	20	21.23	21.40	21.62	21.28	21.52	22	0
15	64QAM	36	39	21.23	21.33	21.70	21.53	21.55		
15	64QAM	75	0	21.13	21.44	21.63	21.34	21.44		
15	256QAM	1	0	20.18	20.32	20.60	20.28	20.42		
15	256QAM	1	37	19.95	20.36	20.57	20.15	20.28	21	1
15	256QAM	1	74	20.14	20.22	20.57	20.16	20.32		
15	256QAM	36	0	20.04	20.32	20.64	20.17	20.30		
15	256QAM	36	20	19.93	20.24	20.47	20.12	20.19		
15	256QAM	36	39	20.05	20.29	20.61	20.20	20.27	21	1
15	256QAM	75	0	20.06	20.24	20.59	20.11	20.37		
Channel				39700	40160	40620	41080	41530	Turn-on limit (dBm)	MFR (dB)
Frequency (MHz)				2501	25457	25933	26383	26833		
10	QPSK	1	0	21.33	21.50	21.79	21.44	21.58		
10	QPSK	1	25	21.33	21.33	21.68	21.40	21.61	22	0
10	QPSK	1	49	21.22	21.37	21.68	21.29	21.61		
10	QPSK	25	0	21.19	21.45	21.67	21.40	21.65		
10	QPSK	25	12	21.12	21.31	21.63	21.39	21.57		
10	QPSK	25	25	21.05	21.24	21.56	21.38	21.46	22	0
10	QPSK	50	0	21.14	21.42	21.62	21.30	21.54		
10	16QAM	1	0	21.23	21.49	21.65	21.38	21.48		
10	16QAM	1	25	21.16	21.49	21.68	21.36	21.65	22	0
10	16QAM	1	49	21.25	21.44	21.70	21.40	21.48		
10	16QAM	25	0	21.16	21.43	21.66	21.52	21.50		
10	16QAM	25	12	21.22	21.44	21.67	21.37	21.44	22	0
10	16QAM	25	25	21.16	21.48	21.65	21.50	21.52		
10	16QAM	50	0	21.23	21.45	21.65	21.48	21.51		
10	64QAM	1	0	21.23	21.48	21.59	21.46	21.57		
10	64QAM	1	25	21.16	21.47	21.62	21.42	21.57	22	0
10	64QAM	1	49	21.25	21.44	21.69	21.43	21.43		
10	64QAM	25	0	21.19	21.40	21.58	21.46	21.46		
10	64QAM	25	12	21.22	21.41	21.62	21.28	21.47	22	0
10	64QAM	25	25	21.30	21.43	21.74	21.41	21.57		
10	64QAM	50	0	21.12	21.38	21.60	21.40	21.53		
10	256QAM	1	0	20.07	20.35	20.64	20.31	20.29	21	0
10	256QAM	1	25	20.08	20.35	20.64	20.19	20.21		
10	256QAM	1	49	20.14	20.21	20.66	20.19	20.40	21	1
10	256QAM	25	0	20.01	20.29	20.68	20.17	20.23		
10	256QAM	25	12	20.05	20.32	20.52	20.13	20.15	21	1
10	256QAM	25	25	20.00	20.28	20.57	20.19	20.21		
Channel				39675	40168	40620	41093	41555	Turn-on limit (dBm)	MFR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.30	21.48	21.78	21.50	21.61		
5	QPSK	1	12	21.12	21.41	21.69	21.31	21.61	22	0
5	QPSK	1	24	21.18	21.43	21.70	21.42	21.54		
5	QPSK	12	0	21.14	21.52	21.65	21.35	21.51		
5	QPSK	12	7	21.07	21.42	21.68	21.26	21.56	22	0
5	QPSK	12	13	21.04	21.32	21.58	21.35	21.41		
5	QPSK	25	0	21.14	21.34	21.55	21.26	21.59		
5	16QAM	1	0	21.21	21.48	21.74	21.36	21.53		
5	16QAM	1	12	21.19	21.42	21.67	21.38	21.59	22	0
5	16QAM	1	24	21.25	21.44	21.69	21.43	21.43		
5	16QAM	12	7	21.16	21.36	21.71	21.40	21.52		
5	16QAM	12	7	21.27	21.42	21.59	21.41	21.57	22	0
5	16QAM	12	13	21.21	21.38	21.64	21.56	21.48		
5	16QAM	25	0	21.19	21.42	21.71	21.50	21.49		
5	64QAM	1	0	21.24	21.49	21.69	21.41	21.56		
5	64QAM	1	12	21.21	21.39	21.64	21.38	21.56	22	0
5	64QAM	1	24	21.24	21.42	21.62	21.47	21.46		
5	64QAM	12	0	21.19	21.36	21.58	21.47	21.52		
5	64QAM	12	7	21.20	21.48	21.67	21.38	21.49	22	0
5	64QAM	12	13	21.25	21.35	21.73	21.50	21.46		
5	256QAM	1	0	20.17	20.31	20.66	20.38	20.33		
5	256QAM	1	12	19.97	20.28	20.61	20.13	20.30	21	1
5	256QAM	1	24	20.12	20.22	20.59	20.19	20.26		
5	256QAM	12	0	20.05	20.34	20.60	20.27	20.27		
5	256QAM	12	7	20.03	20.31	20.59	20.09	20.28	21	1
5	256QAM	12	13	20.07	20.29	20.58	20.20	20.24		
5	256QAM	25	0	20.05	20.32	20.59	20.08	20.32		

Reduced Power Mode for ECI 5

GSM850_Ant 13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	524.2	836.4	848.8	524.2	836.4	848.8		
GSM 1 Tx slot	32.15	32.16	32.13	33.50	23.15	23.16	23.13	24.50
GPRS/EDGE GMSK 1 Tx slot	32.13	32.15	32.11	33.50	23.13	23.15	23.11	24.50
GPRS/EDGE GMSK 2 Tx slots	30.11	30.13	30.10	31.50	24.11	24.13	24.10	25.50
GPRS/EDGE GMSK 3 Tx slots	27.88	27.90	27.86	29.50	23.62	23.64	23.60	25.24
GPRS/EDGE GMSK 4 Tx slots	26.26	26.28	26.25	28.00	23.26	23.28	23.25	25.00
EDGE BPSK 1 Tx slot	26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50
EDGE BPSK 2 Tx slots	24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00
EDGE BPSK 3 Tx slots	22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74
EDGE BPSK 4 Tx slots	20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00

GSM1800_Ant 13	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1830	1850.6	1522.2	1830	1850.6		
GSM 1 Tx slot	20.03	29.20	28.35	29.30	19.03	19.20	19.35	20.30
GPRS/EDGE GMSK 1 Tx slot	28.03	28.35	28.34	29.30	19.03	19.35	19.34	20.30
GPRS/EDGE GMSK 2 Tx slots	24.81	25.08	25.12	25.80	18.81	19.08	19.12	19.80
GPRS/EDGE GMSK 3 Tx slots	22.77	23.01	23.03	23.50	18.51	18.75	18.77	19.24
GPRS/EDGE GMSK 4 Tx slots	21.38	21.65	21.71	22.60	18.36	18.66	18.71	19.60
EDGE BPSK 1 Tx slot	25.71	25.73	25.70	26.50	18.71	18.73	18.70	17.50
EDGE BPSK 2 Tx slots	23.73	23.76	23.71	24.50	17.73	17.76	17.71	18.50
EDGE BPSK 3 Tx slots	21.71	21.73	21.68	22.50	17.45	17.47	17.42	18.24
EDGE BPSK 4 Tx slots	20.10	20.12	20.08	21.00	17.10	17.12	17.08	18.00

Band	WCDMA II_Ant 13			Tune-up Limit (dbm)	WCDMA II_Ant 31			Tune-up Limit (dbm)
	TX Channel	9662	9400		9662	9400	9538	
Rx Channel	9662	9800	9938	9662	9800	9938		
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6		
3GPP Rel 99 AMR 12.2Kbps	19.02	19.09	19.05	20.20	20.40	20.43	20.39	21.20
3GPP Rel 99 RMC 12.2Kbps	19.06	19.12	19.08	20.20	20.46	20.51	20.47	21.20
3GPP Rel 6 HSDPA Subtest-1	18.98	18.97	19.01	20.20	20.35	20.38	20.34	21.20
3GPP Rel 6 HSDPA Subtest-2	18.92	19.07	18.99	20.20	20.35	20.41	20.42	21.20
3GPP Rel 6 HSDPA Subtest-3	19.00	19.03	19.01	20.20	20.37	20.37	20.39	21.20
3GPP Rel 6 HSDPA Subtest-4	18.99	18.96	19.03	20.20	20.38	20.46	20.35	21.20
3GPP Rel 6 DC-HSDPA Subtest-1	18.94	19.02	19.00	20.20	20.40	20.40	20.32	21.20
3GPP Rel 6 DC-HSDPA Subtest-2	18.94	19.04	18.98	20.20	20.33	20.44	20.32	21.20
3GPP Rel 6 DC-HSDPA Subtest-3	18.99	18.98	18.99	20.20	20.31	20.37	20.37	21.20
3GPP Rel 6 DC-HSDPA Subtest-4	18.94	18.97	19.02	20.20	20.36	20.39	20.35	21.20
3GPP Rel 6 HSUPA Subtest-1	18.91	19.05	18.93	20.20	20.37	20.46	20.42	21.20
3GPP Rel 6 HSUPA Subtest-2	18.96	19.06	18.94	20.20	20.35	20.42	20.35	21.20
3GPP Rel 6 HSUPA Subtest-3	18.97	19.00	18.99	20.20	20.33	20.39	20.35	21.20
3GPP Rel 6 HSUPA Subtest-4	18.96	18.99	18.96	20.20	20.40	20.36	20.42	21.20
3GPP Rel 6 HSUPA Subtest-5	18.99	19.05	18.97	20.20	20.40	20.41	20.39	21.20
3GPP Rel 7 HSPA+ (10QAM) Subtest-1	18.98	19.07	19.01	20.20	20.41	20.40	20.41	21.20

Band	WCDMA V_Ant 13			Tune-up Limit (dbm)	WCDMA V_Ant 31			Tune-up Limit (dbm)
	TX Channel	4132	4182		4132	4182	4233	
Rx Channel	4357	4407	4458	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6	826.4	836.4	846.6		
3GPP Rel 99 AMR 12.2Kbps	23.53	23.58	23.51	25.00	23.83	23.98	23.81	25.00
3GPP Rel 99 RMC 12.2Kbps	23.55	23.60	23.53	25.00	23.85	23.90	23.83	25.00
3GPP Rel 6 HSDPA Subtest-1	22.66	22.59	22.54	24.00	23.08	23.01	22.96	24.00
3GPP Rel 6 HSDPA Subtest-2	22.62	22.61	22.52	24.00	23.03	23.02	22.99	24.00
3GPP Rel 6 HSDPA Subtest-3	22.21	22.14	22.08	23.50	22.62	22.59	22.52	23.50
3GPP Rel 6 HSDPA Subtest-4	22.12	22.12	22.05	23.50	22.56	22.55	22.47	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.53	22.44	22.52	24.00	22.98	22.93	22.83	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.53	22.48	22.38	24.00	22.93	23.00	22.84	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	22.18	22.04	21.98	23.50	22.57	22.54	22.40	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	22.02	22.03	21.94	23.50	22.49	22.45	22.40	23.50
3GPP Rel 6 HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96	22.00
3GPP Rel 6 HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98	22.00
3GPP Rel 6 HSUPA Subtest-3	21.60	21.63	21.55	23.00	21.98	22.02	21.97	23.00
3GPP Rel 6 HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43	21.50
3GPP Rel 6 HSUPA Subtest-5	21.60	21.60	21.50	23.00	22.00	22.00	21.90	23.00
3GPP Rel 7 HSPA+ (10QAM) Subtest-1	20.17	20.20	20.15	21.50	20.55	20.66	20.62	21.50

GSM1800_Ant 31	Burst Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel	512	661		512	661	810	
Frequency (MHz)	1522.2	1830	1850.6	1522.2	1830	1850.6		
GSM 1 Tx slot	29.57	29.60	29.55	30.20	20.57	20.60	20.55	21.20
GPRS/EDGE GMSK 1 Tx slot	29.55	29.58	29.53	30.20	20.55	20.56	20.53	21.20
GPRS/EDGE GMSK 2 Tx slots	26.53	26.55	26.51	26.70	20.53	20.55	20.51	20.70
GPRS/EDGE GMSK 3 Tx slots	24.30	24.31	24.30	24.40	20.04	20.05	20.04	20.14
GPRS/EDGE GMSK 4 Tx slots	23.09	23.07	23.06	23.50	20.09	20.07	20.06	20.50
EDGE BPSK 1 Tx slot	26.18	26.21	26.16	26.50	17.18	17.16	17.14	17.50
EDGE BPSK 2 Tx slots	24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots	22.20	22.23	22.17	22.50	17.94	17.97	17.91	18.24
EDGE BPSK 4 Tx slots	20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band	WCDMA IV_Ant 13			Tune-up Limit (dbm)	WCDMA IV_Ant 31			Tune-up Limit (dbm)
	TX Channel	1312	1413		1312	1413	1513	
Rx Channel	1537	1638	1738	1537	1638	1738		
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6		
3GPP Rel 99 AMR 12.2Kbps	20.01	20.08	19.70	21.20	21.63	21.81	21.52	22.20
3GPP Rel 99 RMC 12.2Kbps	20.06	20.22	19.85	21.20	21.72	21.90	21.60	22.20
3GPP Rel 6 HSDPA Subtest-1	20.02	20.09	19.79	21.20	21.61	21.78	21.49	22.20
3GPP Rel 6 HSDPA Subtest-2	20.03	20.15	19.76	21.20	21.61	21.79	21.47	22.20
3GPP Rel 6 HSDPA Subtest-3	20.03	20.07	19.73	21.20	21.57	21.81	21.55	22.20
3GPP Rel 6 HSDPA Subtest-4	19.98	20.10	19.73	21.20	21.65	21.85	21.49	22.20
3GPP Rel 6 DC-HSDPA Subtest-1	19.97	20.11	19.72	21.20	21.63	21.85	21.49	22.20
3GPP Rel 6 DC-HSDPA Subtest-2	19.99	20.16	19.76	21.20	21.65	21.82	21.53	22.20
3GPP Rel 6 DC-HSDPA Subtest-3	19.96	20.14	19.76	21.20	21.66	21.79	21.53	22.20
3GPP Rel 6 DC-HSDPA Subtest-4	19.98	20.09	19.71	21.20	21.66	21.85	21.48	22.20
3GPP Rel 6 HSUPA Subtest-1	20.00	20.12	19.78	21.20	21.68	21.28	20.95	22.00
3GPP Rel 6 HSUPA Subtest-2	19.99	20.08	19.80	21.20	21.13	21.27	21.04	22.00
3GPP Rel 6 HSUPA Subtest-3	19.94	20.15	19.72	21.20	21.61	21.85	21.48	22.20
3GPP Rel 6 HSUPA Subtest-4	19.94	20.16	19.80	21.20	20.62	20.86	20.46	21.50
3GPP Rel 6 HSUPA Subtest-5	19.93	20.10	19.74	21.20	21.57	21.80	21.52	22.20
3GPP Rel 7 HSPA+ (10QAM) Subtest-1	19.94	20.11	19.76	21.20	20.66	20.73	20.65	21.50

Band 2_Ant 13										
BW (MHz)	Modulation	RS	RS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)				18700	18800	19100				
20	QPSK	1	0	18.60	18.60	18.60				
20	QPSK	1	49	19.09	19.08	19.01	20.3	0		
20	QPSK	1	9	19.09	19.08	19.01				
20	QPSK	50	24	18.96	19.04	18.91				
20	QPSK	50	0	18.96	19.08	18.95	20.3	0		
20	QPSK	100	0	19.08	19.08	19.02				
20	16QAM	1	0	19.08	19.11	19.08				
20	16QAM	1	49	19.01	19.10	19.02	20.3	0		
20	16QAM	1	9	19.09	19.10	19.02				
20	16QAM	50	0	19.03	19.10	19.03				
20	16QAM	50	24	19.02	19.10	19.01	20.3	0		
20	16QAM	100	0	19.02	19.10	19.01				
20	64QAM	1	0	19.08	19.10	19.02				
20	64QAM	1	99	19.03	19.17	19.04				
20	64QAM	50	0	19.01	19.11	19.02				
20	64QAM	50	24	19.02	19.10	19.02	20.3	0		
20	64QAM	100	0	19.01	19.10	19.02				
20	256QAM	1	49	19.01	19.11	19.02	20.3	0.5		
20	256QAM	1	99	19.07	19.13	19.05				
20	256QAM	50	0	19.08	19.10	19.01				
20	256QAM	50	24	19.02	19.12	19.08	20.3	0		
20	256QAM	100	0	19.02	19.10	19.02				
Channel										
Frequency (MHz)				18975 <th>18900</th> <th>19100</th> <th>Turn-up time (min)</th> <th>MPE (dB)</th> <th colspan="2"></th>	18900	19100	Turn-up time (min)	MPE (dB)		
15	QPSK	1	0	18.67	18.67	18.67				
15	QPSK	1	37	19.01	19.05	19.05	20.3	0		
15	QPSK	1	74	18.81	18.96	18.95				
15	QPSK	1	0	19.01	19.01	19.01				
15	QPSK	36	20	18.84	19.02	19.16	20.3	0		
15	QPSK	36	0	18.84	18.99	18.87				
15	QPSK	75	0	19.04	19.03	19.19				
15	16QAM	1	0	19.03	19.02	19.19				
15	16QAM	1	37	18.87	19.05	19.03	20.3	0		
15	16QAM	1	74	18.82	18.97	18.97				
15	16QAM	36	0	19.06	19.06	19.04				
15	16QAM	36	20	19.05	19.05	19.07	20.3	0		
15	16QAM	75	0	19.09	19.03	19.09				
15	64QAM	1	0	19.02	19.07	19.05	20.3	0		
15	64QAM	1	37	19.04	19.10	19.02				
15	64QAM	1	74	19.08	19.07	19.02				
15	64QAM	36	0	19.07	19.06	19.03				
15	64QAM	36	20	19.04	19.00	19.00	20.3	0		
15	64QAM	75	0	19.07	19.03	19.07				
15	256QAM	1	37	19.02	19.06	19.01	20.3	0		
15	256QAM	1	74	19.08	19.06	19.06				
15	256QAM	36	0	19.06	19.07	19.02				
15	256QAM	36	20	19.04	19.00	19.00	20.3	0		
15	256QAM	75	0	19.07	19.04	19.05				
Channel										
Frequency (MHz)				18825 <th>18800</th> <th>19100</th> <th>Turn-up time (min)</th> <th>MPE (dB)</th> <th colspan="2"></th>	18800	19100	Turn-up time (min)	MPE (dB)		
10	QPSK	1	0	18.73	18.73	18.73				
10	QPSK	1	25	19.06	19.03	19.05	20.3	0		
10	QPSK	1	49	19.08	19.01	19.01				
10	QPSK	1	0	19.08	19.08	19.02				
10	QPSK	25	12	19.08	19.01	19.17	20.3	0		
10	QPSK	25	0	19.02	19.00	19.01				
10	QPSK	50	0	19.04	19.02	19.00				
10	16QAM	1	0	19.07	19.03	19.05				
10	16QAM	1	25	19.05	19.04	19.07	20.3	0		
10	16QAM	1	49	19.03	19.04	19.07				
10	16QAM	25	0	19.08	19.08	19.08				
10	16QAM	25	12	19.04	19.08	19.06	20.3	0		
10	16QAM	50	0	19.00	19.03	19.04				
10	64QAM	1	0	19.02	19.02	19.06	20.3	0		
10	64QAM	1	25	19.09	19.02	19.06				
10	64QAM	1	49	19.03	19.12	19.00				
10	64QAM	25	0	19.08	19.09	19.09				
10	64QAM	25	12	19.04	19.08	19.05	20.3	0		
10	64QAM	50	0	19.08	19.01	19.05				
10	256QAM	1	0	19.02	19.01	19.01				
10	256QAM	1	25	19.01	19.04	19.02	20.3	0.5		
10	256QAM	1	49	19.05	19.01	19.01				
10	256QAM	25	0	19.07	19.14	19.02				
10	256QAM	25	12	19.08	19.01	19.01	20.3	0		
10	256QAM	50	0	19.08	19.03	19.03				
10	256QAM	50	12	19.05	19.01	19.01	20.3	0.5		
10	256QAM	50	0	19.08	19.03	19.03				
Channel										
Frequency (MHz)				18675 <th>18600</th> <th>19100</th> <th>Turn-up time (min)</th> <th>MPE (dB)</th> <th colspan="2"></th>	18600	19100	Turn-up time (min)	MPE (dB)		
5	QPSK	1	0	18.73	18.73	18.73				
5	QPSK	1	12	19.02	19.03	19.09	20.3	0		
5	QPSK	1	24	19.01	19.02	19.07				
5	QPSK	12	0	19.03	19.03	19.01				
5	QPSK	12	7	19.01	19.00	19.03	20.3	0		
5	QPSK	12	0	19.05	19.00	19.04				
5	QPSK	25	0	19.09	19.06	19.06				
5	16QAM	1	0	19.04	19.03	19.07				
5	16QAM	1	12	19.08	19.09	19.04	20.3	0		
5	16QAM	1	24	19.04	19.09	19.01				
5	16QAM	12	0	19.01	19.09	19.05				
5	16QAM	12	13	19.04	19.09	19.03	20.3	0		
5	16QAM	25	0	19.05	19.06	19.01				
5	16QAM	25	0	19.08	19.04	19.08				
5	64QAM	1	12	19.09	19.03	19.04	20.3	0		
5	64QAM	1	24	19.09	19.12	19.01				
5	64QAM	12	0	19.08	19.06	19.02				
5	64QAM	12	7	19.04	19.02	19.00	20.3	0		
5	256QAM	1	0	19.04	19.02	19.06				
5	256QAM	1	12	19.02	19.01	19.04	20.3	0.5		
5	256QAM	1	24	19.02	19.01	19.01				
5	256QAM	12	0	19.00	19.10	19.00				
5	256QAM	12	7	19.02	19.01	19.01	20.3	0		
5	256QAM	12	13	19.07	19.08	19.07				
5	256QAM	25	0	19.04	19.03	19.05				
Channel										
Frequency (MHz)				18515 <th>18800</th> <th>19100</th> <th>Turn-up time (min)</th> <th>MPE (dB)</th> <th colspan="2"></th>	18800	19100	Turn-up time (min)	MPE (dB)		
3	QPSK	1	0	18.74	18.74	18.74				
3	QPSK	1	8	19.02	19.03	19.09	20.3	0		
3	QPSK	1	14	18.95	19.04	18.90				
3	QPSK	8	0	19.05	19.04	19.01				
3	QPSK	8	7	18.86	18.93	18.83	20.3	0		
3	QPSK	15	0	19.09	19.08	19.05				
3	QPSK	15	0	19.05	19.05	19.08				
3	16QAM	1	0	19.02	19.06	19.03	20.3	0		
3	16QAM	1	8	19.02	19.06	19.05				
3	16QAM	1	14	19.01	19.09	19.01				
3	16QAM	8	0	19.00	19.00	19.01	20.3	0		
3	16QAM	8	4	18.97	18.97	19.01				
3	16QAM	15	0	19.03	19.03	19.06				
3	16QAM	15	0	19.02	19.05	19.07				
3	64QAM	1	0	19.06	19.00	19.07	20.3	0		
3	64QAM	1	8	19.03	19.03	19.09				
3	64QAM	1	14	19.06	19.10	19.06				
3	64QAM	8	0	19.01	19.00	19.02	20.3	0		
3	64QAM	8	7	19.09	19.02	19.02				
3	256QAM	1	0	19.03	19.06	19.02				
3	256QAM	1	8	19.01	19.02	19.04	20.3	0.5		
3	256QAM	1	14	19.07	19.08	19.06				
3	256QAM	8	0	19.08	19.10	19.07				
3	256QAM	8	7	19.04	19.08	19.07	20.3	0		
3	256QAM	15	0	19.06	19.04	19.06				
Channel										
Frequency (MHz)				18607 <th>18800</th> <th>19100</th> <th>Turn-up time (min)</th> <th>MPE (dB)</th> <th colspan="2"></th>	18800	19100	Turn-up time (min)	MPE (dB)		
1.4	QPSK	1	0	18.73	18.73	18.73				
1.4	QPSK	1	3	19.08	19.02	19.05	20.3	0		
1.4	QPSK	1	0	19.06	19.00	19.01				
1.4	QPSK	3	0	19.04	19.09	19.03				
1.4	QPSK	3	1	19.01	19.06	19.06	20.3	0		
1.4	QPSK	6	0	19.04	19.07	19.06				
1.4	QPSK	1	0	19.03	19.02	19.07				
1.4	16QAM	1	3	19.01	19.09	19.04				
1.4	16QAM	1	0	19.07	19.08	19.04	20.3	0		
1.4	16QAM	3	0	19.01	19.07	19.06				
1.4	16QAM	3	1	19.01	19.07	19.06				
1.4	16QAM	6	0	19.07	19.04	19.01	20.3	0		
1.4	16QAM	6	0	19.07	19.04	19.01				
1.4	16QAM	1	0	19.02	19.04	19.04				
1.4	16QAM	1	3	19.00	19.08	19.01				
1.4	16QAM	1	0	19.03	19.06	19.03	20.3	0		
1.4	16QAM	3	0	19.04	19.04	19.04				
1.4	16QAM	3	3	19.07	19.04	19.03				
1.4	256QAM	1	0	19.07	19.12	19.01	20.3	0		
1.4	256QAM	1	3	19.00	19.08	19.06				
1.4	256QAM	3	0	19.01	19.07	19.09				
1.4	256QAM	3	1	19.01	19.06	19.06	20.3	0		
1.4	256QAM	6	0	19.07	19.04					

Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-up (min)	MFR (dB)		
Channel										
Frequency (MHz)				1720	1725.5	1745				
30	QPSK	1	0	21.43	21.43	21.43				
30	QPSK	1	49	21.33	21.33	21.34			22	0
30	QPSK	1	99	21.28	21.39	21.31				
30	QPSK	50	0	21.31	21.43	21.31				
30	QPSK	50	24	21.22	21.38	21.25			22	0
30	QPSK	50	48	21.16	21.31	21.24				
30	16QAM	1	0	21.34	21.40	21.29				
30	16QAM	1	49	21.27	21.37	21.29			22	0
30	16QAM	1	99	21.18	21.38	21.37				
30	16QAM	50	0	21.30	21.35	21.30				
30	16QAM	50	24	21.28	21.38	21.30				
30	16QAM	50	48	21.10	21.34	21.31			22	0
30	16QAM	100	0	21.40	21.41	21.29				
30	16QAM	100	24	21.32	21.40	21.32				
30	16QAM	100	48	21.13	21.34	21.33			22	0
30	16QAM	1	99	21.38	21.40	21.29				
30	16QAM	50	0	21.33	21.35	21.32				
30	16QAM	50	24	21.23	21.39	21.32			22	0
30	16QAM	50	48	21.14	21.32	21.34				
30	16QAM	100	0	21.34	21.41	21.29				
30	16QAM	100	24	21.27	21.34	21.29				
30	256QAM	1	0	20.38	20.47	20.40				
30	256QAM	1	49	20.31	20.40	20.31			20.5	1.5
30	256QAM	1	99	20.20	20.43	20.28				
30	256QAM	50	0	20.30	20.38	20.26				
30	256QAM	50	24	20.24	20.31	20.21			20.5	1.5
30	256QAM	50	48	20.23	20.33	20.24				
30	256QAM	100	0	20.26	20.35	20.20				
Channel				1720.5	1725.5	1745.5	Turn-up (min)	MFR (dB)		
15	QPSK	1	0	21.43	21.43	21.43				
15	QPSK	1	37	21.24	21.23	21.24			22	0
15	QPSK	1	74	21.14	21.23	21.28				
15	QPSK	36	0	21.26	21.38	21.18				
15	QPSK	36	20	21.08	21.24	21.13			22	0
15	QPSK	36	40	21.18	21.32	21.16				
15	16QAM	1	0	21.25	21.27	21.23				
15	16QAM	1	37	21.22	21.22	21.21			22	0
15	16QAM	1	74	21.11	21.23	21.27				
15	16QAM	36	0	21.18	21.25	21.25				
15	16QAM	36	20	21.08	21.25	21.24			22	0
15	16QAM	36	40	21.26	21.25	21.22				
15	16QAM	75	0	21.28	21.35	21.24				
15	16QAM	75	20	21.08	21.25	21.22				
15	16QAM	1	74	21.27	21.29	21.19			22	0
15	16QAM	1	74	21.27	21.29	21.24				
15	16QAM	36	0	21.22	21.24	21.21				
15	16QAM	36	20	21.29	21.21	21.27			22	0
15	16QAM	36	40	21.29	21.22	21.20				
15	16QAM	75	0	21.32	21.30	21.21				
15	256QAM	1	0	20.38	20.39	20.35			20.5	1.5
15	256QAM	1	97	20.31	20.33	20.23				
15	256QAM	36	0	20.37	20.39	20.26				
15	256QAM	36	20	20.18	20.16	20.15			20.5	1.5
15	256QAM	36	40	20.30	20.31	20.26				
15	256QAM	75	0	20.32	20.27	20.25				
Channel				1715	1720.5	1740.5	Turn-up (min)	MFR (dB)		
10	QPSK	1	0	21.40	21.40	21.40				
10	QPSK	1	25	21.19	21.19	21.27			22	0
10	QPSK	1	49	21.09	21.23	21.24				
10	QPSK	25	0	21.20	21.29	21.25				
10	QPSK	25	12	21.09	21.28	21.11			22	0
10	QPSK	25	24	21.11	21.31	21.08				
10	16QAM	1	0	21.21	21.29	21.15				
10	16QAM	1	25	21.22	21.24	21.15			22	0
10	16QAM	1	49	21.18	21.28	21.24				
10	16QAM	25	0	21.23	21.21	21.17				
10	16QAM	25	12	21.14	21.29	21.25			22	0
10	16QAM	25	24	21.26	21.28	21.17				
10	16QAM	50	0	21.25	21.32	21.22				
10	16QAM	50	12	21.27	21.28	21.20				
10	16QAM	1	25	21.19	21.19	21.24			22	0
10	16QAM	1	49	21.29	21.26	21.17				
10	16QAM	25	0	21.18	21.24	21.21				
10	16QAM	25	12	21.28	21.29	21.22			22	0
10	16QAM	25	24	21.24	21.21	21.24				
10	16QAM	50	0	21.25	21.32	21.22				
10	256QAM	1	0	20.34	20.40	20.28			20.5	1.5
10	256QAM	1	25	20.16	20.32	20.30				
10	256QAM	25	0	20.38	20.37	20.21				
10	256QAM	25	12	20.23	20.27	20.19			20.5	1.5
10	256QAM	25	24	20.30	20.23	20.15				
10	256QAM	50	0	20.12	20.31	20.20				
Channel				1712.5	1722.5	1743.5	Turn-up (min)	MFR (dB)		
5	QPSK	1	0	21.38	21.38	21.34				
5	QPSK	1	12	21.18	21.27	21.27			22	0
5	QPSK	1	24	21.07	21.25	21.16				
5	QPSK	12	0	21.22	21.28	21.22				
5	QPSK	12	7	21.16	21.25	21.15			22	0
5	QPSK	12	14	21.18	21.15	21.18				
5	QPSK	25	0	21.16	21.22	21.10				
5	16QAM	1	0	21.23	21.28	21.22				
5	16QAM	1	12	21.24	21.25	21.21			22	0
5	16QAM	1	24	21.18	21.28	21.26				
5	16QAM	12	0	21.23	21.24	21.15				
5	16QAM	12	7	21.13	21.22	21.15			22	0
5	16QAM	12	14	21.21	21.27	21.23				
5	16QAM	25	0	21.28	21.30	21.18				
5	16QAM	25	12	21.22	21.28	21.27			22	0
5	16QAM	25	24	21.24	21.21	21.24				
5	16QAM	50	0	21.25	21.32	21.22				
5	256QAM	1	0	20.34	20.40	20.28			20.5	1.5
5	256QAM	1	25	20.16	20.32	20.30				
5	256QAM	25	0	20.38	20.37	20.21				
5	256QAM	25	12	20.23	20.27	20.19			20.5	1.5
5	256QAM	25	24	20.30	20.23	20.15				
5	256QAM	50	0	20.12	20.31	20.20				
Channel				1710.5	1720.5	1740.5	Turn-up (min)	MFR (dB)		
3	QPSK	1	0	21.34	21.38	21.34				
3	QPSK	1	8	21.20	21.25	21.29			22	0
3	QPSK	1	16	21.08	21.22	21.23				
3	QPSK	8	0	21.21	21.28	21.25				
3	QPSK	8	4	21.10	21.21	21.19			22	0
3	QPSK	8	7	21.20	21.19	21.17				
3	QPSK	16	0	21.13	21.28	21.07				
3	16QAM	1	0	21.27	21.34	21.23				
3	16QAM	1	8	21.22	21.28	21.23			22	0
3	16QAM	1	16	21.18	21.30	21.24				
3	16QAM	8	0	21.22	21.28	21.19				
3	16QAM	8	4	21.09	21.23	21.23		</		

Band 7_Ant 31										
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				25050	25100	25150				
30	QPSK	1	0	20.10	20.08	20.06	22.5	0		
30	QPSK	1	40	21.77	21.77	21.74				
30	QPSK	1	80	21.74	21.74	21.80				
30	QPSK	50	0	21.74	21.77	21.72				
30	QPSK	50	24	21.84	21.67	21.59	22.5	0		
30	QPSK	50	50	21.64	21.64	21.64				
30	QPSK	100	0	21.67	21.72	21.61				
30	QPSK	1	0	21.78	21.78	21.74				
30	QPSK	1	40	21.63	21.63	21.75	22.5	0		
30	QPSK	1	80	21.74	21.77	21.70				
30	QPSK	1	99	21.82	21.85	21.74				
30	QPSK	50	24	21.77	21.78	21.71				
30	QPSK	50	50	21.80	21.78	21.79	22.5	0		
30	QPSK	100	0	21.84	21.86	21.77				
30	QPSK	1	0	21.84	21.77	21.78				
30	QPSK	1	40	21.74	21.77	21.80				
30	QPSK	1	99	21.82	21.85	21.74	22	0.5		
30	QPSK	50	24	21.77	21.78	21.71				
30	QPSK	50	50	21.73	21.62	21.63				
30	QPSK	100	0	21.71	21.73	21.64				
30	QPSK	1	0	21.68	21.72	21.64	20.5	2		
30	QPSK	1	99	20.16	20.25	20.20				
30	QPSK	50	24	20.12	20.22	20.18				
30	QPSK	50	50	20.18	20.18	20.06				
30	QPSK	100	0	20.13	20.23	20.17	20.5	2		
30	QPSK	1	0	20.13	20.23	20.17				
30	QPSK	1	99	20.12	20.19	20.00				
30	QPSK	1	99	20.02	20.02	20.03				
Frequency (MHz)										
15	QPSK	1	0	20.07	20.06	20.05	22.5	0		
15	QPSK	1	37	21.89	21.68	21.62				
15	QPSK	1	74	21.86	21.78	21.66				
15	QPSK	38	0	21.73	21.80	21.65				
15	QPSK	38	20	21.61	21.62	21.65	22.5	0		
15	QPSK	38	39	21.47	21.58	21.48				
15	QPSK	75	0	21.53	21.60	21.55				
15	QPSK	1	0	21.71	21.64	21.64				
15	QPSK	1	37	21.78	21.71	21.70	22.5	0		
15	QPSK	1	74	21.69	21.71	21.68				
15	QPSK	38	0	21.73	21.71	21.67				
15	QPSK	38	20	21.72	21.71	21.68				
15	QPSK	38	39	21.65	21.63	21.71	22.5	0		
15	QPSK	75	0	21.70	21.76	21.72				
15	QPSK	1	0	21.77	21.64	21.63				
15	QPSK	1	37	21.67	21.70	21.69				
15	QPSK	1	74	21.68	21.74	21.69	22	0.5		
15	QPSK	38	0	21.57	21.62	21.54				
15	QPSK	38	20	21.47	21.55	21.50				
15	QPSK	38	39	21.39	21.46	21.42				
15	QPSK	75	0	21.58	21.66	21.58	20.5	2		
15	QPSK	1	0	21.57	21.68	21.60				
15	QPSK	1	37	21.68	21.65	21.62				
15	QPSK	1	74	21.65	21.66	21.65				
15	QPSK	38	0	21.57	21.65	21.59	20.5	2		
15	QPSK	38	20	21.44	21.46	21.42				
15	QPSK	38	39	21.36	21.38	21.47				
15	QPSK	75	0	21.57	21.45	21.33				
15	QPSK	1	0	21.48	21.52	21.41	19.5	0		
15	QPSK	1	37	21.49	21.47	21.43				
15	QPSK	38	0	21.42	21.45	21.45				
15	QPSK	38	20	21.34	21.49	21.44				
15	QPSK	38	39	21.26	21.49	21.37	19.5	0		
15	QPSK	75	0	21.48	21.46	21.46				
15	QPSK	1	0	21.41	21.40	21.46				
15	QPSK	1	37	21.41	21.38	21.43				
15	QPSK	38	0	21.41	21.40	21.32	19.5	0		
15	QPSK	38	20	21.45	21.50	21.46				
15	QPSK	38	39	21.46	21.45	21.36				
15	QPSK	75	0	21.41	21.50	21.35				
15	QPSK	1	0	21.48	21.48	21.45	19.5	0		
15	QPSK	1	37	21.38	21.39	21.43				
15	QPSK	38	0	21.48	21.48	21.45				
15	QPSK	38	20	21.39	21.42	21.43				
15	QPSK	38	39	21.37	21.38	21.42	19.5	0		
15	QPSK	75	0	21.37	21.38	21.42				
15	QPSK	1	0	21.36	21.35	21.37				
15	QPSK	1	37	21.43	21.40	21.46				
15	QPSK	38	0	21.41	21.38	21.43	19.5	0		
15	QPSK	38	20	21.43	21.49	21.46				
15	QPSK	38	39	21.36	21.50	21.46				
15	QPSK	75	0	21.36	21.50	21.46				
15	QPSK	1	0	21.56	21.43	21.37	19.5	0		
15	QPSK	1	37	21.53	21.47	21.51				
15	QPSK	38	0	21.51	21.41	21.51				
15	QPSK	38	20	21.42	21.53	21.43				
15	QPSK	38	39	21.36	21.29	21.31	19.5	0		
15	QPSK	75	0	21.36	21.29	21.31				
15	QPSK	1	0	21.47	21.42	21.47				
15	QPSK	1	37	21.46	21.47	21.44				
15	QPSK	38	0	21.48	21.44	21.47	19.5	0		
15	QPSK	38	20	21.46	21.47	21.39				
15	QPSK	38	39	21.43	21.50	21.43				
15	QPSK	75	0	21.43	21.35	21.43				
15	QPSK	1	0	21.39	21.45	21.39	19.5	0		
15	QPSK									

Band 13_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)							23200		
							782		
10	QPSK	1	0	23.70			25	0	
10	QPSK	1	25	23.65					
10	QPSK	1	49	23.60					
10	QPSK	25	0	22.83			24	1	
10	QPSK	25	12	22.75					
10	QPSK	25	25	22.70					
10	QPSK	50	0	22.80			24	1	
10	16QAM	1	0	23.60					
10	16QAM	1	25	22.80					
10	16QAM	25	0	21.85			23	2	
10	16QAM	25	12	21.78					
10	16QAM	25	25	21.83					
10	16QAM	50	0	21.78			23	2	
10	16QAM	50	0	22.50					
10	8QAM	1	25	22.40					
10	8QAM	1	49	22.45			22	3	
10	8QAM	25	0	21.51					
10	8QAM	25	12	21.20					
10	8QAM	25	25	21.25			20.5	4.5	
10	8QAM	50	0	21.28					
10	256QAM	1	0	19.90					
10	256QAM	1	25	19.91			20.5	4.5	
10	256QAM	1	49	19.90					
10	256QAM	25	0	19.78					
10	256QAM	25	12	19.72			20.5	4.5	
10	256QAM	25	25	19.75					
10	256QAM	50	0	19.75					
Channel							23205	23205	
Frequency (MHz)							779.5	782	784.5
5	QPSK	1	0	23.09	23.09	23.04	25	0	
5	QPSK	1	12	23.00	23.00	23.04			
5	QPSK	1	24	23.03	23.03	23.04			
5	QPSK	12	0	22.70	22.72	22.70	24	1	
5	QPSK	12	7	22.71	22.67	22.71			
5	QPSK	12	13	22.68	22.73	22.65			
5	QPSK	25	0	22.85	22.71	22.78	24	1	
5	16QAM	1	0	22.92	22.94	22.96			
5	16QAM	1	12	22.94	22.89	22.98			
5	16QAM	1	24	22.91	22.89	22.88	23	2	
5	16QAM	12	0	21.83	21.73	21.77			
5	16QAM	12	7	21.75	21.77	21.84			
5	16QAM	12	13	21.71	21.69	21.70	23	2	
5	16QAM	25	0	21.88	21.86	21.75			
5	8QAM	1	0	22.40	22.35	22.39			
5	8QAM	1	12	22.38	22.31	22.29	23	2	
5	8QAM	1	24	22.39	22.43	22.36			
5	8QAM	12	0	21.20	21.26	21.20			
5	8QAM	12	7	21.20	21.27	21.24	22	3	
5	8QAM	12	13	21.14	21.16	21.15			
5	8QAM	25	0	21.14	21.23	21.17			
5	256QAM	1	0	19.91	19.89	19.90	20.5	4.5	
5	256QAM	1	12	19.79	19.80	19.80			
5	256QAM	1	24	19.77	19.82	19.87			
5	256QAM	12	0	19.63	19.70	19.69	20.5	4.5	
5	256QAM	12	7	19.70	19.72	19.80			
5	256QAM	12	13	19.55	19.56	19.61			
5	256QAM	25	0	19.66	19.71	19.72			
5	256QAM	25	0	20.00	20.00	20.00			
5	256QAM	25	0	20.25	20.25	20.25			

Band 13_Ant 31									
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)	
Channel									
Frequency (MHz)									
782									
10	QPSK	1	0	24.10			25	0	
10	QPSK	1	25	24.08					
10	QPSK	1	49	24.05					
10	QPSK	25	0	23.15			24	1	
10	QPSK	25	12	23.10					
10	QPSK	25	25	23.12					
10	16QAM	1	0	23.60			24	1	
10	16QAM	1	25	23.40					
10	16QAM	1	49	23.40					
10	16QAM	25	0	22.10			23	2	
10	16QAM	25	12	22.11					
10	16QAM	25	25	22.10					
10	16QAM	50	0	22.15			23	2	
10	16QAM	50	0	22.85					
10	8QAM	1	25	22.80					
10	8QAM	1	49	22.78			22	3	
10	8QAM	25	0	21.60					
10	8QAM	25	12	21.50					
10	8QAM	25	25	21.62			20.5	4.5	
10	8QAM	50	0	21.61					
10	256QAM	1	0	20.37					
10	256QAM	1	25	20.35			20.5	4.5	
10	256QAM	1	49	20.30					
10	256QAM	25	0	20.20					
10	256QAM	25	12	20.22			20.5	4.5	
10	256QAM	25	25	20.21					
10	256QAM	50	0	20.23					
Channel									
Frequency (MHz)									
783.5									
5	QPSK	1	0	23.09	24.00	23.07	25	0	
5	QPSK	1	12	23.07	23.99	24.04			
5	QPSK	1	24	24.00	23.92	23.93			
5	QPSK	12	7	22.95	23.04	22.98	24	1	
5	QPSK	12	13	23.00	22.99	23.06			
5	QPSK	25	0	22.99	23.03	23.10			
5	16QAM	1	0	23.48	23.35	23.39	24	1	
5	16QAM	1	12	23.34	23.32	23.37			
5	16QAM	1	24	23.41	23.33	23.39			
5	16QAM	12	0	22.07	22.10	22.12	23	2	
5	16QAM	12	7	22.00	22.00	22.08			
5	16QAM	12	13	22.10	22.07	22.07			
5	16QAM	25	0	22.12	22.05	22.11	23	2	
5	8QAM	1	0	22.70	22.64	22.73			
5	8QAM	1	12	22.78	22.72	22.86			
5	8QAM	1	24	22.69	22.70	22.75	22	3	
5	8QAM	12	0	21.57	21.54	21.58			
5	8QAM	12	7	21.57	21.54	21.63			
5	8QAM	12	13	21.48	21.46	21.52	20.5	4.5	
5	8QAM	25	0	21.48	21.45	21.59			
5	256QAM	1	0	20.24	20.20	20.23			
5	256QAM	1	12	20.21	20.22	20.30	20.5	4.5	
5	256QAM	1	24	20.19	20.26	20.21			
5	256QAM	12	0	20.22	20.23	20.24			
5	256QAM	12	7	20.08	20.10	20.08	20.5	4.5	
5	256QAM	12	13	20.08	20.06	20.15			
5	256QAM	25	0	20.09	20.10	20.15			
5	256QAM	25	0	20.25	20.25	20.25			
5	256QAM	25	0	20.50	20.50	20.50			

Band 17_Ant 13		
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Band 26_Ant 13										
RF (MHz)	Modulation	RB Spd	RB Cst	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										Frequency (MHz)
15	QPSK	1	0	23.85	23.85	23.85	25	0		
15	QPSK	1	37	23.85	23.87	23.85				
15	QPSK	1	74	23.85	23.89	23.85				
15	QPSK	3	0	23.85	23.85	23.85				
15	QPSK	3	37	23.85	23.87	23.85				
15	QPSK	3	74	23.85	23.89	23.85				
15	QPSK	3	111	23.85	23.91	23.85				
15	QPSK	3	148	23.85	23.93	23.85				
15	QPSK	3	185	23.85	23.95	23.85				
15	QPSK	3	222	23.85	23.97	23.85				
15	QPSK	3	259	23.85	23.99	23.85				
15	QPSK	3	296	23.85	24.01	23.85				
15	QPSK	3	333	23.85	24.03	23.85				
15	QPSK	3	370	23.85	24.05	23.85				
15	QPSK	3	407	23.85	24.07	23.85				
15	QPSK	3	444	23.85	24.09	23.85				
15	QPSK	3	481	23.85	24.11	23.85				
15	QPSK	3	518	23.85	24.13	23.85				
15	QPSK	3	555	23.85	24.15	23.85				
15	QPSK	3	592	23.85	24.17	23.85				
15	QPSK	3	629	23.85	24.19	23.85				
15	QPSK	3	666	23.85	24.21	23.85				
15	QPSK	3	703	23.85	24.23	23.85				
15	QPSK	3	740	23.85	24.25	23.85				
15	QPSK	3	777	23.85	24.27	23.85				
15	QPSK	3	814	23.85	24.29	23.85				
15	QPSK	3	851	23.85	24.31	23.85				
15	QPSK	3	888	23.85	24.33	23.85				
15	QPSK	3	925	23.85	24.35	23.85				
15	QPSK	3	962	23.85	24.37	23.85				
15	QPSK	3	999	23.85	24.39	23.85				
15	QPSK	3	1036	23.85	24.41	23.85				
15	QPSK	3	1073	23.85	24.43	23.85				
15	QPSK	3	1110	23.85	24.45	23.85				
15	QPSK	3	1147	23.85	24.47	23.85				
15	QPSK	3	1184	23.85	24.49	23.85				
15	QPSK	3	1221	23.85	24.51	23.85				
15	QPSK	3	1258	23.85	24.53	23.85				
15	QPSK	3	1295	23.85	24.55	23.85				
15	QPSK	3	1332	23.85	24.57	23.85				
15	QPSK	3	1369	23.85	24.59	23.85				
15	QPSK	3	1406	23.85	24.61	23.85				
15	QPSK	3	1443	23.85	24.63	23.85				
15	QPSK	3	1480	23.85	24.65	23.85				
15	QPSK	3	1517	23.85	24.67	23.85				
15	QPSK	3	1554	23.85	24.69	23.85				
15	QPSK	3	1591	23.85	24.71	23.85				
15	QPSK	3	1628	23.85	24.73	23.85				
15	QPSK	3	1665	23.85	24.75	23.85				
15	QPSK	3	1702	23.85	24.77	23.85				
15	QPSK	3	1739	23.85	24.79	23.85				
15	QPSK	3	1776	23.85	24.81	23.85				
15	QPSK	3	1813	23.85	24.83	23.85				
15	QPSK	3	1850	23.85	24.85	23.85				
15	QPSK	3	1887	23.85	24.87	23.85				
15	QPSK	3	1924	23.85	24.89	23.85				
15	QPSK	3	1961	23.85	24.91	23.85				
15	QPSK	3	1998	23.85	24.93	23.85				
15	QPSK	3	2035	23.85	24.95	23.85				
15	QPSK	3	2072	23.85	24.97	23.85				
15	QPSK	3	2109	23.85	24.99	23.85				
15	QPSK	3	2146	23.85	25.01	23.85				
15	QPSK	3	2183	23.85	25.03	23.85				
15	QPSK	3	2220	23.85	25.05	23.85				
15	QPSK	3	2257	23.85	25.07	23.85				
15	QPSK	3	2294	23.85	25.09	23.85				
15	QPSK	3	2331	23.85	25.11	23.85				
15	QPSK	3	2368	23.85	25.13	23.85				
15	QPSK	3	2405	23.85	25.15	23.85				
15	QPSK	3	2442	23.85	25.17	23.85				
15	QPSK	3	2479	23.85	25.19	23.85				
15	QPSK	3	2516	23.85	25.21	23.85				
15	QPSK	3	2553	23.85	25.23	23.85				
15	QPSK	3	2590	23.85	25.25	23.85				
15	QPSK	3	2627	23.85	25.27	23.85				
15	QPSK	3	2664	23.85	25.29	23.85				
15	QPSK	3	2701	23.85	25.31	23.85				
15	QPSK	3	2738	23.85	25.33	23.85				
15	QPSK	3	2775	23.85	25.35	23.85				
15	QPSK	3	2812	23.85	25.37	23.85				
15	QPSK	3	2849	23.85	25.39	23.85				
15	QPSK	3	2886	23.85	25.41	23.85				
15	QPSK	3	2923	23.85	25.43	23.85				
15	QPSK	3	2960	23.85	25.45	23.85				
15	QPSK	3	2997	23.85	25.47	23.85				
15	QPSK	3	3034	23.85	25.49	23.85				
15	QPSK	3	3071	23.85	25.51	23.85				
15	QPSK	3	3108	23.85	25.53	23.85				
15	QPSK	3	3145	23.85	25.55	23.85				
15	QPSK	3	3182	23.85	25.57	23.85				
15	QPSK	3	3219	23.85	25.59	23.85				
15	QPSK	3	3256	23.85	25.61	23.85				
15	QPSK	3	3293	23.85	25.63	23.85				
15	QPSK	3	3330	23.85	25.65	23.85				
15	QPSK	3	3367	23.85	25.67	23.85				
15	QPSK	3	3404	23.85	25.69	23.85				
15	QPSK	3	3441	23.85	25.71	23.85				
15	QPSK	3	3478	23.85	25.73	23.85				
15	QPSK	3	3515	23.85	25.75	23.85				
15	QPSK	3	3552	23.85	25.77	23.85				
15	QPSK	3	3589	23.85	25.79	23.85				
15	QPSK	3	3626	23.85	25.81	23.85				
15	QPSK	3	3663	23.85	25.83	23.85				
15	QPSK	3	3700	23.85	25.85	23.85				
15	QPSK	3	3737	23.85	25.87	23.85				
15	QPSK	3	3774	23.85	25.89	23.85				
15	QPSK	3	3811	23.85	25.91	23.85				
15	QPSK	3	3848	23.85	25.93	23.85				
15	QPSK	3	3885	23.85	25.95	23.85				
15	QPSK	3	3922	23.85	25.97	23.85				
15	QPSK	3	3959	23.85	25.99	23.85				
15	QPSK	3	3996	23.85	26.01	23.85				
15	QPSK	3	4033	23.85	26.03	23.85				
15	QPSK	3	4070	23.85	26.05	23.85				
15	QPSK	3	4107	23.85	26.07	23.85				
15	QPSK	3	4144	23.85	26.09	23.85				
15	QPSK	3	4181	23.85	26.11	23.85				
15	QPSK	3	4218	23.85	26.13	23.85				
15	QPSK	3	4255	23.85	26.15	23.85				
15	QPSK	3	4292	23.85	26.17	23.85				
15	QPSK	3	4329	23.85	26.19	23.85				
15	QPSK	3	4366	23.85	26.21	23.85				
15	QPSK	3	4403	23.85	26.23	23.85				
15	QPSK	3	4440	23.85	26.25	23.85				
15	QPSK	3	4477	23.85	26.27	23.85				
15	QPSK	3	4514	23.85	26.29	23.85				
15	QPSK	3	4551	23.85	26.31	23.85				
15	QPSK	3	4588	23.85	26.33	23.85				
15	QPSK	3	4625	23.85	26.35	23.85				
15	QPSK	3	4662	23.85	26.37	23.85				
15	QPSK	3	4699	23.85	26.39	23.85				
15	QPSK	3	4736	23.85	26.41	23.85				
15	QPSK	3	4773	23.85	26.43	23.85				
15	QPSK	3	4810	23.85	26.45	23.85				
15	QPSK	3	4847	23.85	26.47	23.85				
15	QPSK	3	4884	23.85	26.49	23.85				
15	QPSK	3	4921	23.85	26.51	23.85				
15	QPSK	3	4958	23.85	26.53	23.85				
15	QPSK	3	4995	23.85	26.55	23.85				
15	QPSK	3	5032	23.85	26.57	23.85				
15	QPSK	3	5069	23.85	26.59	23.85				
15	QPSK	3	5106	23.85	26.61	23.85				
15	QPSK	3	5143	23.85	26.63	23.85				
15	QPSK	3	5180	23.85	26.65	23.85				
15	QPSK	3	5217	23.85	26.67	23.85				
15	QPSK	3	5254	23.85	26.69	23.85				
15	QPSK	3	5291	23.85	26.71	23.85				
15	QPSK	3	5328	23.85	26.73	23.85				
15	QPSK	3	5365	23.85	26.75	23.85				
15	QPSK	3	5402	23.85	26.77	23.85				
15	QPSK	3	5439	23.85	26.79	23.85				
15	QPSK	3	5476	23.85	26.81	23.85				
15	QPSK	3	5513	23.85	26.83	23.85				
15	QPSK	3	5550	23.85	26.85	23.85				
15	QPSK	3	5587	23.85	26.87	23.85				
15	QPSK	3	5624							

Band 66_Ant 11															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up (MHz)	Margin (dB)							
Channel							132072	132222	132372						
Frequency (MHz)							1720	1745	1770						
20	QPSK	1	0	22.03	22.05	22.01	22.5	0							
20	QPSK	1	40	21.92	21.91	21.95									
20	QPSK	1	80	21.94	21.98	21.95									
20	QPSK	80	0	21.98	21.99	21.92									
20	QPSK	80	24	21.83	21.84	21.87	22.5	0							
20	QPSK	80	50	21.80	21.90	21.80									
20	16QAM	1	0	21.80	21.82	21.79									
20	16QAM	1	40	21.90	21.98	21.92									
20	16QAM	1	80	21.88	21.90	21.97	22.5	0							
20	16QAM	80	0	21.94	22.00	21.92									
20	16QAM	80	24	21.88	21.91	21.98									
20	16QAM	80	50	21.90	21.94	21.96									
20	16QAM	160	0	21.96	21.91	21.93	22.5	0							
20	16QAM	1	0	21.98	21.91	21.90									
20	16QAM	1	40	21.89	21.97	21.91									
20	16QAM	80	0	21.72	21.88	21.82									
20	16QAM	80	24	21.88	21.81	21.79	22	0.5							
20	16QAM	80	50	21.88	21.78	21.81									
20	16QAM	800	0	21.70	21.75	21.84									
20	256QAM	1	0	20.47	20.50	20.35									
20	256QAM	1	40	20.30	20.42	20.40	20.5	2							
20	256QAM	1	80	20.31	20.45	20.30									
20	256QAM	80	0	20.31	20.43	20.36									
20	256QAM	80	24	20.27	20.34	20.22									
20	256QAM	80	50	20.31	20.33	20.30									
20	256QAM	160	0	20.24	20.37	20.28									
Channel										132047	132222	132372	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)										1771.5 <th>1745<th>1772.5<th colspan="2"></th></th></th>	1745 <th>1772.5<th colspan="2"></th></th>	1772.5 <th colspan="2"></th>			
15	QPSK	1	0	21.98	21.99	21.93	22.5	0							
15	QPSK	1	37	21.78	21.81	21.88									
15	QPSK	1	74	21.83	21.93	21.88									
15	QPSK	80	0	21.73	21.92	21.79									
15	QPSK	80	20	21.78	21.72	21.72	22.5	0							
15	QPSK	80	39	21.88	21.79	21.80									
15	QPSK	75	0	21.73	21.73	21.72									
15	16QAM	1	0	21.80	21.90	21.84									
15	16QAM	1	37	21.87	21.88	21.88	22.5	0							
15	16QAM	1	74	21.80	21.82	21.86									
15	16QAM	80	0	21.80	21.90	21.79									
15	16QAM	80	20	21.70	21.78	21.84									
15	16QAM	80	39	21.83	21.80	21.91	22.5	0							
15	16QAM	75	0	21.86	21.88	21.82									
15	16QAM	1	0	21.90	21.78	21.77									
15	16QAM	1	37	21.84	21.82	21.80									
15	16QAM	1	74	21.83	21.86	21.76	22	0.5							
15	16QAM	80	0	21.58	21.75	21.76									
15	16QAM	80	20	21.81	21.66	21.72									
15	16QAM	80	39	21.86	21.80	21.98									
15	256QAM	1	0	20.42	20.38	20.31	20.5	2							
15	256QAM	1	37	20.25	20.37	20.30									
15	256QAM	1	74	20.10	20.32	20.16									
15	256QAM	80	0	20.18	20.30	20.21									
15	256QAM	80	20	20.20	20.23	20.21	20.5		2						
15	256QAM	80	39	20.10	20.29	20.20									
15	256QAM	75	0	20.10	20.36	20.11									
Channel							132222				132222	132522	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)							1771.5 <th>1745<th>1773.5<th colspan="2"></th></th></th>				1745 <th>1773.5<th colspan="2"></th></th>	1773.5 <th colspan="2"></th>			
10	QPSK	1	0	21.94	21.90	21.91	22.5	0							
10	QPSK	1	25	21.83	21.83	21.80									
10	QPSK	1	40	21.87	21.90	21.84									
10	QPSK	25	0	21.79	21.91	21.77									
10	QPSK	25	12	21.78	21.76	21.74	22.5	0							
10	QPSK	25	24	21.80	21.85	21.85									
10	QPSK	80	0	21.70	21.78	21.76									
10	16QAM	1	0	21.82	21.83	21.80									
10	16QAM	1	25	21.88	21.91	21.86	22.5	0							
10	16QAM	1	40	21.82	21.76	21.85									
10	16QAM	25	0	21.81	21.90	21.79									
10	16QAM	25	12	21.79	21.81	21.80									
10	16QAM	25	25	21.81	21.80	21.83	22.5	0							
10	16QAM	80	0	21.84	21.82	21.79									
10	16QAM	1	0	21.81	21.80	21.80									
10	16QAM	1	25	21.74	21.84	21.86									
10	16QAM	1	40	21.80	21.91	21.76	22	0.5							
10	16QAM	25	0	21.57	21.75	21.73									
10	16QAM	25	12	21.82	21.68	21.87									
10	16QAM	25	25	21.85	21.80	21.93									
10	256QAM	1	0	21.58	21.67	21.59	20.5	2							
10	256QAM	1	0	20.36	20.45	20.22									
10	256QAM	1	40	20.16	20.42	20.31									
10	256QAM	1	80	20.24	20.44	20.24									
10	256QAM	25	0	20.28	20.41	20.33	20.5		2						
10	256QAM	25	0	20.18	20.26	20.09									
10	256QAM	25	25	20.25	20.20	20.28									
10	256QAM	80	0	20.22	20.32	20.14									
Channel							132222				132222	132697	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)							1771.5 <th>1745<th>1773.5<th colspan="2"></th></th></th>				1745 <th>1773.5<th colspan="2"></th></th>	1773.5 <th colspan="2"></th>			
5	QPSK	1	0	21.96	21.92	21.92	22.5	0							
5	QPSK	1	12	21.87	21.85	21.83									
5	QPSK	1	24	21.83	21.81	21.85									
5	QPSK	12	0	21.81	21.85	21.81									
5	QPSK	12	7	21.72	21.72	21.79	22.5	0							
5	QPSK	12	13	21.70	21.79	21.70									
5	QPSK	25	0	21.68	21.78	21.64									
5	16QAM	1	0	21.83	21.89	21.83									
5	16QAM	1	12	21.87	21.83	21.86	22.5	0							
5	16QAM	1	24	21.79	21.84	21.92									
5	16QAM	12	0	21.87	21.85	21.87									
5	16QAM	12	7	21.79	21.79	21.82									
5	16QAM	12	13	21.88	21.81	21.87	22.5	0							
5	16QAM	25	0	21.84	21.88	21.84									
5	256QAM	1	0	21.58	21.67	21.59	20.5	2							
5	256QAM	1	0	20.36	20.45	20.22									
5	256QAM	1	40	20.16	20.42	20.31									
5	256QAM	1	80	20.24	20.44	20.24									
5	256QAM	25	0	20.28	20.41	20.33	20.5		2						
5	256QAM	25	0	20.18	20.26	20.09									
5	256QAM	25	25	20.25	20.20	20.28									
5	256QAM	80	0	20.22	20.32	20.14									
Channel							132222				132222	132697	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)							1771.5 <th>1745<th>1773.5<th colspan="2"></th></th></th>				1745 <th>1773.5<th colspan="2"></th></th>	1773.5 <th colspan="2"></th>			
3	QPSK	1	0	21.96	21.92	21.92	22.5	0							
3	QPSK	1	12	21.87	21.85	21.83									
3	QPSK	1	24	21.83	21.81	21.85									
3	QPSK	12	0	21.81	21.85	21.81									
3	QPSK	12	7	21.72	21.72	21.79	22.5	0							
3	QPSK	12	13	21.70	21.79	21.70									
3	QPSK	25	0	21.70	21.78	21.76									
3	16QAM	1	0	21.83	21.89	21.83									
3	16QAM	1	12	21.87	21.83	21.86	22.5	0							
3	16QAM	1	24	21.79	21.84	21.92									
3	16QAM	12	0	21.87	21.85	21.87									
3	16QAM	12	7	21.79	21.79	21.82									
3	16QAM	12	13	21.88	21.81	21.87	22.5	0							
3	16QAM	25	0	21.84	21.88	21.84									
3	256QAM	1	0	21.58	21.67	21.59	20.5	2							
3	256QAM	1	0	20.36	20.45	20.22									
3	256QAM	1	40	20.16	20.42	20.31									
3	256QAM	1	80	20.24	20.44	20.24									
3	256QAM	25	0	20.28	20.41	20.33	20.5		2						
3	256QAM	25	0	20.18	20.26	20.09									
3	256QAM	25	25	20.25	20.20	20.28									
3	256QAM	80	0	20.22	20.32	20.14									
Channel							132222				132222	132697	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)							1771.5 <th>1745<th>1773.5<th colspan="2"></th></th></th>				1745 <th>1773.5<th colspan="2"></th></th>	1773.5 <th colspan="2"></th>			
1.4	QPSK	1	0	21.96	21.92	21.92	22.5	0							
1.4	QPSK	1	12	21.87	21.85	21.83									
1.4	QPSK	1	24	21.83	21.81	21.85									
1.4	QPSK	12	0	21.81	21.85	21.81									
1.4	QPSK	12	7	21.72	21.72	21.79	22.5	0							
1.4	QPSK	12	13	21.70	21.79	21.70									
1.4	QPSK	25	0	21.70	21.78	21.76									
1.4	16QAM	1	0	21.83	21.89	21.83									
1.4	16QAM	1	12	21.87	21.83	21.86	22.5	0							
1.4	16QAM	1	24	21.79	21.84	21.92									
1.4	16QAM	12	0	21.87	21.85	21.87									
1.4	16QAM	12	7	21.79	21.79	21.82									
1.4	16QAM	12	13	21.88	21.81	21.87	22.5	0							
1.4	16QAM	25	0	21.84	21.88	21.84									
1.4	256QAM	1	0	21.58	21.67	21.59	20.5	2							
1.4	256QAM	1	0	20.36	20.45	20.22									
1.4	256QAM	1	40	20.16	20.42	20.31									
1.4	256QAM	1	80	20.24	20.44	20.24									
1.4	256QAM	25	0	20.28	20.41	20.33	20.5		2						
1.4	256QAM	25	0	20.18	20.26	20.09									
1.4	256QAM	25	25	20.25	20.20	20.28									
1.4	256QAM	80	0	20.22	20.32	20.14									
Channel							132222				132222	132697	Tune-up (MHz)	Margin (dB)	
Frequency (MHz)							1771.5 <th>1745<th>1773.5<th colspan="2"></th></th></th>				1745 <th>1773.5<th colspan="2"></th></th>	1773.5 <th colspan="2"></th>			
1.4	QPSK	1	0	21.96	21.92	21.92	22.5	0							
1.4	QPSK	1	12	21.87	21.85	21.83									
1.4	QPSK	1	24	21.83	21.81	21.85									
1.4	QPSK	12	0	21.81	21.85	21.81									
1.4	QPSK	12	7	21.72	21.72	21.79	2								

Band 38_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.84	19.88	19.93			
20	QPSK	1	49	19.77	19.79	19.75	20.3	0	
20	QPSK	1	99	19.69	19.77	19.73			
20	QPSK	50	0	19.73	19.75	19.71			
20	QPSK	50	24	19.68	19.68	19.60	20.3	0	
20	QPSK	50	50	19.68	19.61	19.57			
20	QPSK	100	0	19.64	19.68	19.58			
20	16QAM	1	0	19.78	19.75	19.69			
20	16QAM	1	49	19.76	19.77	19.73	20.3	0	
20	16QAM	1	99	19.70	19.78	19.68			
20	16QAM	50	0	19.77	19.80	19.73			
20	16QAM	50	24	19.70	19.76	19.75	20.3	0	
20	16QAM	50	50	19.78	19.73	19.77			
20	16QAM	100	0	19.76	19.80	19.69			
20	64QAM	1	0	19.71	19.76	19.69			
20	64QAM	1	49	19.77	19.78	19.77	20.3	0	
20	64QAM	1	99	19.78	19.77	19.73			
20	64QAM	50	0	19.79	19.83	19.76			
20	64QAM	50	24	19.74	19.78	19.69	20.3	0	
20	64QAM	50	50	19.75	19.77	19.71			
20	64QAM	100	0	19.70	19.73	19.74			
20	256QAM	1	0	19.78	19.76	19.71	20.3	0	
20	256QAM	1	49	19.75	19.83	19.69			
20	256QAM	1	99	19.75	19.74	19.78			
20	256QAM	50	0	19.73	19.78	19.68			
20	256QAM	50	24	19.75	19.77	19.70	20.3	0	
20	256QAM	50	50	19.78	19.62	19.75			
20	256QAM	100	0	19.77	19.73	19.68			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.70	19.78	19.68			
15	QPSK	1	37	19.68	19.72	19.69	20.3	0	
15	QPSK	1	74	19.56	19.70	19.60			
15	QPSK	36	0	19.66	19.68	19.59	20.3	0	
15	QPSK	36	20	19.63	19.66	19.62			
15	QPSK	36	39	19.61	19.46	19.50			
15	QPSK	75	0	19.49	19.53	19.50			
15	16QAM	1	0	19.70	19.60	19.64			
15	16QAM	1	37	19.69	19.70	19.66	20.3	0	
15	16QAM	1	74	19.63	19.63	19.58			
15	16QAM	36	0	19.68	19.69	19.58	20.3	0	
15	16QAM	36	20	19.64	19.64	19.60			
15	16QAM	36	39	19.69	19.60	19.63			
15	16QAM	75	0	19.64	19.68	19.56			
15	64QAM	1	0	19.62	19.71	19.63	20.3	0	
15	64QAM	1	37	19.74	19.63	19.67			
15	64QAM	1	74	19.63	19.64	19.68			
15	64QAM	36	0	19.66	19.74	19.62	20.3	0	
15	64QAM	36	20	19.66	19.69	19.62			
15	64QAM	36	39	19.69	19.72	19.59			
15	64QAM	75	0	19.67	19.76	19.68			
15	256QAM	1	0	19.67	19.76	19.67	20.3	0	
15	256QAM	1	37	19.68	19.75	19.55			
15	256QAM	1	74	19.75	19.63	19.76			
15	256QAM	36	0	19.66	19.66	19.65	20.3	0	
15	256QAM	36	20	19.67	19.73	19.61			
15	256QAM	36	39	19.66	19.74	19.62			
15	256QAM	75	0	19.69	19.70	19.60			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.69	19.83	19.72	20.3	0	
10	QPSK	1	25	19.65	19.64	19.65			
10	QPSK	1	49	19.59	19.69	19.67			
10	QPSK	25	0	19.66	19.66	19.64	20.3	0	
10	QPSK	25	12	19.53	19.59	19.51			
10	QPSK	25	25	19.60	19.52	19.47			
10	QPSK	50	0	19.51	19.60	19.46			
10	16QAM	1	0	19.73	19.66	19.57	20.3	0	
10	16QAM	1	25	19.62	19.65	19.61			
10	16QAM	49	0	19.55	19.66	19.54			
10	16QAM	25	0	19.72	19.67	19.67	20.3	0	
10	16QAM	25	12	19.64	19.71	19.67			
10	16QAM	25	25	19.73	19.68	19.72			
10	16QAM	50	0	19.68	19.73	19.57			
10	64QAM	1	0	19.62	19.71	19.65	20.3	0	
10	64QAM	1	25	19.71	19.67	19.62			
10	64QAM	1	49	19.63	19.62	19.59			
10	64QAM	25	0	19.67	19.70	19.68	20.3	0	
10	64QAM	25	12	19.68	19.67	19.56			
10	64QAM	25	25	19.62	19.74	19.64			
10	64QAM	50	0	19.55	19.64	19.66			
10	256QAM	1	0	19.78	19.61	19.59	20.3	0	
10	256QAM	1	25	19.65	19.75	19.65			
10	256QAM	1	49	19.70	19.63	19.74			
10	256QAM	25	0	19.73	19.78	19.53	20.3	0	
10	256QAM	25	12	19.71	19.63	19.68			
10	256QAM	25	25	19.75	19.71	19.74			
10	256QAM	50	0	19.68	19.64	19.59			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.77	19.78	19.68	20.3	0	
5	QPSK	1	12	19.62	19.74	19.62			
5	QPSK	1	24	19.64	19.69	19.63			
5	QPSK	12	0	19.62	19.62	19.65	20.3	0	
5	QPSK	12	7	19.54	19.56	19.50			
5	QPSK	12	13	19.57	19.53	19.42			
5	QPSK	25	0	19.58	19.53	19.51			
5	16QAM	1	0	19.71	19.63	19.53	20.3	0	
5	16QAM	1	24	19.64	19.69	19.59			
5	16QAM	1	24	19.60	19.66	19.60			
5	16QAM	12	0	19.67	19.73	19.63	20.3	0	
5	16QAM	12	7	19.65	19.64	19.66			
5	16QAM	12	13	19.72	19.68	19.67			
5	16QAM	25	0	19.64	19.72	19.64			
5	64QAM	1	0	19.62	19.67	19.56	20.3	0	
5	64QAM	1	12	19.66	19.71	19.68			
5	64QAM	1	24	19.65	19.66	19.65			
5	64QAM	12	0	19.67	19.72	19.70	20.3	0	
5	64QAM	12	7	19.60	19.70	19.64			
5	64QAM	12	13	19.63	19.64	19.56			
5	64QAM	25	0	19.55	19.62	19.69			
5	256QAM	1	0	19.71	19.72	19.65	20.3	0	
5	256QAM	1	12	19.70	19.74	19.61			
5	256QAM	1	24	19.72	19.67	19.68			
5	256QAM	12	0	19.67	19.75	19.67	20.3	0	
5	256QAM	12	7	19.60	19.75	19.56			
5	256QAM	12	13	19.65	19.67	19.64			
5	256QAM	25	0	19.68	19.66	19.65			

Band 38_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	21.83	21.85	21.79			
20	QPSK	1	49	21.69	21.71	21.64	22	0	
20	QPSK	1	99	21.76	21.80	21.68			
20	QPSK	50	0	21.75	21.77	21.71			
20	QPSK	50	24	21.63	21.85	21.56	22	0	
20	QPSK	50	50	21.67	21.84	21.62			
20	QPSK	100	0	21.63	21.86	21.59			
20	16QAM	1	0	21.69	21.76	21.73			
20	16QAM	1	49	21.69	21.72	21.65	22	0	
20	16QAM	1	99	21.73	21.77	21.74			
20	16QAM	50	0	21.68	21.75	21.66			
20	16QAM	50	24	21.68	21.77	21.74	22	0	
20	16QAM	50	50	21.76	21.80	21.74			
20	16QAM	100	0	21.73	21.74	21.64			
20	64QAM	1	0	21.77	21.79	21.66	22	0	
20	64QAM	1	49	21.70	21.72	21.73			
20	64QAM	1	99	21.78	21.75	21.64			
20	64QAM	50	0	21.72	21.75	21.66			
20	64QAM	50	24	21.74	21.74	21.66	22	0	
20	64QAM	50	50	21.73	21.73	21.73			
20	64QAM	100	0	21.71	21.71	21.74			
20	256QAM	1	0	20.65	20.72	20.58	21	1	
20	256QAM	1	49	20.63	20.65	20.58			
20	256QAM	1	99	20.53	20.68	20.55			
20	256QAM	50	0	20.64	20.70	20.62			
20	256QAM	50	24	20.57	20.65	20.51	21	1	
20	256QAM	50	50	20.46	20.60	20.52			
20	256QAM	100	0	20.65	20.68	20.54			
Channel									
Frequency (MHz)				37825 <th>38000</th> <th>38175</th> <th>Time-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	38000	38175	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.77	21.74	21.72			
15	QPSK	1	49	21.74	21.76	21.65	22	0	
15	QPSK	1	74	21.73	21.88	21.58			
15	QPSK	36	0	21.61	21.67	21.66			
15	QPSK	36	20	21.54	21.59	21.48	22	0	
15	QPSK	36	39	21.62	21.54	21.56			
15	QPSK	75	0	21.64	21.66	21.65			
15	16QAM	1	0	21.64	21.66	21.64			
15	16QAM	1	37	21.57	21.62	21.60	22	0	
15	16QAM	1	74	21.60	21.69	21.58			
15	16QAM	36	0	21.58	21.70	21.54			
15	16QAM	36	20	21.62	21.62	21.68			
15	16QAM	36	39	21.58	21.58	21.71	22	0	
15	16QAM	75	0	21.68	21.64	21.58			
15	64QAM	1	0	21.68	21.71	21.60			
15	64QAM	1	37	21.56	21.57	21.65	22	0	
15	64QAM	1	74	21.57	21.70	21.57			
15	64QAM	36	0	21.61	21.62	21.61			
15	64QAM	36	39	20.69	21.62	21.52	22	0	
15	64QAM	36	39	21.68	21.63	21.58			
15	64QAM	75	0	21.61	21.66	21.65			
15	256QAM	1	0	20.54	20.70	20.47	21	1	
15	256QAM	1	37	20.52	20.81	20.55			
15	256QAM	1	74	20.46	20.80	20.53			
15	256QAM	36	0	20.59	20.68	20.56			
15	256QAM	36	20	20.52	20.84	20.50	21	1	
15	256QAM	36	39	20.51	20.49	20.52			
15	256QAM	75	0	20.53	20.55	20.46			
Channel									
Frequency (MHz)				37800 <th>38000</th> <th>38200</th> <th>Time-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	38000	38200	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	21.69	21.70	21.74			
10	QPSK	1	25	21.57	21.65	21.57	22	0	
10	QPSK	1	49	21.68	21.66	21.60			
10	QPSK	25	0	21.69	21.65	21.57			
10	QPSK	25	12	21.57	21.52	21.50	22	0	
10	QPSK	25	25	21.56	21.52	21.50			
10	QPSK	50	0	21.57	21.55	21.48			
10	16QAM	1	0	21.56	21.70	21.60			
10	16QAM	1	25	21.61	21.66	21.56	22	0	
10	16QAM	1	49	21.62	21.71	21.62			
10	16QAM	25	0	21.61	21.62	21.61			
10	16QAM	25	12	21.59	21.60	20.53	22	0	
10	16QAM	25	25	21.70	21.74	21.63			
10	16QAM	50	0	21.62	21.65	21.63			
10	64QAM	1	0	21.64	21.69	21.61			
10	64QAM	1	25	21.64	21.60	21.62	22	0	
10	64QAM	1	49	21.66	21.63	21.61			
10	64QAM	25	0	21.64	21.60	21.54			
10	64QAM	25	12	21.67	21.65	21.51	22	0	
10	64QAM	25	25	21.64	21.58	21.65			
10	64QAM	50	0	21.65	21.65	21.66			
10	256QAM	1	0	20.40	20.85	20.40	21	1	
10	256QAM	1	25	20.59	20.80	20.47			
10	256QAM	1	49	20.44	20.64	20.54			
10	256QAM	25	0	20.51	20.60	20.53			
10	256QAM	25	12	20.42	20.55	20.47	21	1	
10	256QAM	25	25	20.40	20.46	20.42			
10	256QAM	50	0	20.58	20.60	20.50			
Channel									
Frequency (MHz)				37775 <th>38000</th> <th>38225</th> <th>Time-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	38000	38225	Time-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	21.75	21.70	21.67			
5	QPSK	1	12	21.59	21.57	21.55	22	0	
5	QPSK	1	24	21.64	21.71	21.54			
5	QPSK	12	0	21.64	21.71	21.64			
5	QPSK	12	12	21.59	21.60	21.59	22	0	
5	QPSK	12	13	21.56	21.51	21.48			
5	QPSK	25	0	21.57	21.60	21.45			
5	16QAM	1	0	21.58	21.68	21.58			
5	16QAM	1	12	21.61	21.62	21.56	22	0	
5	16QAM	1	24	21.66	21.63	21.51			
5	16QAM	12	0	21.54	21.62	21.62			
5	16QAM	12	7	21.58	21.66	21.64	22	0	
5	16QAM	12	13	21.65	21.70	21.59			
5	64QAM	1	0	21.71	21.71	21.53			
5	64QAM	1	12	21.63	21.63	21.63	22	0	
5	64QAM	1	24	21.59	21.66	21.55			
5	64QAM	12	0	21.67	21.63	21.61			
5	64QAM	12	7	21.66	21.67	21.57	22	0	
5	64QAM	12	13	21.63	21.59	21.67			
5	256QAM	1	0	20.55	20.66	20.43			
5	256QAM	1	12	20.53	20.64	20.53	21	1	
5	256QAM	1	24	20.40	20.63	20.52			
5	256QAM	12	0	20.54	20.63	20.58			
5	256QAM	12	7	20.57	20.52	20.39	21	1	
5	256QAM	12	13	20.56	20.52	20.39			
5	256QAM	25	0	20.65	20.66	20.49			

Band 41_Ant 13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power Low High Ch./Freq.	Power High Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	25.06	25.49	25.93	26.36	26.80	21.5	0		
20	QPSK	1	49	20.44	20.74	20.77	20.76	20.79				
20	QPSK	1	99	20.45	20.77	20.79	20.76	20.78				
20	QPSK	50	0	20.47	20.71	20.81	20.71	20.70				
20	QPSK	50	24	20.33	20.66	20.69	20.62	20.66	21.5	0		
20	QPSK	50	50	20.42	20.65	20.71	20.68	20.66				
20	QPSK	100	0	20.41	20.62	20.68	20.56	20.66				
20	16QAM	1	0	20.41	20.77	20.77	20.69	20.82				
20	16QAM	1	49	20.48	20.75	20.77	20.76	20.78	21.5	0		
20	16QAM	1	99	20.50	20.78	20.77	20.63	20.79				
20	16QAM	50	0	20.41	20.77	20.72	20.76	20.75				
20	16QAM	50	24	20.50	20.76	20.75	20.73	20.77				
20	16QAM	50	50	20.40	20.68	20.74	20.62	20.72	21.5	0		
20	16QAM	100	0	20.40	20.73	20.75	20.70	20.73				
20	64QAM	1	0	20.45	20.74	20.76	20.70	20.74				
20	64QAM	1	49	20.46	20.75	20.75	20.63	20.77				
20	64QAM	1	99	20.41	20.70	20.73	20.73	20.69	21.5	0		
20	64QAM	50	0	20.50	20.71	20.74	20.77	20.83				
20	64QAM	50	24	20.41	20.68	20.77	20.64	20.79				
20	64QAM	50	50	20.46	20.70	20.78	20.75	20.70				
20	64QAM	100	0	20.40	20.73	20.76	20.70	20.79	20.5	1		
20	256QAM	1	0	19.97	20.01	20.06	19.94	19.97				
20	256QAM	1	49	19.94	19.97	20.01	19.99	19.93				
20	256QAM	1	99	19.92	19.95	19.98	19.89	19.94				
20	256QAM	50	0	19.86	19.85	19.91	19.85	19.76	20.5	1		
20	256QAM	50	24	19.70	19.77	19.85	19.78	19.84				
20	256QAM	50	50	19.75	19.81	19.88	19.84	19.87				
20	256QAM	100	0	19.88	19.74	19.89	19.80	19.77				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.42	20.69	20.74	20.62	20.78	21.5	0		
15	QPSK	1	37	20.39	20.61	20.64	20.75	20.70				
15	QPSK	1	74	20.33	20.71	20.73	20.74	20.67				
15	QPSK	36	0	20.36	20.61	20.75	20.64	20.67				
15	QPSK	36	20	20.28	20.52	20.56	20.59	20.58	21.5	0		
15	QPSK	36	39	20.20	20.52	20.58	20.55	20.58				
15	QPSK	75	0	20.32	20.50	20.55	20.49	20.53				
15	16QAM	1	0	20.29	20.64	20.71	20.65	20.71				
15	16QAM	1	37	20.37	20.68	20.73	20.50	20.63	21.5	0		
15	16QAM	1	74	20.42	20.70	20.75	20.60	20.76				
15	16QAM	36	0	20.30	20.67	20.59	20.71	20.64				
15	16QAM	36	20	20.39	20.66	20.67	20.73	20.70				
15	16QAM	36	39	20.30	20.62	20.60	20.58	20.62	21.5	0		
15	16QAM	75	0	20.29	20.58	20.63	20.61	20.65				
15	64QAM	1	0	20.32	20.69	20.68	20.62	20.71				
15	64QAM	1	37	20.30	20.67	20.67	20.67	20.71				
15	64QAM	1	74	20.33	20.61	20.64	20.68	20.64	21.5	0		
15	64QAM	36	0	20.37	20.60	20.63	20.63	20.78				
15	64QAM	36	20	20.36	20.55	20.68	20.61	20.67				
15	64QAM	36	39	20.41	20.63	20.70	20.63	20.60				
15	64QAM	75	0	20.31	20.59	20.66	20.55	20.63	20.5	1		
15	256QAM	1	0	19.83	19.86	19.95	19.86	19.84				
15	256QAM	1	37	19.90	19.90	19.93	19.97	19.88				
15	256QAM	1	74	19.91	19.90	19.97	19.85	19.75				
15	256QAM	36	0	19.79	19.72	19.82	19.71	19.69	20.5	1		
15	256QAM	36	20	19.60	19.66	19.74	19.65	19.79				
15	256QAM	36	39	19.69	19.67	19.78	19.74	19.80				
15	256QAM	75	0	19.68	19.74	19.80	19.71	19.82				
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.41	20.77	20.78	20.74	20.74	21.5	0		
10	QPSK	1	25	20.31	20.64	20.70	20.69	20.73				
10	QPSK	1	49	20.37	20.63	20.72	20.74	20.77				
10	QPSK	25	0	20.37	20.57	20.72	20.67	20.67				
10	QPSK	25	12	20.28	20.54	20.61	20.48	20.66	21.5	0		
10	QPSK	25	25	20.24	20.57	20.56	20.68	20.65				
10	QPSK	50	0	20.29	20.57	20.53	20.43	20.57				
10	16QAM	1	0	20.36	20.69	20.62	20.59	20.74				
10	16QAM	1	25	20.35	20.68	20.74	20.53	20.69	21.5	0		
10	16QAM	1	49	20.43	20.68	20.65	20.56	20.75				
10	16QAM	25	0	20.34	20.68	20.65	20.70	20.63				
10	16QAM	25	12	20.38	20.62	20.60	20.70	20.74				
10	16QAM	25	25	20.28	20.61	20.66	20.61	20.72	21.5	0		
10	16QAM	50	0	20.27	20.66	20.62	20.55	20.60				
10	64QAM	1	0	20.34	20.62	20.64	20.57	20.62				
10	64QAM	1	25	20.35	20.68	20.60	20.54	20.63				
10	64QAM	1	49	20.30	20.55	20.61	20.73	20.63	21.5	0		
10	64QAM	25	0	20.45	20.61	20.65	20.76	20.73				
10	64QAM	25	12	20.36	20.53	20.63	20.63	20.64				
10	64QAM	25	25	20.34	20.58	20.66	20.62	20.67				
10	64QAM	50	0	20.32	20.68	20.65	20.69	20.65	20.5	1		
10	256QAM	1	0	19.91	19.90	19.99	19.90	19.83				
10	256QAM	1	25	19.85	19.86	19.96	19.89	19.80				
10	256QAM	1	49	19.78	19.87	19.89	19.76	19.72				
10	256QAM	25	0	19.75	19.84	19.76	19.75	19.75	20.5	1		
10	256QAM	25	12	19.69	19.85	19.76	19.76	19.74				
10	256QAM	25	25	19.66	19.76	19.82	19.81	19.87				
10	256QAM	50	0	19.61	19.66	19.84	19.75	19.65				
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.47	20.68	20.73	20.63	20.74	21.5	0		
5	QPSK	1	12	20.36	20.60	20.62	20.67	20.65				
5	QPSK	1	24	20.37	20.62	20.64	20.70	20.67				
5	QPSK	12	0	20.33	20.60	20.73	20.56	20.56				
5	QPSK	12	7	20.22	20.53	20.62	20.56	20.51	21.5	0		
5	QPSK	12	13	20.26	20.50	20.63	20.57	20.53				
5	QPSK	25	0	20.32	20.57	20.55	20.41	20.63				
5	16QAM	1	0	20.33	20.63	20.71	20.60	20.81				
5	16QAM	1	12	20.40	20.69	20.69	20.53	20.66	21.5	0		
5	16QAM	1	24	20.36	20.72	20.71	20.62	20.79				
5	16QAM	12	0	20.33	20.64	20.65	20.61	20.65				
5	16QAM	12	7	20.41	20.64	20.62	20.64	20.75				
5	16QAM	12	13	20.25	20.62	20.66	20.52	20.61	21.5	0		
5	64QAM	25	0	20.33	20.66	20.63	20.70	20.71				
5	64QAM	1	0	20.30	20.59	20.70	20.60	20.70				
5	64QAM	1	12	20.35	20.63	20.63	20.50	20.74				
5	64QAM	1	24	20.28	20.59	20.70	20.66	20.58	21.5	0		
5	64QAM	12	0	20.44	20.56	20.69	20.64	20.68				
5	64QAM	12	7	20.29	20.55	20.62	20.59	20.78				
5	64QAM	12	13	20.33	20.61	20.72	20.61	20.70				
5	64QAM	25	0	20.35	20.63	20.66	20.55	20.70	20.5	1		
5	256QAM	1	0	19.93	19.86	20.02	19.79	19.93				
5	256QAM	1	12	19.93	19.82	20.00	19.97	19.89				
5	256QAM	1	24	19.81	19.93	19.97	19.87	19.74	20.5	1		
5	256QAM	12	0	19.81	19.85	19.88	19.82	19.73				
5	256QAM	12	7	19.62	19.74	19.74	19.77	19.76				
5	256QAM	12	13	19.62	19.73	19.77	19.77	19.82				
5	256QAM	25	0	19.78	19.80	19.75	19.77	19.64	20.5	1		

Reduced Power Mode for ECI 8&9&10

GSM1800_Ant.13	Burst-Average Power (dbm)				Tuneup Limit (dbm)	Frame-Average Power (dbm)				Tuneup Limit (dbm)
	TX Channel					TX Channel				
	512	661	810	512		661	810			
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8			
GSM 1 Tx slot	32.15	32.16	32.13	33.50	23.15	23.16	23.13	24.50		
GPRS/EDGE GMSK 1 Tx slot	32.13	32.15	32.11	33.50	23.13	23.15	23.11	24.50		
GPRS/EDGE GMSK 2 Tx slots	30.11	30.13	30.10	31.50	24.11	24.13	24.10	25.50		
GPRS/EDGE GMSK 3 Tx slots	27.88	27.90	27.86	29.50	23.62	23.64	23.60	25.24		
GPRS/EDGE GMSK 4 Tx slots	26.26	26.28	26.25	28.00	23.26	23.28	23.25	25.00		
EDGE BPSK 1 Tx slot	26.76	26.78	26.75	28.50	17.76	17.78	17.75	19.50		
EDGE BPSK 2 Tx slots	24.46	24.50	24.45	26.00	18.46	18.50	18.45	20.00		
EDGE BPSK 3 Tx slots	22.43	22.45	22.43	24.00	18.17	18.19	18.17	19.74		
EDGE BPSK 4 Tx slots	20.43	20.46	20.45	22.00	17.43	17.46	17.45	19.00		

GSM1800_Ant.13	Burst-Average Power (dbm)			Tuneup Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel							
	512	661	810		512	661	810	
Frequency (MHz)	1522	1534	1546.6		1522	1534	1546.6	
GSM 1 Tx slot	24.15	24.60	24.63	25.50	15.35	15.69	15.65	16.50
GPRS/EDGE GMSK 1 Tx slot	24.39	24.63	24.69	25.50	15.39	15.63	15.69	16.50
GPRS/EDGE GMSK 2 Tx slots	21.25	21.48	21.54	22.00	15.25	15.48	15.54	16.00
GPRS/EDGE GMSK 3 Tx slots	19.15	19.43	19.47	19.70	14.89	15.17	15.21	15.44
GPRS/EDGE GMSK 4 Tx slots	17.77	18.02	18.10	19.50	14.77	15.02	15.10	16.50
EDGE BPSK 1 Tx slot	24.62	24.86	24.90	25.50	15.62	15.86	15.90	16.50
EDGE BPSK 2 Tx slots	21.68	21.92	22.01	22.50	15.68	15.92	16.01	16.50
EDGE BPSK 3 Tx slots	19.81	20.08	20.18	20.50	15.55	15.82	15.90	16.24
EDGE BPSK 4 Tx slots	18.41	18.66	18.71	19.50	15.41	15.66	15.71	16.50

Band	WCDMA II_Ant.13				Tune-up Limit (dbm)	WCDMA II_Ant.31				Tune-up Limit (dbm)
	TX Channel					TX Channel				
	9662	9400	9538			9662	9400	9538		
Rx Channel	9662	9800	9938		9662	9800	9938			
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6			
3GPP Rel.99 AMR 12.2Kbps	17.38	17.47	17.47	18.70	20.40	20.43	20.39	21.20		
3GPP Rel.99 RMC 12.2Kbps	17.50	17.61	17.53	18.70	20.46	20.51	20.47	21.20		
3GPP Rel.6 HSDPA Subtest-1	17.35	17.51	17.43	18.70	20.35	20.38	20.34	21.20		
3GPP Rel.6 HSDPA Subtest-2	17.42	17.54	17.44	18.70	20.35	20.41	20.42	21.20		
3GPP Rel.6 HSDPA Subtest-3	17.43	17.52	17.41	18.70	20.37	20.37	20.39	21.20		
3GPP Rel.6 HSDPA Subtest-4	17.36	17.49	17.44	18.70	20.38	20.46	20.35	21.20		
3GPP Rel.6 DC-HSDPA Subtest-1	17.40	17.56	17.38	18.70	20.40	20.40	20.32	21.20		
3GPP Rel.6 DC-HSDPA Subtest-2	17.37	17.56	17.39	18.70	20.33	20.44	20.32	21.20		
3GPP Rel.6 DC-HSDPA Subtest-3	17.39	17.50	17.45	18.70	20.31	20.37	20.37	21.20		
3GPP Rel.6 DC-HSDPA Subtest-4	17.41	17.56	17.46	18.70	20.36	20.39	20.35	21.20		
3GPP Rel.6 HSUPA Subtest-1	17.38	17.54	17.48	18.70	20.37	20.46	20.42	21.20		
3GPP Rel.6 HSUPA Subtest-2	17.42	17.52	17.43	18.70	20.35	20.42	20.35	21.20		
3GPP Rel.6 HSUPA Subtest-3	17.41	17.47	17.46	18.70	20.33	20.39	20.35	21.20		
3GPP Rel.6 HSUPA Subtest-4	17.44	17.52	17.40	18.70	20.40	20.36	20.42	21.20		
3GPP Rel.6 HSUPA Subtest-5	17.43	17.50	17.46	18.70	20.40	20.41	20.39	21.20		
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	17.38	17.55	17.41	18.70	20.41	20.40	20.41	21.20		

Band	WCDMA V_Ant.13				Tune-up Limit (dBm)	WCDMA V_Ant.31				Tune-up Limit (dBm)
	Tx Channel					Tx Channel				
	4132	4162	4233			4132	4162	4233		
Rx Channel	4357	4407	4458		4357	4407	4458			
Frequency (MHz)	826.4	838.4	848.6		826.4	838.4	848.6			
3GPP Rel.99 AMR 12.2Kbps	23.53	23.58	23.51	25.00	23.63	23.68	23.61	25.00		
3GPP Rel.99 RMC 12.2Kbps	23.55	23.60	23.53	25.00	23.65	23.68	23.63	25.00		
3GPP Rel.6 HSDPA Subtest-1	22.66	22.59	22.54	24.00	23.08	23.01	22.96	24.00		
3GPP Rel.6 HSDPA Subtest-2	22.62	22.61	22.52	24.00	23.03	23.02	22.99	24.00		
3GPP Rel.6 HSDPA Subtest-3	22.21	22.14	22.08	23.50	22.62	22.59	22.52	23.50		
3GPP Rel.6 HSDPA Subtest-4	22.12	22.12	22.05	23.50	22.56	22.55	22.47	23.50		
3GPP Rel.6 DC-HSDPA Subtest-1	22.53	22.44	22.52	24.00	22.98	22.93	22.83	24.00		
3GPP Rel.6 DC-HSDPA Subtest-2	22.53	22.48	22.38	24.00	22.93	23.00	22.84	24.00		
3GPP Rel.6 DC-HSDPA Subtest-3	22.18	22.04	21.98	23.50	22.57	22.54	22.40	23.50		
3GPP Rel.6 DC-HSDPA Subtest-4	22.02	22.03	21.94	23.50	22.49	22.45	22.40	23.50		
3GPP Rel.6 HSUPA Subtest-1	20.54	20.60	20.53	22.00	20.93	21.01	20.96	22.00		
3GPP Rel.6 HSUPA Subtest-2	20.58	20.57	20.57	22.00	20.97	21.05	20.98	22.00		
3GPP Rel.6 HSUPA Subtest-3	21.60	21.63	21.55	23.00	21.98	22.02	21.97	23.00		
3GPP Rel.6 HSUPA Subtest-4	20.07	20.14	20.05	21.50	20.48	20.53	20.43	21.50		
3GPP Rel.6 HSUPA Subtest-5	21.60	21.60	21.50	23.00	22.00	22.00	21.90	23.00		
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	20.17	20.20	20.15	21.50	20.55	20.66	20.62	21.50		

GSM1800_Ant.31	Burst-Average Power (dbm)			Tune-up Limit (dbm)	Frame-Average Power (dbm)			Tune-up Limit (dbm)
	TX Channel							
	512	661	810		512	661	810	
Frequency (MHz)	1522.2	1534	1546.6		1522.2	1534	1546.6	
GSM 1 Tx slot	29.57	29.60	29.55	30.20	20.57	20.60	20.55	21.20
GPRS/EDGE GMSK 1 Tx slot	29.55	29.58	29.53	30.20	20.55	20.56	20.53	21.20
GPRS/EDGE GMSK 2 Tx slots	26.53	26.55	26.51	26.70	20.53	20.55	20.51	20.70
GPRS/EDGE GMSK 3 Tx slots	24.30	24.31	24.30	24.40	20.04	20.05	20.04	20.14
GPRS/EDGE GMSK 4 Tx slots	23.09	23.07	23.06	23.50	20.09	20.07	20.06	20.50
EDGE BPSK 1 Tx slot	26.18	26.21	26.15	26.50	17.18	17.21	17.16	17.50
EDGE BPSK 2 Tx slots	24.23	24.25	24.21	24.50	18.23	18.25	18.21	18.50
EDGE BPSK 3 Tx slots	22.20	22.23	22.17	22.50	17.94	17.97	17.91	18.24
EDGE BPSK 4 Tx slots	20.65	20.67	20.63	21.00	17.65	17.67	17.63	18.00

Band	WCDMA IV_Ant.13			Tune-Up Limit (dBm)	WCDMA IV_Ant.31			Tune-Up Limit (dBm)
	Tx Channel							
	1312	1413	1513		1312	1413	1513	
Rx Channel	1537	1638	1738		1537	1638	1738	
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6	
3GPP Rel.99 AMR 12.2Kbps	19.03	19.22	18.92	20.20	21.63	21.81	21.52	22.20
3GPP Rel.99 RMC 12.2Kbps	19.17	19.33	19.00	20.20	21.72	21.90	21.60	22.20
3GPP Rel.6 HSDPA Subtest-1	19.10	19.26	18.89	20.20	21.61	21.78	21.49	22.20
3GPP Rel.6 HSDPA Subtest-2	19.02	19.21	18.85	20.20	21.61	21.79	21.47	22.20
3GPP Rel.6 HSDPA Subtest-3	19.06	19.25	18.86	20.20	21.57	21.81	21.55	22.20
3GPP Rel.6 HSDPA Subtest-4	19.06	19.18	18.94	20.20	21.65	21.85	21.49	22.20
3GPP Rel.6 DC-HSDPA Subtest-1	19.11	19.28	18.95	20.20	21.63	21.85	21.49	22.20
3GPP Rel.6 DC-HSDPA Subtest-2	19.05	19.22	18.89	20.20	21.65	21.82	21.53	22.20
3GPP Rel.6 DC-HSDPA Subtest-3	19.12	19.19	18.90	20.20	21.66	21.79	21.53	22.20
3GPP Rel.6 DC-HSDPA Subtest-4	19.09	19.22	18.85	20.20	21.66	21.85	21.48	22.20
3GPP Rel.6 HSUPA Subtest-1	19.11	19.27	18.92	20.20	21.68	21.28	20.95	22.00
3GPP Rel.6 HSUPA Subtest-2	19.08	19.22	18.87	20.20	21.13	21.27	21.04	22.00
3GPP Rel.6 HSUPA Subtest-3	19.03	19.24	18.89	20.20	21.61	21.85	21.48	22.20
3GPP Rel.6 HSUPA Subtest-4	19.12	19.23	18.85	20.20	20.62	20.66	20.46	21.50
3GPP Rel.6 HSUPA Subtest-5	19.07	19.28	18.93	20.20	20.57	21.80	21.52	22.20
3GPP Rel.7 HSPA+ (10QAM) Subtest-1	19.05	19.21	18.93	20.20	20.66	20.73	20.65	21.50

Band 2_Ant 13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up int. [dB]	MPE [dB]		
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.70	17.72	17.65				
20	QPSK	1	49	17.62	17.59	17.68	18.8	0		
20	QPSK	1	98	17.52	17.62	17.65				
20	QPSK	50	0	17.61	17.62	17.65				
20	QPSK	50	24	17.46	17.49	17.48				
20	QPSK	50	50	17.56	17.51	17.49	18.8	0		
20	QPSK	100	0	17.48	17.52	17.52				
20	16QAM	1	0	17.61	17.64	17.57				
20	16QAM	1	49	17.52	17.54	17.51	18.8	0		
20	16QAM	1	99	17.63	17.67	17.59				
20	16QAM	50	0	17.60	17.67	17.52				
20	16QAM	50	24	17.57	17.59	17.51				
20	16QAM	50	50	17.56	17.57	17.58	18.8	0		
20	16QAM	100	0	17.58	17.63	17.55				
20	64QAM	1	0	17.62	17.65	17.59				
20	64QAM	1	49	17.61	17.64	17.55	18.8	0		
20	64QAM	1	99	17.59	17.60	17.52				
20	64QAM	50	0	17.59	17.68	17.51				
20	64QAM	50	24	17.58	17.60	17.53	18.8	0		
20	64QAM	50	50	17.60	17.58	17.50				
20	256QAM	1	0	17.65	17.67	17.56				
20	256QAM	1	49	17.64	17.65	17.51	18.8	0		
20	256QAM	1	99	17.60	17.65	17.51				
20	256QAM	50	0	17.61	17.66	17.50				
20	256QAM	50	24	17.60	17.63	17.51	18.8	0		
20	256QAM	50	50	17.62	17.65	17.51				
20	256QAM	100	0	17.61	17.67	17.50				
Channel										
Frequency [MHz]										
16	QPSK	1	0	17.61	17.61	17.52				
16	QPSK	1	37	17.43	17.54	17.46	18.8	0		
16	QPSK	1	74	17.47	17.63	17.45				
16	QPSK	36	0	17.55	17.56	17.46				
16	QPSK	36	20	17.40	17.38	17.38	18.8	0		
16	QPSK	36	36	17.51	17.43	17.41				
16	16QAM	75	0	17.37	17.50	17.41				
16	16QAM	1	0	17.55	17.52	17.43				
16	16QAM	1	37	17.49	17.59	17.41	18.8	0		
16	16QAM	1	74	17.53	17.55	17.44				
16	16QAM	36	0	17.47	17.52	17.38				
16	16QAM	36	20	17.48	17.51	17.45	18.8	0		
16	16QAM	36	36	17.47	17.46	17.53				
16	16QAM	75	0	17.52	17.55	17.42				
16	64QAM	1	0	17.55	17.58	17.41				
16	64QAM	1	37	17.54	17.54	17.49	18.8	0		
16	64QAM	1	74	17.52	17.48	17.45				
16	64QAM	36	0	17.48	17.44	17.40				
16	64QAM	36	20	17.47	17.54	17.46	18.8	0		
16	64QAM	36	36	17.49	17.50	17.38				
16	64QAM	75	0	17.49	17.45	17.38				
16	256QAM	1	0	17.61	17.59	17.54				
16	256QAM	1	37	17.54	17.58	17.51	18.8	0		
16	256QAM	1	74	17.53	17.51	17.51				
16	256QAM	36	0	17.54	17.62	17.41				
16	256QAM	36	20	17.55	17.57	17.45	18.8	0		
16	256QAM	36	36	17.50	17.52	17.37				
16	256QAM	75	0	17.54	17.63	17.44				
Channel										
Frequency [MHz]										
16	QPSK	1	0	17.60	17.65	17.57				
16	QPSK	1	25	17.42	17.51	17.44	18.8	0		
16	QPSK	1	49	17.47	17.53	17.45				
16	QPSK	25	0	17.46	17.54	17.45				
16	QPSK	25	12	17.44	17.38	17.38	18.8	0		
16	QPSK	25	24	17.47	17.45	17.45				
16	16QAM	50	0	17.38	17.41	17.44				
16	16QAM	1	0	17.56	17.60	17.46				
16	16QAM	1	25	17.48	17.59	17.41	18.8	0		
16	16QAM	1	49	17.53	17.52	17.49				
16	16QAM	25	0	17.55	17.53	17.44				
16	16QAM	25	12	17.52	17.49	17.45	18.8	0		
16	16QAM	25	24	17.48	17.49	17.45				
16	16QAM	50	0	17.52	17.52	17.47				
16	16QAM	50	0	17.52	17.50	17.45				
16	64QAM	1	0	17.49	17.58	17.40				
16	64QAM	1	25	17.47	17.47	17.45	18.8	0		
16	64QAM	1	49	17.53	17.56	17.45				
16	64QAM	25	0	17.42	17.48	17.38				
16	64QAM	25	12	17.47	17.47	17.45	18.8	0		
16	64QAM	25	24	17.54	17.53	17.37				
16	64QAM	50	0	17.47	17.51	17.38				
16	256QAM	1	0	17.53	17.56	17.41				
16	256QAM	1	25	17.56	17.62	17.41	18.8	0		
16	256QAM	1	49	17.49	17.57	17.43				
16	256QAM	25	0	17.47	17.56	17.38				
16	256QAM	25	12	17.50	17.51	17.41	18.8	0		
16	256QAM	25	24	17.48	17.51	17.41				
16	256QAM	50	0	17.48	17.65	17.44				
Channel										
Frequency [MHz]										
5	QPSK	1	0	17.60	17.58	17.51				
5	QPSK	1	12	17.40	17.52	17.48	18.8	0		
5	QPSK	1	24	17.56	17.58	17.45				
5	QPSK	12	0	17.56	17.55	17.53				
5	QPSK	12	7	17.41	17.44	17.40	18.8	0		
5	QPSK	12	14	17.48	17.36	17.45				
5	QPSK	25	0	17.33	17.43	17.47				
5	16QAM	1	0	17.55	17.49	17.44				
5	16QAM	1	12	17.52	17.52	17.38	18.8	0		
5	16QAM	1	24	17.53	17.60	17.47				
5	16QAM	12	0	17.45	17.60	17.38				
5	16QAM	12	7	17.47	17.54	17.45	18.8	0		
5	16QAM	12	13	17.41	17.52	17.46				
5	16QAM	25	0	17.48	17.48	17.40				
5	64QAM	1	0	17.49	17.54	17.40				
5	64QAM	1	12	17.56	17.54	17.50	18.8	0		
5	64QAM	1	24	17.54	17.49	17.37				
5	64QAM	12	0	17.47	17.48	17.43				
5	64QAM	12	7	17.43	17.51	17.43	18.8	0		
5	64QAM	12	13	17.48	17.58	17.43				
5	64QAM	25	0	17.54	17.49	17.43				
5	256QAM	1	0	17.51	17.56	17.52				
5	256QAM	1	12	17.53	17.60	17.44	18.8	0		
5	256QAM	1	24	17.57	17.57	17.37				
5	256QAM	12	0	17.48	17.64	17.39				
5	256QAM	12	7	17.53	17.59	17.45	18.8	0		
5	256QAM	12	13	17.50	17.49	17.48				
5	256QAM	25	0	17.57	17.58	17.43				
Channel										
Frequency [MHz]										
3	QPSK	1	0	17.55	17.63	17.52				
3	QPSK	1	8	17.43	17.54	17.44	18.8	0		
3	QPSK	1	14	17.52	17.54	17.45				
3	QPSK	8	0	17.56	17.51	17.54				
3	QPSK	8	4	17.40	17.37	17.35	18.8	0		
3	QPSK	8	7	17.44	17.48	17.45				
3	QPSK	15	0	17.41	17.46	17.45				
3	16QAM	1	0	17.46	17.52	17.45				
3	16QAM	1	8	17.50	17.60	17.45	18.8	0		
3	16QAM	1	14	17.54	17.62	17.46				
3	16QAM	8	0	17.47	17.59	17.45				
3	16QAM	8	4	17.52	17.44	17.44	18.8	0		
3	16QAM	8	7	17.43	17.46	17.46				
3	16QAM	15	0	17.47	17.49	17.45				
3	64QAM	1	0	17.67	17.64	17.51				
3	64QAM	1	8	17.49	17.58	17.43	18.8	0		
3	64QAM	1	14	17.52	17.51	17.47				
3	64QAM	8	0	17.49	17.45	17.40				
3	64QAM	8	4	17.49	17.52	17.46	18.8	0		
3	64QAM	8	7	17.49	17.62	17.46				
3	64QAM	15	0	17.5						

Band 4_Ant 31													
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.33	20.35	20.35							
20	QPSK	1	49	20.42	20.48	20.48	21	0					
20	QPSK	1	99	20.33	20.42	20.42							
20	QPSK	50	0	20.37	20.39	20.35							
20	QPSK	50	24	20.39	20.35	20.35	21	0					
20	QPSK	50	50	20.37	20.35	20.35							
20	16QAM	1	0	20.44	20.42	20.35	21	0					
20	16QAM	1	49	20.42	20.43	20.44							
20	16QAM	1	99	20.45	20.49	20.45							
20	16QAM	50	0	20.38	20.40	20.45							
20	16QAM	50	24	20.43	20.43	20.40	21	0					
20	16QAM	50	50	20.40	20.43	20.35							
20	16QAM	100	0	20.42	20.48	20.44							
20	256QAM	1	0	20.26	20.38	20.35							
20	256QAM	1	49	20.24	20.26	20.17	21	0					
20	256QAM	1	99	20.13	20.22	20.14							
20	256QAM	50	0	20.11	20.15	20.03							
20	256QAM	50	24	20.05	20.11	20.08	21	0					
20	256QAM	50	50	19.99	20.10	20.02							
20	256QAM	100	0	20.02	20.13	20.00							
Channel													
Frequency (MHz)													
15	QPSK	1	0	20.44	20.47	20.42							
15	QPSK	1	37	20.37	20.33	20.25	21	0					
15	QPSK	1	74	20.32	20.33	20.25							
15	QPSK	36	0	20.25	20.40	20.30							
15	QPSK	36	20	20.17	20.25	20.12	21	0					
15	QPSK	36	36	20.25	20.38	20.25							
15	QPSK	75	0	20.22	20.31	20.18							
15	16QAM	1	0	20.36	20.30	20.21	21	0					
15	16QAM	1	37	20.32	20.34	20.18							
15	16QAM	1	74	20.38	20.42	20.28							
15	16QAM	36	0	20.33	20.35	20.27	21	0					
15	16QAM	36	20	20.32	20.39	20.30							
15	16QAM	36	36	20.30	20.37	20.35							
15	16QAM	75	0	20.29	20.29	20.24							
15	16QAM	1	0	20.35	20.28	20.28							
15	16QAM	1	37	20.34	20.34	20.32	21	0					
15	16QAM	1	74	20.33	20.42	20.36							
15	16QAM	36	0	20.28	20.32	20.32							
15	16QAM	36	20	20.30	20.34	20.34	21	0					
15	16QAM	36	36	20.35	20.28	20.28							
15	16QAM	75	0	20.37	20.38	20.30							
15	256QAM	1	0	20.22	20.28	20.07							
15	256QAM	1	37	20.13	20.17	20.07	21	0					
15	256QAM	1	74	20.02	20.16	20.08							
15	256QAM	36	0	20.03	20.08	19.91							
15	256QAM	36	20	20.05	20.07	19.91	21	0					
15	256QAM	36	36	19.97	20.00	19.87							
15	256QAM	75	0	19.99	20.08	19.87							
Channel													
Frequency (MHz)													
10	QPSK	1	0	20.43	20.47	20.39							
10	QPSK	1	25	20.37	20.33	20.25	21	0					
10	QPSK	1	49	20.33	20.38	20.35							
10	QPSK	25	0	20.24	20.40	20.28							
10	QPSK	25	12	20.16	20.22	20.17	21	0					
10	QPSK	25	24	20.23	20.24	20.18							
10	QPSK	50	0	20.18	20.28	20.11							
10	16QAM	1	0	20.35	20.33	20.28	21	0					
10	16QAM	1	25	20.32	20.33	20.30							
10	16QAM	1	49	20.33	20.39	20.32							
10	16QAM	25	0	20.29	20.43	20.33							
10	16QAM	25	12	20.24	20.37	20.24	21	0					
10	16QAM	25	24	20.22	20.37	20.33							
10	16QAM	50	0	20.32	20.31	20.22							
10	16QAM	1	0	20.28	20.28	20.27							
10	16QAM	1	25	20.33	20.29	20.28	21	0					
10	16QAM	1	49	20.35	20.37	20.35							
10	16QAM	25	0	20.27	20.28	20.26							
10	16QAM	25	12	20.26	20.34	20.27	21	0					
10	16QAM	25	24	20.28	20.34	20.28							
10	16QAM	50	0	20.27	20.33	20.31							
10	256QAM	1	0	20.11	20.15	20.10							
10	256QAM	1	25	20.22	20.26	20.17	21	0					
10	256QAM	1	49	20.11	20.15	19.98							
10	256QAM	25	0	20.04	20.05	19.98							
10	256QAM	25	12	20.07	20.07	19.91	21	0					
10	256QAM	25	24	19.99	20.02	19.88							
10	256QAM	50	0	19.97	20.04	19.86							
10	256QAM	50	12	19.99	20.08	19.87							
Channel													
Frequency (MHz)													
5	QPSK	1	0	20.43	20.43	20.38							
5	QPSK	1	12	20.39	20.41	20.35	21	0					
5	QPSK	1	24	20.35	20.38	20.32							
5	QPSK	12	0	20.25	20.40	20.29							
5	QPSK	12	7	20.15	20.20	20.19	21	0					
5	QPSK	12	14	20.20	20.26	20.18							
5	QPSK	25	0	20.17	20.35	20.18							
5	16QAM	1	0	20.29	20.31	20.31	21	0					
5	16QAM	1	12	20.30	20.38	20.30							
5	16QAM	1	24	20.31	20.38	20.27							
5	16QAM	12	0	20.26	20.41	20.33							
5	16QAM	12	7	20.25	20.38	20.19	21	0					
5	16QAM	12	14	20.28	20.41	20.29							
5	16QAM	25	0	20.33	20.36	20.20							
5	16QAM	1	0	20.31	20.31	20.25							
5	16QAM	1	12	20.35	20.31	20.25	21	0					
5	16QAM	1	24	20.34	20.37	20.31							
5	16QAM	12	0	20.24	20.30	20.30							
5	16QAM	12	7	20.31	20.29	20.33	21	0					
5	16QAM	12	14	20.26	20.37	20.26							
5	16QAM	25	0	20.29	20.37	20.28							
5	256QAM	1	0	20.25	20.24	20.07							
5	256QAM	1	12	20.21	20.11	20.01	21	0					
5	256QAM	1	24	20.08	20.17	20.13							
5	256QAM	12	0	20.03	20.05	20.02							
5	256QAM	12	7	19.97	20.02	19.88	21	0					
5	256QAM	12	14	19.97	20.10	19.88							
5	256QAM	25	0	19.98	20.09	19.89							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	20.45	20.48	20.44							
1.4	QPSK	1	3	20.41	20.43	20.41	21	0					
1.4	QPSK	1	6	20.34	20.36	20.34							
1.4	QPSK	3	0	20.27	20.38	20.29							
1.4	QPSK	3	3	20.20	20.32	20.25	21	0					
1.4	QPSK	6	0	20.13	20.34	20.26							
1.4	QPSK	6	3	20.06	20.27	20.20							
1.4	16QAM	1	0	20.29	20.34	20.31	21	0					
1.4	16QAM	1	3	20.29	20.34	20.31							
1.4	16QAM	1	6	20.36	20.39	20.34							
1.4	16QAM	3	0	20.30	20.36	20.33	21	0					
1.4	16QAM	3	3	20.34	20.35	20.29							
1.4	16QAM	6	0	20.26	20.32	20.24							
1.4	16QAM	6	3	20.28	20.27	20.33	21	0					
1.4	16QAM	1	0	20.38	20.39	20.31							
1.4	16QAM	3	0	20.31	20.30	20.30	21	0					
1.4	16QAM	3	3	20.33	20.32	20.33							
1.4	16QAM	6	0	20.31	20.32	20.34	21	0					
1.4	16QAM	6	3	20.28	20.28	20.32							
1.4	16QAM	1	0	20.09	20.25	20.17							
1.4	256QAM	1	0	20.05	20.16	20.08	21	0					
1.4	256QAM	1	3	20.04	20.14	20.04							
1.4	256QAM	3	0	20.05	20.03	19.99							
1.4	256QAM	3	3	19.99	20.04	19.93	21	0					
1.4	256QAM	6	0	20.07	20.07	19.95							

Band 5_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Loc Ch / Freq	Power Mide Ch / Freq	Power Hgh Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Channel				24640	24620	24600				
Frequency (MHz)				846.5	846.5	846.5				
10	QPSK	1	0	24.30	24.38	24.30				
10	QPSK	1	25	24.32	24.34	24.27	25	0		
10	QPSK	1	49	24.35	24.23	24.23				
10	QPSK	25	0	23.30	23.38	23.30				
10	QPSK	25	12	23.33	23.22	23.32	24	1		
10	QPSK	25	25	23.31	23.22	23.30				
10	QPSK	50	0	23.33	23.32	23.31				
10	16QAM	1	0	23.63	23.70	23.68	24	1		
10	16QAM	25	0	23.65	23.66	23.62				
10	16QAM	1	49	23.61	23.61	23.60				
10	16QAM	25	0	22.42	22.45	22.34				
10	16QAM	25	12	22.35	22.28	22.35				
10	16QAM	25	25	22.30	22.35	22.30	23	2		
10	16QAM	50	0	22.36	22.43	22.36				
10	64QAM	1	0	22.71	22.86	22.70				
10	64QAM	1	25	22.84	22.75	22.68	23	2		
10	64QAM	1	49	22.72	22.78	22.71				
10	64QAM	25	0	21.76	21.83	21.75				
10	64QAM	25	12	21.83	21.75	21.73	22	3		
10	64QAM	25	25	21.74	21.80	21.73				
10	64QAM	50	0	21.70	21.80	21.71				
10	256QAM	1	0	20.32	20.37	20.29				
10	256QAM	1	25	20.15	20.30	20.25	20.5	4.5		
10	256QAM	1	49	20.30	20.33	20.25				
10	256QAM	25	0	20.31	20.35	20.28				
10	256QAM	25	12	20.33	20.38	20.21	20.5	4.5		
10	256QAM	25	25	20.30	20.31	20.30				
10	256QAM	50	0	20.28	20.30	20.19				
Channel										
Channel				24615	24615	24615	Turn-up Int. (dB)	MPE (dB)		
Frequency (MHz)				846.5	846.5	846.5				
5	QPSK	1	0	24.24	24.31	24.29				
5	QPSK	1	12	24.18	24.30	24.14	25	0		
5	QPSK	1	24	24.11	24.21	24.17				
5	QPSK	12	0	23.31	23.27	23.24				
5	QPSK	12	7	23.32	23.17	23.28	24	1		
5	QPSK	12	13	23.21	23.11	23.18				
5	16QAM	1	0	23.58	23.57	23.54	24	1		
5	16QAM	1	12	23.45	23.44	23.43				
5	16QAM	1	24	23.36	23.35	23.30				
5	16QAM	12	0	22.34	22.35	22.25				
5	16QAM	12	7	22.16	22.18	22.09				
5	16QAM	12	13	22.15	22.33	22.27	23	2		
5	16QAM	25	0	22.28	22.38	22.26				
5	64QAM	1	0	22.69	22.75	22.69				
5	64QAM	1	12	22.80	22.61	22.68	23	2		
5	64QAM	1	24	22.57	22.74	22.65				
5	64QAM	12	0	21.74	21.78	21.67				
5	64QAM	12	7	21.49	21.63	21.71	22	3		
5	64QAM	12	13	21.62	21.67	21.60				
5	64QAM	25	0	21.68	21.78	21.70				
5	256QAM	1	0	20.24	20.23	20.17				
5	256QAM	1	12	20.02	20.22	20.24	20.5	4.5		
5	256QAM	1	24	20.27	20.28	20.24				
5	256QAM	12	0	20.28	20.23	20.23				
5	256QAM	12	7	20.13	20.21	20.21	20.5	4.5		
5	256QAM	12	13	20.29	20.23	20.24				
5	256QAM	25	0	20.22	20.20	20.08				
Channel										
Channel				24615	24615	24615	Turn-up Int. (dB)	MPE (dB)		
Frequency (MHz)				846.5	846.5	847.5				
3	QPSK	1	0	24.30	24.32	24.30				
3	QPSK	1	8	24.17	24.22	24.21	25	0		
3	QPSK	1	14	24.10	24.18	24.10				
3	QPSK	8	0	23.28	23.30	23.30				
3	QPSK	8	4	23.20	23.18	23.30	24	1		
3	QPSK	8	7	23.15	23.08	23.20				
3	16QAM	1	0	23.58	23.68	23.55	24	1		
3	16QAM	1	8	23.45	23.54	23.37				
3	16QAM	1	14	23.44	23.52	23.41				
3	16QAM	8	0	22.32	22.39	22.27				
3	16QAM	8	4	22.23	22.28	22.24				
3	16QAM	8	7	22.29	22.29	22.22	23	2		
3	16QAM	15	0	22.52	22.30	22.31				
3	64QAM	1	0	22.84	22.78	22.80				
3	64QAM	1	8	22.52	22.63	22.55	23	2		
3	64QAM	1	14	22.58	22.76	22.64				
3	64QAM	8	0	21.81	21.74	21.85				
3	64QAM	8	4	21.49	21.65	21.72	22	3		
3	64QAM	15	0	21.63	21.72	21.70				
3	256QAM	1	0	20.24	20.31	20.19				
3	256QAM	1	8	20.03	20.24	20.10	20.5	4.5		
3	256QAM	1	14	20.19	20.24	20.15				
3	256QAM	8	0	20.30	20.36	20.21				
3	256QAM	8	4	20.16	20.18	20.14	20.5	4.5		
3	256QAM	8	7	20.32	20.19	20.25				
3	256QAM	15	0	20.13	20.16	20.11				
Channel										
Channel				24607	24605	24605	Turn-up Int. (dB)	MPE (dB)		
Frequency (MHz)				846.7	846.5	846.3				
1.4	QPSK	1	0	24.24	24.28	24.25				
1.4	QPSK	1	3	24.29	24.32	24.24	25	0		
1.4	QPSK	1	5	24.13	24.11	24.21				
1.4	QPSK	3	0	24.31	24.24	24.33				
1.4	QPSK	3	1	24.22	24.32	24.16				
1.4	QPSK	3	3	24.17	24.10	24.27				
1.4	QPSK	6	0	23.31	23.29	23.30	24	1		
1.4	16QAM	1	0	23.28	23.09	23.25				
1.4	16QAM	1	3	23.16	23.17	23.15				
1.4	16QAM	3	0	23.31	23.25	23.17	24	1		
1.4	16QAM	3	0	23.58	23.64	23.55				
1.4	16QAM	3	1	23.52	23.65	23.41				
1.4	16QAM	3	3	23.36	23.60	23.44	23	2		
1.4	16QAM	6	0	22.16	22.38	22.21				
1.4	64QAM	1	0	22.16	22.20	22.13				
1.4	64QAM	1	3	22.19	22.21	22.22	23	2		
1.4	64QAM	1	5	22.29	22.41	22.22				
1.4	64QAM	3	0	22.32	22.44	22.19				
1.4	64QAM	3	1	22.18	22.14	22.04				
1.4	64QAM	3	3	22.22	22.25	22.19	22	3		
1.4	64QAM	6	0	21.68	21.74	21.67				
1.4	256QAM	1	0	20.27	20.34	20.20				
1.4	256QAM	1	3	20.00	20.16	20.11	20.5	4.5		
1.4	256QAM	1	5	20.16	20.18	20.14				
1.4	256QAM	3	0	20.19	20.20	20.20				
1.4	256QAM	3	3	20.23	20.20	20.17				
1.4	256QAM	6	0	20.18	20.17	20.11	20.5	4.5		

Band 7_Ant 13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Power Loc Ch / Freq	Power Power Mide Ch / Freq	Power Power Hgh Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency [MHz]										
				20600	21100	21100				
20	QPSK	1	0	16.07	16.71	16.65				
20	QPSK	1	49	16.55	16.62	16.58	17.5	0		
20	QPSK	1	99	16.57	16.55	16.50				
20	QPSK	50	0	16.60	16.63	16.55				
20	QPSK	50	24	16.46	16.57	16.40	17.5	0		
20	QPSK	50	50	16.52	16.57	16.45				
20	QPSK	100	0	16.48	16.54	16.49				
20	16QAM	1	0	16.59	16.63	16.56	17.5	0		
20	16QAM	1	49	16.57	16.64	16.57				
20	16QAM	1	99	16.53	16.59	16.64				
20	16QAM	50	0	16.57	16.58	16.56	17.5	0		
20	16QAM	50	24	16.58	16.58	16.52				
20	16QAM	50	50	16.58	16.58	16.52				
20	16QAM	100	0	16.58	16.64	16.62				
20	16QAM	100	24	16.58	16.62	16.52	17.5	0		
20	16QAM	100	50	16.58	16.62	16.52				
20	16QAM	200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	200	24	16.58	16.62	16.52				
20	16QAM	200	50	16.58	16.62	16.52				
20	16QAM	400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	400	24	16.58	16.62	16.52				
20	16QAM	400	50	16.58	16.62	16.52				
20	16QAM	800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	800	24	16.58	16.62	16.52				
20	16QAM	800	50	16.58	16.62	16.52				
20	16QAM	1600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	1600	24	16.58	16.62	16.52				
20	16QAM	1600	50	16.58	16.62	16.52				
20	16QAM	3200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	3200	24	16.58	16.62	16.52				
20	16QAM	3200	50	16.58	16.62	16.52				
20	16QAM	6400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	6400	24	16.58	16.62	16.52				
20	16QAM	6400	50	16.58	16.62	16.52				
20	16QAM	12800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	12800	24	16.58	16.62	16.52				
20	16QAM	12800	50	16.58	16.62	16.52				
20	16QAM	25600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	25600	24	16.58	16.62	16.52				
20	16QAM	25600	50	16.58	16.62	16.52				
20	16QAM	51200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	51200	24	16.58	16.62	16.52				
20	16QAM	51200	50	16.58	16.62	16.52				
20	16QAM	102400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	102400	24	16.58	16.62	16.52				
20	16QAM	102400	50	16.58	16.62	16.52				
20	16QAM	204800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	204800	24	16.58	16.62	16.52				
20	16QAM	204800	50	16.58	16.62	16.52				
20	16QAM	409600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	409600	24	16.58	16.62	16.52				
20	16QAM	409600	50	16.58	16.62	16.52				
20	16QAM	819200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	819200	24	16.58	16.62	16.52				
20	16QAM	819200	50	16.58	16.62	16.52				
20	16QAM	1638400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	1638400	24	16.58	16.62	16.52				
20	16QAM	1638400	50	16.58	16.62	16.52				
20	16QAM	3276800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	3276800	24	16.58	16.62	16.52				
20	16QAM	3276800	50	16.58	16.62	16.52				
20	16QAM	6553600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	6553600	24	16.58	16.62	16.52				
20	16QAM	6553600	50	16.58	16.62	16.52				
20	16QAM	13107200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	13107200	24	16.58	16.62	16.52				
20	16QAM	13107200	50	16.58	16.62	16.52				
20	16QAM	26214400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	26214400	24	16.58	16.62	16.52				
20	16QAM	26214400	50	16.58	16.62	16.52				
20	16QAM	52428800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	52428800	24	16.58	16.62	16.52				
20	16QAM	52428800	50	16.58	16.62	16.52				
20	16QAM	104857600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	104857600	24	16.58	16.62	16.52				
20	16QAM	104857600	50	16.58	16.62	16.52				
20	16QAM	209715200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	209715200	24	16.58	16.62	16.52				
20	16QAM	209715200	50	16.58	16.62	16.52				
20	16QAM	419430400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	419430400	24	16.58	16.62	16.52				
20	16QAM	419430400	50	16.58	16.62	16.52				
20	16QAM	838860800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	838860800	24	16.58	16.62	16.52				
20	16QAM	838860800	50	16.58	16.62	16.52				
20	16QAM	1677721600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	1677721600	24	16.58	16.62	16.52				
20	16QAM	1677721600	50	16.58	16.62	16.52				
20	16QAM	3355443200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	3355443200	24	16.58	16.62	16.52				
20	16QAM	3355443200	50	16.58	16.62	16.52				
20	16QAM	6710886400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	6710886400	24	16.58	16.62	16.52				
20	16QAM	6710886400	50	16.58	16.62	16.52				
20	16QAM	13421772800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	13421772800	24	16.58	16.62	16.52				
20	16QAM	13421772800	50	16.58	16.62	16.52				
20	16QAM	26843545600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	26843545600	24	16.58	16.62	16.52				
20	16QAM	26843545600	50	16.58	16.62	16.52				
20	16QAM	53687091200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	53687091200	24	16.58	16.62	16.52				
20	16QAM	53687091200	50	16.58	16.62	16.52				
20	16QAM	107374182400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	107374182400	24	16.58	16.62	16.52				
20	16QAM	107374182400	50	16.58	16.62	16.52				
20	16QAM	214748364800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	214748364800	24	16.58	16.62	16.52				
20	16QAM	214748364800	50	16.58	16.62	16.52				
20	16QAM	429496729600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	429496729600	24	16.58	16.62	16.52				
20	16QAM	429496729600	50	16.58	16.62	16.52				
20	16QAM	858993459200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	858993459200	24	16.58	16.62	16.52				
20	16QAM	858993459200	50	16.58	16.62	16.52				
20	16QAM	1717986918400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	1717986918400	24	16.58	16.62	16.52				
20	16QAM	1717986918400	50	16.58	16.62	16.52				
20	16QAM	3435973836800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	3435973836800	24	16.58	16.62	16.52				
20	16QAM	3435973836800	50	16.58	16.62	16.52				
20	16QAM	6871947673600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	6871947673600	24	16.58	16.62	16.52				
20	16QAM	6871947673600	50	16.58	16.62	16.52				
20	16QAM	13743895347200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	13743895347200	24	16.58	16.62	16.52				
20	16QAM	13743895347200	50	16.58	16.62	16.52				
20	16QAM	27487790694400	0	16.58	16.62	16.52	17.5	0		
20	16QAM	27487790694400	24	16.58	16.62	16.52				
20	16QAM	27487790694400	50	16.58	16.62	16.52				
20	16QAM	54975581388800	0	16.58	16.62	16.52	17.5	0		
20	16QAM	54975581388800	24	16.58	16.62	16.52				
20	16QAM	54975581388800	50	16.58	16.62	16.52				
20	16QAM	109951162777600	0	16.58	16.62	16.52	17.5	0		
20	16QAM	109951162777600	24	16.58	16.62	16.52				
20	16QAM	109951162777600	50	16.58	16.62	16.52				
20	16QAM	219902325555200	0	16.58	16.62	16.52	17.5	0		
20	16QAM	219902325555200	24	16.58	16.62	16.52				
20	16QAM	219902325555								

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Invl (sec)	MPR (dB)		
Channel										
Frequency (MHz)				20800	21000	21200				
				20.80	21.00	21.20				
20	QPSK	1	0	17.04	17.08	17.03	18	0		
20	QPSK	1	49	16.89	16.98	16.93	18	0		
20	QPSK	1	99	16.74	16.83	16.78	18	0		
20	QPSK	50	0	16.64	16.59	16.57	18	0		
20	QPSK	50	24	16.60	16.56	16.58	18	0		
20	QPSK	50	50	16.52	16.50	16.52	18	0		
20	QPSK	500	0	16.84	16.90	16.83	18	0		
20	16QAM	1	0	16.50	16.56	16.53	18	0		
20	16QAM	1	49	16.55	16.52	16.50	18	0		
20	16QAM	1	99	16.58	16.57	16.56	18	0		
20	16QAM	50	0	16.56	17.00	16.94	18	0		
20	16QAM	50	24	16.50	16.52	16.57	18	0		
20	16QAM	50	50	16.54	17.00	16.91	18	0		
20	16QAM	500	0	16.84	16.97	16.97	18	0		
20	64QAM	1	0	16.50	16.56	16.58	18	0		
20	64QAM	1	49	16.57	16.97	16.89	18	0		
20	64QAM	1	99	16.59	17.01	16.93	18	0		
20	64QAM	50	0	16.56	16.98	16.95	18	0		
20	64QAM	50	24	16.58	16.98	16.93	18	0		
20	64QAM	50	50	16.54	16.94	16.92	18	0		
20	64QAM	500	0	16.93	16.96	16.90	18	0		
20	256QAM	1	0	16.50	17.01	16.89	18	0		
20	256QAM	1	49	16.55	16.96	16.86	18	0		
20	256QAM	1	99	16.58	16.98	16.91	18	0		
20	256QAM	50	0	16.51	17.03	16.90	18	0		
20	256QAM	50	24	16.58	17.03	16.92	18	0		
20	256QAM	50	50	16.51	16.93	16.98	18	0		
20	256QAM	500	0	16.93	16.95	16.91	18	0		
Channel										
Frequency (MHz)				20975	21100	21175	Turn-up Invl (sec)	MPR (dB)		
				209.75	211.00	211.75				
16	QPSK	1	0	16.07	16.98	16.96	18	0		
16	QPSK	1	37	16.79	16.91	16.80	18	0		
16	QPSK	1	74	16.97	16.84	16.81	18	0		
16	QPSK	36	0	16.60	16.92	16.82	18	0		
16	QPSK	36	20	16.65	16.77	16.82	18	0		
16	QPSK	36	39	16.76	16.83	16.73	18	0		
16	QPSK	75	0	16.72	16.75	16.70	18	0		
16	16QAM	1	0	16.85	16.88	16.84	18	0		
16	16QAM	1	37	16.86	16.83	16.80	18	0		
16	16QAM	1	74	16.88	16.83	16.86	18	0		
16	16QAM	36	0	16.61	16.89	16.87	18	0		
16	16QAM	36	20	16.63	16.80	16.83	18	0		
16	16QAM	36	39	16.87	16.89	16.79	18	0		
16	16QAM	75	0	16.81	16.83	16.83	18	0		
16	64QAM	1	0	16.80	16.90	16.91	18	0		
16	64QAM	1	37	16.84	16.85	16.74	18	0		
16	64QAM	1	74	16.87	16.84	16.84	18	0		
16	64QAM	36	0	16.89	16.84	16.80	18	0		
16	64QAM	36	20	16.87	16.86	16.79	18	0		
16	64QAM	36	39	16.87	16.84	16.77	18	0		
16	64QAM	75	0	16.86	16.83	16.78	18	0		
16	256QAM	1	0	16.80	16.86	16.86	18	0		
16	256QAM	1	37	16.84	16.92	16.86	18	0		
16	256QAM	1	74	16.86	17.00	16.80	18	0		
16	256QAM	36	0	16.91	16.92	16.78	18	0		
16	256QAM	36	20	16.89	16.87	16.80	18	0		
16	256QAM	36	39	16.95	16.84	16.80	18	0		
16	256QAM	75	0	16.85	16.86	16.80	18	0		
Channel										
Frequency (MHz)				20980	21100	21180	Turn-up Invl (sec)	MPR (dB)		
				209.80	211.00	211.80				
16	QPSK	1	0	16.05	17.01	16.96	18	0		
16	QPSK	1	25	16.79	16.91	16.86	18	0		
16	QPSK	1	49	16.83	16.87	16.84	18	0		
16	QPSK	25	0	16.66	16.90	16.86	18	0		
16	QPSK	25	12	16.66	16.75	16.74	18	0		
16	QPSK	25	25	16.66	16.76	16.73	18	0		
16	QPSK	50	0	16.78	16.77	16.76	18	0		
16	16QAM	1	0	16.78	16.99	16.83	18	0		
16	16QAM	1	25	16.87	16.87	16.84	18	0		
16	16QAM	1	49	16.84	16.91	16.85	18	0		
16	16QAM	25	0	16.86	16.88	16.88	18	0		
16	16QAM	25	12	16.77	16.88	16.88	18	0		
16	16QAM	25	25	16.85	16.88	16.79	18	0		
16	16QAM	50	0	16.87	16.82	16.88	18	0		
16	64QAM	1	0	16.82	16.88	16.87	18	0		
16	64QAM	1	25	16.90	16.91	16.84	18	0		
16	64QAM	1	49	16.89	16.90	16.79	18	0		
16	64QAM	1	0	16.88	16.84	16.87	18	0		
16	64QAM	25	12	16.91	16.87	16.82	18	0		
16	64QAM	25	25	16.88	16.82	16.83	18	0		
16	64QAM	50	0	16.78	16.84	16.85	18	0		
16	256QAM	1	0	16.89	16.92	16.84	18	0		
16	256QAM	1	25	16.91	16.99	16.89	18	0		
16	256QAM	1	49	16.93	16.93	16.80	18	0		
16	256QAM	25	0	16.79	16.88	16.80	18	0		
16	256QAM	25	12	16.92	16.87	16.89	18	0		
16	256QAM	25	25	16.92	16.89	16.80	18	0		
16	256QAM	50	0	16.88	16.90	16.77	18	0		

Band 12_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Invl (sec)	MPR (dB)		
Channel										
Frequency (MHz)				23800	23900	24000				
				704	707.4	711				
16	QPSK	1	0	23.08	23.95	23.88	25	0		
16	QPSK	1	25	23.87	23.95	23.93	25	0		
16	QPSK	1	49	23.95	23.91	23.84	25	0		
16	QPSK	25	0	22.95	22.98	22.95	24	1		
16	QPSK	25	12	22.95	22.85	22.82	24	1		
16	QPSK	25	25	22.95	22.96	22.85	24	1		
16	16QAM	1	0	23.00	23.15	23.07	24	1		
16	16QAM	1	25	22.97	23.11	23.03	24	1		
16	16QAM	1	49	23.00	23.08	22.93	23	2		
16	16QAM	25	0	21.79	21.83	21.70	23	2		
16	16QAM	25	12	21.75	21.81	21.74	23	2		
16	16QAM	25	25	21.73	21.78	21.74	23	2		
16	16QAM	50	0	21.79	21.80	21.75	23	2		
16	64QAM	1	0	22.91	22.80	22.93	23	2		
16	64QAM	1	25	22.28	22.53	22.44	23	2		
16	64QAM	1	49	22.53	22.56	22.48	23	2		
16	64QAM	25	0	21.92	21.36	21.91	22	3		
16	64QAM	25	12	21.26	21.30	21.19	22	3		
16	64QAM	25	25	21.32	21.33	21.22	22	3		
16	64QAM	50	0	21.94	21.30	21.27	22	3		
16	256QAM	1	0	19.97	19.98	19.87	20.5	4.5		
16	256QAM	1	25	19.98	19.92	19.85	20.5	4.5		
16	256QAM	1	49	19.98	19.93	19.86	20.5	4.5		
16	256QAM	25	0	19.58	19.73	19.69	20.5	4.5		
16	256QAM	25	25	19.68	19.75	19.68	20.5	4.5		
16	256QAM	50	0	19.68	19.75	19.67	20.5	4.5		
Channel										
Frequency (MHz)				701.6	707.4	711.5	Turn-up Invl (sec)	MPR (dB)		
3	QPSK	1	0	23.08	23.95	23.88	25	0		
3	QPSK	1	25	23.87	23.93	23.91	25	0		
3	QPSK	1	49	23.92	23.88	23.81	25	0		
3	QPSK	12	7	22.83	22.70	22.61	24	1		
3	QPSK	12	13	22.81	22.88	22.81	24	1		
3	QPSK	12	19	22.81	22.88	22.81	24	1		
3	16QAM	1	0	22.89	23.00	23.04	24	1		
3	16QAM	1	12	22.85	23.08	22.99	24	1		
3	16QAM	1	25	22.88	23.08	22.98	24	1		
3	16QAM	12	0	21.72	21.65	21.64	23	2		
3	16QAM	12	7	21.65	21.67	21.73	23	2		
3	16QAM	12	13	21.70	21.73	21.62	23	2		
3	16QAM	12	19	21.70	21.73	21.62	23	2		
3	16QAM	25	0	20.49	20.59	20.51	23	2		
3	16QAM	25	12	20.44	20.47	20.47	23	2		
3	16QAM	25	19	20.44	20.45	20.46	23	2		
3	16QAM	25	25	20.44	20.47	20.45	23	2		
3	256QAM	1	0	19.58	19.61	19.61	20.5	4.5		
3	256QAM	1	12	19.62	19.81	19.78	20.5	4.5		
3	256QAM	1	25	19.62	19.86	19.83	20.5	4.5		
3	256QAM	12	7	19.50	19.64	19.64	20.5	4.5		
3	256QAM	12	13	19.62	19.68	19.63	20.5	4.5		
3	256QAM	12	19	19.62	19.70	19.64	20.5	4.5		
Channel										
Frequency (MHz)				700.5	707.0	714.5	Turn-up Invl (sec)	MPR (dB)		
3	QPSK	1	0	23.08	23.95	23.88	25	0		
3	QPSK	1	25	23.78	23.87	23.84	25	0		
3	QPSK	1	49	23.94	23.78	23.69	25	0		
3	QPSK	8	4	22.81	22.70	22.72	24	1		
3	QPSK	8	7	22.72	22.85	22.81	24	1		
3	QPSK	8	13	22.72	22.85	22.81	24	1		
3	16QAM	1	0	22.96	23.10	23.09	24	1		
3	16QAM	1	8	22.82	23.10	22.83	24	1		
3	16QAM	1	14	22.82	23.08	22.96	24	1		
3	16QAM	8	0	21.66	21.68	21.58	23	2		
3	16QAM	8	4	21.68	21.70	21.60	23	2		
3	16QAM	8	7	21.68	21.70	21.60	23	2		
3	16QAM	15	0	21.60	21.77	21.60	23	2		
3	32QAM	1	0	20.45	20.47	20.49	23	2		
3	32QAM	1	24	20.48	20.47	20.48	23	2		
3	32QAM	1	14	20.48	20.42	20.41	23	2		
3	32QAM	8	0	21.25	21.22	21.21	22	3		
3	32QAM	8	7	21.25	21.25	21.25	22	3		
3	32QAM	8	14	21.25	21.24	21.24	22	3		
3	32QAM	15	0	21.10	21.18	21.20	22	3		
3	32QAM	15	7	21.10	21.18	21.16	22	3		
3	256QAM	1	0	19.77	19.83	19.86	20.5	4.5		
3	256QAM	1	14	19.85	19.86	19.81	20.5	4.5		
3	256QAM	1	28	19.85	19.79	19.86	20.5	4.5		
3	256QAM	8	4	19.54	19.64	19.67	20.5	4.5		
3	256QAM	8	7	19.58	19.74	19.68	20.5	4.5		
3	256QAM	8	14	19.58	19.74	19.68	20.5	4.5		
Channel										
Frequency (MHz)				699.7	700.5	701.3	Turn-up Invl (sec)	MPR (dB)		
1.4	QPSK	1	0	23.08	23.95	23.88	25	0		
1.4	QPSK	1	25	23.74	23.88	23.84	25	0		
1.4	QPSK	1	49	23.84	23.84	23.82	25	0		
1.4	QPSK	3	0	22.87	22.96	22.96	24	1		
1.4	QPSK	3	25	22.87	22.81	22.84	24	1		
1.4	QPSK	3	50	22.81	22.90	22.82	24	1		
1.4	QPSK	3	75	22.81	22.90	22.82	24	1		
1.4	16QAM	1	0	22.96	23.10	23.09	24	1		
1.4	16QAM	1	25	22.78	22.71	22.78	24	1		
1.4	16QAM	1	50	22.81	22.86	22.71	24	1		
1.4	16QAM	3	0	22.95	23.04	22.95	24	1		
1.4	16QAM	3	1	22.93	23.04	22.96	24	1		
1.4	16QAM	3	25	22.93	22.96	22.96	24	1		
1.4	16QAM	3	50	22.93	22.97	22.96	24	1		
1.4	16QAM	3	75	22.93	22.97	22.96	24	1		
1.4	64QAM	1	0	21.63	21.75	21.62	23	2		
1.4	64QAM	1	25	21.66	21.68	21.62	23	2		
1.4	64QAM	1	50	21.67	21.62	21.62	23	2		
1.4	64QAM	3	0	21.63	21.72	21.69	23	2		
1.4	64QAM	3	25	21.63	21.72	21.69	23	2		
1.4	64QAM	3	50	21.63	21.68	21.67	23	2		
1.4	64QAM	3	75	21.63	21.68	21.67	23	2		
1.4	256QAM	1	0	20.11	20.16	20.17	22	3		
1.4	256QAM	1	25	19.83	19.83	19.83	22	3		
1.4	256QAM	1	50	19.73	19.86	19.85	22	3		
1.4	256QAM	3	0	19.78	19.76	19.73	20.5	4.5		
1.4	256QAM	3	25	19.75	19.75	19.75	20.5	4.5		
1.4	256QAM	3	50	19.75	19.72	19.75	20.5	4.5		
1.4	256QAM	3	75	19.62	19.72	19.65	20.5	4.5		

Band 13_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPR (dB)	
Channel 23975									
Frequency (MHz)									
10	QPSK	1	0	23.70			25	0	
10	QPSK	1	25	23.85					
10	QPSK	1	49	23.85					
10	QPSK	25	0	22.83			24	1	
10	QPSK	25	12	22.75					
10	QPSK	25	25	22.78					
10	QPSK	50	0	22.80			24	1	
10	16QAM	1	0	23.00					
10	16QAM	1	25	22.88					
10	16QAM	1	49	22.95			23	2	
10	16QAM	25	0	21.86					
10	16QAM	25	12	21.78					
10	16QAM	25	25	21.83			23	2	
10	16QAM	50	0	21.78					
10	64QAM	1	0	22.80					
10	64QAM	1	25	22.43			22	3	
10	64QAM	1	49	22.45					
10	64QAM	25	0	21.31					
10	64QAM	25	12	21.28			20.5	4.5	
10	64QAM	25	25	21.26					
10	64QAM	50	0	21.28					
10	256QAM	1	0	19.96			20.5	4.5	
10	256QAM	1	25	19.91					
10	256QAM	1	49	19.90					
10	256QAM	25	0	19.78			20.5	4.5	
10	256QAM	25	12	19.73					
10	256QAM	25	25	19.70					
10	256QAM	50	0	19.75					
Channel 23975									
Frequency (MHz)									
5	QPSK	1	0	23.09	23.69	23.84	25	0	
5	QPSK	1	12	23.50	23.56	23.54			
5	QPSK	1	24	23.63	23.62	23.64			
5	QPSK	12	0	22.76	22.72	22.79	24	1	
5	QPSK	12	7	22.71	22.67	22.71			
5	QPSK	12	13	22.68	22.70	22.68			
5	QPSK	25	0	22.65	22.71	22.78	24	1	
5	16QAM	1	0	22.90	22.94	22.96			
5	16QAM	1	12	22.94	22.89	22.86			
5	16QAM	1	24	22.91	22.89	22.86	23	2	
5	16QAM	12	0	21.83	21.73	21.77			
5	16QAM	12	7	21.75	21.77	21.84			
5	16QAM	12	13	21.71	21.69	21.70	23	2	
5	16QAM	25	0	21.68	21.69	21.75			
5	64QAM	1	0	22.46	22.35	22.39			
5	64QAM	1	12	22.28	22.31	22.29	22	3	
5	64QAM	1	24	22.29	22.43	22.36			
5	64QAM	12	0	21.28	21.26	21.20			
5	64QAM	12	7	21.20	21.27	21.24	20.5	4.5	
5	64QAM	12	13	21.14	21.18	21.15			
5	64QAM	25	0	21.14	21.23	21.17			
5	256QAM	1	0	19.91	19.83	19.90	20.5	4.5	
5	256QAM	1	12	19.79	19.89	19.89			
5	256QAM	1	24	19.77	19.82	19.87			
5	256QAM	12	0	19.63	19.70	19.66	20.5	4.5	
5	256QAM	12	7	19.70	19.72	19.69			
5	256QAM	12	13	19.55	19.66	19.61			
5	256QAM	25	0	19.66	19.71	19.72			

Band 13_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPR (dB)	
Channel 23920									
Frequency (MHz)									
10	QPSK	1	0	24.10			25	0	
10	QPSK	1	25	24.08					
10	QPSK	1	49	24.05					
10	QPSK	25	0	23.15			24	1	
10	QPSK	25	12	23.10					
10	QPSK	25	25	23.12					
10	QPSK	50	0	23.13			24	1	
10	16QAM	1	0	23.50					
10	16QAM	1	25	23.40					
10	16QAM	1	49	23.45			23	2	
10	16QAM	25	0	22.19					
10	16QAM	25	12	22.11					
10	16QAM	25	25	22.13			23	2	
10	16QAM	50	0	22.15					
10	64QAM	1	0	22.85					
10	64QAM	1	25	22.80			22	3	
10	64QAM	1	49	22.78					
10	64QAM	25	0	21.68					
10	64QAM	25	12	21.58			20.5	4.5	
10	64QAM	25	25	21.61					
10	64QAM	50	0	21.61					
10	256QAM	1	0	20.37			20.5	4.5	
10	256QAM	1	25	20.33					
10	256QAM	1	49	20.30					
10	256QAM	25	0	20.25			20.5	4.5	
10	256QAM	25	12	20.20					
10	256QAM	25	25	20.21					
10	256QAM	50	0	20.23					
Channel 23920									
Frequency (MHz)									
5	QPSK	1	0	23.09	24.05	23.97	25	0	
5	QPSK	1	12	23.57	23.99	24.04			
5	QPSK	1	24	24.00	23.92	23.93			
5	QPSK	12	0	23.05	23.08	23.01	24	1	
5	QPSK	12	7	22.95	23.04	22.98			
5	QPSK	12	13	23.00	22.98	23.06			
5	QPSK	25	0	22.99	23.03	23.10	24	1	
5	16QAM	1	0	23.48	23.35	23.39			
5	16QAM	1	12	23.34	23.32	23.37			
5	16QAM	1	24	23.41	23.33	23.39	23	2	
5	16QAM	12	0	22.07	22.18	22.12			
5	16QAM	12	7	22.00	22.00	22.09			
5	16QAM	12	13	22.10	22.07	22.07	23	2	
5	16QAM	25	0	22.12	22.05	22.11			
5	64QAM	1	0	22.79	22.84	22.73			
5	64QAM	1	12	22.78	22.72	22.68	22	3	
5	64QAM	1	24	22.65	22.70	22.75			
5	64QAM	12	0	21.57	21.54	21.58			
5	64QAM	12	7	21.57	21.54	21.53	20.5	4.5	
5	64QAM	12	13	21.48	21.50	21.52			
5	64QAM	25	0	21.48	21.48	21.59			
5	256QAM	1	0	20.24	20.25	20.23	20.5	4.5	
5	256QAM	1	12	20.21	20.32	20.30			
5	256QAM	1	24	20.19	20.26	20.21			
5	256QAM	12	0	20.22	20.23	20.24	20.5	4.5	
5	256QAM	12	7	20.08	20.15	20.09			
5	256QAM	12	13	20.08	20.08	20.15			
5	256QAM	25	0	20.09	20.13	20.15			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Inst (dB)	MPR (dB)	
Channel									
Channel				23780	23790	23800			
Frequency (MHz)				716	716	716			
10	QPSK	1	0	23.63	23.95	23.91	25	0	
10	QPSK	1	25	23.85	23.94	23.84			
10	QPSK	1	49	23.85	23.80	23.82			
10	QPSK	25	0	22.63	22.95	22.91	24	1	
10	QPSK	25	12	22.63	22.91	22.90			
10	QPSK	25	25	22.61	22.82	22.79			
10	QPSK	50	0	22.61	22.83	22.90	24	1	
10	16QAM	1	0	23.19	23.25	23.16			
10	16QAM	1	25	23.19	23.20	23.17			
10	16QAM	1	49	23.18	23.23	23.09	23	2	
10	16QAM	25	0	21.80	21.96	21.82			
10	16QAM	25	12	21.85	21.91	21.79			
10	16QAM	25	25	21.85	21.90	21.80			
10	16QAM	50	0	21.82	21.98	21.92			
10	64QAM	1	0	22.48	22.56	22.52	22	3	
10	64QAM	1	25	22.48	22.56	22.52			
10	64QAM	1	49	22.39	22.52	22.46			
10	64QAM	25	0	21.33	21.40	21.46	22	3	
10	64QAM	25	12	21.34	21.33	21.33			
10	64QAM	25	25	21.22	21.37	21.29			
10	256QAM	1	0	19.84	19.94	19.90	20.5	4.5	
10	256QAM	1	25	19.90	19.92	19.90			
10	256QAM	1	49	19.84	19.85	19.94			
10	256QAM	25	0	19.75	19.85	19.75			
10	256QAM	25	12	19.75	19.81	19.79	20.5	4.5	
10	256QAM	25	25	19.75	19.81	19.79			
10	256QAM	50	0	19.72	19.87	19.74			
Channel									
Channel				23805	23810	23825			
Frequency (MHz)				716	716	716			
5	QPSK	1	0	23.63	23.95	23.91	25	0	
5	QPSK	1	24	23.81	23.83	23.75			
5	QPSK	1	24	23.81	23.75	23.80			
5	QPSK	12	0	22.71	22.79	22.79	24	1	
5	QPSK	12	7	22.74	22.79	22.80			
5	QPSK	12	13	22.75	22.75	22.84			
5	QPSK	25	0	22.60	22.68	22.68	24	1	
5	QPSK	25	12	22.60	22.68	22.68			
5	16QAM	1	0	23.18	23.24	23.03			
5	16QAM	1	12	23.04	23.13	23.12	23	2	
5	16QAM	1	24	23.14	23.22	23.02			
5	16QAM	12	0	21.80	21.89	21.87			
5	16QAM	12	7	21.80	21.88	21.78	23	2	
5	16QAM	12	13	21.77	21.77	21.68			
5	16QAM	25	0	21.74	21.88	21.81			
5	64QAM	1	0	22.26	22.47	22.40	23	2	
5	64QAM	1	12	22.28	22.45	22.30			
5	64QAM	1	24	22.18	22.48	22.41			
5	64QAM	12	0	21.28	21.28	21.16	22	3	
5	64QAM	12	7	21.28	21.28	21.21			
5	64QAM	12	13	21.10	21.25	21.19			
5	256QAM	25	0	19.61	19.82	19.65	20.5	4.5	
5	256QAM	25	12	19.61	19.82	19.65			
5	256QAM	12	0	19.74	19.84	19.60			
5	256QAM	12	7	19.61	19.86	19.72	20.5	4.5	
5	256QAM	12	13	19.62	19.81	19.71			
5	256QAM	25	0	19.64	19.83	19.65			

Band 17_Ant 31									
RF (MHz)	Modulation	RF Offset	RF Offset	Power Ch./Fwd	Power Ch./Fwd	Power Ch./Fwd		Turn-on time (min)	MPH (dB)
Channel									
				2160	2160	2180			
Frequency (MHz)									
5	OFDM	1	0	23.12	23.12	23.12			
10	OFDM	1	26	24.17	24.17	24.17		25	0
15	OFDM	1	49	24.16	24.09	24.09			
20	OFDM	25	0	25.12	25.12	25.12			
25	OFDM	25	12	25.12	25.13	25.08			
30	OFDM	25	25	25.21	25.23	25.23			
35	OFDM	50	0	26.09	26.09	26.09			
40	OFDM	50	1	26.09	26.09	26.09			
45	OFDM	50	1	26.40	26.50	26.41			
50	OFDM	1	26	26.41	26.43	26.33		24	1
55	OFDM	1	26	26.47	26.37	26.37			
60	OFDM	1	26	26.47	26.37	26.37			
65	OFDM	1	26	26.47	26.37	26.37			
70	OFDM	25	0	27.17	27.22	27.16			
75	OFDM	25	12	27.12	27.16	27.13			
80	OFDM	25	25	27.22	27.25	27.23		23	2
85	OFDM	50	0	28.09	28.10	28.10			
90	OFDM	50	0	28.09	28.10	28.10			
95	OFDM	50	0	28.40	28.50	28.41			
100	OFDM	1	0	28.69	28.68	28.68			
105	OFDM	1	26	28.69	28.68	28.68			
110	OFDM	1	26	28.69	28.68	28.68			
115	OFDM	1	26	28.69	28.68	28.68			
120	OFDM	25	0	29.16	29.17	29.16		22	3
125	OFDM	25	12	29.16	29.16	29.16			
130	OFDM	25	25	29.27	29.28	29.27			
135	OFDM	50	0	29.54	29.57	29.67			
140	OFDM	50	0	29.54	29.57	29.67			
145	OFDM	50	0	29.54	29.57	29.67			
150	OFDM	1	26	29.55	29.35	29.35		20.5	4.5
155	OFDM	1	26	29.55	29.35	29.35			
160	OFDM	1	26	29.55	29.35	29.35			
165	OFDM	1	26	29.55	29.35	29.35			
170	OFDM	25	0	30.25	30.26	30.26			
175	OFDM	25	12	30.24	30.25	30.24			
180	OFDM	25	25	30.35	30.34	30.34		20	4.5
185	OFDM	50	0	30.35	30.34	30.34			
190	OFDM	50	0	30.35	30.34	30.34			
195	OFDM	50	0	30.35	30.34	30.34			
200	OFDM	1	26	30.36	30.33	30.33			
205	OFDM	1	26	30.36	30.33	30.33			
210	OFDM	1	26	30.36	30.33	30.33			
215	OFDM	1	26	30.36	30.33	30.33			
220	OFDM	12	0	31.22	31.23	31.22		24	1
225	OFDM	12	0	31.22	31.23	31.22			
230	OFDM	12	0	31.22	31.23	31.22			
235	OFDM	12	0	31.22	31.23	31.22			
240	OFDM	25	0	32.07	32.12	32.11			
245	OFDM	25	12	32.07	32.11	32.08			
250	OFDM	25	25	32.07	32.11	32.08			
255	OFDM	50	0	32.87	32.71	32.68		23	2
260	OFDM	50	12	32.87	32.71	32.68			
265	OFDM	50	12	32.87	32.71	32.68			
270	OFDM	1	26	32.88	32.68	32.68		22	3
275	OFDM	1	26	32.88	32.68	32.68			
280	OFDM	1	26	32.88	32.68	32.68			
285	OFDM	1	26	32.88	32.68	32.68			
290	OFDM	12	0	33.73	33.74	33.73		22	3
295	OFDM	12	0	33.73	33.74	33.73			
300	OFDM	12	0	33.73	33.74	33.73			
305	OFDM	12	0	33.73	33.74	33.73			
310	OFDM	25	0	34.58	34.63	34.58			
315	OFDM	25	12	34.58	34.62	34.59			
320	OFDM	25	25	34.69	34.71	34.69		21	3
325	OFDM	50	0	35.43	35.46	35.43			
330	OFDM	50	12	35.43	35.46	35.43			
335	OFDM	50	12	35.43	35.46	35.43			
340	OFDM	1	26	35.44	35.24	35.24		20.5	4.5
345	OFDM	1	26	35.44	35.24	35.24			
350	OFDM	1	26	35.44	35.24	35.24			
355	OFDM	1	26	35.44	35.24	35.24			
360	OFDM	12	0	36.29	36.30	36.29		20	4.5
365	OFDM	12	0	36.29	36.30	36.29			
370	OFDM	12	0	36.29	36.30	36.29			
375	OFDM	12	0	36.29	36.30	36.29			

Band 26_Ant 13											
RF [MHz]	Modulation	RB Size	RB Offset	Power [mW] Ch. 1/Freq.	Power [mW] Ch. 2/Freq.	Power [mW] Ch. 3/Freq.	Turnup time (min)	MPE (dB)			
Channel											
Frequency (MHz)				8215	8315	8415					
15	QPSK	1	0	25.90	23.80	23.80					
15	QPSK	1	8	25.90	23.80	23.80				25	0
15	QPSK	1	14	23.90	23.80	23.80					
15	QPSK	36	0	22.94	22.80	22.80					
15	QPSK	36	8	22.83	22.80	22.84				24	1
15	QPSK	75	0	22.83	22.80	22.84					
15	16QAM	0	0	23.20	23.20	23.20					
15	16QAM	1	37	23.08	23.20	23.08				24	1
15	16QAM	1	74	23.08	23.20	23.08					
15	16QAM	36	0	21.85	21.88	21.76				23	2
15	16QAM	36	8	21.85	21.88	21.76					
15	16QAM	75	0	21.83	21.93	21.83					
15	16QAM	1	0	22.39	22.53	22.53					
15	16QAM	1	8	22.42	22.53	22.53				22	2
15	16QAM	1	24	22.35	22.45	22.50					
15	16QAM	36	0	21.40	21.48	21.44					
15	16QAM	36	8	21.40	21.48	21.44					
15	16QAM	75	0	21.34	21.40	21.32					
15	16QAM	75	0	21.38	21.45	21.38					
15	16QAM	1	0	19.82	19.87	19.83					
15	16QAM	1	37	19.89	19.90	19.79				20.5	4.5
15	16QAM	1	74	19.79	19.82	19.84					
15	16QAM	36	0	19.72	19.80	19.79					
15	16QAM	36	8	19.72	19.80	19.79				20.5	4.5
15	16QAM	75	0	19.74	19.85	19.79					
15	16QAM	75	0	19.84	19.87	19.74					
Channel				26765	26865	26965					
Frequency (MHz)				819	8315	8415					
15	QPSK	1	0	25.90	23.80	23.84					
15	QPSK	1	8	25.90	23.80	23.76				25	0
15	QPSK	1	14	23.90	23.74	23.78					
15	QPSK	36	0	22.94	22.80	22.80					
15	QPSK	36	8	22.83	22.80	22.80				24	1
15	QPSK	75	0	22.83	22.80	22.80					
15	16QAM	0	0	22.81	22.87	22.81					
15	16QAM	1	37	22.80	22.87	22.81					
15	16QAM	1	74	22.80	22.87	22.81				24	1
15	16QAM	36	0	22.07	22.15	22.05					
15	16QAM	36	8	22.07	22.15	22.05				24	1
15	16QAM	75	0	21.27	21.28	21.28					
15	16QAM	75	0	21.27	21.28	21.28					
15	16QAM	1	0	21.71	21.83	21.83					
15	16QAM	1	37	21.71	21.83	21.83					
15	16QAM	1	74	21.71	21.83	21.83				23	2
15	16QAM	36	0	21.68	21.80	21.69					
15	16QAM	36	8	21.68	21.80	21.69					
15	16QAM	75	0	21.73	21.78	21.76	</				

Band 26_Ant 31										
RF [MHz]	Mod	RF Size	RF Offset	Power [dBm]	Power [dBm]	Power [dBm]	Turn-on time [ms]	APR [dB]		
Channel										
81615 81615 81615 81615										
15	QPSK	1	0	24.26	24.42	24.37				
15	QPSK	1	5	24.32	24.33	24.29	25	0		
15	QPSK	1	74	24.21	24.38	24.36				
15	QPSK	36	20	23.39	23.45	23.44				
15	QPSK	36	39	23.39	23.46	23.42	24	1		
15	QPSK	36	58	23.39	23.46	23.42				
15	16QAM	1	0	23.45	23.51	23.49				
15	16QAM	1	37	23.420	23.51	23.49	24	1		
15	16QAM	1	74	23.420	23.51	23.49				
15	16QAM	36	20	22.28	22.31	22.29				
15	16QAM	36	20	22.28	22.31	22.29	23	2		
15	16QAM	36	39	22.28	22.30	22.28				
15	16QAM	36	58	22.28	22.30	22.28				
15	64QAM	1	0	22.28	22.30	22.28				
15	64QAM	1	37	22.28	22.30	22.28	23	2		
15	64QAM	1	74	22.27	22.35	22.74				
15	64QAM	36	0	21.69	21.82	21.77				
15	64QAM	36	20	21.72	21.79	21.74	22			
15	64QAM	36	39	21.71	21.77	21.64				
15	64QAM	36	58	21.69	21.80	21.68				
15	256QAM	1	0	20.27	20.29	20.16				
15	256QAM	1	37	20.28	20.33	20.21	20.5	4.5		
15	256QAM	1	74	20.28	20.35	20.33				
15	256QAM	36	0	20.14	20.25	20.18				
15	256QAM	36	20	20.10	20.21	20.17	20.5	4.5		
15	256QAM	36	39	20.05	20.20	20.10				
15	256QAM	36	58	20.00	20.23	20.20				
Channel										
91615 91615 91615 91615										
15	QPSK	1	0	24.26	24.42	24.33				
15	QPSK	1	5	24.32	24.33	24.29	25	0		
15	QPSK	1	48	24.12	24.23	24.34				
15	QPSK	36	20	23.39	23.45	23.44				
15	QPSK	36	25	23.39	23.46	23.42	24	1		
15	QPSK	36	58	23.39	23.46	23.42				
15	16QAM	1	0	23.45	23.51	23.41				
15	16QAM	1	25	23.46	23.49	23.43	24	1		
15	16QAM	1	25	23.46	23.49	23.43				
15	16QAM	1	37	23.46	23.49	23.43				
15	16QAM	25	12	22.15	22.32	22.08				
15	16QAM	25	12	22.15	22.32	22.08	23	2		
15	16QAM	25	12	22.15	22.32	22.08				
15	64QAM	1	0	22.15	22.34	22.11				
15	64QAM	1	37	22.15	22.34	22.11	23	2		
15	64QAM	1	48	22.16	22.76	22.68				
15	64QAM	25	0	21.68	21.74	21.74				
15	64QAM	25	12	21.65	21.66	21.73	22	3		
15	64QAM	25	25	21.68	21.84	21.62				
15	64QAM	50	0	21.65	21.70	21.63				
15	256QAM	1	0	20.00	20.02	20.02				
15	256QAM	1	37	20.00	20.02	20.02	20.5	4.5		
15	256QAM	1	48	20.01	20.32	20.30				
15	256QAM	36	0	20.00	20.02	20.02				
15	256QAM	36	12	20.00	20.06	20.07	20.5	4.5		
15	256QAM	36	25	20.00	20.06	20.07				
15	256QAM	36	39	19.97	20.18	20.05				
15	256QAM	36	58	19.97	20.18	20.05				
Channel										
81615 81615 81615 81615										
14	QPSK	1	0	24.26	24.42	24.27				
14	QPSK	1	5	24.32	24.33	24.22	25	0		
14	QPSK	1	54	24.10	24.36	24.25				
14	QPSK	8	0	23.39	23.45	23.43				
14	QPSK	8	7	23.39	23.39	23.38				
14	QPSK	8	7	23.22	23.33	23.32				
14	QPSK	8	7	23.22	23.33	23.32				
14	16QAM	1	0	23.44	23.49	23.45				
14	16QAM	1	8	23.44	23.46	23.41	24	1		
14	16QAM	1	14	23.44	23.46	23.41				
14	16QAM	8	0	22.28	22.32	22.27				
14	16QAM	8	4	22.28	22.37	22.26	23	2		
14	16QAM	8	14	22.28	22.37	22.26				
14	16QAM	15	0	22.15	22.25	22.07				
14	64QAM	1	0	22.28	22.85	22.73				
14	64QAM	1	8	22.28	22.85	22.68	23	2		
14	64QAM	1	14	22.28	22.85	22.68				
14	64QAM	1	14	22.62	22.79	22.60				
14	64QAM	8	0	21.67	21.68	21.76				
14	64QAM	8	4	21.52	21.65	21.55	22	3		
14	64QAM	8	7	21.60	21.58	21.52				
14	64QAM	15	0	21.60	21.77	21.56				
14	256QAM	1	0	20.00	20.02	20.00				
14	256QAM	1	8	20.18	20.22	20.10	20.5	4.5		
14	256QAM	1	14	20.15	20.30	20.31				
14	256QAM	36	0	20.11	20.14	20.15				
14	256QAM	36	8	20.09	20.08	20.14	20.5	4.5		
14	256QAM	36	7	19.97	20.16	20.04				
14	256QAM	36	15	19.97	20.14	20.01				
Channel										
91617 91615 91613										
14	QPSK	1	0	24.26	24.42	24.27				
14	QPSK	1	5	24.32	24.33	24.22	25	0		
14	QPSK	1	54	24.10	24.36	24.25				
14	QPSK	8	0	23.39	23.45	23.43				
14	QPSK	8	7	23.39	23.39	23.37	24	1		
14	16QAM	1	0	23.42	23.47	23.43				
14	16QAM	1	3	23.42	23.43	23.41				
14	16QAM	1	3	23.42	23.43	23.41				
14	16QAM	3	23	23.38	23.40	23.35	24	1		
14	16QAM	3	3	23.38	23.40	23.35				
14	16QAM	3	3	23.38	23.40	23.35				
14	16QAM	6	0	22.13	22.25	22.10	23	2		
14	64QAM	1	0	22.09	22.11	21.88				
14	64QAM	1	3	22.09	22.11	21.88	23	2		
14	64QAM	1	5	22.25	22.20	22.14				
14	64QAM	3	0	22.25	22.21	21.99				
14	64QAM	3	3	22.14	22.14	22.01	22	1		
14	64QAM	3	3	22.10	22.22	22.15				
14	64QAM	6	0	21.86	21.75	21.62	22	3		
14	64QAM	6	3	21.86	21.86	21.73				
14	64QAM	6	3	21.86	21.86	21.73				
14	256QAM	1	0	20.21	20.27	20.11				
14	256QAM	1	3	20.24	20.30	20.19	20.5	4.5		
14	256QAM	1	3	20.24	20.30	20.19				
14	256QAM	36	0	20.04	20.17	20.02				
14	256QAM	36	3	20.04	20.17	20.00	20.5	4.5		

Band 66_Ant 13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tx-use (dBm)	MPR (dB)				
Channel 17022 17022 17022												
Frequency (MHz)												
20	QPSK	1	0	16.26	16.26	16.26						
20	QPSK	1	40	16.23	16.26	16.29						
20	QPSK	1	80	16.20	16.26	16.32						
20	QPSK	60	0	16.27	16.26	16.27						
20	QPSK	60	24	16.10	16.18	16.09						
20	QPSK	60	48	16.17	16.14	16.07						
20	QPSK	100	0	16.12	16.17	16.13						
20	16QAM	1	0	16.24	16.29	16.23						
20	16QAM	1	40	16.21	16.23	16.21			17.3		0	
20	16QAM	1	80	16.19	16.27	16.28						
20	16QAM	60	0	16.20	16.26	16.20						
20	16QAM	60	24	16.27	16.28	16.20			17.3		0	
20	16QAM	60	48	16.27	16.27	16.28						
20	16QAM	100	0	16.27	16.26	16.27			17.3		0	
20	16QAM	1	40	16.21	16.24	16.20						
20	16QAM	1	80	16.23	16.23	16.30						
20	16QAM	60	0	16.29	16.29	16.29						
20	16QAM	60	24	16.19	16.24	16.28						
20	16QAM	60	48	16.23	16.26	16.30						
20	16QAM	100	0	16.22	16.24	16.20						
20	256QAM	1	0	16.22	16.30	16.28						
20	256QAM	1	40	16.21	16.24	16.20						
20	256QAM	1	80	16.23	16.23	16.30						
20	256QAM	60	0	16.23	16.27	16.27						
20	256QAM	60	24	16.26	16.23	16.21						
20	256QAM	60	48	16.27	16.23	16.21						
20	256QAM	100	0	16.28	16.27	16.27						
Channel 17172 17165 17173												
Frequency (MHz)												
15	QPSK	1	0	16.28	16.26	16.24						
15	QPSK	1	37	16.13	16.17	16.17			17.3		0	
15	QPSK	1	74	16.17	16.18	16.18						
15	QPSK	60	0	16.18	16.21	16.17						
15	QPSK	60	20	15.96	16.09	15.96			17.3		0	
15	QPSK	60	40	16.09	16.01	16.04						
15	QPSK	75	0	15.99	16.12	16.03						
15	16QAM	1	0	16.19	16.20	16.14						
15	16QAM	1	37	16.12	16.14	16.18			17.3		0	
15	16QAM	1	74	16.09	16.17	16.19						
15	16QAM	60	0	16.15	16.28	16.15						
15	16QAM	60	20	16.11	16.17	16.25			17.3		0	
15	16QAM	60	40	16.21	16.16	16.16						
15	16QAM	75	0	16.20	16.14	16.19						
15	16QAM	75	0	16.08	16.14	16.22						
15	16QAM	1	37	16.13	16.24	16.17						
15	16QAM	1	74	16.13	16.24	16.17						
15	16QAM	60	0	16.16	16.21	16.24						
15	16QAM	60	20	16.06	16.17	16.15						
15	16QAM	60	40	16.06	16.21	16.22			17.3		0	
15	16QAM	75	0	16.11	16.19	16.15						
15	256QAM	1	0	16.16	16.24	16.26						
15	256QAM	1	37	16.09	16.17	16.08						
15	256QAM	1	74	16.22	16.19	16.20						
15	256QAM	60	0	16.10	16.21	16.14						
15	256QAM	60	20	16.06	16.11	16.06						
15	256QAM	60	40	16.24	16.24	16.16						
Channel 17222 17222 17222												
Frequency (MHz)												
10	QPSK	1	0	16.29	16.26	16.30						
10	QPSK	1	25	16.11	16.19	16.18			17.3		0	
10	QPSK	1	40	16.23	16.15	16.09						
10	QPSK	26	0	16.12	16.19	16.10						
10	QPSK	26	12	16.04	16.08	15.97						
10	QPSK	60	0	16.09	16.03	16.02						
10	QPSK	60	0	16.02	16.04	15.99						
10	16QAM	1	0	16.09	16.23	16.16						
10	16QAM	1	40	16.12	16.12	16.15						
10	16QAM	1	40	16.04	16.21	16.19						
10	16QAM	26	0	16.07	16.18	16.08						
10	16QAM	26	12	16.14	16.13	16.20			17.3		0	
10	16QAM	26	26	16.10	16.17	16.08						
10	16QAM	50	0	16.16	16.17	16.22						
10	16QAM	50	0	16.09	16.12	16.16						
10	16QAM	1	25	16.16	16.21	16.15						
10	16QAM	1	40	16.16	16.16	16.16						
10	16QAM	26	0	16.21	16.23	16.23						
10	16QAM	26	12	16.07	16.11	16.19						
10	16QAM	26	26	16.06	16.13	16.25			17.3		0	
10	16QAM	50	0	16.09	16.15	16.11						
10	256QAM	1	0	16.12	16.22	16.19						
10	256QAM	1	40	16.15	16.22	16.09						
10	256QAM	1	40	16.22	16.12	16.17						
10	256QAM	26	0	16.27	16.24	16.27						
10	256QAM	26	0	16.27	16.24	16.27						
10	256QAM	26	12	16.10	16.12	16.21						
10	256QAM	26	26	16.16	16.12	16.21						
10	256QAM	50	0	16.24	16.20	16.15						
Channel 17272 17265 17273												
Frequency (MHz)												
5	QPSK	1	0	16.26	16.26	16.26						
5	QPSK	1	12	16.16	16.15	16.16						
5	QPSK	1	24	16.21	16.12	16.16						
5	QPSK	12	0	16.11	16.16	16.16						
5	QPSK	12	7	15.97	16.09	16.01						
5	QPSK	12	14	16.02	16.05	16.06						
5	QPSK	26	0	16.02	16.10	16.07						
5	16QAM	1	0	16.09	16.24	16.15						
5	16QAM	1	12	16.12	16.14	16.16						
5	16QAM	1	24	16.12	16.15	16.18						
5	16QAM	12	0	16.06	16.28	16.05						
5	16QAM	12	7	16.10	16.14	16.22			17.3		0	
5	16QAM	12	13	16.18	16.22	16.06						
5	16QAM	26	0	16.18	16.16	16.18						
5	16QAM	26	0	16.11	16.18	16.19			17.3		0	
5	16QAM	1	12	16.12	16.19	16.18						
5	16QAM	1	24	16.20	16.18	16.14						
5	16QAM	12	0	16.12	16.16	16.15						
5	16QAM	12	7	16.14	16.11	16.22						
5	16QAM	12	13	16.15	16.11	16.22			17.3		0	
5	16QAM	26	0	16.13	16.19	16.13						
5	256QAM	1	0	16.19	16.17	16.26						
5	256QAM	1	12	16.10	16.12	16.24						
5	256QAM	1	24	16.19	16.22	16.20						
5	256QAM	12	0	16.11	16.16	16.14						
5	256QAM	12	7	16.24	16.24	16.24						
5	256QAM	12	13	16.18	16.15	16.21			17.3		0	
5	256QAM	26	0	16.26	16.28	16.28						
Channel 17322 17322 17322												
Frequency (MHz)												
3	QPSK	1	0	16.26	16.24	16.28						
3	QPSK	1	8	16.09	16.11	16.16						
3	QPSK	1	16	16.21	16.18	16.16						
3	QPSK	8	0	16.11	16.16	16.16						
3	QPSK	8	8	15.98	16.08	15.98			17.3		0	
3	QPSK	8	16	16.06	16.06	16.06						
3	16QAM	1	0	16.17	16.21	16.15						
3	16QAM	1	8	16.13	16.18	16.12			17.3		0	
3	16QAM	1	16	16.17	16.14	16.22						
3	16QAM	8	0	16.12	16.23	16.06						
3	16QAM	8	8	16.12	16.18	16.18						
3	16QAM	8	16	16.19	16.19	16.19			17.3		0	
3	16QAM	16	0	16.18	16.22	16.17						
3	16QAM	1	0	16.11	16.16	16.16			17.3		0	
3	16QAM	1	8	16.11	16.18	16.18						
3	16QAM	1	16	16.19	16.18	16.21						
3	16QAM	8	0	16.14	16.12	16.24			17.3		0	
3	16QAM	8	8	16.14	16.14	16.08						
3	16QAM	8	16	16.23	16.24	16.20						
3	256QAM	1	0	16.11	16.19	16.19						
3	256QAM	1	14	16.16	16.22	16.20						
3	256QAM	1	22	16.20	16.22	16.12						
3	256QAM	8	0	16.26	16.15	16.26						
3	256QAM	8	8	16.19	16.14	16.09			17.3		0	
3	256QAM	8	16	16.24	16.24	16.16						
Channel 17375 17367 17375												
Frequency (MHz)												
1.4	QPSK	1	0	16.23	16.23							

Band 38_Ant 13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Time-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				37850	38000	38150						
20	QPSK	1	0	17.76	17.79	17.75	18.3	0				
20	QPSK	1	49	17.67	17.72	17.66						
20	QPSK	1	99	17.68	17.71	17.60						
20	QPSK	50	0	17.65	17.71	17.65						
20	QPSK	50	24	17.61	17.65	17.51						
20	QPSK	50	50	17.59	17.59	17.50	18.3	0				
20	QPSK	100	0	17.54	17.60	17.53						
20	16QAM	1	0	17.64	17.70	17.61						
20	16QAM	1	49	17.63	17.74	17.73						
20	16QAM	1	99	17.70	17.71	17.60						
20	16QAM	50	0	17.62	17.72	17.63	18.3	0				
20	16QAM	50	24	17.62	17.67	17.67						
20	16QAM	50	50	17.69	17.66	17.61						
20	16QAM	100	0	17.68	17.73	17.65						
20	64QAM	1	0	17.66	17.72	17.65						
20	64QAM	1	49	17.62	17.65	17.60	18.3	0				
20	64QAM	1	99	17.68	17.69	17.63						
20	64QAM	50	0	17.70	17.72	17.69						
20	64QAM	50	24	17.65	17.73	17.63						
20	64QAM	50	50	17.66	17.65	17.70						
20	64QAM	100	0	17.68	17.69	17.65	18.3	0				
20	256QAM	1	0	17.70	17.66	17.68						
20	256QAM	1	49	17.66	17.64	17.60						
20	256QAM	1	99	17.63	17.71	17.67						
20	256QAM	50	24	17.64	17.69	17.68						
20	256QAM	50	50	17.66	17.73	17.62	18.3	0				
20	256QAM	100	0	17.62	17.71	17.63						
Channel												
Frequency (MHz)				37925	38000	38175			Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	17.69	17.70	17.62	18.3	0				
15	QPSK	1	37	17.53	17.66	17.52						
15	QPSK	1	74	17.62	17.51	17.51						
15	QPSK	36	0	17.57	17.64	17.52						
15	QPSK	36	20	17.46	17.53	17.38						
15	QPSK	36	39	17.50	17.45	17.36	18.3	0				
15	QPSK	75	0	17.49	17.53	17.42						
15	16QAM	1	0	17.54	17.59	17.50						
15	16QAM	1	37	17.54	17.66	17.53						
15	16QAM	1	74	17.57	17.68	17.59						
15	16QAM	36	0	17.50	17.60	17.51	18.3	0				
15	16QAM	36	20	17.55	17.56	17.53						
15	16QAM	36	39	17.63	17.59	17.55						
15	16QAM	75	0	17.57	17.63	17.54						
15	64QAM	1	0	17.59	17.62	17.57						
15	64QAM	1	37	17.54	17.63	17.53	18.3	0				
15	64QAM	1	74	17.63	17.59	17.50						
15	64QAM	36	0	17.61	17.65	17.63						
15	64QAM	36	20	17.58	17.63	17.54						
15	64QAM	36	39	17.51	17.60	17.64						
15	64QAM	75	0	17.53	17.58	17.60	18.3	0				
15	256QAM	1	0	17.60	17.56	17.53						
15	256QAM	1	37	17.64	17.62	17.45						
15	256QAM	1	74	17.48	17.62	17.62						
15	256QAM	36	0	17.49	17.67	17.50						
15	256QAM	36	20	17.50	17.63	17.63	18.3	0				
15	256QAM	36	39	17.52	17.48	17.55						
15	256QAM	75	0	17.51	17.68	17.54						
Channel												
Frequency (MHz)				37900	38000	38200	Time-up limit (dBm)	MPR (dB)				
10	QPSK	1	0	17.62	17.71	17.63	18.3	0				
10	QPSK	1	25	17.59	17.67	17.52						
10	QPSK	1	49	17.53	17.53	17.53						
10	QPSK	25	0	17.57	17.58	17.60						
10	QPSK	25	12	17.46	17.53	17.44						
10	QPSK	25	25	17.49	17.47	17.37	18.3	0				
10	QPSK	50	0	17.45	17.48	17.46						
10	16QAM	1	0	17.58	17.60	17.46						
10	16QAM	1	25	17.56	17.62	17.53						
10	16QAM	1	49	17.54	17.57	17.46						
10	16QAM	25	0	17.48	17.62	17.54	18.3	0				
10	16QAM	25	12	17.53	17.58	17.56						
10	16QAM	25	25	17.56	17.54	17.48						
10	16QAM	50	0	17.63	17.63	17.53						
10	64QAM	1	0	17.52	17.59	17.54						
10	64QAM	1	25	17.47	17.50	17.53	18.3	0				
10	64QAM	1	49	17.59	17.63	17.55						
10	64QAM	25	0	17.63	17.62	17.64						
10	64QAM	25	12	17.56	17.64	17.50						
10	64QAM	25	25	17.58	17.58	17.50						
10	64QAM	50	0	17.53	17.62	17.59	18.3	0				
10	256QAM	1	0	17.66	17.51	17.60						
10	256QAM	1	25	17.53	17.49	17.50						
10	256QAM	1	49	17.51	17.61	17.57						
10	256QAM	25	0	17.56	17.62	17.49						
10	256QAM	25	12	17.54	17.59	17.60	18.3	0				
10	256QAM	25	25	17.55	17.64	17.59						
10	256QAM	50	0	17.50	17.60	17.63						
Channel												
Frequency (MHz)				37775	38000	38225	Time-up limit (dBm)	MPR (dB)				
5	QPSK	1	0	17.70	17.66	17.69	18.3	0				
5	QPSK	1	12	17.56	17.60	17.61						
5	QPSK	1	24	17.63	17.57	17.50						
5	QPSK	12	0	17.55	17.65	17.54						
5	QPSK	12	7	17.50	17.59	17.46						
5	QPSK	12	13	17.48	17.45	17.44	18.3	0				
5	QPSK	25	0	17.44	17.54	17.44						
5	16QAM	1	0	17.52	17.62	17.56						
5	16QAM	1	12	17.56	17.60	17.57						
5	16QAM	1	24	17.55	17.66	17.51						
5	16QAM	12	0	17.48	17.59	17.50	18.3	0				
5	16QAM	12	7	17.56	17.52	17.56						
5	16QAM	12	13	17.57	17.55	17.46						
5	16QAM	25	0	17.62	17.62	17.53						
5	64QAM	1	0	17.55	17.66	17.57						
5	64QAM	1	12	17.48	17.56	17.47	18.3	0				
5	64QAM	1	24	17.57	17.60	17.50						
5	64QAM	12	0	17.61	17.60	17.61						
5	64QAM	12	7	17.55	17.66	17.55						
5	64QAM	12	13	17.59	17.58	17.59						
5	64QAM	25	0	17.59	17.55	17.50	18.3	0				
5	256QAM	1	0	17.65	17.52	17.68						
5	256QAM	1	12	17.54	17.52	17.53						
5	256QAM	1	24	17.59	17.70	17.55						
5	256QAM	12	0	17.57	17.63	17.51						
5	256QAM	12	7	17.49	17.60	17.67	18.3	0				
5	256QAM	12	13	17.57	17.57	17.41						
5	256QAM	25	0	17.57	17.67	17.49						
5	256QAM	25	0	17.57	17.67	17.49						

Band 41_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Middle Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.93	19.03	19.16	19.07	19.06		
20	QPSK	1	49	18.94	19.21	19.31	19.20	19.20	20	0
20	QPSK	1	99	18.97	19.20	19.23	19.27	19.24		
20	QPSK	50	0	18.98	19.18	19.25	19.22	19.19		
20	QPSK	50	24	18.85	19.07	19.20	19.11	19.16	20	0
20	QPSK	50	50	18.93	19.03	19.16	19.07	19.06		
20	QPSK	100	0	18.84	19.08	19.20	19.17	19.06		
20	16QAM	1	0	18.82	19.15	19.23	19.24	19.26		
20	16QAM	1	49	18.95	19.19	19.24	19.16	19.30	20	0
20	16QAM	1	99	18.99	19.17	19.24	19.16	19.32		
20	16QAM	50	0	18.97	19.24	19.25	19.13	19.29		
20	16QAM	50	24	18.94	19.22	19.30	19.23	19.23	20	0
20	16QAM	50	50	19.00	19.20	19.24	19.15	19.25		
20	16QAM	100	0	18.94	19.17	19.27	19.28	19.25		
20	64QAM	1	0	19.00	19.23	19.32	19.16	19.20		
20	64QAM	1	49	18.92	19.21	19.29	19.23	19.22	20	0
20	64QAM	1	99	18.96	19.24	19.26	19.21	19.31		
20	64QAM	50	0	18.94	19.22	19.32	19.20	19.34		
20	64QAM	50	24	19.00	19.22	19.23	19.19	19.23	20	0
20	64QAM	50	50	18.92	19.25	19.25	19.13	19.24		
20	64QAM	100	0	18.99	19.21	19.22	19.25	19.30		
20	256QAM	1	0	18.96	19.21	19.32	19.24	19.34	20	0
20	256QAM	1	49	18.93	19.18	19.28	19.21	19.34		
20	256QAM	1	99	18.94	19.22	19.28	19.15	19.33		
20	256QAM	50	0	18.98	19.17	19.32	19.23	19.19		
20	256QAM	50	24	19.01	19.16	19.24	19.18	19.33	20	0
20	256QAM	50	50	18.99	19.22	19.23	19.26	19.25		
20	256QAM	100	0	18.92	19.20	19.31	19.13	19.35		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.93	19.25	19.27	19.26	19.26		
15	QPSK	1	37	18.89	19.15	19.19	19.18	19.18	20	0
15	QPSK	1	74	18.84	19.11	19.11	19.17	19.12		
15	QPSK	36	0	18.93	19.12	19.12	19.09	19.18		
15	QPSK	36	20	18.76	19.02	19.16	19.02	19.34	20	0
15	QPSK	36	39	18.82	18.94	19.02	19.01	19.81		
15	QPSK	75	0	18.72	18.98	19.06	19.13	18.99		
15	16QAM	1	0	18.77	19.10	19.09	19.21	19.18		
15	16QAM	1	37	18.89	19.14	19.13	19.07	19.27	20	0
15	16QAM	1	74	18.87	19.06	19.16	19.10	19.29		
15	16QAM	36	0	18.90	19.15	19.16	19.11	19.28		
15	16QAM	36	20	18.81	19.13	19.22	19.09	19.11	20	0
15	16QAM	36	39	18.92	19.11	19.15	19.12	19.11		
15	16QAM	75	0	18.87	19.03	19.12	19.28	19.18		
15	64QAM	1	0	18.91	19.08	19.21	19.08	19.16		
15	64QAM	1	37	18.78	19.07	19.16	19.12	19.32	20	0
15	64QAM	1	74	18.84	19.12	19.11	19.14	19.25		
15	64QAM	36	0	18.81	19.16	19.19	19.18	19.30		
15	64QAM	36	20	18.90	19.17	19.11	19.05	19.21	20	0
15	64QAM	36	39	18.83	19.16	19.12	19.08	19.22		
15	64QAM	75	0	18.89	19.06	19.15	19.15	19.30		
15	256QAM	1	0	18.87	19.10	19.24	19.23	19.31		
15	256QAM	1	37	18.81	19.04	19.27	19.07	19.09	20	0
15	256QAM	1	74	18.87	19.21	19.22	19.13	19.20		
15	256QAM	36	0	18.91	19.05	19.23	19.14	19.16		
15	256QAM	36	20	18.93	19.10	19.23	19.18	19.26	20	0
15	256QAM	36	39	18.93	19.06	19.26	19.07	19.32		
15	256QAM	75	0	18.84	19.18	19.24	19.01	19.18		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.96	19.24	19.28	19.27	19.19		
10	QPSK	1	25	18.82	19.16	19.25	19.12	19.20	20	0
10	QPSK	1	49	18.88	19.06	19.14	19.13	19.20		
10	QPSK	25	0	18.83	19.06	19.13	19.11	19.07		
10	QPSK	25	12	18.80	18.93	19.14	19.05	19.05	20	0
10	QPSK	25	25	18.80	18.91	19.10	18.86	18.86		
10	QPSK	50	0	18.73	19.01	19.13	19.02	18.92		
10	16QAM	1	0	18.79	19.06	19.12	19.12	19.19		
10	16QAM	1	25	18.89	19.11	19.19	19.07	19.15	20	0
10	16QAM	1	49	18.87	19.11	19.12	19.01	19.19		
10	16QAM	25	0	18.84	19.09	19.13	19.09	19.21		
10	16QAM	25	12	18.88	19.13	19.16	19.14	19.16		
10	16QAM	25	25	18.95	19.12	19.14	19.01	19.24	20	0
10	16QAM	50	0	18.85	19.08	19.20	19.19	19.16		
10	64QAM	1	0	18.86	19.07	19.26	19.07	19.12		
10	64QAM	1	25	18.78	19.12	19.15	19.14	19.14	20	0
10	64QAM	1	49	18.81	19.12	19.15	19.09	19.21		
10	64QAM	25	0	18.82	19.15	19.19	19.18	19.34		
10	64QAM	25	12	18.89	19.09	19.12	19.13	19.16	20	0
10	64QAM	25	25	18.85	19.10	19.20	19.13	19.21		
10	64QAM	50	0	18.87	19.10	19.14	19.18	19.25		
10	256QAM	1	0	18.83	19.11	19.20	19.21	19.15		
10	256QAM	1	25	18.84	19.15	19.19	19.08	19.22	20	0
10	256QAM	1	49	18.88	19.12	19.18	19.10	19.19		
10	256QAM	25	12	18.97	19.03	19.13	19.11	19.26		
10	256QAM	25	25	18.84	19.12	19.12	19.09	19.23	20	0
10	256QAM	50	0	18.80	19.10	19.23	19.07	19.16		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.97	19.23	19.24	19.22	19.24		
5	QPSK	1	12	18.84	19.12	19.16	19.10	19.09	20	0
5	QPSK	1	24	18.92	19.08	19.11	19.14	19.24		
5	QPSK	12	0	18.89	19.03	19.18	19.16	19.07		
5	QPSK	12	7	18.71	19.02	19.06	19.02	19.07	20	0
5	QPSK	12	13	18.87	18.86	19.10	19.00	18.91		
5	QPSK	25	0	18.79	18.99	19.05	19.17	19.02		
5	16QAM	1	0	18.82	19.08	19.09	19.16	19.21	20	0
5	16QAM	1	12	18.90	19.06	19.16	19.17	19.26		
5	16QAM	1	24	18.91	19.04	19.11	19.12	19.20		
5	16QAM	12	0	18.87	19.14	19.17	19.02	19.18		
5	16QAM	12	7	18.84	19.10	19.16	19.10	19.08	20	0
5	16QAM	12	13	18.87	19.05	19.10	19.08	19.19		
5	64QAM	1	0	18.89	19.18	19.21	19.13	19.13		
5	64QAM	1	12	18.79	19.12	19.20	19.19	19.17	20	0
5	64QAM	1	24	18.86	19.16	19.15	19.18	19.13		
5	64QAM	12	0	18.79	19.07	19.23	19.08	19.19		
5	64QAM	12	7	18.85	19.15	19.12	19.14	19.16	20	0
5	64QAM	12	13	18.82	19.08	19.16	19.07	19.10		
5	64QAM	25	0	18.92	19.15	19.12	19.14	19.20		
5	256QAM	1	0	18.96	19.19	19.23	19.23	19.22		
5	256QAM	1	12	18.88	19.04	19.20	19.10	19.24	20	0
5	256QAM	1	24	18.79	19.14	19.24	19.00	19.27		
5	256QAM	12	0	18.93	19.07	19.26	19.19	19.16		
5	256QAM	12	7	18.90	19.07	19.17	19.03	19.33	20	0
5	256QAM	12	13	18.96	19.07	19.15	19.18	19.11		
5	256QAM	25	0	18.89	19.13	19.20	19.11	19.22		

Band 41_Ant 31												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Low Middle Ch./ Freq.	Power Middle Ch./ Freq.	Power High Middle Ch./ Freq.	Power High Ch./ Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.51	21.73	21.98	21.66	21.78	22	0		
20	QPSK	1	49	21.26	21.48	21.79	21.41	21.63				
20	QPSK	1	99	21.28	21.48	21.78	21.42	21.68				
20	QPSK	50	0	21.38	21.66	21.88	21.53	21.75				
20	QPSK	50	24	21.17	21.45	21.74	21.39	21.62	22	0		
20	QPSK	50	50	21.17	21.45	21.66	21.39	21.59				
20	QPSK	100	0	21.22	21.49	21.87	21.39	21.69				
20	QPSK	100	24	21.22	21.56	21.87	21.39	21.59				
20	16QAM	1	49	21.26	21.56	21.79	21.49	21.68	22	0		
20	16QAM	1	99	21.31	21.55	21.77	21.49	21.54				
20	16QAM	50	0	21.27	21.48	21.77	21.54	21.56				
20	16QAM	50	24	21.35	21.50	21.71	21.51	21.57				
20	16QAM	50	50	21.28	21.53	21.72	21.58	21.58	22	0		
20	16QAM	100	0	21.32	21.55	21.74	21.51	21.62				
20	64QAM	1	0	21.30	21.55	21.74	21.51	21.63				
20	64QAM	1	49	21.27	21.62	21.71	21.55	21.67				
20	64QAM	1	99	21.29	21.50	21.72	21.52	21.58	22	0		
20	64QAM	50	0	21.33	21.49	21.73	21.49	21.54				
20	64QAM	50	24	21.32	21.53	21.72	21.51	21.58				
20	64QAM	50	50	21.35	21.48	21.70	21.54	21.54				
20	64QAM	100	0	21.27	21.51	21.74	21.47	21.51	21	1		
20	256QAM	1	0	20.18	20.43	20.61	20.39	20.43				
20	256QAM	1	49	20.08	20.39	20.62	20.27	20.31				
20	256QAM	99	20.23	20.44	20.68	20.26	20.41					
20	256QAM	50	0	20.14	20.44	20.68	20.30	20.38	21	1		
20	256QAM	50	24	20.17	20.38	20.61	20.18	20.29				
20	256QAM	50	50	20.08	20.35	20.63	20.21	20.29				
20	256QAM	100	0	20.14	20.36	20.65	20.22	20.43				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.75	20.43	20.60	20.68	21.515	22	0		
15	QPSK	1	0	21.33	21.45	21.77	21.48	21.69				
15	QPSK	1	37	21.19	21.33	21.66	21.34	21.57				
15	QPSK	1	74	21.20	21.41	21.65	21.40	21.64				
15	QPSK	36	0	21.22	21.45	21.71	21.37	21.57	22	0		
15	QPSK	36	20	21.09	21.37	21.60	21.26	21.48				
15	QPSK	36	39	21.44	21.39	21.52	21.29	21.59				
15	QPSK	36	59	21.17	21.42	21.56	21.58	21.68				
15	16QAM	1	0	21.21	21.48	21.69	21.46	21.52	22	0		
15	16QAM	1	37	21.13	21.41	21.65	21.47	21.55				
15	16QAM	1	74	21.19	21.44	21.62	21.42	21.39				
15	16QAM	36	0	21.22	21.36	21.61	21.54	21.54				
15	16QAM	36	20	21.28	21.38	21.61	21.45	21.49	22	0		
15	16QAM	36	39	21.31	21.42	21.64	21.51	21.57				
15	16QAM	36	50	21.23	21.46	21.65	21.40	21.60				
15	64QAM	1	0	21.24	21.40	21.63	21.48	21.59				
15	64QAM	1	37	21.14	21.44	21.66	21.54	21.60	22	0		
15	64QAM	1	74	21.17	21.37	21.63	21.52	21.57				
15	64QAM	36	0	21.24	21.35	21.61	21.51	21.57				
15	64QAM	36	20	21.23	21.40	21.62	21.28	21.52				
15	64QAM	36	39	21.23	21.33	21.70	21.53	21.55	22	0		
15	64QAM	36	50	21.13	21.44	21.63	21.34	21.44				
15	256QAM	1	0	20.18	20.32	20.60	20.28	20.42				
15	256QAM	1	37	19.95	20.38	20.57	20.15	20.38				
15	256QAM	1	74	20.14	20.14	20.22	20.57	20.16	21	1		
15	256QAM	36	0	20.04	20.32	20.64	20.17	20.30				
15	256QAM	36	20	20.03	20.24	20.47	20.12	20.19				
15	256QAM	36	39	19.95	20.29	20.61	20.20	20.27				
15	256QAM	75	0	20.06	20.24	20.41	20.11	20.37	Turn-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.61	20.68	20.70	20.60	20.65			22	0
10	QPSK	1	25	21.33	21.50	21.79	21.44	21.58				
10	QPSK	1	49	21.22	21.37	21.68	21.29	21.61				
10	QPSK	25	0	21.19	21.45	21.67	21.40	21.65				
10	QPSK	25	12	21.12	21.31	21.63	21.39	21.57	22	0		
10	QPSK	25	12	21.02	21.34	21.62	21.39	21.46				
10	QPSK	50	0	21.14	21.42	21.62	21.30	21.54				
10	16QAM	1	0	21.23	21.49	21.65	21.38	21.49				
10	16QAM	1	25	21.18	21.49	21.68	21.38	21.65	22	0		
10	16QAM	1	49	21.25	21.44	21.74	21.40	21.48				
10	16QAM	25	0	21.18	21.43	21.68	21.52	21.60				
10	16QAM	25	12	21.22	21.44	21.62	21.37	21.44				
10	16QAM	25	25	21.16	21.48	21.65	21.50	21.52	22	0		
10	16QAM	50	0	21.23	21.45	21.65	21.48	21.51				
10	64QAM	1	0	21.23	21.48	21.59	21.46	21.57				
10	64QAM	1	25	21.16	21.47	21.62	21.42	21.51				
10	64QAM	1	49	21.20	21.44	21.64	21.45	21.43	22	0		
10	64QAM	25	0	21.19	21.40	21.58	21.46	21.48				
10	64QAM	25	12	21.22	21.41	21.62	21.28	21.47				
10	64QAM	25	25	21.30	21.43	21.74	21.41	21.57				
10	64QAM	50	0	21.12	21.36	21.60	21.40	21.53	21	1		
10	256QAM	1	25	20.08	20.35	20.62	20.19	20.21				
10	256QAM	1	49	20.14	20.21	20.66	20.19	20.40				
10	256QAM	25	0	20.01	20.29	20.68	20.17	20.23				
10	256QAM	25	12	20.05	20.32	20.52	20.13	20.15	21	1		
10	256QAM	25	25	20.00	20.28	20.57	20.19	20.16				
10	256QAM	50	0	20.02	20.29	20.54	20.23	20.33				
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.30	21.48	21.78	21.50	21.61	22	0		
5	QPSK	1	12	21.12	21.41	21.69	21.34	21.61				
5	QPSK	1	24	21.18	21.43	21.70	21.42	21.54				
5	QPSK	12	0	21.14	21.52	21.65	21.35	21.51				
5	QPSK	12	12	21.02	21.31	21.62	21.39	21.46	22	0		
5	QPSK	12	13	21.04	21.32	21.58	21.35	21.46				
5	QPSK	25	0	21.14	21.34	21.55	21.26	21.59				
5	16QAM	1	0	21.21	21.48	21.74	21.38	21.53				
5	16QAM	1	12	21.19	21.42	21.67	21.49	21.58	22	0		
5	16QAM	1	24	21.16	21.44	21.64	21.47	21.53				
5	16QAM	12	0	21.16	21.36	21.71	21.40	21.52				
5	16QAM	12	7	21.27	21.42	21.59	21.41	21.57				
5	16QAM	12	13	21.21	21.38	21.64	21.56	21.48	22	0		
5	16QAM	25	0	21.19	21.42	21.71	21.50	21.49				
5	64QAM	1	0	21.24	21.49	21.69	21.41	21.56				
5	64QAM	1	12	21.21	21.36	21.59	21.42	21.58				
5	64QAM	1	24	21.24	21.42	21.62	21.47	21.46	22	0		
5	64QAM	12	0	21.16	21.36	21.58	21.47	21.56				
5	64QAM	12	7	21.20	21.48	21.67	21.38	21.46				
5	64QAM	12	13	21.25	21.35	21.73	21.50	21.48				
5	256QAM	1	0	20.17	20.46	20.59	20.18	20.43	21	1		
5	256QAM	1	0	20.17	20.31	20.66	20.38	20.33				
5	256QAM	1	12	19.97	20.28	20.61	20.13	20.20				
5	256QAM	1	24	20.12	20.22	20.59	20.19	20.26				
5	256QAM	12	0	20.05	20.34	20.60	20.27	20.27	21	1		
5	256QAM	12	7	20.03	20.31	20.56	20.09	20.28				
5	256QAM	12	13	19.97	20.28	20.59	20.13	20.21				
5	256QAM	25	0	20.05	20.32	20.59	20.08	20.32				

n2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900	24.8	0.0	
Frequency (MHz)				23.10	23.13	23.08			
20	Pl2 BPSK	1	1	22.96	23.00	23.07			
20	Pl2 BPSK	1	53	23.03	23.02	23.02			
20	Pl2 BPSK	50	0	22.54	22.53	22.53			
20	Pl2 BPSK	50	28	22.97	23.01	22.96	24.8	0.0	
20	Pl2 BPSK	50	56	22.48	22.61	22.51	24.3	0.5	
20	Pl2 BPSK	100	0	22.47	22.53	22.52	24.8	0.0	
20	QPSK	1	1	23.13	23.15	23.11			
20	QPSK	1	53	22.99	23.05	22.98			
20	QPSK	1	104	23.06	23.02	22.98			
20	QPSK	50	0	22.05	22.05	22.09	23.8	1.0	
20	QPSK	50	28	23.11	23.13	23.10	24.8	0.0	
20	QPSK	50	56	21.96	22.09	22.06	23.8	1.0	
20	QPSK	100	0	22.08	22.10	22.07	23.8	1.0	
20	16QAM	1	1	21.86	21.89	21.85			
20	64QAM	1	1	20.88	20.90	20.86			
20	256QAM	1	1	19.39	20.00	19.96			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	24.8	0.0	
15	QPSK	1	1	22.96	23.08	23.03			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	23.04	23.01	23.01	24.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.8	0.0	
5	QPSK	1	1	23.07	23.06	23.08			

Full&Default Power Mode									
n2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900	25.3	0.0	
Frequency (MHz)				23.81	23.84	23.69			
20	Pl2 BPSK	1	1	23.81	23.84	23.69			
20	Pl2 BPSK	1	104	23.77	23.77	23.60			
20	Pl2 BPSK	1	104	23.78	23.78	23.65			
20	Pl2 BPSK	50	0	23.28	23.31	23.14	24.8	0.5	
20	Pl2 BPSK	50	28	23.75	23.79	23.62	25.3	0.0	
20	Pl2 BPSK	50	56	23.28	23.30	23.13	24.8	0.5	
20	Pl2 BPSK	100	0	23.24	23.27	23.14	25.3	0.0	
20	QPSK	1	1	23.84	23.89	23.77			
20	QPSK	1	53	23.80	23.81	23.64			
20	QPSK	1	104	23.79	23.84	23.71			
20	QPSK	50	0	22.80	22.84	22.71	24.3	1.0	
20	QPSK	50	28	23.81	23.83	23.68	25.3	0.0	
20	QPSK	50	56	22.78	22.81	22.65	24.3	1.0	
20	QPSK	100	0	22.75	22.80	22.67	24.3	1.0	
20	16QAM	1	1	22.58	22.60	22.45			
20	64QAM	1	1	21.61	21.64	21.52			
20	256QAM	1	1	20.72	20.77	20.64			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	25.3 <th colspan="2" rowspan="2">0.0</th>	0.0	
15	QPSK	1	1	23.78	23.78	23.72			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	25.3 <th colspan="2" rowspan="2">0.0</th>	0.0	
10	QPSK	1	1	23.76	23.83	23.72			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	25.3 <th colspan="2" rowspan="2">0.0</th>	0.0	
5	QPSK	1	1	23.73	23.77	23.69			

n2_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pl2 BPSK	1	1	23.03	23.10	23.06	24.5	0.0	
20	Pl2 BPSK	1	53	22.97	23.11	22.98			
20	Pl2 BPSK	1	104	23.00	23.08	23.08			
20	Pl2 BPSK	50	0	22.53	22.51	22.56			
20	Pl2 BPSK	50	28	23.02	23.05	22.95	24.5	0.0	
20	Pl2 BPSK	50	56	22.52	22.53	22.50	24.0	0.5	
20	Pl2 BPSK	100	0	22.59	22.58	22.49			
20	QPSK	1	1	23.13	23.15	23.11			
20	QPSK	1	53	22.96	23.10	22.96			
20	QPSK	1	104	23.07	23.03	22.98	24.5	0.0	
20	QPSK	50	0	22.00	21.98	22.03			
20	QPSK	50	28	23.11	23.13	23.10			
20	QPSK	50	56	21.99	22.02	22.08			
20	QPSK	100	0	22.10	22.11	22.08	23.5	1.0	
20	QPSK	1	1	21.96	21.98	21.95	23.5	1.0	
20	64QAM	1	1	20.98	21.00	20.96			
20	256QAM	1	1	20.03	20.06	20.01			
Channel				371500	376000	380500			
Frequency (MHz)				1867.5	1880	1902.5	24.5	0.0	
15	QPSK	1	1	23.05	23.09	23.02			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	24.5	0.0	
10	QPSK	1	1	23.09	22.99	23.06			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.5	0.0	
5	QPSK	1	1	23.06	23.01	23.07			

n5_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166000	Power Mid Ch. / Freq. 167300	Power High Ch. / Freq. 167800	
Channel				834	836.5	838	
Frequency (MHz)							
20	PI2 BPSK	1	1	23.65	23.66	23.63	
20	PI2 BPSK	1	53	23.59	23.59	23.52	25.0
20	PI2 BPSK	1	104	23.62	23.61	23.51	0.0
20	PI2 BPSK	50	0	23.11	23.02	23.07	24.5
20	PI2 BPSK	50	28	23.61	23.59	23.54	25.0
20	PI2 BPSK	50	56	23.03	23.06	23.12	24.5
20	PI2 BPSK	100	0	23.05	23.13	23.03	0.0
20	QPSK	1	1	23.69	23.70	23.69	
20	QPSK	1	53	23.63	23.55	23.56	25.0
20	QPSK	1	104	23.51	23.56	23.59	
20	QPSK	50	0	22.82	22.60	22.64	24.0
20	QPSK	50	28	23.69	23.68	23.65	25.0
20	QPSK	50	56	22.85	22.82	22.59	24.0
20	QPSK	100	0	22.67	22.70	22.65	
20	16QAM	1	1	22.43	22.45	22.41	24.0
20	64QAM	1	1	21.46	21.48	21.43	22.5
20	256QAM	1	1	20.55	20.56	20.53	21.5
Channel				165300	167300	169300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	23.55	23.67	23.52	25.0
Channel				165000	167300	168000	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	23.61	23.56	23.59	25.0
Channel				165300	167300	169300	
Frequency (MHz)				836.5	836.5	846.5	
5	QPSK	1	1	23.53	23.62	23.60	25.0

n5_Ant 31							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166000	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	
Channel				834	836.5	838	
Frequency (MHz)							
20	PI2 BPSK	1	1	23.95	23.98	23.95	
20	PI2 BPSK	1	53	23.96	24.00	23.98	25.5
20	PI2 BPSK	1	104	23.95	23.99	23.98	
20	PI2 BPSK	50	0	23.46	23.49	23.48	25.0
20	PI2 BPSK	50	28	23.91	23.97	23.93	25.5
20	PI2 BPSK	50	56	23.31	23.37	23.35	25.0
20	PI2 BPSK	100	0	23.41	23.44	23.43	
20	QPSK	1	1	24.09	24.07	24.02	
20	QPSK	1	53	24.03	24.06	24.00	25.5
20	QPSK	1	104	24.03	24.05	24.01	
20	QPSK	50	0	22.97	23.01	23.00	24.5
20	QPSK	50	28	23.97	24.01	24.00	25.5
20	QPSK	50	56	22.86	22.82	22.80	24.5
20	QPSK	100	0	22.95	22.98	22.97	
20	16QAM	1	1	22.73	22.74	22.73	24.5
20	64QAM	1	1	21.79	21.85	21.83	23.0
20	256QAM	1	1	20.91	20.93	20.92	22.0
Channel				165300	167300	169300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	23.99	23.93	23.90	25.5
Channel				165300	167300	169300	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	24.00	24.02	23.88	25.5
Channel				165300	167300	169300	
Frequency (MHz)				836.5	836.5	846.5	
5	QPSK	1	1	23.98	23.93	23.88	25.5

n7_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				50500	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI2 BPSK	1	1	23.25	23.27	23.23	
50	PI2 BPSK	1	135	23.18	23.19	23.21	24.5
50	PI2 BPSK	1	268	23.19	23.25	23.11	0
50	PI2 BPSK	135	0	22.63	22.65	22.69	24.0
50	PI2 BPSK	135	68	23.19	23.20	23.15	24.5
50	PI2 BPSK	135	135	22.69	22.63	22.65	24.0
50	PI2 BPSK	270	0	22.69	22.64	22.61	24.0
50	QPSK	1	1	23.28	23.30	23.27	
50	QPSK	1	135	23.17	23.25	23.11	24.5
50	QPSK	1	268	23.14	23.26	23.14	
50	QPSK	135	0	22.21	22.26	22.14	23.5
50	QPSK	135	68	23.29	23.28	23.25	24.5
50	QPSK	135	135	22.22	22.26	22.14	23.5
50	QPSK	270	0	22.28	22.30	22.28	23.5
50	16QAM	1	1	22.03	22.05	22.01	23.5
50	64QAM	1	1	21.01	21.03	21.00	22.0
50	256QAM	1	1	20.03	20.05	20.01	21.0
Channel				505000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	QPSK	1	1	23.14	23.18	23.11	24.5
Channel				505000	507000	511000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	23.11	23.22	23.12	24.5
Channel				505000	507000	511000	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	1	23.11	23.13	23.13	24.5
Channel				505000	507000	512000	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	23.24	23.24	23.12	24.5
Channel				505000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	23.18	23.19	23.19	24.5
Channel				505000	507000	515000	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	23.21	23.25	23.24	24.5

n7_Ant 31							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 565000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	
Channel							
Frequency (MHz)				2525	2535	2545	
50	PI2 BPSK	1	1	23.89	24.01	23.99	
50	PI2 BPSK	1	135	23.92	24.13	24.11	25.0
50	PI2 BPSK	1	268	23.94	24.03	24.01	
50	PI2 BPSK	135	0	23.60	23.69	23.67	24.5
50	PI2 BPSK	135	68	23.93	24.06	24.02	25.0
50	PI2 BPSK	135	135	23.95	23.68	23.66	24.5
50	PI2 BPSK	270	0	23.52	23.64	23.60	
50	QPSK	1	1	24.04	24.13	24.12	
50	QPSK	1	135	23.99	24.12	24.11	25.0
50	QPSK	1	268	23.96	24.06	24.07	
50	QPSK	135	0	23.06	23.20	23.21	24.0
50	QPSK	135	68	24.01	24.11	24.09	25.0
50	QPSK	135	135	24.04	23.17	23.16	24.0
50	QPSK	270	0	22.99	23.10	23.09	
50	16QAM	1	1	22.83	22.76	22.74	24.0
50	64QAM	1	1	21.64	21.75	21.71	22.5
50	256QAM	1	1	20.71	20.81	20.86	21.5
Channel							
Frequency (MHz)				2520	2535	2550	
40	QPSK	1	1	23.89	24.00	24.00	25.0
Channel							
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	23.93	23.98	24.06	25.0
Channel							
Frequency (MHz)				502000	507000	511000	
25	QPSK	1	1	23.92	24.05	24.00	25.0
Channel							
Frequency (MHz)				502000	507000	512000	
20	QPSK	1	1	23.92	24.07	24.06	25.0
Channel							
Frequency (MHz)				501500	507000	512500	
15	QPSK	1	1	23.94	24.04	23.98	25.0
Channel							
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	23.92	24.01	23.98	25.0
Channel							
Frequency (MHz)				502500	507000	511500	
5	QPSK	1	1	23.93	24.04	24.07	25.0

n7_Ant 11							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	
Channel							
Frequency (MHz)				2525	2535	2545	
50	PI2 BPSK	1	1	23.65	23.66	23.63	
50	PI2 BPSK	1	135	23.97	23.96	23.48	25.0
50	PI2 BPSK	1	268	23.64	23.96	23.94	
50	PI2 BPSK	135	0	23.08	23.01	23.08	24.5
50	PI2 BPSK	135	68	23.56	23.55	23.52	25.0
50	PI2 BPSK	135	135	23.05	23.04	23.03	24.5
50	PI2 BPSK	270	0	23.06	23.15	23.08	
50	QPSK	1	1	23.67	23.68	23.65	
50	QPSK	1	135	23.63	23.51	23.57	25.0
50	QPSK	1	268	23.64	23.53	23.55	
50	QPSK	135	0	22.63	22.53	22.62	24.0
50	QPSK	135	68	23.65	23.66	23.63	25.0
50	QPSK	135	135	22.62	22.56	22.58	24.0
50	QPSK	270	0	22.68	22.70	22.66	
50	16QAM	1	1	22.52	22.65	22.60	24.0
50	64QAM	1	1	21.56	21.62	21.50	22.5
50	256QAM	1	1	20.52	20.58	20.56	21.5
Channel							
Frequency (MHz)				2520	2535	2550	
40	QPSK	1	1	23.56	23.64	23.51	25.0
Channel							
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	23.52	23.61	23.60	25.0
Channel							
Frequency (MHz)				502500	507000	511500	
25	QPSK	1	1	23.51	23.53	23.53	25.0
Channel							
Frequency (MHz)				502000	507000	512000	
20	QPSK	1	1	23.53	23.57	23.52	25.0
Channel							
Frequency (MHz)				501500	507000	512500	
15	QPSK	1	1	23.58	23.58	23.58	25.0
Channel							
Frequency (MHz)				501000	507000	513000	
10	QPSK	1	1	23.60	23.61	23.60	25.0
Channel							
Frequency (MHz)				2507.5	2535	2567.5	
5	QPSK	1	1	23.51	23.52	23.54	25.0

n26_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 164800	Power Middle Ch. F. Freq. 165300	Power High Ch. F. Freq. 165800	
Channel							
Frequency (MHz)				824	831.5	839	
20	PI2 BPSK	1	1	23.65	23.66	23.63	
20	PI2 BPSK	1	83	23.51	23.55	23.49	25.0
20	PI2 BPSK	1	164	23.64	23.51	23.48	
20	PI2 BPSK	50	0	23.13	23.14	23.12	24.5
20	PI2 BPSK	50	28	23.50	23.60	23.53	25.0
20	PI2 BPSK	50	86	23.14	23.06	23.09	24.5
20	PI2 BPSK	100	0	23.03	23.06	23.12	
20	QPSK	1	1	23.68	23.71	23.67	
20	QPSK	1	53	23.53	23.62	23.57	25.0
20	QPSK	1	164	23.63	23.66	23.62	
20	QPSK	50	0	22.90	22.93	22.83	24.0
20	QPSK	50	28	23.67	23.68	23.65	25.0
20	QPSK	50	56	22.83	22.83	22.85	24.0
20	QPSK	100	0	22.68	22.70	22.67	
20	16QAM	1	1	22.43	22.45	22.41	24.0
20	64QAM	1	1	21.45	21.46	21.43	22.5
20	256QAM	1	1	20.53	20.55	20.51	21.5
Channel							
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	23.65	23.64	23.61	25.0
Channel							
Frequency (MHz)				163800	165300	166800	
10	QPSK	1	1	23.65	23.64	23.65	25.0
Channel							
Frequency (MHz)				163300	165300	166300	
5	QPSK	1	1	23.63	23.60	23.60	25.0

n26_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16630	Power High Ch. / Freq. 16700	Tune-up limit (dBm)	MPR (dB)
Channel				834	831.5	836	25.5	0.0
Frequency (MHz)				834	831.5	836		
20	PQ2 BPSK	1	1	23.94	23.97	23.92		
20	PQ2 BPSK	1	13	24.02	24.03	24.00		
20	PQ2 BPSK	1	104	24.00	24.02	23.98	25.0	0.5
20	PQ2 BPSK	50	0	23.54	23.56	23.51	25.0	0.0
20	PQ2 BPSK	50	28	24.03	24.04	23.98	25.0	0.0
20	PQ2 BPSK	50	56	23.48	23.53	23.45	25.0	0.5
20	PQ2 BPSK	100	0	23.50	23.54	23.48	25.0	0.0
20	QPSK	1	1	24.04	24.08	24.04	25.5	0.0
20	QPSK	1	13	23.98	24.03	23.98	25.5	0.0
20	QPSK	1	104	23.98	24.03	23.98	25.5	0.0
20	QPSK	50	0	23.05	23.14	23.08	24.5	1.0
20	QPSK	50	28	24.02	24.05	24.02	25.5	0.0
20	QPSK	50	56	23.10	23.14	23.07	24.5	1.0
20	QPSK	100	0	23.05	23.10	23.08	24.5	1.0
20	16QAM	1	1	22.77	22.77	22.75	24.5	1.0
20	64QAM	1	1	21.87	21.87	21.84	23.0	2.5
20	256QAM	1	1	20.86	20.93	20.86	22.0	3.5
Channel				16630	16630	16630	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				16630	16630	16630		
15	QPSK	1	1	23.94	24.00	23.92		
15	QPSK	1	1	23.94	24.00	23.92		
Channel				16700	16700	16700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				16700	16700	16700		
10	QPSK	1	1	23.94	23.91	23.90		
10	QPSK	1	1	23.94	23.91	23.90		
Channel				16700	16700	16700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				16700	16700	16700		
5	QPSK	1	1	23.99	23.93	23.97		
5	QPSK	1	1	23.99	23.93	23.97		

n66_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 34600	Power Middle Ch. / Freq. 34600	Power High Ch. / Freq. 35000	Tune-up limit (dBm)	MPR (dB)
Channel				1750	1745	1760	24.8	0.0
Frequency (MHz)				1750	1745	1760		
40	PQ2 BPSK	1	1	23.35	23.36	23.31		
40	PQ2 BPSK	1	108	23.25	23.21	23.19		
40	PQ2 BPSK	1	214	23.29	23.34	23.21	24.8	0.0
40	PQ2 BPSK	108	0	22.71	22.76	22.78	24.3	0.5
40	PQ2 BPSK	108	54	23.22	23.30	23.30	24.8	0.0
40	PQ2 BPSK	108	108	22.70	22.83	22.68	24.3	0.5
40	PQ2 BPSK	216	0	22.83	22.84	22.76	24.8	0.0
40	QPSK	1	1	23.38	23.40	23.37	24.8	0.0
40	QPSK	1	108	23.27	23.34	23.24	24.8	0.0
40	QPSK	1	214	23.31	23.24	23.30	24.8	0.0
40	QPSK	108	0	22.33	22.27	22.21	23.8	1.0
40	QPSK	108	54	23.30	23.38	23.35	24.8	0.0
40	QPSK	108	108	22.24	22.36	22.23	23.8	1.0
40	QPSK	216	0	22.37	22.40	22.35	24.8	0.0
40	16QAM	1	1	22.06	22.08	22.05	23.8	1.0
40	64QAM	1	1	21.08	21.10	21.07	22.3	2.5
40	256QAM	1	1	20.10	20.13	20.08	21.3	3.5
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
30	QPSK	1	1	23.24	23.25	23.28		
30	QPSK	1	1	23.24	23.25	23.28		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
25	QPSK	1	1	23.25	23.34	23.28		
25	QPSK	1	1	23.25	23.34	23.28		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
20	QPSK	1	1	23.32	23.33	23.33		
20	QPSK	1	1	23.32	23.33	23.33		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
15	QPSK	1	1	23.31	23.29	23.30		
15	QPSK	1	1	23.31	23.29	23.30		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
10	QPSK	1	1	23.33	23.32	23.29		
10	QPSK	1	1	23.33	23.32	23.29		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
5	QPSK	1	1	23.33	23.34	23.28		
5	QPSK	1	1	23.33	23.34	23.28		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 34600	Power Middle Ch. / Freq. 34600	Power High Ch. / Freq. 35000	Tune-up limit (dBm)	MPR (dB)
Channel				1750	1745	1760	25.3	0.0
Frequency (MHz)				1750	1745	1760		
40	PQ2 BPSK	1	1	23.99	24.08	24.07		
40	PQ2 BPSK	1	108	24.04	24.14	24.13		
40	PQ2 BPSK	1	214	23.92	23.99	23.99	24.8	0.0
40	PQ2 BPSK	108	0	23.46	23.57	23.57	24.8	0.5
40	PQ2 BPSK	108	54	23.97	24.08	24.09	24.8	0.0
40	PQ2 BPSK	108	108	23.39	23.49	23.45	24.8	0.5
40	PQ2 BPSK	216	0	23.51	23.58	23.60	24.8	0.0
40	QPSK	1	1	24.11	24.17	24.15	25.3	0.0
40	QPSK	1	108	24.04	24.12	24.10	25.3	0.0
40	QPSK	1	214	23.95	24.04	24.02	25.3	0.0
40	QPSK	108	0	23.07	23.14	23.13	24.3	1.0
40	QPSK	108	54	24.05	24.13	24.10	25.3	0.0
40	QPSK	108	108	22.97	23.03	23.08	24.3	1.0
40	QPSK	216	0	22.97	23.05	23.03	24.3	1.0
40	16QAM	1	1	22.72	22.81	22.80	24.3	1.0
40	64QAM	1	1	21.79	21.88	21.86	22.8	2.5
40	256QAM	1	1	20.89	20.99	20.88	21.8	3.5
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
30	QPSK	1	1	23.98	24.10	24.00		
30	QPSK	1	1	23.98	24.10	24.00		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
25	QPSK	1	1	23.97	24.06	24.02		
25	QPSK	1	1	23.97	24.06	24.02		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
20	QPSK	1	1	24.04	24.04	24.10		
20	QPSK	1	1	24.04	24.04	24.10		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
15	QPSK	1	1	24.03	24.04	24.03		
15	QPSK	1	1	24.03	24.04	24.03		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
10	QPSK	1	1	24.02	24.09	24.03		
10	QPSK	1	1	24.02	24.09	24.03		
Channel				34600	34600	34600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				34600	34600	34600		
5	QPSK	1	1	24.01	24.12	24.05		
5	QPSK	1	1	24.01	24.12	24.05		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 346000	Power Middle Ch. F. Freq. 349000	Power High Ch. F. Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	25.3	0.0
Frequency (MHz)				24.05	24.07	24.03		
40	PI2 BPSK	1	1	23.99	24.01	24.02		
40	PI2 BPSK	1	214	24.00	24.01	24.00	24.8	0.5
40	PI2 BPSK	108	0	23.50	23.49	23.50		
40	PI2 BPSK	108	54	23.99	24.00	23.92		
40	PI2 BPSK	108	108	23.47	23.52	23.50	24.8	0.5
40	PI2 BPSK	216	0	23.53	23.54	23.42		
40	QPSK	1	1	24.08	24.10	24.07		
40	QPSK	1	108	23.98	23.97	24.00	25.3	0.0
40	QPSK	1	214	23.96	23.94	23.94		
40	QPSK	108	0	23.03	22.95	22.93		
40	QPSK	108	54	24.06	24.08	24.05	25.3	0.0
40	QPSK	108	108	23.01	22.95	22.98		
40	QPSK	216	0	23.07	23.10	23.05		
40	16QAM	1	1	22.83	22.84	22.99	24.3	1.0
40	64QAM	1	1	22.00	22.03	21.94		
40	256QAM	1	1	20.99	21.01	20.97		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	25.3	0.0
30	QPSK	1	1	23.97	23.99	23.90		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	25.3	0.0
25	QPSK	1	1	23.95	24.01	23.94		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1765	25.3	0.0
20	QPSK	1	1	24.03	24.00	24.03		
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	25.3	0.0
15	QPSK	1	1	24.05	24.00	24.03		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	25.3	0.0
10	QPSK	1	1	23.98	24.07	23.98		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	25.3	0.0
5	QPSK	1	1	23.91	24.03	24.02		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 510004	Power Middle Ch. / Freq. 510000	Power High Ch. / Freq. 510996	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
40	Pl2 BPSK	1	1	23.15	23.16	23.13	24.8	0.0				
40	Pl2 BPSK	1	53	23.07	23.14	23.09						
40	Pl2 BPSK	1	104	23.09	23.14	23.08						
40	Pl2 BPSK	50	0	22.63	22.58	22.59						
40	Pl2 BPSK	50	28	23.07	23.05	23.02	24.8	0.0				
40	Pl2 BPSK	50	86	22.59	22.61	22.45	24.3	0.5				
40	Pl2 BPSK	100	0	22.58	22.55	22.56						
40	QPSK	1	1	23.16	23.18	23.15						
40	QPSK	1	53	23.11	23.05	23.00						
40	QPSK	1	104	23.02	23.08	23.10	24.8	0.0				
40	QPSK	50	0	22.07	22.10	22.11	23.8	1.0				
40	QPSK	50	28	23.15	23.16	23.13	24.8	0.0				
40	QPSK	50	56	22.04	22.02	22.12	23.8	1.0				
40	QPSK	100	0	22.30	22.32	22.28	23.8	1.0				
40	16QAM	1	1	22.28	22.30	22.26						
40	64QAM	1	1	21.15	21.17	21.13						
40	256QAM	1	1	19.47	19.50	19.46						
Channel												
Frequency (MHz)												
30	QPSK	1	1	23.07	23.04	23.11	24.8	0.0				
Channel												
Frequency (MHz)												
25	QPSK	1	1	23.03	23.15	23.10	24.8	0.0				
Channel												
Frequency (MHz)												
20	QPSK	1	1	23.08	23.04	23.11	24.8	0.0				
Channel												
Frequency (MHz)												
15	QPSK	1	1	23.09	23.15	23.03	24.8	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	23.01	23.11	23.09	24.8	0.0				

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 510004	Power Middle Ch. / Freq. 510000	Power High Ch. / Freq. 510996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	23.91	23.95	23.95	25.3	0.0	
40	Pl2 BPSK	1	53	24.01	24.04	24.03			
40	Pl2 BPSK	1	104	23.85	23.91	23.88			
40	Pl2 BPSK	50	0	23.42	23.43	23.42			
40	Pl2 BPSK	50	28	23.96	23.97	23.98	25.3	0.0	
40	Pl2 BPSK	50	86	23.36	23.39	23.42	24.8	0.5	
40	Pl2 BPSK	100	0	23.33	23.37	23.38	24.8	0.5	
40	QPSK	1	1	24.08	24.12	24.11			
40	QPSK	1	53	24.06	24.11	24.09			
40	QPSK	1	104	23.94	23.98	23.91			
40	QPSK	50	0	22.93	22.96	22.97	24.3	1.0	
40	QPSK	50	28	23.95	23.98	23.95	25.3	0.0	
40	QPSK	50	86	22.86	22.92	22.89	24.3	1.0	
40	QPSK	100	0	22.94	22.95	22.87			
40	16QAM	1	1	22.85	22.70	22.72			
40	64QAM	1	1	21.83	21.88	21.85			
40	256QAM	1	1	20.58	20.64	20.66	21.8	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.98	24.00	24.05	25.3	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.96	24.03	24.06	25.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.94	24.04	23.98	25.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.95	23.97	24.01	25.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.01	24.04	24.06	25.3	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	23.47	23.48	23.45	25.3	0.0	
40	Pl2 BPSK	1	53	23.45	23.39	23.35			
40	Pl2 BPSK	1	104	23.44	23.35	23.41			
40	Pl2 BPSK	50	0	22.91	22.96	22.80			
40	Pl2 BPSK	50	28	23.43	23.36	23.33	25.3	0.0	
40	Pl2 BPSK	50	86	22.89	22.87	22.89	24.8	0.5	
40	Pl2 BPSK	100	0	22.95	22.96	22.82			
40	QPSK	1	1	23.48	23.50	23.45			
40	QPSK	1	53	23.36	23.46	23.36			
40	QPSK	1	104	23.40	23.35	23.43	25.3	0.0	
40	QPSK	50	0	22.36	22.35	22.44	24.3	1.0	
40	QPSK	50	28	23.47	23.48	23.45	25.3	0.0	
40	QPSK	50	56	22.43	22.45	22.38	24.3	1.0	
40	QPSK	100	0	22.48	22.50	22.46			
40	16QAM	1	1	23.46	23.34	23.32			
40	64QAM	1	1	22.35	22.45	22.34			
40	256QAM	1	1	21.42	21.45	21.40	22.3	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.39	23.33	23.32	25.3	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.38	23.36	23.35	25.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.33	23.38	23.40	25.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.18	23.36	23.44	25.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.32	23.44	23.31	25.3	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 500002	Power Middle Ch. / Freq. 518998	Power High Ch. / Freq. 536000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	P2/BPSK	1	1	25.14	25.23	25.14			
100	P2/BPSK	1	137	25.21	25.27	25.21	26.2	0.0	
100	P2/BPSK	1	271	25.00	25.08	25.01			
100	P2/BPSK	135	0	24.71	24.77	24.68	25.7	0.5	
100	P2/BPSK	135	69	25.11	25.22	25.16	26.2	0.0	
100	P2/BPSK	135	135	24.63	24.69	24.60	25.7	0.5	
100	P2/BPSK	270	0	24.54	24.65	24.58			
100	QPSK	1	1	25.22	25.28	25.21			
100	QPSK	1	137	25.20	25.27	25.18	26.2	0.0	
100	QPSK	1	271	24.97	25.06	25.02			
100	QPSK	135	0	24.15	24.21	24.10	25.2	1.0	
100	QPSK	135	69	25.09	25.17	25.07	26.2	0.0	
100	QPSK	135	135	24.16	24.17	24.07	25.2	1.0	
100	QPSK	270	0	23.97	24.06	23.97			
100	16QAM	1	1	23.87	23.98	23.90	25.2	1.0	
100	64QAM	1	1	22.82	22.99	22.90	23.7	2.5	
100	256QAM	1	1	21.93	22.02	21.94	22.7	3.5	
Channel									
Frequency (MHz)				500200	518998	536996	Tune-up limit (dBm)	MPR (dB)	
				2541	2592.99	2644.98			
90	QPSK	1	1	25.12	25.13	25.12	26.2	0.0	
Channel									
Frequency (MHz)				500201	518998	536996	Tune-up limit (dBm)	MPR (dB)	
				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.16	25.18	25.12	26.2	0.0	
Channel									
Frequency (MHz)				500200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
				2536	2592.99	2604.98			
60	QPSK	1	1	25.13	25.14	25.08	26.2	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
				2542.02	2592.99	2604.99			
50	QPSK	1	1	25.16	25.17	25.11	26.2	0.0	
Channel									
Frequency (MHz)				500202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
				2516.01	2592.99	2670			
40	QPSK	1	1	25.14	25.20	25.19	26.2	0.0	
Channel									
Frequency (MHz)				500200	518998	535996	Tune-up limit (dBm)	MPR (dB)	
				2511	2592.99	2674.98			
30	QPSK	1	1	25.09	25.22	25.13	26.2	0.0	
Channel									
Frequency (MHz)				500202	518998	2679.99	Tune-up limit (dBm)	MPR (dB)	
				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.17	25.13	25.15	26.2	0.0	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)	
				2601.5	2592.99	2682.48			
15	QPSK	1	1	25.15	25.13	25.12	26.2	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
				2507.01	2592.99	2685			
10	QPSK	1	1	25.07	25.13	25.11	26.2	0.0	

n41_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq. 500002	Power Ch. / Freq. 518998	Power Ch. / Freq. 536000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	P2/BPSK	1	1	22.76	22.85	22.82			
100	P2/BPSK	1	137	22.75	22.84	22.78	24.2	0.0	
100	P2/BPSK	1	271	22.83	22.82	22.82			
100	P2/BPSK	135	0	22.85	22.77	22.73	24.2	0.0	
100	P2/BPSK	135	69	22.85	22.74	22.78	24.2	0.0	
100	P2/BPSK	135	135	22.74	22.83	22.77	24.2	0.0	
100	P2/BPSK	270	0	22.83	22.76	22.79			
100	QPSK	1	1	22.88	22.90	22.85			
100	QPSK	1	137	22.86	22.81	22.73	24.2	0.0	
100	QPSK	1	271	22.77	22.73	22.82			
100	QPSK	135	0	22.79	22.82	22.68	24.2	0.0	
100	QPSK	135	69	22.86	22.88	22.83	24.2	0.0	
100	QPSK	135	135	22.83	22.73	22.81	24.2	0.0	
100	QPSK	270	0	22.83	22.85	22.81			
100	16QAM	1	1	22.71	22.85	22.73	24.2	0.0	
100	64QAM	1	1	22.37	22.51	22.44	23.7	0.5	
100	256QAM	1	1	21.55	21.58	21.55	22.7	1.5	
Channel									
Frequency (MHz)				500200	518998	529996	Tune-up limit (dBm)	MPR (dB)	
				2541	2592.99	2644.98			
90	QPSK	1	1	22.82	22.79	22.72	24.2	0.0	
Channel									
Frequency (MHz)				500201	518998	529996	Tune-up limit (dBm)	MPR (dB)	
				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.79	22.79	22.76	24.2	0.0	
Channel									
Frequency (MHz)				500200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
				2536	2592.99	2604.98			
60	QPSK	1	1	22.74	22.85	22.72	24.2	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
				2542.02	2592.99	2604.99			
50	QPSK	1	1	22.73	22.74	22.70	24.2	0.0	
Channel									
Frequency (MHz)				500202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
				2516.01	2592.99	2670			
40	QPSK	1	1	22.83	22.83	22.79	24.2	0.0	
Channel									
Frequency (MHz)				500200	518998	535996	Tune-up limit (dBm)	MPR (dB)	
				2511	2592.99	2674.98			
30	QPSK	1	1	22.82	22.84	22.76	24.2	0.0	
Channel									
Frequency (MHz)				500202	518998	535996	Tune-up limit (dBm)	MPR (dB)	
				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.73	22.68	24.2	0.0	
Channel									
Frequency (MHz)				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)	
				2601.5	2592.99	2682.48			
15	QPSK	1	1	22.81	22.86	22.73	24.2	0.0	
Channel									
Frequency (MHz)				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
				2507.01	2592.99	2685			
10	QPSK	1	1	22.83	22.73	22.69	24.2	0.0	

n41_HPUE_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 500002	Power Middle Ch. / Freq. 518998	Power High Ch. / Freq. 536000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	P2/BPSK	1	1	24.80	24.83	24.78			
100	P2/BPSK	1	137	24.79	24.72	24.63	26.2	0.0	
100	P2/BPSK	1	271	24.75	24.73	24.73			
100	P2/BPSK	138	0.1	24.82	24.72	24.78	25.7	0.5	
100	P2/BPSK	135	69	24.67	24.76	24.65	26.2	0.0	
100	P2/BPSK	135	68	24.78	24.75	24.65	25.7	0.5	
100	P2/BPSK	270	0	24.21	24.28	24.23			
100	QPSK	1	1	24.85	24.85	24.81			
100	QPSK	1	137	24.66	24.68	24.66	26.2	0.0	
100	QPSK	1	271	24.68	24.62	24.72			
100	QPSK	135	0	23.80	23.74	23.75	25.2	1.0	
100	QPSK	135	63	24.65	24.65	24.62	26.2	0.0	
100	QPSK	135	138	23.86	23.77	23.78	25.2	1.0	
100	QPSK	270	0	23.03	23.05	23.00			
100	16QAM	1	1	23.50	23.53	23.38	25.2	1.0	
100	16QAM	1	271	23.17	23.11	22.92			
100	256QAM	1	1	21.55	21.56	21.55	22.7	3.5	
Channel									
Frequency (MHz)				500000	518998	536000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.81	2502.00	2644.00	26.2	0.0	
Channel									
Frequency (MHz)				507000	518998	529998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	25.02	2592.99	2644.99	26.2	0.0	
Channel									
Frequency (MHz)				2472	2477	2473	26.2	0.0	
80	QPSK	1	1	25.03	518998	531666	26.2	0.0	
Channel									
Frequency (MHz)				2526	2592.99	2659.99	26.2	0.0	
80	QPSK	1	1	24.79	24.79	24.77	26.2	0.0	
Channel									
Frequency (MHz)				500000	518998	536000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	25.02	2592.99	2654.99	26.2	0.0	
Channel									
Frequency (MHz)				2479	2474	2477	26.2	0.0	
50	QPSK	1	1	503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				500000	2592.99	2644.99	26.2	0.0	
40	QPSK	1	1	24.80	24.81	24.78	26.2	0.0	
Channel									
Frequency (MHz)				502000	518998	534998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	25.01	2592.99	2674.99	26.2	0.0	
Channel									
Frequency (MHz)				2468	2470	2473	26.2	0.0	
20	QPSK	1	1	501200	518998	530000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2503	2592.99	2692.48	26.2	0.0	
15	QPSK	1	1	24.76	24.74	24.71	26.2	0.0	
Channel									
Frequency (MHz)				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2592.99	2592.99	2645	26.2	0.0	
10	QPSK	1	1	24.74	24.71	24.72	26.2	0.0	

Part27Q_n77_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	3469.98	3469.98		24.2	0.0		
100	Pl2 BPSK	1	137	23.20	23.40					
100	Pl2 BPSK	1	271	23.47	23.47					
100	Pl2 BPSK	135	0	23.28	23.47					
100	Pl2 BPSK	135	69	23.43	23.43		24.2	0.0		
100	Pl2 BPSK	135	135	23.51	23.51		23.7	0.5		
100	Pl2 BPSK	270	0	23.36	23.36					
100	QPSK	1	1	23.52	23.52					
100	QPSK	1	137	23.49	23.49					
100	QPSK	1	271	23.39	23.39		24.2	0.0		
100	QPSK	135	0	22.78	22.78		24.2	0.0		
100	QPSK	135	69	23.42	23.42					
100	QPSK	135	135	23.01	23.01					
100	QPSK	270	0	22.94	22.94					
100	16QAM	1	1	22.50	22.50		23.2	1.0		
100	64QAM	1	1	21.49	21.49		22.2	2.0		
100	256QAM	1	1	20.40	20.40		21.2	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3465	3465.98	3504.98	24.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3480.02	3499.98	3510	24.2	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3434	3433.32	3434.32	24.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3441	3441	3444	24.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3475.02	3469.98	3505	24.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3469.98	3509.98	24.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3465	3469.98	3504.98	24.2	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3463	3463	3464	24.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3458	3458	3459	24.2	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3453	3453	3454	24.2	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3448	3448	3449	24.2	0.0		

Part27Q_n77_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	23.20	23.24	22.89	24.2	0.0		
100	Pl2 BPSK	1	137	23.21	23.22	22.87				
100	Pl2 BPSK	1	271	22.87	22.92	22.57				
100	Pl2 BPSK	135	0	23.29	23.31	22.98				
100	Pl2 BPSK	135	69	23.19	23.23	22.91	24.2	0.0		
100	Pl2 BPSK	135	135	22.97	23.03	22.66	23.7	0.5		
100	Pl2 BPSK	270	0	23.11	23.17	22.80				
100	QPSK	1	1	23.23	23.32	23.05				
100	QPSK	1	137	23.26	23.31	22.96				
100	QPSK	1	271	23.01	23.02	22.67	24.2	0.0		
100	QPSK	135	0	22.77	22.80	22.44				
100	QPSK	135	69	23.18	23.24	22.95				
100	QPSK	135	135	22.53	22.54	22.17				
100	QPSK	270	0	22.97	22.93	22.30	23.2	1.0		
100	16QAM	1	1	21.92	21.95	21.21	22.2	2.0		
100	64QAM	1	1	21.52	21.55	21.21	22.2	2.0		
100	256QAM	1	1	20.82	20.87	20.31	21.2	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3840	3904.98	24.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3899.98	24.2	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3735.00	3840	3900.00	24.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3730.00	3840	3900.00	24.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3725.00	3840	3900.00	24.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720.00	3840	3900.00	24.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3715.00	3840	3900.00	24.2	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3712.50	3840	3907.50	24.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3710.00	3840	3909.99	24.2	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3707.50	3840	3912.50	24.2	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3705.00	3840	3915.00	24.2	0.0		

Part27Q_n77_Ant 12										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low / Freq.	Power Mid / Freq.	Power High / Freq.	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	3469	33332		24.5	0.0		
100	P12 BPSK	1	137	23.64	23.77					
100	P12 BPSK	1	271	23.78	23.78					
100	P12 BPSK	135	0	23.24	23.24					
100	P12 BPSK	135	69	23.81	23.81		24.5	0.0		
100	P12 BPSK	135	135	23.52	23.52		24.0	0.5		
100	P12 BPSK	270	0	23.22	23.22					
100	QPSK	1	1	23.84	23.84					
100	QPSK	1	137	23.81	23.81					
100	QPSK	1	271	23.77	23.77		24.5	0.0		
100	QPSK	135	0	22.66	22.66		24.5	0.0		
100	QPSK	135	69	23.77	23.77					
100	QPSK	135	135	23.52	23.52		24.0	0.5		
100	QPSK	270	0	22.63	22.63		23.5	1.0		
100	256QAM	1	1	22.42	22.42		23.5	0.5		
100	56QAM	1	1	21.46	21.46		22.0	2.5		
100	256QAM	1	1	20.57	20.57		21.0	3.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3469.98	333332	333686	Tune-up limit	MPR		
				3469.98	333332	3336.89	(dBm)	(dB)		
				23.72	23.72	23.79	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3469.98	333332	334000	Tune-up limit	MPR		
				3469.98	333332	3340.00	(dBm)	(dB)		
				23.72	23.72	23.79	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
100	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3322.34	333332	334332	Tune-up limit	MPR		
				3465.01	3469.98	3514.98	(dBm)	(dB)		
				23.78	23.71	23.77	24.5	0.0		

Part270_n77_Ant 12								
BW (MHz)	Modulation	RB Size	RB Offset	Power low Ch. Freq. (MHz)	Power low Ch. Freq. (MHz)	Power low Ch. Freq. (MHz)	Turn-up time (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.37	23.49	23.37		
100	PI2 BPSK	1	137	23.48	23.38	23.32	24.5	0.0
100	PI2 BPSK	1	271	23.04	23.18	23.04		
100	PI2 BPSK	135	0	22.98	22.98	22.84	24.0	0.5
100	PI2 BPSK	135	69	23.37	23.49	23.48	24.5	0.0
100	PI2 BPSK	135	138	22.84	22.79	22.86	24.0	0.5
100	PI2 BPSK	270	0	23.52	23.52	23.47		
100	QPSK	1	1	23.50	23.53	23.48		
100	QPSK	1	137	23.46	23.35	23.47	24.5	0.0
100	QPSK	1	271	23.14	23.28	23.28		
100	QPSK	135	0	22.36	22.51	22.50		
100	QPSK	135	69	23.45	23.47	23.43	24.5	0.0
100	QPSK	135	138	22.23	22.31	22.18		
100	QPSK	270	0	23.52	23.52	23.47	23.5	1.0
100	16QAM	1	1	22.14	22.24	22.09	23.5	1.0
100	64QAM	1	1	21.04	21.17	21.14	22.00	1.5
100	256QAM	1	1	20.35	20.37	20.29	21.0	2.5
Channel				3745.02	3840	3934.08	(dBm)	(dB)
Frequency (MHz)								
90	QPSK	1	1	23.50	23.38	23.12	24.5	0.0
Channel				646933	650000	652698	Turn-up time	MFR
90	QPSK	1	1	34.013	34.00	34.038	(dBm)	(dB)
80	QPSK	1	1	25.48	25.48	25.11	24.5	0.0
Channel				646900	650000	653000	Turn-up time	MFR
Frequency (MHz)								
70	QPSK	1	1	23.45	23.48	23.16	24.5	0.0
Channel				646868	650000	653332	Turn-up time	MFR
Frequency (MHz)				3720.02	3840	3940.08	(dBm)	(dB)
60	QPSK	1	1	23.46	23.46	23.16	24.5	0.0
Channel				645334	650000	653698	Turn-up time	MFR
Frequency (MHz)				3726.01	3860	3964.09	(dBm)	(dB)
50	QPSK	1	1	23.49	23.46	23.15	24.5	0.0
Channel				646900	650000	653000	Turn-up time	MFR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	23.46	23.40	23.12	24.5	0.0
Channel				647668	650000	654332	Turn-up time	MFR
Frequency (MHz)				3744	3840	3945.04	(dBm)	(dB)
30	QPSK	1	1	23.42	23.43	23.17	24.5	0.0
Channel				647500	650000	654500	Turn-up time	MFR
Frequency (MHz)				3712.23	3840	3962.23	(dBm)	(dB)
25	QPSK	1	1	23.51	23.43	23.16	24.5	0.0
Channel				647334	650000	654668	Turn-up time	MFR
Frequency (MHz)				3715.01	3840	3969.09	(dBm)	(dB)
20	QPSK	1	1	22.42	22.48	23.17	24.5	0.0
Channel				647166	650000	654332	Turn-up time	MFR
Frequency (MHz)				3707.50	3840	3972.48	(dBm)	(dB)
15	QPSK	1	1	23.43	23.44	23.17	24.5	0.0
Channel				647000	650000	655000	Turn-up time	MFR
Frequency (MHz)				3730	3840	3978	(dBm)	(dB)
10	QPSK	1	1	23.50	23.43	23.09	24.5	0.0

Part27Q_n77_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel								
	Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1		20.64				0.0
	PV2 BPSK	1	157		20.68		21.5		
100	PV2 BPSK	1	271		20.73				
100	PV2 BPSK	135	0		20.71		21.0	0.5	
	PV2 BPSK	135	69		20.74		21.5	0.0	
100	PV2 BPSK	135	138		20.25		21.0	0.5	
100	PV2 BPSK	270	0		20.22		21.0	0.5	
100	QPSK	1	1		20.72				
	QPSK	1	137		20.76		21.5	0.0	
	QPSK	1	271		20.74				
100	QPSK	135	0		19.71				
100	QPSK	135	69		20.71		21.5	0.0	
100	QPSK	135	138		19.77				
100	QPSK	270	0		19.76		20.5	1.0	
100	16QAM	1	1		19.48		20.5	1.0	
100	64QAM	1	1		17.46		19.5	2.0	
100	256QAM	1	1		16.36		18.5	3.0	
	Channel			633000	633333	633666	Tune-up limit	MPR	
	Frequency (MHz)			3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	20.74	20.69	20.59	21.5	0.0	
	Channel			632088	633332	634000	Tune-up limit	MPR	
	Frequency (MHz)			3494	3498.98	3503	(dBm)	(dB)	
80	QPSK	1	1	20.69	20.71	20.56	21.5	0.0	
	Channel			632344	633332	634332	Tune-up limit	MPR	
	Frequency (MHz)			3493.01	3497.99	3502.99	(dBm)	(dB)	
70	QPSK	1	1	20.68	20.69	20.65	21.5	0.0	
	Channel			635000	633332	634666	Tune-up limit	MPR	
	Frequency (MHz)			3480	3493.98	3519.98	(dBm)	(dB)	
60	QPSK	1	1	20.69	20.64	20.65	21.5	0.0	
	Channel			631668	633332	635000	Tune-up limit	MPR	
	Frequency (MHz)			3476.02	3498.98	3525	(dBm)	(dB)	
50	QPSK	1	1	20.65	20.62	20.64	21.5	0.0	
	Channel			631224	633332	635332	Tune-up limit	MPR	
	Frequency (MHz)			3470.01	3498.98	3509.98	(dBm)	(dB)	
40	QPSK	1	1	20.70	20.71	20.57	21.5	0.0	
	Channel			631000	633332	635666	Tune-up limit	MPR	
	Frequency (MHz)			3465	3498.98	3514.98	(dBm)	(dB)	
30	QPSK	1	1	20.64	20.65	20.57	21.5	0.0	
	Channel			630884	633332	636882	Tune-up limit	MPR	
	Frequency (MHz)			3462.02	3498.98	3520.98	(dBm)	(dB)	
25	QPSK	1	1	20.68	20.70	20.56	21.5	0.0	
	Channel			630668	633332	636000	Tune-up limit	MPR	
	Frequency (MHz)			3460.02	3498.98	3540	(dBm)	(dB)	
20	QPSK	1	1	20.72	20.67	20.57	21.5	0.0	

Part270_n77_Ant 21								
Br# (MHz)	Modulation	R Size	RB Offset	Power Meas Ch# 1, Freq.	Power Meas Ch# 2, Freq.	Power Meas Ch# 3, Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3790	3840	3900		
100	PI2 BPSK	1	1	20.48	20.62	20.61		
100	PI2 BPSK	1	137	20.50	20.60	20.53	21.5	0.0
100	PI2 BPSK	1	271	20.35	20.46	20.42		
100	PI2 BPSK	135	0	20.00	20.15	20.14	21.0	0.5
100	PI2 BPSK	135	69	20.63	20.66	20.61	21.5	0.0
100	PI2 BPSK	135	138	19.91	20.00	19.93	21.0	0.5
100	PI2 BPSK	220	0	20.05	20.10	20.04		
100	QPSK	1	1	20.08	20.70	20.67		
100	QPSK	1	137	20.55	20.69	20.64	21.5	0.0
100	QPSK	1	271	20.44	20.51	20.36		
100	QPSK	135	0	19.93	19.97	19.91		
100	QPSK	135	69	20.61	20.63	20.61	21.5	0.0
100	QPSK	135	138	19.44	19.51	19.48		
100	QPSK	220	0	19.88	19.93	19.86	20.5	1.0
100	16QAM	1	1	19.33	19.37	19.23	20.5	1.0
100	16QAM	1	137	19.44	19.46	19.40	21.5	0.0
100	16QAM	1	271	19.33	19.37	19.23	20.5	1.0
100	16QAM	135	0	18.34	18.44	18.30	19.5	2.0
100	256QAM	1	1	17.41	17.46	17.48	18.5	3.0
Channel								
Frequency (MHz)				3745.02	3840	3934.68	(dBm)	(dB)
80	QPSK	1	1	20.56	20.63	20.41	21.5	0.0
Channel								
Frequency (MHz)				6823.94	6900.00	692696	Tune-up limit	MPR
80	QPSK	1	1	20.54	20.58	20.40	21.5	0.0
Channel								
Frequency (MHz)				68490.00	6900.00	69300.00	Tune-up limit	MPR
70	QPSK	1	1	20.46	20.65	20.39	21.5	0.0
Channel								
Frequency (MHz)				68466.68	6900.00	69333.32	Tune-up limit	MPR
60	QPSK	1	1	20.48	20.62	20.41	21.5	0.0
Channel								
Frequency (MHz)				68533.34	6900.00	69366.66	Tune-up limit	MPR
50	QPSK	1	1	20.52	20.61	20.39	21.5	0.0
Channel								
Frequency (MHz)				68600.00	6900.00	69300.00	Tune-up limit	MPR
40	QPSK	1	1	20.46	20.63	20.42	21.5	0.0
Channel								
Frequency (MHz)				68766.68	6900.00	69433.32	Tune-up limit	MPR
30	QPSK	1	1	20.53	20.60	20.48	21.5	0.0
Channel								
Frequency (MHz)				68900.00	6900.00	69450.00	Tune-up limit	MPR
25	QPSK	1	1	20.58	20.64	20.40	21.5	0.0
Channel								
Frequency (MHz)				69116.61	6940	6966.68	Tune-up limit	MPR
20	QPSK	1	1	20.49	20.56	20.33	21.5	0.0
Channel								
Frequency (MHz)				69707.50	6980	6992.48	Tune-up limit	MPR
15	QPSK	1	1	20.53	20.56	20.42	21.5	0.0
Channel								
Frequency (MHz)				69700.00	6980.00	6990.00	Tune-up limit	MPR
10	QPSK	1	1	20.49	20.63	20.37	21.5	0.0

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)	100	Pl2 BPSK	1	3469.98	20.25	20.25	21.5	0.0	
100	Pl2 BPSK	1	137	20.32	20.32	20.32			
100	Pl2 BPSK	1	271	20.30	20.30	20.30			
100	Pl2 BPSK	135	0	19.81	19.81	19.81	21.0	0.5	
100	Pl2 BPSK	135	69	20.38	20.38	20.38	21.5	0.0	
100	Pl2 BPSK	135	135	19.86	19.86	19.86	21.0	0.5	
100	Pl2 BPSK	270	0	19.78	19.78	19.78			
100	QPSK	1	1	20.45	20.45	20.45			
100	QPSK	1	137	20.40	20.40	20.40	21.5	0.0	
100	QPSK	1	271	20.41	20.41	20.41			
100	QPSK	135	0	19.35	19.35	19.35			
100	QPSK	135	69	20.43	20.43	20.43	21.5	0.0	
100	QPSK	135	135	19.43	19.43	19.43			
100	QPSK	270	0	19.32	19.32	19.32			
100	16QAM	1	1	19.09	19.09	19.09	20.5	1.0	
100	64QAM	1	1	18.11	18.11	18.11	19.0	2.5	
100	256QAM	1	1	17.16	17.16	17.16	18.0	3.5	
Channel									
Frequency (MHz)	90	QPSK	1	3465.00	3533.92	3536.96	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.29	20.25	20.29	21.5	0.0	
Channel									
Frequency (MHz)	80	QPSK	1	3469.02	3533.92	3540.00	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.29	20.24	20.32	21.5	0.0	
Channel									
Frequency (MHz)	70	QPSK	1	3435.01	3469.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.31	20.27	20.32	21.5	0.0	
Channel									
Frequency (MHz)	60	QPSK	1	3440.00	3469.98	3519.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.27	20.29	20.28	21.5	0.0	
Channel									
Frequency (MHz)	50	QPSK	1	3410.00	3533.92	3550.00	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.27	20.29	20.28	21.5	0.0	
Channel									
Frequency (MHz)	40	QPSK	1	3410.01	3469.98	3529.98	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.27	20.23	20.27	21.5	0.0	
Channel									
Frequency (MHz)	30	QPSK	1	3410.00	3533.92	3556.96	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.26	20.26	20.24	21.5	0.0	
Channel									
Frequency (MHz)	25	QPSK	1	3402.01	3533.92	3562.96	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	20.24	20.28	20.25	21.5	0.0	
Channel									
Frequency (MHz)	20	QPSK	1	3402.02	3533.92	3568.96	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.25	20.22	20.26	21.5	0.0	
Channel									
Frequency (MHz)	15	QPSK	1	3402.00	3533.92	3568.96	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.25	20.28	20.25	21.5	0.0	
Channel									
Frequency (MHz)	10	QPSK	1	3403.04	3533.92	3563.92	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.32	20.26	20.28	21.5	0.0	

Part27Q_n77_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	20.25	20.33	20.28	21.5	0.0	
100	Pl2 BPSK	1	137	20.23	20.28	20.17			
100	Pl2 BPSK	1	271	19.94	20.03	19.95			
100	Pl2 BPSK	135	0	19.88	19.90	19.82	21.0	0.5	
100	Pl2 BPSK	135	69	20.33	20.34	20.28	21.5	0.0	
100	Pl2 BPSK	135	135	19.48	19.64	19.56	21.0	0.5	
100	Pl2 BPSK	270	0	19.61	19.76	19.74			
100	QPSK	1	1	20.35	20.37	20.33			
100	QPSK	1	137	20.29	20.36	20.26	21.5	0.0	
100	QPSK	1	271	20.02	20.08	19.93			
100	QPSK	135	0	19.38	19.39	19.30			
100	QPSK	135	69	20.31	20.34	20.32	21.5	0.0	
100	QPSK	135	135	19.15	19.16	19.15			
100	QPSK	270	0	19.25	19.27	19.23	20.5	1.0	
100	16QAM	1	1	18.83	19.05	18.96	20.5	1.0	
100	64QAM	1	1	18.01	18.10	18.07	19.0	2.5	
100	256QAM	1	1	17.09	17.23	17.21	18.0	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64998	65000	64932	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	34642	34644	34584	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.26	20.25	19.97	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64934	64936	64866	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	34700	34640	34645	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.26	20.27	19.98	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64968	65000	64932	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	34712	34640	34675	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	34710	34640	34669	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64768	65000	64882	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	34705	34640	34728	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.27	20.30	19.90	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64760	65000	65000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.27	20.31	19.93	21.5	0.0	

Part27Q_n78_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	3469.98	23.77	23.77	24.7	0.0		
100	Pl2 BPSK	1	137	23.69	23.69	23.69				
100	Pl2 BPSK	1	271	23.72	23.72	23.72				
100	Pl2 BPSK	135	0	23.80	23.80	23.80	24.7	0.0		
100	Pl2 BPSK	135	69	23.78	23.78	23.78	24.7	0.0		
100	Pl2 BPSK	135	138	23.79	23.79	23.79	24.7	0.0		
100	Pl2 BPSK	270	0	23.75	23.75	23.75	24.7	0.0		
100	QPSK	1	1	3469.98	23.85	23.85	24.7	0.0		
100	QPSK	1	137	23.79	23.79	23.79				
100	QPSK	1	271	23.81	23.81	23.81				
100	QPSK	135	0	23.79	23.79	23.79	24.7	0.0		
100	QPSK	135	69	23.83	23.83	23.83	24.7	0.0		
100	QPSK	135	138	23.80	23.80	23.80	24.7	0.0		
100	QPSK	270	0	23.80	23.80	23.80	24.7	0.0		
100	QAM	1	1	3469.98	23.86	23.86	24.7	0.0		
100	60QAM	1	1	23.40	23.40	23.40	24.2	0.5		
100	256QAM	1	1	23.53	23.53	23.53	23.2	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	23.78	23.79	23.79	24.7	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	630668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3460.02	3466.98	3474.00	24.7	0.0		
80	QPSK	1	1	23.73	23.75	23.76	24.7	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	630234	633332	634332	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	3465.01	3466.98	3474.98	24.7	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	631000	633332	635000	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	23.78	23.76	23.76	24.7	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	631138	633332	635332	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3474.01	3466.98	3458.98	24.7	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	631100	633332	635666	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3465	3466.98	3504.99	24.7	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	630845	633332	634000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	23.79	23.73	23.76	24.7	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	630845	633332	635632	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3462.51	3466.98	3537.48	24.7	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	631000	633332	636000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	23.80	23.71	23.74	24.7	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	630900	633332	636866	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3464.5	3466.98	3542.49	24.7	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	630304	633332	638332	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	23.79	23.74	23.79	24.7	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	630314	633332	639332	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	23.75	23.74	23.79	24.7	0.0		

Part27Q_n78_HPUE_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	25.58			26.7	0.0	
100	P22 BPSK	1	137	25.68					
100	P22 BPSK	1	271	25.71					
100	P22 BPSK	135	0	25.08			26.2	0.5	
100	P22 BPSK	135	69	25.75			26.7	0.0	
100	P22 BPSK	135	138	25.29			26.2	0.5	
100	P22 BPSK	270	0	25.10					
100	QPSK	1	1	25.82					
100	QPSK	1	137	25.75			26.7	0.0	
100	QPSK	1	271	25.79					
100	QPSK	135	0	24.80					
100	QPSK	135	69	25.70			26.7	0.0	
100	QPSK	135	138	24.83			25.7	1.0	
100	QPSK	270	0	24.85					
100	16QAM	1	1	24.35			25.7	1.0	
100	64QAM	1	1	23.40			24.2	2.5	
100	256QAM	1	1	22.50			23.2	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.74	25.71	25.70	26.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.67	25.76	25.77	26.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.68	25.74	25.76	26.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.71	25.72	25.74	26.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.74	25.77	25.79	26.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.69	25.75	25.73	26.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.72	25.74	25.74	26.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.70	25.76	25.78	26.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.70	25.72	25.77	26.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.76	25.72	25.75	26.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.75	25.69	25.69	26.7	0.0	

Part27O_n78_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	23.83			24.7	0.0	
100	P22 BPSK	1	137	23.74					
100	P22 BPSK	1	271	23.76					
100	P22 BPSK	135	0	23.78			24.7	0.0	
100	P22 BPSK	135	69	23.77			24.7	0.0	
100	P22 BPSK	135	138	23.83			24.7	0.0	
100	P22 BPSK	270	0	23.83					
100	QPSK	1	1	23.88					
100	QPSK	1	137	23.72			24.7	0.0	
100	QPSK	1	271	23.82					
100	QPSK	135	0	23.74					
100	QPSK	135	69	23.86			24.7	0.0	
100	QPSK	135	138	23.82			24.7	0.0	
100	QPSK	270	0	23.83					
100	16QAM	1	1	23.89			24.7	0.0	
100	64QAM	1	1	23.44			24.2	0.5	
100	256QAM	1	1	22.58			23.2	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.74	23.84	23.72	24.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.71	23.82	23.75	24.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.76	23.77	23.85	24.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.82	23.82	23.79	24.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.84	23.76	23.72	24.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.79	23.83	23.71	24.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.73	23.73	23.82	24.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.75	23.80	23.73	24.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.79	23.82	23.71	24.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.80	23.75	23.85	24.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.79	23.79	23.83	24.7	0.0	

Part27O_n78_HPUE_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	25.63			26.7	0.0	
100	P22 BPSK	1	137	25.69					
100	P22 BPSK	1	271	25.75					
100	P22 BPSK	135	0	25.34			26.2	0.5	
100	P22 BPSK	135	69	25.78			26.7	0.0	
100	P22 BPSK	135	138	25.22			26.2	0.5	
100	P22 BPSK	270	0	25.28					
100	QPSK	1	1	25.83					
100	QPSK	1	137	25.68			26.7	0.0	
100	QPSK	1	271	25.77					
100	QPSK	135	0	24.76					
100	QPSK	135	69	25.71			26.7	0.0	
100	QPSK	135	138	24.85			25.7	1.0	
100	QPSK	270	0	24.83					
100	16QAM	1	1	24.40			25.7	1.0	
100	64QAM	1	1	23.44			24.2	2.5	
100	256QAM	1	1	22.58			23.2	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.67	25.72	25.68	26.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.70	25.73	25.67	26.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.65	25.77	25.72	26.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.72	25.75	25.76	26.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.68	25.74	25.68	26.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.73	25.75	25.75	26.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.71	25.78	25.71	26.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.62	25.72	25.67	26.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.69	25.72	25.73	26.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.78	25.00	25.02	25.7	1.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.65	24.70	24.74	25.7	1.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.70	24.75	24.75	25.7	1.0	

Part27Q_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 QPSK	1	1	23.70	653332		25.0	0.0	
100	P2 QPSK	1	137	23.77					
100	P2 QPSK	1	271	23.67					
100	P2 QPSK	135	0	23.69					
100	P2 QPSK	135	69	23.68			25.0	0.0	
100	P2 QPSK	135	138	23.72			25.0	0.0	
100	P2 QPSK	270	0	23.70					
100	QPSK	1	1	23.80					
100	QPSK	1	137	23.66					
100	QPSK	1	271	23.73			25.0	0.0	
100	QPSK	135	0	23.69			25.0	0.0	
100	QPSK	135	69	23.78					
100	QPSK	135	138	23.64					
100	QPSK	270	0	23.75					
100	16QAM	1	1	23.75			25.0	0.0	
100	64QAM	1	1	23.38			24.5	0.5	
100	256QAM	1	1	22.53			24.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.78	653332	653686	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.78	653698	654000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.70	653698	654198	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.63	653698	653919	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.72	653732	653900	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.72	653732	653900	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.65	653698	653900	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.63	653698	653748	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.63	653698	653816	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.76	653698	654296	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.74	653698	654396	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	25.53				27.0	0.0
100	P2 BPSK	1	137	25.45					
100	P2 BPSK	1	271	25.70					
100	P2 BPSK	135	0	25.10					
100	P2 BPSK	135	69	25.64				27.0	0.0
100	P2 BPSK	135	138	25.15				26.5	0.5
100	P2 BPSK	270	0	25.09					
100	QPSK	1	1	25.77					
100	QPSK	1	137	25.73					
100	QPSK	1	271	25.67				27.0	0.0
100	QPSK	135	0	25.60				27.0	0.0
100	QPSK	135	69	25.69					
100	QPSK	135	138	24.70					
100	QPSK	270	0	24.65					
100	16QAM	1	1	24.31				26.0	1.0
100	64QAM	1	1	23.39				24.5	2.5
100	256QAM	1	1	22.53				24.0	3.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.70	25.63	25.68		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.70	25.68	25.70		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.71	25.72	25.73		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.74	25.72	25.72		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.72	25.69	25.69		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.76	25.67	25.78		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.70	25.72	25.70		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.75	25.70	25.71		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.78	25.68	25.70		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.77	25.67	25.68		Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.70	25.66	25.74		Tune-up limit (dBm)	MPR (dB)

Part270_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	23.54			25.0	0.0	
100	P2 BPSK	1	137	23.52					
100	P2 BPSK	1	271	23.57					
100	P2 BPSK	135	0	23.44					
100	P2 BPSK	135	69	23.51			25.0	0.0	
100	P2 BPSK	135	138	23.48			25.0	0.0	
100	P2 BPSK	270	0	23.44					
100	QPSK	1	1	23.60					
100	QPSK	1	137	23.54					
100	QPSK	1	271	23.44			25.0	0.0	
100	QPSK	135	0	23.50			25.0	0.0	
100	QPSK	135	69	23.58					
100	QPSK	135	138	23.56					
100	QPSK	270	0	23.58					
100	16QAM	1	1	23.48			25.0	0.0	
100	64QAM	1	1	23.18			24.5	0.5	
100	256QAM	1	1	22.41			24.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.57	23.55	23.51	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.51	23.49	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.58	23.48	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.51	23.49	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.45	23.52	23.56	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.58	23.50	23.45	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.44	23.55	23.53	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.125	23.50	23.675	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.57	23.53	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.168	25.000	25.002	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.51	23.51	23.52	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.700	25.000	25.000	25.0	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.62	23.70	23.78	25.0	0.0	

Part270_n78_HPUe_Ant 12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Lev. / Freq. 3750	Power Lev. / Freq. 65000	Power Lev. / Freq. 85000	Time-Up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P2/ BPSK	1	1	25.36				
100	P2/ BPSK	1	137	25.51				0.0
100	P2/ BPSK	1	221	25.56				
100	P2/ BPSK	138	0	25.10			26.5	0.5
100	P2/ BPSK	135	69	25.53			27.0	0.0
100	P2/ BPSK	135	138	25.07			26.5	0.5
100	P2/ BPSK	270	0	25.05				
100	QPSK	1	1	25.38				
100	QPSK	1	137	25.41			27.0	0.0
100	QPSK	1	221	25.53				
100	QPSK	138	0	25.44			27.0	0.0
100	QPSK	135	69	25.50				
100	QPSK	135	138	24.47				
100	QPSK	270	0	24.42			26.0	1.0
100	16QAM	1	1	24.26			26.0	1.0
100	64QAM	1	1	23.18			24.5	2.5
100	256QAM	1	1	22.41			24.0	3.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.62	65000	85032	Time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.46	25.44	25.54	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.43	65000	85066	Time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.40	25.40	25.51	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.44	65000	85100	Time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.44	25.44	25.47	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.48	65000	85132	Time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.48	25.49	25.46	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.38	65000	85000	Time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.38	25.45	25.40	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.45	65000	85248	Time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.45	25.50	25.48	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.44	65000	85250	Time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.44	25.44	25.52	27.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	25.46	65000	85280	Time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.46	25.43	25.52	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.46	65000	85285	Time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.46	25.43	25.47	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.39	65000	85300	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.39	25.48	25.45	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.40	65000	85300	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.40	25.51	25.52	27.0	0.0

Part27Q_n78_Ant 21							
RW (MHz)	Modulation	RB Size	RB Offset	Power Level / Ch / Freq	Power Level / Ch / Freq	Power Level / Ch / Freq	MPR (dB)
	Channel						
	Frequency (MHz)	1	1	3469.58	6333.32	6333.32	
100	P12 BPSK	1	1	20.63			
100	P12 BPSK	1	137	20.64		22.0	0.0
100	P12 BPSK	1	271	20.64			
100	P12 BPSK	136	0	20.51		22.0	0.0
100	P12 BPSK	136	69	20.61		22.0	0.0
100	P12 BPSK	136	136	20.61		22.0	0.0
100	P12 BPSK	270	0	20.52			
100	QPSK	1	1	20.70			
100	QPSK	1	137	20.64		22.0	0.0
100	QPSK	1	271	20.62			
100	QPSK	136	0	20.58		22.0	0.0
100	QPSK	136	69	20.68		22.0	0.0
100	QPSK	136	136	20.65		22.0	0.0
100	QPSK	270	0	20.65		22.0	0.0
100	16QAM	1	1	20.58		22.0	0.0
100	64QAM	1	1	20.42		21.0	0.0
100	256QAM	1	1	19.54		21.0	1.0
	Channel			633000	633332	633096	
	Frequency (MHz)			3469.58	3469.58	3469.58	
50	QPSK	1	1	20.52	20.55	20.52	
	Channel			632668	633332	634000	
	Frequency (MHz)			3469.02	3469.58	3469.02	
80	QPSK	1	1	20.59	20.55	20.53	
	Channel			632384	633332	633432	
	Frequency (MHz)			3468.01	3469.58	3471.08	
70	QPSK	1	1	20.52	20.53	20.51	
	Channel			632000	633332	633768	
	Frequency (MHz)			3460	3469.58	3469.58	
60	QPSK	1	1	20.56	20.58	20.54	
	Channel			631656	633332	635000	
	Frequency (MHz)			3475.02	3469.58	3492	
50	QPSK	1	1	20.62	20.53	20.54	
	Channel			631324	633332	636332	
	Frequency (MHz)			3470.81	3469.58	3498.84	
40	QPSK	1	1	20.64	20.59	20.52	
	Channel			631000	633332	636666	
	Frequency (MHz)			3480	3469.58	3434.59	
30	QPSK	1	1	20.52	20.46	20.60	
	Channel			630684	633332	636932	
	Frequency (MHz)			3462.51	3469.58	3537.49	
25	QPSK	1	1	20.62	20.55	20.56	
	Channel			630360	633332	637000	
	Frequency (MHz)			3460.02	3469.58	3540	
20	QPSK	1	1	20.51	20.62	20.51	
	Channel			630000	633332	638166	
	Frequency (MHz)			3457.81	3469.58	3462.69	
15	QPSK	1	1	20.64	20.59	20.61	
	Channel			630334	633332	638700	
	Frequency (MHz)			3463.52	3469.58	3463.52	
10	QPSK	1	1	20.62	20.55	20.51	

Part27Q_n78_HPUE_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Loss Co./ Freq	Power Loss Co./ Freq 633332	Power High Co./ Freq 633332	Power High Co./ Freq 633332	Time-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	P2Z BPSK	1	0	22.58					
100	P2Z BPSK	1	137	22.61				24.0	0.0
100	P2Z BPSK	1	1	22.67					
100	P2Z BPSK	135	0	22.61				23.5	0.0
100	P2Z BPSK	135	69	22.67				24.0	0.0
100	P2Z BPSK	135	138	22.15				23.5	0.5
100	P2Z BPSK	270	0	22.67					
100	QPSK	1	0	22.65					
100	QPSK	1	137	22.65				24.0	0.0
100	QPSK	1	1	22.71					
100	QPSK	135	0	22.58					
100	QPSK	135	69	22.65				24.0	0.0
100	QPSK	135	138	21.63					
100	QPSK	270	0	21.54				23.5	1.8
100	16QAM	1	1	21.45				23.0	1.0
100	64QAM	1	1	20.42				22.0	2.9
100	256QAM	1	1	18.54				21.0	3.9
Channel									
Frequency (MHz)									
6333000				633332	633366			Time-up limit (dBm)	MPR (dB)
3465	3469.88	3469.88							
80	QPSK	1	1	22.84	22.60	22.57	24.0		
Channel									
634068	633332	634000						Time-up limit (dBm)	MPR (dB)
3472.52	3472.52	3472.52							
80	QPSK	1	1	22.63	22.57	22.60	24.0		
Channel									
632334	633332	634332						Time-up limit (dBm)	MPR (dB)
3485.01	3489.98	3414.98							
70	QPSK	1	1	22.58	22.54	22.62	24.0	0.0	
Channel									
637000	633332	637000						Time-up limit (dBm)	MPR (dB)
3480	3489.98	3419.98							
60	QPSK	1	1	22.58	22.59	22.59	24.0	0.0	
Channel									
637000	633332	638000						Time-up limit (dBm)	MPR (dB)
3474.50	3489.98								
50	QPSK	1	1	22.66	22.54	22.61	24.0	0.0	
Channel									
631134	633332	635332						Time-up limit (dBm)	MPR (dB)
3481.51	3489.98								
40	QPSK	1	1	22.66	22.55	22.53	24.0	0.0	
Channel									
631000	633332	635666						Time-up limit (dBm)	MPR (dB)
3465	3469.88	3434.99							
30	QPSK	1	1	22.85	22.63	22.62	24.0	0.0	
Channel									
636834	633332	636832						Time-up limit (dBm)	MPR (dB)
3482.51	3489.98								
25	QPSK	1	1	22.67	22.62	22.59	24.0	0.0	
Channel									
635950	633332	635950						Time-up limit (dBm)	MPR (dB)
3460.92	3469.98								
20	QPSK	1	1	22.58	22.56	22.55	24.0	0.0	
Channel									
635950	633332	636186						Time-up limit (dBm)	MPR (dB)
3449.54	3469.98								
15	QPSK	1	1	22.82	22.60	22.53	24.0	0.0	
Channel									
633934	633332	636332						Time-up limit (dBm)	MPR (dB)
3482.01	3489.98								
10	QPSK	1	1	22.90	22.65	22.61	24.0	0.0	

Part270_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.47	3750		22.0	0.0	
100	PI2 BPSK	1	137	20.48					
100	PI2 BPSK	1	271	20.52					
100	PI2 BPSK	135	0	20.44			22.0	0.0	
100	PI2 BPSK	135	69	20.49			22.0	0.0	
100	PI2 BPSK	135	135	20.56			22.0	0.0	
100	PI2 BPSK	270	0	20.48			22.0	0.0	
100	QPSK	1	1	20.60					
100	QPSK	1	137	20.48					
100	QPSK	1	271	20.55			22.0	0.0	
100	QPSK	135	0	20.53					
100	QPSK	135	69	20.58					
100	QPSK	135	135	20.51			22.0	0.0	
100	QPSK	270	0	20.56			22.0	0.0	
100	16QAM	1	1	20.45			22.0	0.0	
100	64QAM	1	1	20.27			22.0	0.0	
100	256QAM	1	1	19.35			21.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.46	20.50	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.55	20.57	20.55	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.56	20.53	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.53	20.46	20.53	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.50	20.56	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.54	20.45	20.53	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.58	20.52	20.52	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.46	20.57	20.47	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.46	20.49	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.54	20.56	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.46	20.54	20.56	22.0	0.0	

Part270_n78_HPUe_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.09	3750		24.0	0.0	
100	PI2 BPSK	1	137	22.47					
100	PI2 BPSK	1	271	22.28					
100	PI2 BPSK	135	0	21.86			23.5	0.5	
100	PI2 BPSK	135	69	22.56			24.0	0.0	
100	PI2 BPSK	135	135	21.98			23.5	0.5	
100	PI2 BPSK	270	0	21.87			24.0	0.0	
100	QPSK	1	1	22.56					
100	QPSK	1	137	22.46					
100	QPSK	1	271	22.38			24.0	0.0	
100	QPSK	135	0	21.38					
100	QPSK	135	69	22.55					
100	QPSK	135	135	21.54			23.0	1.0	
100	QPSK	270	0	21.41			23.0	1.0	
100	16QAM	1	1	21.23			22.0	2.0	
100	64QAM	1	1	20.27			22.0	2.0	
100	256QAM	1	1	19.35			21.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.40	22.41	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.47	22.43	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.43	22.49	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.42	22.45	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.38	22.51	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.46	22.47	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.42	22.45	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.44	22.43	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.43	22.45	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.48	22.46	22.48	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.48	22.47	22.46	24.0	0.0	

Part27Q_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.17			22.0	0.0	
100	PI2 BPSK	1	137	20.26					
100	PI2 BPSK	1	271	20.28					
100	PI2 BPSK	135	0	20.23			22.0	0.0	
100	PI2 BPSK	135	69	20.24			22.0	0.0	
100	PI2 BPSK	135	135	20.18			22.0	0.0	
100	PI2 BPSK	270	0	20.27			22.0	0.0	
100	QPSK	1	1	20.33					
100	QPSK	1	137	20.23					
100	QPSK	1	271	20.17			22.0	0.0	
100	QPSK	135	0	20.21					
100	QPSK	135	69	20.31					
100	QPSK	135	135	20.29			22.0	0.0	
100	QPSK	270	0	20.30			22.0	0.0	
100	16QAM	1	1	20.22			22.0	0.0	
100	64QAM	1	1	19.97			21.5	0.5	
100	256QAM	1	1	19.11			21.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.27	20.28	20.18	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.23	20.24	20.30	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.18	20.27	20.26	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.16	20.21	20.16	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.29	20.21	20.17	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.29	20.29	20.20	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.20	20.20	20.25	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.20	20.22	20.24	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.28	20.17	20.17	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.28	20.17	20.18	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.28	20.16	20.25	22.0	0.0	

Part27Q_n78_HPUE_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	22.14	3469.98		24.0	0.0	
100	Pl2 BPSK	1	137	22.18					
100	Pl2 BPSK	1	271	22.17					
100	Pl2 BPSK	135	0	21.67			23.5	0.5	
100	Pl2 BPSK	135	69	22.23			24.0	0.0	
100	Pl2 BPSK	135	135	21.69			23.5	0.5	
100	Pl2 BPSK	270	0	21.66					
100	QPSK	1	1	22.29					
100	QPSK	1	137	22.24			24.0	0.0	
100	QPSK	1	271	22.25					
100	QPSK	135	0	21.19					
100	QPSK	135	69	22.26			24.0	0.0	
100	QPSK	135	135	21.21					
100	QPSK	270	0	21.16					
100	16QAM	1	1	20.30			22.5	1.5	
100	64QAM	1	1	19.97			21.5	2.5	
100	256QAM	1	1	19.11			21.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.16	3469.98	3504.98	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.24	3469.98	3510	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.15	3469.98	3511.99	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.21	3469.98	3544.98	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.16	3469.98	3525	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.21	3469.98	3544.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.25	3469.98	3534.98	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.15	3469.98	3544.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.19	3469.98	3542.49	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.15	3469.98	3544.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.24	3469.98	3544.98	24.0	0.0	

Part27O_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	20.28			22.0	0.0	
100	Pl2 BPSK	1	137	20.36					
100	Pl2 BPSK	1	271	20.36					
100	Pl2 BPSK	135	0	20.25			22.0	0.0	
100	Pl2 BPSK	135	69	20.35			22.0	0.0	
100	Pl2 BPSK	135	135	20.24			22.0	0.0	
100	Pl2 BPSK	270	0	20.30					
100	QPSK	1	1	20.40					
100	QPSK	1	137	20.23			22.0	0.0	
100	QPSK	1	271	20.29					
100	QPSK	135	0	20.35					
100	QPSK	135	69	20.38			22.0	0.0	
100	QPSK	135	135	20.36					
100	QPSK	270	0	20.36					
100	16QAM	1	1	20.26			22.0	0.0	
100	64QAM	1	1	19.87			21.5	0.5	
100	256QAM	1	1	19.07			21.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.25	3760	3764.98	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.32	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.27	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.29	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.26	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.28	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.34	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.35	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.32	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.33	3760	3769.98	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.24	3760	3769.98	22.0	0.0	

Part27O_n78_HPUE_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	22.09			24.0	0.0	
100	Pl2 BPSK	1	137	22.14					
100	Pl2 BPSK	1	271	22.33					
100	Pl2 BPSK	135	0	21.78			23.5	0.5	
100	Pl2 BPSK	135	69	22.26			24.0	0.0	
100	Pl2 BPSK	135	135	21.73			23.5	0.5	
100	Pl2 BPSK	270	0	21.25					
100	QPSK	1	1	22.38					
100	QPSK	1	137	22.24			24.0	0.0	
100	QPSK	1	271	22.33					
100	QPSK	135	0	21.34					
100	QPSK	135	69	22.25			24.0	0.0	
100	QPSK	135	135	21.26					
100	QPSK	270	0	21.25					
100	16QAM	1	1	20.89			22.5	1.5	
100	64QAM	1	1	19.87			21.5	2.5	
100	256QAM	1	1	19.07			21.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.31	3760	3764.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.30	3760	3769.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.23	3760	3765	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.23	3760	3769.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.22	3760	3768.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.21	3760	3767.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.20	3760	3766.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.19	3760	3765.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.18	3760	3764.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.17	3760	3763.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.16	3760	3762.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.15	3760	3761.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.14	3760	3760.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.13	3760	3759.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.12	3760	3758.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.11	3760	3757.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.10	3760	3756.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.09	3760	3755.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.08	3760	3754.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.07	3760	3753.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.06	3760	3752.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.05	3760	3751.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.04	3760	3750.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.03	3760	3749.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.02	3760	3748.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.01	3760	3747.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	22.00	3760	3746.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.99	3760	3745.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.98	3760	3744.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.97	3760	3743.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.96	3760	3742.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.95	3760	3741.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.94	3760	3740.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.93	3760	3739.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.92	3760	3738.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.91	3760	3737.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.90	3760	3736.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.89	3760	3735.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.88	3760	3734.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.87	3760	3733.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.86	3760	3732.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.85	3760	3731.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.84	3760	3730.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.83	3760	3729.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.82	3760	3728.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.81	3760	3727.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.80	3760	3726.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.79	3760	3725.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.78	3760	3724.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.77	3760	3723.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.76	3760	3722.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.75	3760	3721.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.74	3760	3720.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.73	3760	3719.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.72	3760	3718.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.71	3760	3717.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.70	3760	3716.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.69	3760	3715.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.68	3760	3714.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.67	3760	3713.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.66	3760	3712.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.65	3760	3711.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.64	3760	3710.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.63	3760	3709.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.62	3760	3708.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.61	3760	3707.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.60	3760	3706.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.59	3760	3705.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.58	3760	3704.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.57	3760	3703.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.56	3760	3702.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.55	3760	3701.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.54	3760	3700.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.53	3760	3699.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.52	3760	3698.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.51	3760	3697.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.50	3760	3696.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.49	3760	3695.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.48	3760	3694.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.47	3760	3693.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.46	3760	3692.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.45	3760	3691.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.44	3760	3690.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.43	3760	3689.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.42	3760	3688.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.41	3760	3687.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.40	3760	3686.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.39	3760	3685.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.38	3760	3684.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.37	3760	3683.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.36	3760	3682.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.35	3760	3681.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.34	3760	3680.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.33	3760	3679.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.32	3760	3678.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.31	3760	3677.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.30	3760	3676.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.29	3760	3675.98	Tune-up limit	MPR	(dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1	21.28	3760	3674.98	Tune-up limit	MPR	(dB)

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				15.14	15.01	15.00			
20	PlZ BPSK	1	1	15.04	15.01	14.99	16.8	0.0	
20	PlZ BPSK	1	53	15.04	15.01	14.99	16.8	0.0	
20	PlZ BPSK	1	104	15.11	15.12	15.11	16.8	0.0	
20	PlZ BPSK	50	0	15.12	15.05	15.05	16.8	0.0	
20	PlZ BPSK	50	28	15.07	15.14	15.08	16.8	0.0	
20	PlZ BPSK	50	56	15.13	15.04	15.05	16.8	0.0	
20	PlZ BPSK	100	0	15.02	15.07	15.00	16.8	0.0	
20	QPSK	1	1	15.17	15.18	15.15	16.8	0.0	
20	QPSK	1	53	15.00	15.08	15.02	16.8	0.0	
20	QPSK	1	104	15.07	15.12	15.00	16.8	0.0	
20	QPSK	50	0	15.13	15.05	15.02	16.8	0.0	
20	QPSK	50	28	15.15	15.16	15.13	16.8	0.0	
20	QPSK	50	56	15.00	15.05	15.03	16.8	0.0	
20	QPSK	100	0	15.13	15.15	15.11	16.8	0.0	
20	16QAM	1	1	15.10	15.11	15.00	16.8	0.0	
20	64QAM	1	1	15.11	15.04	14.99	16.8	0.0	
20	256QAM	1	1	15.13	15.02	15.09	16.8	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1892.5			
15	QPSK	1	1	15.10	15.01	15.03	16.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	15.14	15.13	15.12	16.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
5	QPSK	1	1	15.05	15.02	15.10	16.8	0.0	

Reduced Power Mode for ECI 2&3									
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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				23.81	23.84	23.89			
20	PlZ BPSK	1	1	23.77	23.77	23.80	25.3	0.0	
20	PlZ BPSK	1	53	23.77	23.77	23.80	25.3	0.0	
20	PlZ BPSK	1	104	23.78	23.79	23.85	25.3	0.0	
20	PlZ BPSK	50	0	23.28	23.31	23.14	24.8	0.5	
20	PlZ BPSK	50	28	23.75	23.79	23.82	25.3	0.0	
20	PlZ BPSK	50	56	23.28	23.30	23.13	24.8	0.5	
20	PlZ BPSK	100	0	23.24	23.27	23.14	24.8	0.5	
20	QPSK	1	1	23.84	23.89	23.77	25.3	0.0	
20	QPSK	1	53	23.80	23.81	23.84	25.3	0.0	
20	QPSK	1	104	23.79	23.84	23.71	25.3	0.0	
20	QPSK	50	0	22.80	22.84	22.71	24.3	1.0	
20	QPSK	50	28	23.81	23.83	23.88	25.3	0.0	
20	QPSK	50	56	22.78	22.81	22.65	24.3	1.0	
20	QPSK	100	0	22.75	22.80	22.67	24.3	1.0	
20	16QAM	1	1	22.58	22.60	22.45	24.3	1.0	
20	64QAM	1	1	21.61	21.64	21.52	22.8	2.5	
20	256QAM	1	1	20.72	20.77	20.64	21.8	3.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1892.5			
15	QPSK	1	1	23.78	23.78	23.72	25.3	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	23.76	23.83	23.72	25.3	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
5	QPSK	1	1	23.73	23.77	23.69	25.3	0.0	

n2_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				21.54	21.61	21.51			
20	PlZ BPSK	1	1	21.56	21.56	21.52	23.0	0.0	
20	PlZ BPSK	1	53	21.56	21.56	21.52	23.0	0.0	
20	PlZ BPSK	1	104	21.51	21.63	21.55	23.0	0.0	
20	PlZ BPSK	50	0	21.54	21.62	21.55	23.0	0.0	
20	PlZ BPSK	50	28	21.50	21.53	21.60	23.0	0.0	
20	PlZ BPSK	50	56	21.60	21.56	21.58	23.0	0.0	
20	PlZ BPSK	100	0	21.51	21.59	21.59	23.0	0.0	
20	QPSK	1	1	21.66	21.68	21.65	23.0	0.0	
20	QPSK	1	53	21.51	21.63	21.52	23.0	0.0	
20	QPSK	1	104	21.61	21.61	21.51	23.0	0.0	
20	QPSK	50	0	21.61	21.52	21.54	23.0	0.0	
20	QPSK	50	28	21.65	21.66	21.63	23.0	0.0	
20	QPSK	50	56	21.59	21.58	21.52	23.0	0.0	
20	QPSK	100	0	21.61	21.63	21.60	23.0	0.0	
20	16QAM	1	1	21.59	21.65	21.60	23.0	0.0	
20	64QAM	1	1	20.98	21.00	20.96	22.0	1.0	
20	256QAM	1	1	20.03	20.06	20.01	21.0	2.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1892.5			
15	QPSK	1	1	21.55	21.63	21.57	23.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	21.50	21.60	21.53	23.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
5	QPSK	1	1	21.50	21.58	21.52	23.0	0.0	

n5_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	MPR (dB)
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	20.58	20.62	20.60	0.0
20	PI2 BPSK	1	53	20.57	20.59	20.63	
20	PI2 BPSK	1	104	20.67	20.68	20.53	
20	PI2 BPSK	50	0	20.62	20.60	20.59	
20	PI2 BPSK	50	28	20.55	20.60	20.57	0.0
20	PI2 BPSK	50	56	20.58	20.62	20.63	0.0
20	PI2 BPSK	100	0	20.65	20.58	20.52	
20	QPSK	1	1	20.70	20.72	20.68	0.0
20	QPSK	1	53	20.56	20.62	20.58	
20	QPSK	1	104	20.64	20.57	20.53	
20	QPSK	50	0	20.61	20.63	20.65	
20	QPSK	50	28	20.69	20.70	20.67	0.0
20	QPSK	50	56	20.55	20.66	20.58	0.0
20	QPSK	100	0	20.65	20.65	20.65	
20	16QAM	1	1	20.63	20.56	20.57	0.0
20	64QAM	1	1	20.63	20.62	20.56	0.0
20	256QAM	1	1	20.55	20.56	20.53	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.59	20.58	20.62	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.57	20.66	20.64	0.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	20.60	20.68	20.61	0.0

n5_Ant 31							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	MPR (dB)
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	23.95	23.98	23.95	0.0
20	PI2 BPSK	1	53	23.96	24.00	23.98	
20	PI2 BPSK	1	104	23.95	23.99	23.98	
20	PI2 BPSK	50	0	23.46	23.49	23.48	
20	PI2 BPSK	50	28	23.91	23.97	23.93	0.0
20	PI2 BPSK	50	56	23.31	23.37	23.35	0.5
20	PI2 BPSK	100	0	23.41	23.44	23.43	
20	QPSK	1	1	24.09	24.07	24.02	0.0
20	QPSK	1	53	24.03	24.06	24.00	
20	QPSK	1	104	24.03	24.05	24.01	
20	QPSK	50	0	22.97	23.01	23.00	
20	QPSK	50	28	23.97	24.01	24.00	0.0
20	QPSK	50	56	22.86	22.82	22.90	1.0
20	QPSK	100	0	22.95	22.98	22.97	
20	16QAM	1	1	22.73	22.74	22.73	1.0
20	64QAM	1	1	21.79	21.85	21.83	2.5
20	256QAM	1	1	20.91	20.93	20.92	3.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.99	23.93	23.90	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.00	24.02	23.88	0.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.98	23.93	23.88	0.0

n7_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505500	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 508000	MPR (dB)
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	16.85	16.91	16.90	0.0
50	PI2 BPSK	1	156	16.82	16.83	16.92	
50	PI2 BPSK	1	288	16.85	16.88	16.87	
50	PI2 BPSK	136	0	16.93	16.95	16.83	
50	PI2 BPSK	136	68	16.93	16.95	16.80	0.0
50	PI2 BPSK	136	135	16.93	16.81	16.91	0.0
50	PI2 BPSK	270	0	16.93	16.94	16.81	
50	QPSK	1	1	16.96	16.98	16.92	0.0
50	QPSK	1	135	16.85	16.84	16.82	
50	QPSK	1	288	16.84	16.86	16.91	
50	QPSK	136	0	16.90	16.89	16.81	
50	QPSK	136	68	16.95	16.96	16.93	0.0
50	QPSK	136	135	16.87	16.90	16.90	0.0
50	QPSK	270	0	16.93	16.95	16.91	
50	16QAM	1	1	16.87	16.83	16.86	0.0
50	64QAM	1	1	16.94	16.88	16.92	0.0
50	256QAM	1	1	16.84	16.84	16.85	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.66	16.71	16.69	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.65	16.69	16.75	0.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	16.69	16.71	16.68	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.70	16.76	16.72	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.71	16.70	16.65	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.65	16.79	16.66	0.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	16.72	16.76	16.66	0.0

n7_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 505000	Power Middle Ch. Freq. 507000	Power High Ch. Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PlZ BPSK	1	1	23.89	24.01	23.99	25.0	0.0	
50	PlZ BPSK	1	135	24.02	24.13	24.11			
50	PlZ BPSK	1	268	23.94	24.03	24.01			
50	PlZ BPSK	135	0	23.60	23.68	23.67	24.5	0.5	
50	PlZ BPSK	135	68	23.93	24.06	24.02	25.0	0.0	
50	PlZ BPSK	135	135	23.55	23.68	23.66	24.5	0.5	
50	PlZ BPSK	270	0	23.52	23.64	23.60			
50	QPSK	1	1	24.04	24.13	24.12	25.0	0.0	
50	QPSK	1	135	23.99	24.12	24.11			
50	QPSK	1	268	23.96	24.06	24.07			
50	QPSK	135	0	23.08	23.20	23.21	24.0	1.0	
50	QPSK	135	68	24.01	24.11	24.09	25.0	0.0	
50	QPSK	135	135	23.04	23.17	23.16	24.0	1.0	
50	QPSK	270	0	22.99	23.10	23.09			
50	16QAM	1	1	22.83	22.76	22.74	24.0	1.0	
50	64QAM	1	1	21.84	21.75	21.71	22.5	2.5	
50	256QAM	1	1	20.71	20.81	20.86	21.5	3.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.89	24.00	24.00	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.93	23.98	24.06	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.92	24.05	24.00	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.92	24.07	24.06	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.94	24.04	23.98	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.92	24.01	23.98	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.93	24.04	24.07	25.0	0.0	

n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 505000	Power Middle Ch. F Freq. 507000	Power High Ch. F Freq. 509000	Tune-up limit (dbm)	MPR (db)	
Channel				2525	2535	2545			
Frequency (MHz)									
50	PlZ BPSK	1	1	19.12	19.12	19.03	20.5	0.0	
50	PlZ BPSK	1	135	19.09	19.16	19.10			
50	PlZ BPSK	1	268	19.10	19.14	19.13			
50	PlZ BPSK	135	0	19.15	19.12	19.00	20.5	0.0	
50	PlZ BPSK	135	68	19.07	19.13	19.13	20.5	0.0	
50	PlZ BPSK	135	135	19.10	19.10	19.03	20.5	0.0	
50	PlZ BPSK	270	0	19.08	19.15	19.06			
50	QPSK	1	1	19.15	19.20	19.17	20.5	0.0	
50	QPSK	1	135	19.13	19.06	19.01			
50	QPSK	1	268	19.05	19.16	19.09			
50	QPSK	135	0	19.12	19.10	19.07	20.5	0.0	
50	QPSK	135	68	19.16	19.18	19.15	20.5	0.0	
50	QPSK	135	135	19.09	19.17	19.13	20.5	0.0	
50	QPSK	270	0	19.15	19.16	19.13			
50	16QAM	1	1	19.10	19.05	19.10	20.5	0.0	
50	64QAM	1	1	19.09	19.13	19.06	20.5	0.0	
50	256QAM	1	1	19.03	19.14	19.11	20.5	0.0	
Channel				505000	507000	510000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
40	QPSK	1	1	19.01	19.11	19.10	20.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
30	QPSK	1	1	19.01	19.11	19.14	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
25	QPSK	1	1	19.07	19.03	19.10	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
20	QPSK	1	1	19.08	19.16	19.02	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
15	QPSK	1	1	19.01	19.08	19.08	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
10	QPSK	1	1	19.01	19.17	19.11	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
5	QPSK	1	1	19.08	19.09	19.13	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 164800	Power Middle Ch. / Freq. 165300	Power High Ch. / Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel				824	831.5	839			
Frequency (MHz)									
20	PlZ BPSK	1	1	20.64	20.66	20.69			
20	PlZ BPSK	1	53	20.68	20.61	20.55	22.0	0.0	
20	PlZ BPSK	1	104	20.56	20.66	20.59			
20	PlZ BPSK	50	0	20.56	20.67	20.64	22.0	0.0	
20	PlZ BPSK	50	28	20.69	20.60	20.58	22.0	0.0	
20	PlZ BPSK	50	66	20.59	20.66	20.62	22.0	0.0	
20	PlZ BPSK	100	0	20.59	20.64	20.64			
20	QPSK	1	1	20.73	20.75	20.71	22.0	0.0	
20	QPSK	1	53	20.69	20.58	20.67	22.0	0.0	
20	QPSK	1	104	20.67	20.63	20.63			
20	QPSK	50	0	20.69	20.72	20.64	22.0	0.0	
20	QPSK	50	28	20.71	20.73	20.70	22.0	0.0	
20	QPSK	50	66	20.60	20.58	20.58	22.0	0.0	
20	QPSK	100	0	20.70	20.71	20.68			
20	16QAM	1	1	20.61	20.66	20.68	22.0	0.0	
20	64QAM	1	1	20.70	20.69	20.66	22.0	0.0	
20	256QAM	1	1	20.53	20.55	20.51	21.5	0.5	
Channel				164800	165300	165800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	20.68	20.65	20.55	22.0	0.0	
Channel				163800	165300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	20.61	20.58	20.60	22.0	0.0	
Channel				163300	165300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	20.65	20.70	20.56	22.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16400	Power Middle Ch. / Freq. 16600	Power High Ch. / Freq. 167600	Tune-up limit (dBm)	MPR (dB)
Channel				834	831.5	836		
Frequency (MHz)								
20	P12 BPSK	1	1	23.94	23.97	23.92		
20	P12 BPSK	1	13	24.02	24.03	24.00	25.5	0.0
20	P12 BPSK	1	104	24.00	24.02	23.98		
20	P12 BPSK	50	0	23.54	23.56	23.51	25.0	0.5
20	P12 BPSK	50	28	24.03	24.04	23.98	25.5	0.0
20	P12 BPSK	50	56	23.48	23.53	23.48	25.0	0.5
20	P12 BPSK	100	0	23.50	23.54	23.48		
20	QPSK	1	1	24.04	24.08	24.04	25.5	0.0
20	QPSK	1	13	23.98	24.03	23.98		
20	QPSK	1	104	23.98	24.03	23.98		
20	QPSK	50	0	23.05	23.14	23.08	24.5	1.0
20	QPSK	50	28	24.02	24.05	24.02	25.5	0.0
20	QPSK	50	56	23.10	23.14	23.07	24.5	1.0
20	QPSK	100	0	23.05	23.10	23.08		
20	16QAM	1	1	22.77	22.77	22.75	24.5	1.0
20	64QAM	1	1	21.87	21.87	21.84	23.0	2.5
20	256QAM	1	1	20.88	20.93	20.86	22.0	3.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	841.5		
15	QPSK	1	1	23.94	24.00	23.92	25.5	0.0
Channel				165300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.94	23.91	23.90	25.5	0.0
Channel				165300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.99	23.93	23.97	25.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350500	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760		
Frequency (MHz)								
40	P12 BPSK	1	1	15.76	15.85	15.83		
40	P12 BPSK	1	108	15.88	15.83	15.75	17.3	0.0
40	P12 BPSK	1	214	15.88	15.89	15.85		
40	P12 BPSK	108	0	15.80	15.89	15.83	17.3	0.0
40	P12 BPSK	108	54	15.84	15.89	15.81	17.3	0.0
40	P12 BPSK	108	108	15.81	15.89	15.82	17.3	0.0
40	P12 BPSK	216	0	15.86	15.83	15.76		
40	QPSK	1	1	15.93	15.95	15.91		
40	QPSK	1	108	15.89	15.83	15.88	17.3	0.0
40	QPSK	1	214	15.84	15.82	15.75		
40	QPSK	108	0	15.90	15.84	15.79	17.3	0.0
40	QPSK	108	54	15.91	15.93	15.90	17.3	0.0
40	QPSK	108	108	15.82	15.88	15.89	17.3	0.0
40	QPSK	216	0	15.80	15.81	15.89		
40	16QAM	1	1	15.87	15.84	15.88	17.3	0.0
40	64QAM	1	1	15.80	15.80	15.89	17.3	0.0
40	256QAM	1	1	15.62	15.85	15.84	17.3	0.0
Channel				346000	349000	350500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.68	15.82	15.81	17.3	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	15.64	15.79	15.89	17.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.78	15.83	15.82	17.3	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.83	15.87	15.89	17.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.85	15.90	15.89	17.3	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.78	15.79	15.80	17.3	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350500	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760		
Frequency (MHz)								
40	P12 BPSK	1	1	23.99	24.08	24.07		
40	P12 BPSK	1	108	24.04	24.14	24.13	25.3	0.0
40	P12 BPSK	1	214	23.92	23.99	23.99		
40	P12 BPSK	108	0	23.46	23.57	23.57	24.8	0.5
40	P12 BPSK	108	54	23.97	24.08	24.09	25.3	0.0
40	P12 BPSK	108	108	23.39	23.49	23.45	24.8	0.5
40	P12 BPSK	216	0	23.51	23.58	23.60		
40	QPSK	1	1	24.11	24.17	24.15		
40	QPSK	1	108	24.04	24.12	24.10	25.3	0.0
40	QPSK	1	214	23.85	24.04	24.02		
40	QPSK	108	0	23.07	23.14	23.13	24.3	1.0
40	QPSK	108	54	24.05	24.13	24.10	25.3	0.0
40	QPSK	108	108	22.97	23.03	23.08	24.3	1.0
40	QPSK	216	0	22.97	23.05	23.03		
40	16QAM	1	1	22.72	22.81	22.80	24.3	1.0
40	64QAM	1	1	21.79	21.88	21.86	22.8	2.5
40	256QAM	1	1	20.89	20.99	20.98	21.8	3.5
Channel				346000	349000	350500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.98	24.10	24.00	25.3	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.97	24.06	24.02	25.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.04	24.04	24.10	25.3	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.03	24.04	24.08	25.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.02	24.09	24.09	25.3	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.01	24.12	24.05	25.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 346000	Power Middle Ch. F. Freq. 349000	Power High Ch. F. Freq. 352000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	21.3	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.97	20.09	19.96		
40	PI2 BPSK	1	108	19.96	20.09	19.95		
40	PI2 BPSK	1	214	20.02	20.05	19.95	21.3	0.0
40	PI2 BPSK	108	0	20.01	20.02	19.99		
40	PI2 BPSK	108	54	20.03	20.09	19.98		
40	PI2 BPSK	108	108	20.07	20.07	20.03		
40	PI2 BPSK	216	0	20.03	20.04	20.05	21.3	0.0
40	QPSK	1	1	20.13	20.15	20.11		
40	QPSK	1	108	20.08	20.05	19.97		
40	QPSK	1	214	19.98	20.12	20.01		
40	QPSK	108	0	19.98	20.01	20.07	21.3	0.0
40	QPSK	108	54	20.11	20.13	20.10		
40	QPSK	108	108	20.05	20.05	19.98		
40	QPSK	216	0	20.10	20.11	20.08		
40	16QAM	1	1	19.98	19.99	19.99	21.3	0.0
40	64QAM	1	1	19.99	20.01	20.03		
40	256QAM	1	1	20.04	19.98	19.96		
Channel				345000	348000	351000		
Frequency (MHz)				1725	1745	1765	21.3	0.0
30	QPSK	1	1	19.97	19.99	19.96		
Channel				344000	349000	354000		
Frequency (MHz)				1722.5	1745	1767.5	21.3	0.0
25	QPSK	1	1	20.06	20.00	20.05		
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770	21.3	0.0
20	QPSK	1	1	20.01	20.06	19.96		
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5	21.3	0.0
15	QPSK	1	1	20.03	19.98	20.04		
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775	21.3	0.0
10	QPSK	1	1	20.01	20.04	20.01		
Channel				342000	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	21.3	0.0
5	QPSK	1	1	20.09	20.07	20.06		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 519004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 518996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	15.61	15.60	15.54	17.3	0.0	
40	Pl2 BPSK	1	53	15.63	15.57	15.54			
40	Pl2 BPSK	1	104	15.60	15.62	15.62			
40	Pl2 BPSK	50	0	15.57	15.53	15.63	17.3	0.0	
40	Pl2 BPSK	50	28	15.64	15.61	15.60	17.3	0.0	
40	Pl2 BPSK	50	86	15.59	15.63	15.57	17.3	0.0	
40	Pl2 BPSK	100	0	15.65	15.65	15.55			
40	QPSK	1	1	15.69	15.70	15.66			
40	QPSK	1	53	15.61	15.58	15.54	17.3	0.0	
40	QPSK	1	104	15.55	15.60	15.64			
40	QPSK	50	0	15.62	15.62	15.58			
40	QPSK	50	28	15.69	15.68	15.65	17.3	0.0	
40	QPSK	50	86	15.54	15.55	15.53	17.3	0.0	
40	QPSK	100	0	15.65	15.66	15.63			
40	16QAM	1	1	15.54	15.66	15.60	17.3	0.0	
40	64QAM	1	1	15.62	15.62	15.64	17.3	0.0	
40	256QAM	1	1	15.65	15.56	15.60	17.3	0.0	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.59	15.63	15.61	17.3	0.0	
Channel									
Frequency (MHz)				2592.5	2595	2597.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	15.65	15.61	15.60	17.3	0.0	
Channel									
Frequency (MHz)				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.65	15.58	15.50	17.3	0.0	
Channel									
Frequency (MHz)				5155.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.64	15.55	15.61	17.3	0.0	
Channel									
Frequency (MHz)				5150.04	5190.00	5229.96	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.59	15.63	15.55	17.3	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 516004	Power Middle Ch. / Freq. 516000	Power High Ch. / Freq. 516996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	23.91	23.95	23.95	25.3	0.0	
40	Pl2 BPSK	1	53	24.01	24.04	24.03			
40	Pl2 BPSK	1	104	23.85	23.91	23.88			
40	Pl2 BPSK	50	0	23.42	23.43	23.42	24.8	0.5	
40	Pl2 BPSK	50	28	23.96	23.97	23.98	25.3	0.0	
40	Pl2 BPSK	50	86	23.36	23.39	23.42	24.8	0.5	
40	Pl2 BPSK	100	0	23.33	23.37	23.38			
40	QPSK	1	1	24.03	24.12	24.11			
40	QPSK	1	53	24.06	24.11	24.09	25.3	0.0	
40	QPSK	1	104	23.94	23.98	23.91			
40	QPSK	50	0	22.93	22.96	22.97	24.3	1.0	
40	QPSK	50	28	23.95	23.98	23.95	25.3	0.0	
40	QPSK	50	86	22.86	22.92	22.89	24.3	1.0	
40	QPSK	100	0	22.94	22.95	22.87			
40	16QAM	1	1	22.85	22.70	22.72	24.3	1.0	
40	64QAM	1	1	21.53	21.58	21.55	22.8	2.5	
40	256QAM	1	1	20.58	20.64	20.66	21.8	3.5	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.98	24.00	24.05	25.3	0.0	
Channel									
Frequency (MHz)				2592.5	2595	2597.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.96	24.03	24.06	25.3	0.0	
Channel									
Frequency (MHz)				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.94	24.04	23.98	25.3	0.0	
Channel									
Frequency (MHz)				5155.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.95	23.97	24.01	25.3	0.0	
Channel									
Frequency (MHz)				5150.04	5190.00	5229.96	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.01	24.04	24.06	25.3	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				5190.02	2595	2599.98			
40	Pl2 BPSK	1	1	18.35	18.40	18.36	20.2	0.0	
40	Pl2 BPSK	1	53	18.35	18.29	18.26			
40	Pl2 BPSK	1	104	18.32	18.32	18.32			
40	Pl2 BPSK	50	0	18.32	18.32	18.35	20.2	0.0	
40	Pl2 BPSK	50	28	18.39	18.40	18.35	20.2	0.0	
40	Pl2 BPSK	50	86	18.35	18.37	18.29	20.2	0.0	
40	Pl2 BPSK	100	0	18.29	18.38	18.33			
40	QPSK	1	1	18.41	18.43	18.40			
40	QPSK	1	53	18.32	18.36	18.35	20.2	0.0	
40	QPSK	1	104	18.36	18.28	18.23			
40	QPSK	50	0	18.35	18.30	18.24	20.2	0.0	
40	QPSK	50	28	18.40	18.41	18.38	20.2	0.0	
40	QPSK	50	56	18.37	18.27	18.26	20.2	0.0	
40	QPSK	100	0	18.38	18.40	18.37			
40	16QAM	1	1	18.28	18.39	18.36	20.2	0.0	
40	64QAM	1	1	18.26	18.29	18.37	20.2	0.0	
40	256QAM	1	1	18.29	18.36	18.36	20.2	0.0	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.25	18.38	18.29	20.2	0.0	
Channel									
Frequency (MHz)				2592.5	2595	2597.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	18.37	18.34	18.35	20.2	0.0	
Channel									
Frequency (MHz)				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.28	18.40	18.27	20.2	0.0	
Channel									
Frequency (MHz)				5155.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.35	18.31	18.32	20.2	0.0	
Channel									
Frequency (MHz)				5150.04	5190.00	5229.96	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.32	18.27	18.27	20.2	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 569602	Power Middle Ch. Freq. 569898	Power High Ch. Freq. 570200	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2P BPSK	12.1	1	16.22	16.27	16.27			
100	P2P BPSK	1	1317	16.36	16.37	16.24	17.5	0.0	
100	P2P BPSK	1.5	0	16.28	16.28	16.25			
100	P2P BPSK	1.5	68	16.35	16.35	16.32	17.5	0.0	
100	P2P BPSK	135	136	16.23	16.24	16.25	17.5	0.0	
100	P2P BPSK	270	0	16.25	16.33	16.30			
100	QPSK	1	1	16.27	16.40	16.30			
100	QPSK	1	1317	16.29	16.32	16.26	17.5	0.0	
100	QPSK	1	271	16.31	16.24	16.25			
100	QPSK	135	0	16.32	16.24	16.21	17.5	0.0	
100	QPSK	135	68	16.37	16.36	16.35	17.5	0.0	
100	QPSK	135	136	16.30	16.30	16.24			
100	QPSK	270	0	16.35	16.36	16.33			
100	16QAM	1	1	16.25	16.28	16.23	17.5	0.0	
100	48QAM	1	1	16.33	16.30	16.27	17.5	0.0	
100	256QAM	1	1	16.29	16.29	16.29	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2541	2692	2694	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	2541	2692	2694	2694	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2536.02	2693.98	2693.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	2536.02	2693.99	2694.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.39	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38	16.30	17.5	0.0	
60	QPSK	1	1	16.29	16.37	16.29	17.5	0.0	
60	QPSK	1	1	16.29	16.38				

n41_HPUE_Ant 13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Power High Freq. 569602	Power Middle Power High Freq. 569608	Power High Power High Freq. 569614	Tune-up limit (dBm)	MPR (dB)
Channel								
100	PQ2 BPSK	1	1	15.22	15.22	15.21		
100	PQ2 BPSK	1	127	16.36	16.37	16.24	17.5	0.0
100	PQ2 BPSK	155	0	16.28	16.28	16.25		
100	PQ2 BPSK	156	0	16.36	16.34	16.25	17.5	0.0
100	PQ2 BPSK	158	138	16.23	16.24	16.25	17.5	0.0
100	PQ2 BPSK	270	0	16.25	16.33	16.30		
100	QPSK	1	1	16.36	16.36	16.36		
100	QPSK	1	137	16.29	16.32	16.26	17.5	0.0
100	QPSK	1	271	16.31	16.24	16.25		
100	QPSK	155	0	16.32	16.24	16.21	17.5	0.0
100	QPSK	156	0	16.36	16.36	16.36		
100	QPSK	158	138	16.30	16.32	16.24	17.5	0.0
100	QPSK	270	0	16.36	16.36	16.33		
100	16QAM	1	1	16.25	16.28	16.23	17.5	0.0
100	16QAM	1	1	16.33	16.29	16.27	17.5	0.0
100	256QAM	1	1	16.29	16.29	16.29	17.5	0.0
Channel								
	Frequency (MHz)			569600	569608	569606	Tune-up limit (dBm)	MPR (dB)
				224	2592	2644	58	0.0
90	QPSK	1	1	16.22	16.32	16.32		
90	QPSK	1	1	16.34	16.35	16.36	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			2636.02	2692.99	2646.99		
80	QPSK	1	1	16.29	16.37	16.29	17.5	0.0
80	QPSK	1	1	16.30	16.30	16.30		
	Frequency (MHz)			2526	2592.99	2659.98		
60	QPSK	1	1	16.29	16.27	16.27	17.5	0.0
60	QPSK	1	1	16.404	16.1696	16.3208	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			2431.01	2465.99	2454.99		
50	QPSK	1	1	16.27	16.32	16.34	17.5	0.0
Channel								
				569502	569608	569400	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.6101	25.62	25.61	Tune-up limit (dBm)	MPR (dB)
Channel								
				562200	569608	569796	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.22	16.29	16.26	17.5	0.0
	Frequency (MHz)			2512.01	2569.99	2614.98		
Channel								
				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.36	16.33	16.33	17.5	0.0
	Frequency (MHz)			560700	569596	569496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.22	16.35	16.33	17.5	0.0
	Channel			569502	569608	569500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.6101	25.62	25.61	Tune-up limit (dBm)	MPR (dB)

n41_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Power	Power Middle Ch. Power	Power High Ch. Power	Time-up limit (dBm)	MPR (dB)	
Channel									
100	P12 BPSK	1	1	2540.01	2592.99	2600.00			
100	P12 BPSK	1	1/37	23.14	23.13	23.14	24.2	0.0	
100	P12 BPSK	1	2/71	23.18	23.13	23.15			
100	P12 BPSK	1	5/69	23.25	23.17	23.13	24.2	0.0	
100	P12 BPSK	1	1/37	23.21	23.18	23.18	24.2	0.0	
100	P12 BPSK	1	1/38	23.24	23.18	23.11	24.2	0.0	
100	P12 BPSK	27/0	0	23.14	23.14	23.23			
100	QPSK	1	1	23.12	23.13	23.22			
100	QPSK	1	1/37	23.22	23.13	23.22	24.2	0.0	
100	QPSK	1	2/71	23.12	23.17	23.18			
100	QPSK	1	5/69	23.24	23.27	23.10	24.2	0.0	
100	QPSK	1	1/38	23.27	23.28	23.10	24.2	0.0	
100	QPSK	27/0	0	23.23	23.25	23.21			
100	16QAM	1	1	23.22	23.25	23.19	24.2	0.0	
100	64QAM	1	1	22.92	22.99	22.99			
100	256QAM	1	1	21.93	22.02	21.84	22.7	1.5	
Channel									
				608200	518608	528996	Time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	2541	2592.99	2644.98	24.2	0.0	
90	QPSK	1	1/37	23.12	23.17	23.22	24.2	0.0	
90	QPSK	1	2/71	23.04	23.08	22.98			
90	QPSK	1	5/69	2592.99	2649.99		Time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1/38	23.12	23.20	23.20	24.2	0.0	
90	QPSK	27/0	0	2592.99	2649.99	2649.99			
90	QPSK	1	1	23.26	23.15	23.18	24.2	0.0	
90	QPSK	1	1	504204	518608	523088	Time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	2592.99	2649.99	2649.99			
50	QPSK	1	1	23.12	23.15	23.18	24.2	0.0	
50	QPSK	1	1	605002	518608	536400	Time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	2516.01	2592.99	2600.00	24.2	0.0	
40	QPSK	1	1	23.13	23.22	23.14	24.2	0.0	
40	QPSK	1	1	502200	518608	534706	Time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	2611	2592.99	2674.98	24.2	0.0	
30	QPSK	1	1	23.19	23.17	23.20	24.2	0.0	
30	QPSK	1	1	23.24	23.15	23.09	24.2	0.0	
20	QPSK	1	1	23.06	22.92	2679.99	24.2	0.0	
20	QPSK	1	1	23.19	23.13	23.12	24.2	0.0	
20	QPSK	1	1	500700	518608	530480	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.15	2592.99	2682.48	24.2	0.0	
15	QPSK	1	1	23.14	23.25	23.22	24.2	0.0	
15	QPSK	1	1	500602	518608	537000	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2503.01	2592.99	2593.00	24.2	0.0	
10	QPSK	1	1	23.13	23.13	23.13	24.2	0.0	

n41_HPUE_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P2 BPSK	1	1	25.14	25.23	25.14				
100	P2 BPSK	1	137	25.21	25.27	25.21	26.2	0.0		
100	P2 BPSK	1	271	25.00	25.08	25.01				
100	P2 BPSK	135	0	24.71	24.77	24.68	25.7	0.0		
100	P2 BPSK	135	69	25.11	25.22	25.16	26.2	0.0		
100	P2 BPSK	135	135	24.63	24.69	24.60	25.7	0.0		
100	P2 BPSK	270	0	24.54	24.65	24.58				
100	QPSK	1	1	25.22	25.28	25.21				
100	QPSK	1	137	25.20	25.27	25.18	26.2	0.0		
100	QPSK	1	271	24.97	25.08	25.02				
100	QPSK	135	0	24.15	24.21	24.10	25.2	1.0		
100	QPSK	135	69	25.09	25.17	25.07	26.2	0.0		
100	QPSK	135	135	24.16	24.17	24.07	25.2	1.0		
100	QPSK	270	0	23.97	24.08	23.97				
100	16QAM	1	1	23.87	23.98	23.80	25.2	1.0		
100	64QAM	1	1	22.82	22.99	22.80	23.7	2.5		
100	256QAM	1	1	21.93	22.02	21.84	22.7	3.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	25.12	25.13	25.12	26.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.16	25.18	25.12	26.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	25.13	25.14	25.08	26.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.10	25.17	25.11	26.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.14	25.20	25.16	26.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.09	25.22	25.13	26.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.17	25.13	25.15	26.2	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.15	25.13	25.12	26.2	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.07	25.13	25.11	26.2	0.0		

n41_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P2 BPSK	1	1	18.82	18.86	18.72				
100	P2 BPSK	1	137	18.79	18.78	18.80	20.2	0.0		
100	P2 BPSK	1	271	18.86	18.80	18.81				
100	P2 BPSK	135	0	18.76	18.82	18.71	20.2	0.0		
100	P2 BPSK	135	69	18.78	18.81	18.72	20.2	0.0		
100	P2 BPSK	135	138	18.85	18.84	18.76	20.2	0.0		
100	P2 BPSK	270	0	18.77	18.85	18.77				
100	QPSK	1	1	18.89	18.90	18.87				
100	QPSK	1	137	18.84	18.80	18.81	20.2	0.0		
100	QPSK	1	271	18.77	18.84	18.77				
100	QPSK	135	0	18.83	18.85	18.82	20.2	0.0		
100	QPSK	135	69	18.87	18.88	18.85	20.2	0.0		
100	QPSK	135	138	18.76	18.83	18.83	20.2	0.0		
100	QPSK	270	0	18.85	18.86	18.83				
100	16QAM	1	1	18.85	18.86	18.75	20.2	0.0		
100	64QAM	1	1	18.81	18.81	18.72	20.2	0.0		
100	256QAM	1	1	18.72	18.81	18.77	20.2	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.76	18.87	18.83	20.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.77	18.80	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.79	18.84	18.81	20.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.72	18.84	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.72	18.74	18.75	20.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.77	18.87	18.72	20.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.73	18.73	18.79	20.2	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.80	18.76	18.79	20.2	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.70	18.83	18.84	20.2	0.0		

n41_HPUE_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P2 BPSK	1	1	18.82	18.86	18.72				
100	P2 BPSK	1	137	18.79	18.78	18.80	20.2	0.0		
100	P2 BPSK	1	271	18.86	18.80	18.81				
100	P2 BPSK	135	0	18.76	18.82	18.71	20.2	0.0		
100	P2 BPSK	135	69	18.78	18.81	18.72	20.2	0.0		
100	P2 BPSK	135	135	18.85	18.84	18.76	20.2	0.0		
100	P2 BPSK	270	0	18.77	18.85	18.77				
100	QPSK	1	1	18.89	18.86	18.87				
100	QPSK	1	137	18.84	18.80	18.81	20.2	0.0		
100	QPSK	1	271	18.77	18.84	18.77				
100	QPSK	135	0	18.83	18.85	18.82	20.2	0.0		
100	QPSK	135	69	18.87	18.88	18.85	20.2	0.0		
100	QPSK	135	135	18.76	18.83	18.83	20.2	0.0		
100	QPSK	270	0	18.85	18.86	18.83				
100	16QAM	1	1	18.85	18.86	18.75	20.2	0.0		
100	64QAM	1	1	18.86	18.81	18.72	20.2	0.0		
100	256QAM	1	1	18.72	18.81	18.77	20.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.76	18.87	18.83	20.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.77	18.80	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.79	18.84	18.81	20.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.72	18.84	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.72	18.74	18.75	20.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.73	18.83	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.73	18.73	18.79	20.2	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.80	18.83	18.84	20.2	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.79	18.83	18.84	20.2	0.0		

Part27Q_n77_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3495.98	3495.98	3495.98			
100	Pi2 BPSK	1	137	18.50			19.2	0.0	
100	Pi2 BPSK	1	271	18.47					
100	Pi2 BPSK	135	0	18.42			19.2	0.0	
100	Pi2 BPSK	135	69	18.47			19.2	0.0	
100	Pi2 BPSK	135	138	18.44			19.2	0.0	
100	Pi2 BPSK	270	0	18.47					
100	QPSK	1	1	18.35					
100	QPSK	1	137	18.48			19.2	0.0	
100	QPSK	1	271	18.44					
100	QPSK	135	0	18.40					
100	QPSK	135	69	18.53			19.2	0.0	
100	QPSK	135	138	18.39					
100	QPSK	270	0	18.51			19.2	0.0	
100	16QAM	1	1	18.49			19.2	0.0	
100	64QAM	1	1	18.49			19.2	0.0	
100	256QAM	1	1	18.41			19.2	0.0	
Channel									
90	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3499.98	3504.98			
90	QPSK	1	1	18.46	18.44	18.45	19.2	0.0	
Channel									
80	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3495.02	3499.98	3504.98			
80	QPSK	1	1	18.46	18.47	18.38	19.2	0.0	
Channel									
70	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3495.01	3499.98	3504.98			
70	QPSK	1	1	18.49	18.40	18.52	19.2	0.0	
Channel									
60	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3495.98	3499.98	3504.98			
60	QPSK	1	1	18.49	18.50	18.49	19.2	0.0	
Channel									
40	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3495.02	3499.98	3504.98			
40	QPSK	1	1	18.44	18.40	18.45	19.2	0.0	
Channel									
30	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3495.01	3499.98	3504.98			
30	QPSK	1	1	18.48	18.40	18.42	19.2	0.0	
Channel									
25	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3495.02	3499.98	3504.98			
25	QPSK	1	1	18.43	18.50	18.47	19.2	0.0	
Channel									
20	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3495.02	3499.98	3504.98			
20	QPSK	1	1	18.39	18.39	18.51	19.2	0.0	
Channel									
15	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3497.5	3499.98	3502.49			
15	QPSK	1	1	18.47	18.47	18.45	19.2	0.0	
Channel									
10	Frequency (MHz)	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3495.01	3499.98	3504.98			
10	QPSK	1	1	18.52	18.45	18.42	19.2	0.0	

Part27Q_n77_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3750	3840	3930			
100	Pi2 BPSK	1	137	18.13	18.20	18.16	19.2	0.0	
100	Pi2 BPSK	1	271	18.26	18.27	18.22			
100	Pi2 BPSK	135	0	18.18	18.20	18.16	19.2	0.0	
100	Pi2 BPSK	135	69	18.26	18.30	18.24	19.2	0.0	
100	Pi2 BPSK	135	138	18.17	18.24	18.28	19.2	0.0	
100	Pi2 BPSK	135	138	18.18	18.26	18.22	19.2	0.0	
100	Pi2 BPSK	270	0	18.22	18.24	18.26			
100	QPSK	1	1	18.31	18.35	18.31			
100	QPSK	1	137	18.21	18.20	18.17	19.2	0.0	
100	QPSK	1	271	18.20	18.28	18.17			
100	QPSK	135	0	18.28	18.27	18.25			
100	QPSK	135	69	18.31	18.33	18.30	19.2	0.0	
100	QPSK	135	138	18.27	18.23	18.27			
100	QPSK	270	0	18.30	18.31	18.28	19.2	0.0	
100	16QAM	1	1	18.16	18.28	18.25	19.2	0.0	
100	64QAM	1	1	18.20	18.26	18.22	19.2	0.0	
100	256QAM	1	1	18.18	18.21	18.27	19.2	0.0	
Channel									
90	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3745.02	3840	3934.98			
90	QPSK	1	1	18.19	18.26	18.27	19.2	0.0	
Channel									
80	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3745.01	3840	3934.98			
80	QPSK	1	1	18.30	18.28	18.22	19.2	0.0	
Channel									
70	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3745.02	3840	3945			
70	QPSK	1	1	18.30	18.30	18.26	19.2	0.0	
Channel									
60	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3745.01	3840	3945			
60	QPSK	1	1	18.16	18.26	18.18	19.2	0.0	
Channel									
50	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3745.01	3840	3945			
50	QPSK	1	1	18.23	18.19	18.24	19.2	0.0	
Channel									
40	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3745.02	3840	3945			
40	QPSK	1	1	18.20	18.31	18.20	19.2	0.0	
Channel									
30	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3745.02	3840	3945			
30	QPSK	1	1	18.23	18.19	18.17	19.2	0.0	
Channel									
25	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3745.01	3840	3945			
25	QPSK	1	1	18.15	18.27	18.20	19.2	0.0	
Channel									
20	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3745.01	3840	3945			
20	QPSK	1	1	18.22	18.24	18.22	19.2	0.0	
Channel									
15	Frequency (MHz)	1	1	640000	660000	680000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3745.01	3840	3945			
15	QPSK	1	1	18.19	18.23	18.23	19.2	0.0	

Part27Q_n77_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3499.58	3499.58	3499.58			
100	Pi2 BPSK	1	137	18.80			16.5	0.0	
100	Pi2 BPSK	1	271	18.78					
100	Pi2 BPSK	135	0	18.77			16.5	0.0	
100	Pi2 BPSK	135	69	18.80			16.5	0.0	
100	Pi2 BPSK	135	138	18.79			16.5	0.0	
100	Pi2 BPSK	270	0	18.80					
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.79			16.5	0.0	
100	QPSK	1	271	18.78					
100	QPSK	135	0	18.76					
100	QPSK	135	69	18.83			16.5	0.0	
100	QPSK	135	138	18.82					
100	QPSK	270	0	18.81			16.5	0.0	
100	16QAM	1	1	18.72			16.5	0.0	
100	64QAM	1	1	18.75			16.5	0.0	
100	256QAM	1	1	18.80			16.5	0.0	
Channel									
90	Frequency (MHz)	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3499.98	3504.98			
90	QPSK	1	1	18.79	18.82	18.78	16.5	0.0	
Channel									
80	Frequency (MHz)	1	1	632030	633332	633630	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3495.32	3499.32	3503.32			
80	QPSK	1	1	18.72	18.69	18.65	16.5	0.0	
Channel									
70	Frequency (MHz)	1	1	632030	633332	633430	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3495.31	3499.31	3503.31			
70	QPSK	1	1	18.72	18.69	18.65	16.5	0.0	
Channel									
60	Frequency (MHz)	1	1	632000	633332	633500	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3498	3499.98	3501.99			
60	QPSK	1	1	18.68	18.74	18.74	16.5	0.0	
60	QPSK	1	1	631660	631932	632200	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3475.02	3499.98	3524.98			
60	QPSK	1	1	18.76	18.81	18.76	16.5	0.0	
60	QPSK	1	1	631830	632102	632370	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3478.01	3499.98	3529.98			
60	QPSK	1	1	18.70	18.69	18.72	16.5	0.0	
40	Frequency (MHz)	1	1	631000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3495.02	3499.98	3504.98			
40	QPSK	1	1	18.68	18.73	18.82	16.5	0.0	
40	QPSK	1	1	630830	633332	633632	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3492.01	3499.98	3507.02			
40	QPSK	1	1	18.73	18.74	18.79	16.5	0.0	
40	QPSK	1	1	630660	633332	633600	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3490.02	3499.98	3500.02			
40	QPSK	1	1	18.69	18.75	18.80	16.5	0.0	
40	QPSK	1	1	630500	633332	633666	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3492.01	3499.98	3504.98			
40	QPSK	1	1	18.82	18.82	18.71	16.5	0.0	
15	Frequency (MHz)	1	1	630330	633332	633632	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3493.01	3499.98	3505.98			
15	QPSK	1	1	18.78	18.78	18.72	16.5	0.0	

Part270_n77_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
100	P12 BPSK	1	1	15.35	15.47	15.43			
100	P12 BPSK	1	137	15.48	15.47	15.40	16.5	0.0	
100	P12 BPSK	1	271	15.38	15.40	15.43			
100	P12 BPSK	135	0	15.38	15.50	15.39	16.5	0.0	
100	P12 BPSK	135	69	15.38	15.52	15.44	16.5	0.0	
100	P12 BPSK	135	138	15.41	15.52	15.36	16.5	0.0	
100	P12 BPSK	270	0	15.37	15.41	15.35	16.5	0.0	
100	QPSK	1	1	15.32	15.35	15.31			
100	QPSK	1	137	15.40	15.41	15.37	16.5	0.0	
100	QPSK	1	271	15.46	15.50	15.48			
100	QPSK	135	0	15.40	15.51	15.40	16.5	0.0	
100	QPSK	135	69	15.37	15.53	15.30	16.5	0.0	
100	QPSK	135	138	15.49	15.48	15.41			
100	QPSK	270	0	15.50	15.51	15.48	16.5	0.0	
100	16QAM	1	1	15.46	15.49	15.45	16.5	0.0	
100	16QAM	1	1	15.46	15.52	15.37	16.5	0.0	
100	256QAM	1	1	15.43	15.45	15.45	16.5	0.0	
Channel				647668	647668	647668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.37	15.43	15.40	16.5	0.0	
Channel				647334	647334	647334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.43	15.51	15.48	16.5	0.0	
Channel				648000	648000	648000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.42	15.43	15.39	16.5	0.0	
Channel				648000	648000	648000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.47	15.52	15.46	16.5	0.0	
Channel				648334	648334	648334	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.38	15.41	15.37	16.5	0.0	
Channel				648000	648000	648000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.45	15.44	15.47	16.5	0.0	
Channel				647668	647668	647668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.42	15.39	15.38	16.5	0.0	
Channel				647668	647668	647668	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	15.43	15.40	15.39	16.5	0.0	
Channel				647334	647334	647334	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.40	15.51	15.41	16.5	0.0	
Channel				647168	647168	647168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.40	15.42	15.48	16.5	0.0	
Channel				647000	647000	647000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.43	15.47	15.47	16.5	0.0	

Part27Q_n77_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3499.98	3533.32	3566.66			
100	P12 BPSK	1	1	16.03					
100	P12 BPSK	1	137	16.07			17.0	0.0	
100	P12 BPSK	1	271	16.05					
100	P12 BPSK	135	0	16.10			17.0	0.0	
100	P12 BPSK	135	69	16.16			17.0	0.0	
100	P12 BPSK	135	138	16.13			17.0	0.0	
100	P12 BPSK	270	0	16.06			17.0	0.0	
100	QPSK	1	1	16.25					
100	QPSK	1	137	16.11			17.0	0.0	
100	QPSK	1	271	16.08					
100	QPSK	135	0	16.11			17.0	0.0	
100	QPSK	135	69	16.23			17.0	0.0	
100	QPSK	135	138	16.15					
100	QPSK	270	0	16.20			17.0	0.0	
100	16QAM	1	1	16.17			17.0	0.0	
100	64QAM	1	1	16.11			17.0	0.0	
100	256QAM	1	1	16.17			17.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.16	16.11	16.10	17.0	0.0	
Channel				632666	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.02	16.09	16.10	17.0	0.0	
Channel				632332	633332	634332	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.13	16.14	16.12	17.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.16	16.19	16.13	17.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.08	16.18	16.09	17.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.07	16.19	16.08	17.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.12	16.11	16.13	17.0	0.0	
Channel				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.07	16.19	16.11	17.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.08	16.16	16.10	17.0	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.12	16.11	16.15	17.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.09	16.17	16.09	17.0	0.0	

Part270_n77_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
100	P12 BPSK	1	1	15.34	15.59	15.57			
100	P12 BPSK	1	137	15.95	15.00	15.95	17.0	0.0	
100	P12 BPSK	1	271	15.08	15.99	15.98			
100	P12 BPSK	135	0	15.03	15.59	16.12	17.0	0.0	
100	P12 BPSK	135	69	16.02	16.03	15.97	17.0	0.0	
100	P12 BPSK	135	138	16.12	16.11	16.08	17.0	0.0	
100	P12 BPSK	270	0	16.05	16.03	15.97	17.0	0.0	
100	QPSK	1	1	15.11	15.20	15.15			
100	QPSK	1	137	15.98	16.03	15.96	17.0	0.0	
100	QPSK	1	271	16.04	16.01	15.97			
100	QPSK	135	0	16.03	16.03	16.06	17.0	0.0	
100	QPSK	135	69	16.05	16.15	16.05	17.0	0.0	
100	QPSK	135	138	16.12	16.12	16.09			
100	QPSK	270	0	16.07	16.13	16.10	17.0	0.0	
100	16QAM	1	1	16.02	16.07	16.07	17.0	0.0	
100	64QAM	1	1	16.15	16.07	15.94	17.0	0.0	
100	256QAM	1	1	16.01	16.03	16.10	17.0	0.0	
Channel				647668	647668	647668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.96	16.12	16.05	17.0	0.0	
Channel				647334	647334	647334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.87	16.08	16.05	17.0	0.0	
Channel				646999	646999	646999	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.05	16.09	16.08	17.0	0.0	
Channel				646666	646666	646666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.02	16.10	16.09	17.0	0.0	
Channel				646334	646334	646334	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.00	16.05	16.00	17.0	0.0	
Channel				646000	646000	646000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.96	16.10	16.01	17.0	0.0	
Channel				645668	645668	645668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.04	16.05	16.05	17.0	0.0	
Channel				645334	645334	645334	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.01	16.13	16.08	17.0	0.0	
Channel				645000	645000	645000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.01	16.13	16.05	17.0	0.0	
Channel				644668	644668	644668	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.06	16.10	16.10	17.0	0.0	
Channel				644334	644334	644334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.98	16.15	16.02	17.0	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	P12 BPSK	1	1	15.2	3499.98				
100	P12 BPSK	1	137	15.79			17.0	0.0	
100	P12 BPSK	1	271	15.69					
100	P12 BPSK	135	0	15.97			17.0	0.0	
100	P12 BPSK	135	69	15.70			17.0	0.0	
100	P12 BPSK	135	138	15.89			17.0	0.0	
100	P12 BPSK	270	0	15.80					
100	QPSK	1	1	15.98					
100	QPSK	1	137	15.72			17.0	0.0	
100	QPSK	1	271	15.79					
100	QPSK	135	0	15.75					
100	QPSK	135	69	15.90			17.0	0.0	
100	QPSK	135	138	15.85					
100	QPSK	270	0	15.98			17.0	0.0	
100	16QAM	1	1	15.98			17.0	0.0	
100	64QAM	1	1	15.79			17.0	0.0	
100	256QAM	1	1	15.80			17.0	0.0	
Channel									
90	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
90	QPSK	1	1	3495	3499.98	3504.99			
90	QPSK	1	1	15.76	15.81	15.79	17.0	0.0	
Channel									
80	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
80	QPSK	1	1	3490.02	3499.98	3510			
80	QPSK	1	1	15.73	15.80	15.81	17.0	0.0	
Channel									
70	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
70	QPSK	1	1	3485.01	3499.98	3514.98			
70	QPSK	1	1	15.63	15.88	15.85	17.0	0.0	
Channel									
60	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
60	QPSK	1	1	3480.02	3499.98	3519.99			
60	QPSK	1	1	15.63	15.84	15.81	17.0	0.0	
Channel									
50	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
50	QPSK	1	1	3475.02	3499.98	3525			
50	QPSK	1	1	15.79	15.82	15.89	17.0	0.0	
Channel									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dB)		
40	QPSK	1	1	3470.01	3499.98	3529.98			
40	QPSK	1	1	15.75	15.85	15.79	17.0	0.0	
Channel									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dB)		
30	QPSK	1	1	3465	3499.98	3534.99			
30	QPSK	1	1	15.80	15.84	15.86	17.0	0.0	
Channel									
25	QPSK	1	1	630634	633332	635832	Tune-up limit (dB)		
25	QPSK	1	1	3460.02	3499.98	3539.98			
25	QPSK	1	1	15.75	15.87	15.82	17.0	0.0	
Channel									
20	QPSK	1	1	630668	633332	636000	Tune-up limit (dB)		
20	QPSK	1	1	3455.01	3499.98	3540			
20	QPSK	1	1	15.74	15.80	15.84	17.0	0.0	
Channel									
15	QPSK	1	1	630000	633332	636166	Tune-up limit (dB)		
15	QPSK	1	1	3457.5	3499.98	3542.49			
15	QPSK	1	1	15.74	15.85	15.82	17.0	0.0	
Channel									
10	QPSK	1	1	629334	633332	636332	Tune-up limit (dB)		
10	QPSK	1	1	3455.01	3499.98	3544.98			
10	QPSK	1	1	15.79	15.80	15.83	17.0	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	P12 BPSK	1	1	15.76	3499.98	3500			
100	P12 BPSK	1	137	15.65	15.77	15.84	17.0	0.0	
100	P12 BPSK	1	271	15.76	15.81	15.84			
100	P12 BPSK	135	0	15.70	15.86	15.85	17.0	0.0	
100	P12 BPSK	135	69	15.59	15.70	15.72	17.0	0.0	
100	P12 BPSK	135	138	15.71	15.76	15.68			
100	P12 BPSK	270	0	15.72	15.68	15.75			
100	QPSK	1	1	15.78	15.85	15.80			
100	QPSK	1	137	15.72	15.70	15.66	17.0	0.0	
100	QPSK	1	271	15.70	15.68	15.75			
100	QPSK	135	0	15.67	15.81	15.65			
100	QPSK	135	69	15.78	15.79	15.73	17.0	0.0	
100	QPSK	135	138	15.71	15.69	15.70			
100	QPSK	270	0	15.74	15.73	15.69	17.0	0.0	
100	16QAM	1	1	15.80	15.68	15.56	17.0	0.0	
100	64QAM	1	1	15.70	15.77	15.67	17.0	0.0	
100	256QAM	1	1	15.68	15.71	15.63	17.0	0.0	
Channel									
90	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
90	QPSK	1	1	3495	3499.98	3504.99			
90	QPSK	1	1	15.64	15.72	15.71	17.0	0.0	
Channel									
80	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
80	QPSK	1	1	3490.01	3499.98	3509.99			
80	QPSK	1	1	15.67	15.77	15.75	17.0	0.0	
Channel									
70	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
70	QPSK	1	1	3485.01	3499.98	3514.98			
70	QPSK	1	1	15.68	15.78	15.68	17.0	0.0	
Channel									
60	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
60	QPSK	1	1	3480.02	3499.98	3519.99			
60	QPSK	1	1	15.74	15.73	15.68	17.0	0.0	
Channel									
50	QPSK	1	1	632000	633332	633656	Tune-up limit (dB)		
50	QPSK	1	1	3475.02	3499.98	3525			
50	QPSK	1	1	15.66	15.75	15.70	17.0	0.0	
Channel									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dB)		
40	QPSK	1	1	3470.01	3499.98	3529.98			
40	QPSK	1	1	15.67	15.71	15.73	17.0	0.0	
Channel									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dB)		
30	QPSK	1	1	3465	3499.98	3534.99			
30	QPSK	1	1	15.65	15.72	15.72	17.0	0.0	
Channel									
25	QPSK	1	1	630634	633332	635832	Tune-up limit (dB)		
25	QPSK	1	1	3460.02	3499.98	3539.98			
25	QPSK	1	1	15.68	15.79	15.73	17.0	0.0	
Channel									
20	QPSK	1	1	630668	633332	636000	Tune-up limit (dB)		
20	QPSK	1	1	3455.01	3499.98	3540			
20	QPSK	1	1	15.74	15.72	15.75	17.0	0.0	
Channel									
15	QPSK	1	1	630000	633332	636166	Tune-up limit (dB)		
15	QPSK	1	1	3457.5	3499.98	3542.49			
15	QPSK	1	1	15.64	15.76	15.73	17.0	0.0	
Channel									
10	QPSK	1	1	629334	633332	636332	Tune-up limit (dB)		
10	QPSK	1	1	3455.01	3499.98	3544.98			
10	QPSK	1	1	15.74	15.77	15.70	17.0	0.0	

Part27Q_n78_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	P12 BPSK	1	1	15.32					
100	P12 BPSK	1	137	15.31			19.2	0.0	
100	P12 BPSK	1	271	15.28					
100	P12 BPSK	135	0	15.31			19.2	0.0	
100	P12 BPSK	135	69	15.28			19.2	0.0	
100	P12 BPSK	135	138	15.27			19.2	0.0	
100	P12 BPSK	270	0	15.29					
100	QPSK	1	1	15.35					
100	QPSK	1	137	15.28			19.2	0.0	
100	QPSK	1	271	15.22					
100	QPSK	135	0	15.22					
100	QPSK	135	69	15.31			19.2	0.0	
100	QPSK	135	138	15.28					
100	QPSK	270	0	15.31			19.2	0.0	
100	16QAM	1	1	15.18			19.2	0.0	
100	16QAM	1	137	15.28					
100	16QAM	1	271	15.22					
100	16QAM	135	0	15.31			19.2	0.0	
100	16QAM	135	69	15.28			19.2	0.0	
100	16QAM	135	138	15.27			19.2	0.0	
100	16QAM	270	0	15.29			19.2	0.0	
100	16QAM	270	69	15.22			19.2	0.0	
100	16QAM	270	138	15.22			19.2	0.0	
100	16QAM	540	0	15.31			19.2	0.0	
100	16QAM	540	69	15.28			19.2	0.0	
100	16QAM	540	138	15.27			19.2	0.0	
100	16QAM	1080	0	15.31			19.2	0.0	
100	16QAM	1080	69	15.28			19.2	0.0	
100	16QAM	1080	138	15.27			19.2	0.0	
100	16QAM	2160	0	15.31			19.2	0.0	
100	16QAM	2160	69	15.28			19.2	0.0	
100	16QAM	2160	138	15.27			19.2	0.0	
100	16QAM	4320	0	15.31			19.2	0.0	
100	16QAM	4320	69	15.28			19.2	0.0	
100	16QAM	4320	138	15.27			19.2	0.0	
100	16QAM	8640	0	15.31			19.2	0.0	
100	16QAM	8640	69	15.28			19.2	0.0	
100	16QAM	8640	138	15.27			19.2	0.0	
100	16QAM	17280	0	15.31			19.2	0.0	
100	16QAM	17280	69	15.28			19.2	0.0	
100	16QAM	17280	138	15.27			19.2	0.0	
100	16QAM	34560	0	15.31			19.2	0.0	
100	16QAM	34560	69	15.28			19.2	0.0	
100	16QAM	34560	138	15.27			19.2	0.0	
100	16QAM	69120	0	15.31			19.2	0.0	
100	16QAM	69120	69	15.28			19.2	0.0	
100	16QAM	69120	138	15.27			19.2	0.0	
100	16QAM	138240	0	15.31			19.2	0.0	
100	16QAM	138240	69	15.28			19.2	0.0	
100	16QAM	138240	138	15.27			19.2	0.0	
100	16QAM	276480	0	15.31			19.2	0.0	
100	16QAM	276480	69	15.28			19.2	0.0	
100	16QAM	276480	138	15.27			19.2	0.0	
100	16QAM	552960	0	15.31			19.2	0.0	
100	16QAM	552960	69	15.28			19.2	0.0	
100	16QAM	552960	138	15.27			19.2	0.0	
100	16QAM	1105920	0	15.31			19.2	0.0	
100	16QAM	1105920	69	15.28			19.2	0.0	
100	16QAM	1105920	138	15.27			19.2	0.0	
100	16QAM	2211840	0	15.31			19.2	0.0	
100	16QAM	2211840	69	15.28			19.2	0.0	
100	16QAM	2211840	138	15.27			19.2	0.0	
100	16QAM	4423680	0	15.31			19.2	0.0	
100	16QAM	4423680	69	15.28			19.2	0.0	
100	16QAM	4423680	138	15.27			19.2	0.0	
100	16QAM	8847360	0	15.31			19.2	0.0	
100	16QAM	8847360	69	15.28			19.2	0.0	
100	16QAM	8847360	138	15.27			19.2	0.0	
100	16QAM	17694720	0	15.31			19.2	0.0	
100	16QAM	17694720	69	15.28			19.2	0.0	
100	16QAM	17694720	138	15.27			19.2	0.0	
100	16QAM	35389440	0	15.31			19.2	0.0	
100	16QAM	35389440	69	15.28			19.2	0.0	
100	16QAM	35389440	138	15.27			19.2	0.0	
100	16QAM	70778880	0	15.31			19.2	0.0	
100	16QAM	70778880	69	15.28			19.2	0.0	
100	16QAM	70778880	138	15.27			19.2	0.0	
100	16QAM	141557760	0	15.31			19.2	0.0	
100	16QAM	141557760	69	15.28			19.2	0.0	
100	16QAM	141557760	138	15.27			19.2	0.0	
100	16QAM	283115520	0	15.31			19.2	0.0	
100	16QAM	283115520	69	15.28			19.2	0.0	
100	16QAM	283115520	138	15.27			19.2	0.0	
100	16QAM	566231040	0	15.31			19.2	0.0	
100	16QAM	566231040	69	15.28			19.2	0.0	
100	16QAM	566231040	138	15.27			19.2	0.0	
100	16QAM	1132462080	0	15.31			19.2	0.0	
100	16QAM	1132462080	69	15.28			19.2	0.0	
100	16QAM	1132462080	138	15.27			19.2	0.0	
100	16QAM	2264924160	0	15.31			19.2	0.0	
100	16QAM	2264924160	69	15.28			19.2	0.0	
100	16QAM	2264924160	138	15.27			19.2	0.0	
100	16QAM	4529848320	0	15.31			19.2	0.0	
100	16QAM	4529848320	69	15.28			19.2	0.0	
100	16QAM	4529848320	138	15.27			19.2	0.0	
100	16QAM	9059696640	0	15.31			19.2	0.0	
100	16QAM	9059696640	69	15.28			19.2	0.0	
100	16QAM	9059696640	138	15.27			19.2	0.0	
100	16QAM	18119393280	0	15.31			19.2	0.0	
100	16QAM	18119393280	69	15.28			19.2	0.0	
100	16QAM	18119393280	138	15.27			19.2	0.0	
100	16QAM	36238786560	0	15.31			19.2	0.0	
100	16QAM	36238786560	69	15.28			19.2	0.0	
100	16QAM	36238786560	138	15.27			19.2	0.0	
100	16QAM	72477573120	0	15.31			19.2	0.0	
100	16QAM	72477573120	69	15.28			19.2	0.0	
100	16QAM	72477573120	138	15.27			19.2	0.0	
100	16QAM	144955146240	0	15.31			19.2	0.0	
100	16QAM	144955146240	69	15.28			19.2	0.0	
100	16QAM	144955146240	138	15.27			19.2	0.0	
100	16QAM	289910292480	0	15.31			19.2	0.0	
100	16QAM	289910292480	69	15.28			19.2	0.0	
100	16QAM	289910292480	138	15.27			19.2	0.0	
100	16QAM	579820584960	0	15.31			19.2	0.0	
100	16QAM	579820584960	69	15.28			19.2	0.0	
100	16QAM	579820584960	138	15.27			19.2	0.0	
100	16QAM	1159641169920	0	15.31			19.2	0.0	
100	16QAM	1159641169920	69	15.28			19.2	0.0	
100	16QAM	1159641169920	138	15.27			19.2	0.0	
100	16QAM	2319282339840	0	15.31			19.2	0.0	
100	16QAM	2319282339840	69	15.28			19.2	0.0	
100	16QAM	2319282339840	138	15.27			19.2	0.0	
100	16QAM	4638564679680	0	15.31			19.2	0.0	
100	16QAM	4638564679680	69	15.28			19.2	0.0	
100	16QAM	4638564679680	138	15.27			19.2	0.0	
100	16QAM	9277129359360	0	15.31			19.2	0.0	
100	16QAM	9277129359360	69	15.28			19.2	0.0	
100	16QAM	9277129359360	138	15.27			19.2	0.0	
100	16QAM	18554258718720	0	15.31			19.2	0.0	
100	16QAM	18554258718720	69	15.28			19.2	0.0	
100	16QAM	18554258718720	138	15.27			19.2	0.0	
100	16QAM	37108517437440	0	15.31			19.2	0.0	
100	16QAM	37108517437440	69	15.28			19.2	0.0	
100	16QAM	37108517437440	138	15.27			19.2	0.0	
100	16QAM	74217034874880	0	15.31			19.2	0.0	
100	16QAM	74217034874880	69	15.28			19.2	0.0	
100	16QAM	74217034874880	138	15.27			19.2	0.0	
100	16QAM	148434069749760	0	15.31			19.2	0.0	
100	16QAM	148434069749760	69	15.28			19.2	0.0	
100	16QAM	148434069749760	138	15.27			19.2	0.0	
100	16QAM	296868139499520	0	15.31			19.2	0.0	
100	16QAM	296868139499520	69	15.28			19.2	0.0	
100	16QAM	296868139499520	138	15.27			19.2	0.0	
100	16QAM	593736278999040	0	15.31			19.2	0.0	
100	16QAM	593736278999040	69	15.28			19.2	0.0	
100	16QAM	593736278999040	138	15.27			19.2	0.0	
100	16QAM	1187472557998080	0	15.31			19.2	0.0	
100	16QAM	1187472557998080	69	15.28			19.2	0.0	
100	16QAM	1187472557998080	138	15.27			19.2	0.0	
100	16QAM	2374945115996160	0	15.31			19.2	0.0	
100	16QAM	2374945115996160	69	15.28			19.2	0.0	
100	16QAM	2374945115996160	138	15.27			19.2	0.0	
100	16QAM	4749890231992320	0	15.31			19.2	0.0	
100	16Q								

Part27Q_n78_HPUE_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	18.12	18.28	18.33			
100	Pi2 BPSK	1	137	18.31	18.28	18.33	19.2	0.0	
100	Pi2 BPSK	1	271	18.28	18.31	18.33	19.2	0.0	
100	Pi2 BPSK	135	0	18.31	18.28	18.33	19.2	0.0	
100	Pi2 BPSK	135	69	18.28	18.31	18.33	19.2	0.0	
100	Pi2 BPSK	135	138	18.27	18.28	18.33	19.2	0.0	
100	Pi2 BPSK	270	0	18.29	18.33	18.33			
100	QPSK	1	1	18.33	18.28	18.33	19.2	0.0	
100	QPSK	1	137	18.28	18.33	18.33	19.2	0.0	
100	QPSK	1	271	18.22	18.33	18.33	19.2	0.0	
100	QPSK	135	0	18.33	18.28	18.33	19.2	0.0	
100	QPSK	135	69	18.33	18.28	18.33	19.2	0.0	
100	QPSK	135	138	18.28	18.33	18.33	19.2	0.0	
100	QPSK	270	0	18.31	18.33	18.33	19.2	0.0	
100	16QAM	1	1	18.18	18.28	18.33	19.2	0.0	
100	64QAM	1	1	18.28	18.28	18.33	19.2	0.0	
100	256QAM	1	1	18.31	18.28	18.33	19.2	0.0	
Channel									
90	QPSK	1	1	18.18	18.19	18.28	19.2	0.0	
Channel									
80	QPSK	1	1	18.19	18.20	18.19	19.2	0.0	
Channel									
70	QPSK	1	1	18.22	18.26	18.18	19.2	0.0	
Channel									
60	QPSK	1	1	18.23	18.28	18.21	19.2	0.0	
Channel									
50	QPSK	1	1	18.18	18.22	18.29	19.2	0.0	
Channel									
40	QPSK	1	1	18.23	18.32	18.28	19.2	0.0	
Channel									
30	QPSK	1	1	18.26	18.18	18.30	19.2	0.0	
Channel									
25	QPSK	1	1	18.19	18.28	18.27	19.2	0.0	
Channel									
20	QPSK	1	1	18.21	18.19	18.29	19.2	0.0	
Channel									
15	QPSK	1	1	18.31	18.24	18.28	19.2	0.0	
Channel									
10	QPSK	1	1	18.31	18.20	18.27	19.2	0.0	

Part27Q_n78_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	18.34	18.34	18.34			
100	Pi2 BPSK	1	137	18.31	18.24	18.34	19.2	0.0	
100	Pi2 BPSK	1	271	18.24	18.25	18.34	19.2	0.0	
100	Pi2 BPSK	135	0	18.35	18.35	18.35	19.2	0.0	
100	Pi2 BPSK	135	69	18.35	18.35	18.35	19.2	0.0	
100	Pi2 BPSK	135	138	18.24	18.24	18.34	19.2	0.0	
100	Pi2 BPSK	270	0	18.22	18.35	18.32			
100	QPSK	1	1	18.35	18.35	18.35	19.2	0.0	
100	QPSK	1	137	18.24	18.32	18.32	19.2	0.0	
100	QPSK	1	271	18.32	18.32	18.32	19.2	0.0	
100	QPSK	135	0	18.32	18.32	18.32	19.2	0.0	
100	QPSK	135	69	18.37	18.37	18.37	19.2	0.0	
100	QPSK	135	138	18.29	18.29	18.29	19.2	0.0	
100	QPSK	270	0	18.35	18.35	18.35	19.2	0.0	
100	16QAM	1	1	18.24	18.24	18.24	19.2	0.0	
100	64QAM	1	1	18.33	18.33	18.33	19.2	0.0	
100	256QAM	1	1	18.25	18.25	18.25	19.2	0.0	
Channel									
90	QPSK	1	1	18.36	18.22	18.23	19.2	0.0	
Channel									
80	QPSK	1	1	18.30	18.33	18.31	19.2	0.0	
Channel									
70	QPSK	1	1	18.31	18.23	18.22	19.2	0.0	
Channel									
60	QPSK	1	1	18.33	18.27	18.26	19.2	0.0	
Channel									
50	QPSK	1	1	18.34	18.28	18.22	19.2	0.0	
Channel									
40	QPSK	1	1	18.35	18.33	18.35	19.2	0.0	
Channel									
30	QPSK	1	1	18.24	18.31	18.26	19.2	0.0	
Channel									
25	QPSK	1	1	18.23	18.22	18.23	19.2	0.0	
Channel									
20	QPSK	1	1	18.23	18.27	18.24	19.2	0.0	
Channel									
15	QPSK	1	1	18.26	18.28	18.29	19.2	0.0	
Channel									
10	QPSK	1	1	18.29	18.22	18.33	19.2	0.0	

Part27Q_n78_HPUE_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	18.34	18.34	18.34			
100	Pi2 BPSK	1	137	18.31	18.24	18.34	19.2	0.0	
100	Pi2 BPSK	1	271	18.24	18.25	18.34	19.2	0.0	
100	Pi2 BPSK	135	0	18.35	18.35	18.35	19.2	0.0	
100	Pi2 BPSK	135	69	18.35	18.35	18.35	19.2	0.0	
100	Pi2 BPSK	135	138	18.24	18.24	18.34	19.2	0.0	
100	Pi2 BPSK	270	0	18.22	18.35	18.32			
100	QPSK	1	1	18.35	18.35	18.35	19.2	0.0	
100	QPSK	1	137	18.24	18.32	18.32	19.2	0.0	
100	QPSK	1	271	18.32	18.32	18.32	19.2	0.0	
100	QPSK	135	0	18.32	18.32	18.32	19.2	0.0	
100	QPSK	135	69	18.37	18.37	18.37	19.2	0.0	
100	QPSK	135	138	18.29	18.29	18.29	19.2	0.0	
100	QPSK	270	0	18.35	18.35	18.35	19.2	0.0	
100	16QAM	1	1	18.24	18.24	18.24	19.2	0.0	
100	64QAM	1	1	18.33	18.33	18.33	19.2	0.0	
100	256QAM	1	1	18.25	18.25	18.25	19.2	0.0	
Channel									
90	QPSK	1	1	18.36	18.22	18.23	19.2	0.0	
Channel									
80	QPSK	1	1	18.30	18.33	18.31	19.2	0.0	
Channel									
70	QPSK	1	1	18.31	18.23	18.22	19.2	0.0	
Channel									
60	QPSK	1	1	18.33	18.27	18.26	19.2	0.0	
Channel									
50	QPSK	1	1	18.34	18.28	18.22	19.2	0.0	
Channel									
40	QPSK	1	1	18.35	18.33	18.35	19.2	0.0	
Channel									
30	QPSK	1	1	18.24	18.31	18.26	19.2	0.0	
Channel									
25	QPSK	1	1	18.23	18.22	18.23	19.2	0.0	
Channel									
20	QPSK	1	1	18.23	18.27	18.24	19.2	0.0	
Channel									
15	QPSK	1	1	18.26	18.28	18.29	19.2	0.0	
Channel									
10	QPSK	1	1	18.29	18.22	18.33	19.2	0.0	

Part27Q_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	P2/BPSK	1	1	16.11					
100	P2/BPSK	1	137	16.26			17.5	0.0	
100	P2/BPSK	1	271	16.31					
100	P2/BPSK	135	0	16.26			17.5	0.0	
100	P2/BPSK	135	69	16.29			17.5	0.0	
100	P2/BPSK	135	138	16.25			17.5	0.0	
100	P2/BPSK	270	0	16.27					
100	QPSK	1	1	16.35					
100	QPSK	1	137	16.31			17.5	0.0	
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.18					
100	QPSK	135	69	16.33			17.5	0.0	
100	QPSK	135	138	16.23					
100	QPSK	270	0	16.31			17.5	0.0	
100	16QAM	1	1	16.22			17.5	0.0	
100	64QAM	1	1	16.26			17.5	0.0	
100	256QAM	1	1	16.22			17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.23	16.27	16.29	17.5	0.0	
Channel									
Frequency (MHz)				3489.02	3499.98	3510.94	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.32	16.18	16.24	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.28	16.19	16.21	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.23	16.23	16.29	17.5	0.0	
Channel									
Frequency (MHz)				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.31	16.24	16.27	17.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.30	16.24	16.30	17.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.21	16.31	16.29	17.5	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.29	16.21	16.23	17.5	0.0	
Channel									
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.24	16.25	16.32	17.5	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.28	16.29	16.19	17.5	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.21	16.22	16.20	17.5	0.0	

Part27Q_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	P2/BPSK	1	1	16.31					
100	P2/BPSK	1	137	16.26			17.5	0.0	
100	P2/BPSK	1	271	16.31					
100	P2/BPSK	135	0	16.26			17.5	0.0	
100	P2/BPSK	135	69	16.29			17.5	0.0	
100	P2/BPSK	135	138	16.25			17.5	0.0	
100	P2/BPSK	270	0	16.27					
100	QPSK	1	1	16.35					
100	QPSK	1	137	16.31			17.5	0.0	
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.18					
100	QPSK	135	69	16.33			17.5	0.0	
100	QPSK	135	138	16.23					
100	QPSK	270	0	16.31			17.5	0.0	
100	16QAM	1	1	16.22			17.5	0.0	
100	64QAM	1	1	16.26			17.5	0.0	
100	256QAM	1	1	16.22			17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.23	16.27	16.29	17.5	0.0	
Channel									
Frequency (MHz)				3489.02	3499.98	3510.94	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.32	16.18	16.24	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.28	16.19	16.21	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.23	16.23	16.29	17.5	0.0	
Channel									
Frequency (MHz)				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.31	16.24	16.27	17.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.30	16.24	16.30	17.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.21	16.31	16.29	17.5	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.29	16.21	16.23	17.5	0.0	
Channel									
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.24	16.25	16.32	17.5	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.28	16.29	16.19	17.5	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.21	16.22	16.20	17.5	0.0	

Part27Q_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P2/BPSK	1	1	16.02					
100	P2/BPSK	1	137	16.11			17.5	0.0	
100	P2/BPSK	1	271	16.02					
100	P2/BPSK	135	0	16.05			17.5	0.0	
100	P2/BPSK	135	69	16.07			17.5	0.0	
100	P2/BPSK	135	138	15.99			17.5	0.0	
100	P2/BPSK	270	0	16.06					
100	QPSK	1	1	16.15					
100	QPSK	1	137	16.08			17.5	0.0	
100	QPSK	1	271	16.08					
100	QPSK	135	0	16.05					
100	QPSK	135	69	16.13			17.5	0.0	
100	QPSK	135	138	16.08					
100	QPSK	270	0	16.11			17.5	0.0	
100	16QAM	1	1	15.98			17.5	0.0	
100	64QAM	1	1	15.99			17.5	0.0	
100	256QAM	1	1	16.06			17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
90	QPSK	1	1	16.08	16.06	16.04	17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
80	QPSK	1	1	16.05	16.07	16.03	17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
70	QPSK	1	1	16.03	16.05	16.09	17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
60	QPSK	1	1	16.02	16.07	15.99	17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
50	QPSK	1	1	15.99	16.06	15.99	17.5	0.0	
Channel				645000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	752000	757000			
40	QPSK	1	1	16.12	16.11	16.09	17.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747500	750000	752500			
30	QPSK	1	1	16.09	16.08	16.08	17.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747500	750000	752500			
25	QPSK	1	1	15.99	16.03	16.00	17.5	0.0	
Channel				647300	650000	652600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747300	750000	752600			
20	QPSK	1	1	16.07	16.11	16.08	17.5	0.0	
Channel				747000	750000	752800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	750000	752800			
15	QPSK	1	1	16.03	16.03	16.09	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				747000	750000	753000			
10	QPSK	1	1	16.11	16.11	16.11	17.5	0.0	

Part270_n78_HPUE_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3350					
100	Pi2 BPSK	1	1	16.02					
100	Pi2 BPSK	1	137	16.11			17.5	0.0	
100	Pi2 BPSK	1	271	16.02					
100	Pi2 BPSK	135	0	16.06			17.5	0.0	
100	Pi2 BPSK	135	69	16.07			17.5	0.0	
100	Pi2 BPSK	135	138	15.99			17.5	0.0	
100	Pi2 BPSK	270	0	16.06					
100	QPSK	1	1	16.15					
100	QPSK	1	137	16.08			17.5	0.0	
100	QPSK	1	271	16.08					
100	QPSK	135	0	16.06					
100	QPSK	135	69	16.13			17.5	0.0	
100	QPSK	135	138	16.08					
100	QPSK	270	0	16.11			17.5	0.0	
100	16QAM	1	1	15.98			17.5	0.0	
100	64QAM	1	1	15.99			17.5	0.0	
100	256QAM	1	1	16.08			17.5	0.0	
Channel				645959	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.08	16.06	16.04	17.5	0.0	
Channel				645331	650000	652368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.05	16.07	16.03	17.5	0.0	
Channel				646000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.03	16.05	16.09	17.5	0.0	
Channel				646969	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3760.98			
60	QPSK	1	1	16.02	16.07	15.99	17.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	15.99	16.06	15.99	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710	3750	3790			
40	QPSK	1	1	16.12	16.11	16.09	17.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.07	3750	3783.98			
30	QPSK	1	1	16.00	16.00	16.08	17.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3750	3790			
25	QPSK	1	1	15.98	16.03	16.00	17.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3780.99			
20	QPSK	1	1	16.07	16.11	16.09	17.5	0.0	
Channel				647168	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3750	3792.48			
15	QPSK	1	1	16.04	16.08	16.06	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.08	16.11	16.11	17.5	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	Pi2 BPSK	1	1	16.50					
100	Pi2 BPSK	1	137	16.55			18.0	0.0	
100	Pi2 BPSK	1	271	16.57					
100	Pi2 BPSK	135	0	16.54			18.0	0.0	
100	Pi2 BPSK	135	69	16.46			18.0	0.0	
100	Pi2 BPSK	135	138	16.48			18.0	0.0	
100	Pi2 BPSK	270	0	16.44					
100	QPSK	1	1	16.68					
100	QPSK	1	137	16.52			18.0	0.0	
100	QPSK	1	271	16.54					
100	QPSK	135	0	16.57					
100	QPSK	135	69	16.61			18.0	0.0	
100	QPSK	135	138	16.56					
100	QPSK	270	0	16.60			18.0	0.0	
100	16QAM	1	1	16.49			18.0	0.0	
100	64QAM	1	1	16.45			18.0	0.0	
100	256QAM	1	1	16.49			18.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	16.46	16.54	16.55	18.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	16.45	16.66	16.55	18.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	16.47	16.61	16.49	18.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.98			
60	QPSK	1	1	16.51	16.62	16.49	18.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.54	16.62	16.54	18.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.47	16.57	16.48	18.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	16.52	16.60	16.48	18.0	0.0	
Channel				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.01	3499.98	3537.98			
25	QPSK	1	1	16.45	16.54	16.52	18.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	16.40	16.56	16.47	18.0	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.48			
15	QPSK	1	1	16.51	16.49	16.53	18.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	16.45	16.56	16.45	18.0	0.0	

Part27Q_n78_HPUE_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	Pi2 BPSK	1	1	16.55					
100	Pi2 BPSK	1	137	16.55			18.0	0.0	
100	Pi2 BPSK	1	271	16.57					
100	Pi2 BPSK	135	0	16.54			18.0	0.0	
100	Pi2 BPSK	135	69	16.46			18.0	0.0	
100	Pi2 BPSK	135	138	16.48			18.0	0.0	
100	Pi2 BPSK	270	0	16.44					
100	QPSK	1	1	16.68					
100	QPSK	1	137	16.52			18.0	0.0	
100	QPSK	1	271	16.54					
100	QPSK	135	0	16.57					
100	QPSK	135	69	16.61			18.0	0.0	
100	QPSK	135	138	16.56					
100	QPSK	270	0	16.60			18.0	0.0	
100	16QAM	1	1	16.49			18.0	0.0	
100	64QAM	1	1	16.45			18.0	0.0	
100	256QAM	1	1	16.49			18.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	16.46	16.54	16.55	18.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	16.45	16.66	16.55	18.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	16.47	16.61	16.49	18.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.98			
60	QPSK	1	1	16.51	16.62	16.49	18.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.54	16.62	16.54	18.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3509.98			
40	QPSK	1	1	16.47	16.57	16.48	18.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3505.98			
30	QPSK	1	1	16.52	16.60	16.48	18.0	0.0	
Channel				630668	633332	635832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3499.98	3507.48			
25	QPSK	1	1	16.49	16.54	16.52	18.0	0.0	
Channel				630368	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.00	3499.98	3500			
20	QPSK	1	1	16.49	16.50	16.47	18.0	0.0	
Channel				630000	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.51	3499.98	3502.49			
15	QPSK	1	1	16.52	16.59	16.53	18.0	0.0	
Channel				630034	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3503.98			
10	QPSK	1	1	16.56	16.58	16.51	18.0	0.0	

Part270_n78_Ant 21							
Bin# (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq	Mode	High Ch. Freq	Power
				Low Ch. Freq	Mode	High Ch. Freq	
	Channel						
	Frequency (MHz)				3750		
100	P12 BPSK	1	1	16.44			
100	P12 BPSK	1	137	16.45		18.0	0.0
100	P12 BPSK	1	271	16.45			
100	P12 BPSK	135	0	16.45		18.0	0.0
100	P12 BPSK	135	88	16.47		18.0	0.0
100	P12 BPSK	135	136	16.48			
100	P12 BPSK	270	0	16.39			
100	QPSK	1	1	16.56			
100	QPSK	1	137	16.56		18.0	0.0
100	QPSK	1	271	16.48			
100	QPSK	135	0	16.47			
100	QPSK	135	88	16.59		18.0	0.0
100	QPSK	135	136	16.54			
100	QPSK	270	0	16.52		18.0	0.0
100	60QAM	1	1	16.53			
100	60QAM	1	1	16.52			
100	256QAM	1	1	16.45		18.0	0.0
	Channel						
	Frequency (MHz)			60695	60695	60692	Time-up limit (dBm)
90	QPSK	1	1	3745.02	3750	3745.98	MPR
90	QPSK	1	1	16.42	16.43	16.48	18.0
90	QPSK	1	1	60694.00	60696		Time-up limit (dBm)
90	QPSK	1	1	3745.02	3750	3745.98	MPR
80	QPSK	1	1	16.42	16.53	16.42	18.0
	Channel						
	Frequency (MHz)			54900	55000	55100	Time-up limit (dBm)
70	QPSK	1	1	3745.02	3750	3745.98	MPR
70	QPSK	1	1	16.45	16.53	16.46	18.0
	Channel						
	Frequency (MHz)			66586	66590	66512	Time-up limit (dBm)
60	QPSK	1	1	3747.02	3750	3746.98	MPR
60	QPSK	1	1	16.40	16.45	16.40	18.0
	Channel						
	Frequency (MHz)			66434	66500	66516	Time-up limit (dBm)
50	QPSK	1	1	3748.01	3750	3747.99	MPR
50	QPSK	1	1	16.37	16.47	16.43	18.0
	Channel						
	Frequency (MHz)			7200	3750	3760	Time-up limit (dBm)
40	QPSK	1	1	16.43	16.44	16.43	18.0
	Channel						
	Frequency (MHz)			34769	65000	65232	Time-up limit (dBm)
30	QPSK	1	1	3715.02	3750	3748.98	MPR
30	QPSK	1	1	16.47	16.47	16.48	18.0
	Channel						
	Frequency (MHz)			3715.01	3750	3748.99	MPR
25	QPSK	1	1	16.41	16.52	16.40	18.0
	Channel						
	Frequency (MHz)			43331	65000	65200	Time-up limit (dBm)
15	QPSK	1	1	3715.01	3750	3748.99	MPR
15	QPSK	1	1	16.40	16.47	16.40	18.0
	Channel						
	Frequency (MHz)			44170	65000	65262	Time-up limit (dBm)
10	QPSK	1	1	3715.02	3750	3742.98	MPR
10	QPSK	1	1	16.40	16.45	16.47	18.0
	Channel						
	Frequency (MHz)			44700	65000	65300	Time-up limit (dBm)
5	QPSK	1	1	3715	3750	3746	MPR
5	QPSK	1	1	16.42	16.52	16.40	18.0

Part270_n78_HPUE_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Down Lk Ch Freq	Down Mode Ch Freq	High Ch Freq	Time-up time (dbs)	MPR (db)	
Channel									
Frequency (MHz)									
100	P16 BPSK	1	1	3750					
100	P16 BPSK	1	1	16.44			18.0	0.0	
100	P16 BPSK	1	137	16.44			18.0	0.0	
100	P16 BPSK	1	271	16.45			18.0	0.0	
100	P16 BPSK	135	0	16.45			18.0	0.0	
100	P16 BPSK	135	49	16.47			18.0	0.0	
100	P16 BPSK	135	136	16.48			18.0	0.0	
100	P16 BPSK	272	0	16.39			18.0	0.0	
100	QPSK	1	1	16.58					
100	QPSK	1	1	16.58			18.0	0.0	
100	QPSK	1	137	16.58			18.0	0.0	
100	QPSK	1	271	16.58			18.0	0.0	
100	QPSK	135	0	16.47			18.0	0.0	
100	QPSK	135	49	16.53			18.0	0.0	
100	QPSK	135	136	16.54			18.0	0.0	
100	QPSK	272	0	16.52			18.0	0.0	
100	8QAM	1	1	16.53			18.0	0.0	
100	8QAM	1	1	16.52			18.0	0.0	
100	256QAM	1	1	16.45			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3465.92	650000	65032	Time-up time (dbs)	MPR (db)	
	Channel			64.434	3750	3754.98			
	Channel			16.46	16.43	16.46	Time-up time (dbs)	MPR (db)	
	Channel			64.434	650000	650066	Time-up time (dbs)	MPR (db)	
80	QPSK	1	1	3465.91	3750	3754.98	Time-up time (dbs)	MPR (db)	
	Channel			16.46	16.53	16.42	Time-up time (dbs)	MPR (db)	
	Channel			649000	650000	651000	Time-up time (dbs)	MPR (db)	
	Channel			3750	3750	3750	Time-up time (dbs)	MPR (db)	
70	QPSK	1	1	16.45	16.53	16.46	Time-up time (dbs)	MPR (db)	
	Channel			64.466	650000	651332	Time-up time (dbs)	MPR (db)	
60	QPSK	1	1	37.012			18.0	0.0	
	Channel			16.40	16.45	16.40	Time-up time (dbs)	MPR (db)	
	Channel			64.434	3750	3756.16	Time-up time (dbs)	MPR (db)	
	Channel			724.01	3750	3774.98	Time-up time (dbs)	MPR (db)	
50	QPSK	1	1	16.37	16.47	16.43	Time-up time (dbs)	MPR (db)	
	Channel			64.500	650000	650000	Time-up time (dbs)	MPR (db)	
40	QPSK	1	1	37.020			18.0	0.0	
	Channel			16.43	16.44	16.43	Time-up time (dbs)	MPR (db)	
	Channel			84.769	650000	652132	Time-up time (dbs)	MPR (db)	
30	QPSK	1	1	37.0150			18.0	0.0	
	Channel			16.47	16.47	16.48	Time-up time (dbs)	MPR (db)	
	Channel			64.500	650000	650000	Time-up time (dbs)	MPR (db)	
25	QPSK	1	1	37.0125			18.0	0.0	
	Channel			16.41	16.52	16.40	Time-up time (dbs)	MPR (db)	
	Channel			64.500	650000	650000	Time-up time (dbs)	MPR (db)	
20	QPSK	1	1	37.0101			18.0	0.0	
	Channel			16.40	16.47	16.40	Time-up time (dbs)	MPR (db)	
	Channel			64.500	650000	650000	Time-up time (dbs)	MPR (db)	
15	QPSK	1	1	37.0072			18.0	0.0	
	Channel			16.40	16.45	16.47	Time-up time (dbs)	MPR (db)	
	Channel			64.400	650000	653000	Time-up time (dbs)	MPR (db)	
10	QPSK	1	1	37.009			18.0	0.0	
	Channel			16.42	16.52	16.40	Time-up time (dbs)	MPR (db)	

Par27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq	Low Made Ch. Freq	Power High Ch. Freq	Time-up (ms) (dB)	MPR (dB)	
	Channel			63300	63332	63332			
	Frequency (MHz)			63300	63332	63332			
100	P16 BPSK	1		17	17.21		19.0	0.0	
100	P16 BPSK	1	137	3695	3698.98	3702.98			
100	P16 BPSK	1	271	17	17.33				
100	P16 BPSK	135	0	17	17.30		19.0	0.0	
100	P16 BPSK	135	69	17	17.32		19.0	0.0	
100	P16 BPSK	135	136	17	17.32		19.0	0.0	
100	P16 BPSK	270	0	17	17.27		19.0	0.0	
100	QPSK	1	1	17	17.47				
100	QPSK	1	137	3695	3698.98	3702.98			
100	QPSK	1	271	17	17.36		19.0	0.0	
100	QPSK	135	0	17	17.31				
100	QPSK	135	69	17	17.42		19.0	0.0	
100	QPSK	135	136	17	17.42				
100	QPSK	270	0	17	17.36		19.0	0.0	
100	8QAM	1	1	17	17.39		19.0	0.0	
100	8QAM	1	1	17	17.34		19.0	0.0	
100	28QAM	1	1	17	17.36		19.0	0.0	
	Channel			63500	63532	63532			
	Frequency (MHz)			63500	63532	63532			
95	QPSK	1		17	17.30	17.40	17.50		
	Channel			63700	63732	63732			
	Frequency (MHz)			63700	63732	63732			
80	QPSK	1		17	17.34	17.38	19.0	0.0	
	Channel			63900	63932	63932			
	Frequency (MHz)			63900	63932	63932			
75	QPSK	1		17	17.38	17.39	17.44	19.0	0.0
	Channel			64100	64132	64166			
	Frequency (MHz)			64100	64132	64166			
70	QPSK	1		17	17.30	17.32	17.34	19.0	0.0
	Channel			64300	64332	64366			
	Frequency (MHz)			64300	64332	64366			
65	QPSK	1		17	17.20	17.32	17.44	19.0	0.0
	Channel			64500	64532	64566			
	Frequency (MHz)			64500	64532	64566			
60	QPSK	1		17	17.1668	17.3332	17.5000	19.0	0.0
	Channel			64700	64732	64766			
	Frequency (MHz)			64700	64732	64766			
55	QPSK	1		17	17.1274	17.322	17.519	19.0	0.0
	Channel			64900	64932	64966			
	Frequency (MHz)			64900	64932	64966			
50	QPSK	1		17	17.1129	17.43	17.53	19.0	0.0
	Channel			65100	65132	65166			
	Frequency (MHz)			65100	65132	65166			
45	QPSK	1		17	17.1034	17.4988	17.5499	19.0	0.0
	Channel			65300	65332	65366			
	Frequency (MHz)			65300	65332	65366			
40	QPSK	1		17	17.38	17.34	17.25	19.0	0.0
	Channel			65500	65532	65532			
	Frequency (MHz)			65500	65532	65532			
35	QPSK	1		17	17.37	17.40	17.41	19.0	0.0
	Channel			65700	65732	65732			
	Frequency (MHz)			65700	65732	65732			
30	QPSK	1		17	17.40	17.46	17.50	19.0	0.0
	Channel			65900	65932	65932			
	Frequency (MHz)			65900	65932	65932			
25	QPSK	1		17	17.37	17.42	17.45	19.0	0.0
	Channel			66100	66132	66132			
	Frequency (MHz)			66100	66132	66132			
20	QPSK	1		17	17.36	17.45	17.50	19.0	0.0
	Channel			66300	66332	66332			
	Frequency (MHz)			66300	66332	66332			
15	QPSK	1		17	17.35	17.49	17.50	19.0	0.0
	Channel			66500	66532	66532			
	Frequency (MHz)			66500	66532	66532			
10	QPSK	1		17	17.34	17.38	17.50	19.0	0.0

Part27Q_n78_HPUE_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	17.29	3499.98				
100	P12 BPSK	1	137	17.41			19.0	0.0	
100	P12 BPSK	1	271	17.33					
100	P12 BPSK	135	0	17.30			19.0	0.0	
100	P12 BPSK	135	69	17.32			19.0	0.0	
100	P12 BPSK	135	138	17.27			19.0	0.0	
100	P12 BPSK	270	0	17.27					
100	QPSK	1	1	17.47					
100	QPSK	1	137	17.30			19.0	0.0	
100	QPSK	1	271	17.38					
100	QPSK	135	0	17.31					
100	QPSK	135	69	17.45			19.0	0.0	
100	QPSK	135	138	17.42					
100	QPSK	270	0	17.36			19.0	0.0	
100	16QAM	1	1	17.39			19.0	0.0	
100	64QAM	1	1	17.34			19.0	0.0	
100	256QAM	1	1	17.38			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.30	3499.98	3504.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.38	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.38	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.30	3499.98	3519.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.32	3499.98	3505	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.30	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.38	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.37	3499.98	3517.43	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.27	3499.98	3516.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.29	3499.98	3512.48	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.29	3499.98	3512.48	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	17.23	3750				
100	P12 BPSK	1	137	17.27			19.0	0.0	
100	P12 BPSK	1	271	17.32					
100	P12 BPSK	135	0	17.24			19.0	0.0	
100	P12 BPSK	135	69	17.27			19.0	0.0	
100	P12 BPSK	135	138	17.28			19.0	0.0	
100	P12 BPSK	270	0	17.24					
100	QPSK	1	1	17.40					
100	QPSK	1	137	17.28			19.0	0.0	
100	QPSK	1	271	17.27					
100	QPSK	135	0	17.28					
100	QPSK	135	69	17.32			19.0	0.0	
100	QPSK	135	138	17.29					
100	QPSK	270	0	17.31			19.0	0.0	
100	16QAM	1	1	17.23			19.0	0.0	
100	64QAM	1	1	17.18			19.0	0.0	
100	256QAM	1	1	17.22			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.20	3745.02	3754.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	3740.01	3750	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.21	3730	3745	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.28	3725.01	3735	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.20	3720.01	3730	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.20	3715.01	3725	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.24	3710.01	3720	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.28	3705.01	3715	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.20	3700.01	3710	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.29	3695.01	3705	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.23	3690.01	3700	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n78_HPUE_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	17.29					
100	P12 BPSK	1	137	17.27			19.0	0.0	
100	P12 BPSK	1	271	17.32					
100	P12 BPSK	135	0	17.24			19.0	0.0	
100	P12 BPSK	135	69	17.27			19.0	0.0	
100	P12 BPSK	135	138	17.28			19.0	0.0	
100	P12 BPSK	270	0	17.24					
100	QPSK	1	1	17.40					
100	QPSK	1	137	17.28			19.0	0.0	
100	QPSK	1	271	17.27					
100	QPSK	135	0	17.28					
100	QPSK	135	69	17.32			19.0	0.0	
100	QPSK	135	138	17.29					
100	QPSK	270	0	17.31			19.0	0.0	
100	16QAM	1	1	17.23			19.0	0.0	
100	64QAM	1	1	17.18			19.0	0.0	
100	256QAM	1	1	17.22			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.20	3745.02	3754.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	3740.01	3750	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.21	3730	3745	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.28	3725.01	3735	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.20	3738	3727	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.28	3730	3780	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.28	3731	3721	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.24	3735	3720	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.28	3731	3722	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.20	3730	3717	19.0	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	17.20	3730	3730	19.0	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	17.20	3730	3730	19.0	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	17.20	3730	3730	19.0	0.0	

Part27Q_n77_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3495.98	3495.98	3495.98			
100	Pi2 BPSK	1	137	18.50			19.2	0.0	
100	Pi2 BPSK	1	271	18.47					
100	Pi2 BPSK	135	0	18.42			19.2	0.0	
100	Pi2 BPSK	135	69	18.47			19.2	0.0	
100	Pi2 BPSK	135	138	18.44			19.2	0.0	
100	Pi2 BPSK	270	0	18.47					
100	QPSK	1	1	18.35					
100	QPSK	1	137	18.48			19.2	0.0	
100	QPSK	1	271	18.44					
100	QPSK	135	0	18.40					
100	QPSK	135	69	18.53			19.2	0.0	
100	QPSK	135	138	18.39					
100	QPSK	270	0	18.51			19.2	0.0	
100	16QAM	1	1	18.49			19.2	0.0	
100	64QAM	1	1	18.49			19.2	0.0	
100	256QAM	1	1	18.41			19.2	0.0	
Channel									
90	QPSK	1	1	3495.98	3495.98	3495.98			
90	QPSK	1	1	18.46	18.44	18.45	19.2	0.0	
Channel									
80	QPSK	1	1	3495.98	3495.98	3495.98			
80	QPSK	1	1	18.46	18.47	18.38	19.2	0.0	
Channel									
70	QPSK	1	1	3495.98	3495.98	3495.98			
70	QPSK	1	1	18.49	18.40	18.52	19.2	0.0	
Channel									
60	QPSK	1	1	3495.98	3495.98	3495.98			
60	QPSK	1	1	18.50	18.44	18.46	19.2	0.0	
Channel									
50	QPSK	1	1	3495.98	3495.98	3495.98			
50	QPSK	1	1	18.49	18.50	18.49	19.2	0.0	
Channel									
40	QPSK	1	1	3495.98	3495.98	3495.98			
40	QPSK	1	1	18.44	18.40	18.45	19.2	0.0	
Channel									
30	QPSK	1	1	3495.98	3495.98	3495.98			
30	QPSK	1	1	18.48	18.40	18.42	19.2	0.0	
Channel									
25	QPSK	1	1	3495.98	3495.98	3495.98			
25	QPSK	1	1	18.43	18.50	18.47	19.2	0.0	
Channel									
20	QPSK	1	1	3495.98	3495.98	3495.98			
20	QPSK	1	1	18.39	18.39	18.51	19.2	0.0	
Channel									
15	QPSK	1	1	3495.98	3495.98	3495.98			
15	QPSK	1	1	18.47	18.47	18.45	19.2	0.0	
Channel									
10	QPSK	1	1	3495.98	3495.98	3495.98			
10	QPSK	1	1	18.52	18.45	18.42	19.2	0.0	

Part27Q_n77_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3750	3840	3930			
100	Pi2 BPSK	1	137	18.13	18.20	18.16			
100	Pi2 BPSK	1	137	18.26	18.27	18.22	19.2	0.0	
100	Pi2 BPSK	1	271	18.18	18.20	18.16			
100	Pi2 BPSK	135	0	18.26	18.30	18.24	19.2	0.0	
100	Pi2 BPSK	135	69	18.17	18.24	18.28	19.2	0.0	
100	Pi2 BPSK	135	138	18.18	18.26	18.22	19.2	0.0	
100	Pi2 BPSK	270	0	18.22	18.24	18.26			
100	QPSK	1	1	18.31	18.35	18.31			
100	QPSK	1	137	18.21	18.20	18.17	19.2	0.0	
100	QPSK	1	271	18.20	18.28	18.17			
100	QPSK	135	0	18.28	18.27	18.25			
100	QPSK	135	69	18.31	18.33	18.30	19.2	0.0	
100	QPSK	135	138	18.27	18.23	18.27			
100	QPSK	270	0	18.30	18.31	18.28	19.2	0.0	
100	16QAM	1	1	18.16	18.28	18.25	19.2	0.0	
100	64QAM	1	1	18.20	18.26	18.22	19.2	0.0	
100	256QAM	1	1	18.18	18.21	18.27	19.2	0.0	
Channel									
90	QPSK	1	1	3745.02	3840	3934.98			
90	QPSK	1	1	18.19	18.26	18.27	19.2	0.0	
Channel									
80	QPSK	1	1	3740.01	3840	3939.98			
80	QPSK	1	1	18.30	18.28	18.22	19.2	0.0	
Channel									
70	QPSK	1	1	3735	3840	3945			
70	QPSK	1	1	18.30	18.30	18.26	19.2	0.0	
Channel									
60	QPSK	1	1	3725	3840	3955			
60	QPSK	1	1	18.16	18.26	18.18	19.2	0.0	
Channel									
50	QPSK	1	1	3725.01	3840	3954.98			
50	QPSK	1	1	18.23	18.19	18.24	19.2	0.0	
Channel									
40	QPSK	1	1	3720	3840	3960			
40	QPSK	1	1	18.20	18.31	18.20	19.2	0.0	
Channel									
30	QPSK	1	1	3715.02	3840	3964.98			
30	QPSK	1	1	18.23	18.19	18.17	19.2	0.0	
Channel									
25	QPSK	1	1	3710.01	3840	3969.98			
25	QPSK	1	1	18.15	18.27	18.20	19.2	0.0	
Channel									
20	QPSK	1	1	3705.02	3840	3974.98			
20	QPSK	1	1	18.22	18.24	18.22	19.2	0.0	
Channel									
15	QPSK	1	1	3700.01	3840	3979.98			
15	QPSK	1	1	18.19	18.23	18.23	19.2	0.0	

Part27Q_n77_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	Pi2 BPSK	1	1	3499.98	3499.98	3499.98			
100	Pi2 BPSK	1	137	15.60			16.5	0.0	
100	Pi2 BPSK	1	271	15.78					
100	Pi2 BPSK	135	0	15.77			16.5	0.0	
100	Pi2 BPSK	135	69	15.80			16.5	0.0	
100	Pi2 BPSK	135	138	15.79			16.5	0.0	
100	Pi2 BPSK	270	0	15.69					
100	QPSK	1	1	15.85					
100	QPSK	1	137	15.78			16.5	0.0	
100	QPSK	1	271	15.68					
100	QPSK	135	0	15.76					
100	QPSK	135	69	15.83			16.5	0.0	
100	QPSK	135	138	15.72					
100	QPSK	270	0	15.81			16.5	0.0	
100	16QAM	1	1	15.72			16.5	0.0	
100	64QAM	1	1	15.71			16.5	0.0	
100	256QAM	1	1	15.60			16.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3495.98	3495.98	3495.98			
90	QPSK	1	1	15.79	15.82	15.78	16.5	0.0	
Channel				636068	633352	634000	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3490.02	3495.98	3510			
80	QPSK	1	1	15.78	15.72	15.69	16.5	0.0	
Channel				632334	634332	634332	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3485.01	3495.98	3514.98			
70	QPSK	1	1	15.68	15.80	15.69	16.5	0.0	
Channel				630000	633332	634666	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3480.01	3495.98	3519.98			
60	QPSK	1	1	15.68	15.74	15.74	16.5	0.0	
Channel				631668	633332	633000	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3475.02	3499.98	3525			
50	QPSK	1	1	15.76	15.81	15.76	16.5	0.0	
Channel				631534	633332	633332	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3470.01	3499.98	3529.98			
40	QPSK	1	1	15.78	15.69	15.72	16.5	0.0	
Channel				631001	633332	633666	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3465.01	3499.98	3534.98			
30	QPSK	1	1	15.68	15.73	15.62	16.5	0.0	
Channel				630574	633332	633332	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3460.21	3499.98	3537.48			
25	QPSK	1	1	15.73	15.74	15.79	16.5	0.0	
Channel				630896	633332	633000	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3460.92	3499.98	3540			
20	QPSK	1	1	15.69	15.75	15.80	16.5	0.0	
Channel				630500	633332	633166	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3459.68	3499.98	3542.68			
15	QPSK	1	1	15.82	15.82	15.77	16.5	0.0	
Channel				630334	633332	633332	Tune-up limit (dBm)	MPR	
Frequency [MHz]				3458.61	3499.98	3544.68			
10	QPSK	1	1	15.65	15.76	15.72	16.5	0.0	

Part270_n77_Ant 12									
HW (MHz)	Modulation	RB Size	RB Offset	Power Floor (dBm)	Power Margin (dB)	Power Floor (dBm)	Power Margin (dB)	Time-up time (s)	MPR (dB)
Frequency (MHz)									
100	P12 BPSK	1	1	19.36	15.47	15.43			
100	P12 BPSK	1	1	15.46	15.47	15.43	16.5	0.0	
100	P12 BPSK	1	271	15.36	15.40	15.43			
100	P12 BPSK	135	0	15.36	15.50	15.35	16.5	0.0	
100	P12 BPSK	135	69	15.36	15.52	15.44	16.5	0.0	
100	P12 BPSK	135	138	15.41	15.35	15.36	16.5	0.0	
100	P12 BPSK	279	0	15.37	15.41	15.39			
100	QPSK	1	1	15.35	15.50	15.51			
100	QPSK	1	127	15.40	15.45	15.37	16.5	0.0	
100	QPSK	1	271	15.46	15.50	15.48			
100	QPSK	135	0	15.40	15.51	15.41			
100	QPSK	135	69	15.40	15.53	15.40	16.5	0.0	
100	QPSK	135	138	15.49	15.48	15.41			
100	QPSK	279	0	15.50	15.51	15.48	16.5	0.0	
100	16QAM	1	1	15.46	15.49	15.45	16.5	0.0	
100	16QAM	1	127	15.46	15.45	15.37			
100	256QAM	1	1	15.43	15.45	15.45	16.5	0.0	
Channel				646968	660000	66232	Time-up time (s)	MPR	
Frequency (MHz)				31621	3460	3348.98	16.5	0.0	
90	QPSK	1	1	15.37	15.43	15.40	16.5	0.0	
Channel				645334	660000	662666	Time-up time (s)	MPR	
Frequency (MHz)				31621	3460	3348.98	16.5	0.0	
80	QPSK	1	1	15.43	15.51	15.48	16.5	0.0	
Channel				646900	660000	663100	Time-up time (s)	MPR	
Frequency (MHz)				31621	3460	3348.98	16.5	0.0	
70	QPSK	1	1	15.42	15.43	15.39	16.5	0.0	
Channel				646868	660000	663332	Time-up time (s)	MPR	
Frequency (MHz)				32012	3460	3409.16	16.5	0.0	
60	QPSK	1	1	15.41	15.53	15.46	16.5	0.0	
Channel				645334	660000	663968	Time-up time (s)	MPR	
Frequency (MHz)				3225.01	3460	3594.99	16.5	0.0	
50	QPSK	1	1	15.36	15.41	15.33	16.5	0.0	
Channel				646000	660000	663000	Time-up time (s)	MPR	
Frequency (MHz)				3220	3460	3560	16.5	0.0	
40	QPSK	1	1	15.45	15.44	15.47	16.5	0.0	
Channel				647466	660000	663332	Time-up time (s)	MPR	
Frequency (MHz)				3715.02	3460	3664.98	16.5	0.0	
30	QPSK	1	1	15.42	15.39	15.38	16.5	0.0	
Channel				647050	660000	663500	Time-up time (s)	MPR	
Frequency (MHz)				3712.5	3460	3667.5	16.5	0.0	
25	QPSK	1	1	15.40	15.49	15.38	16.5	0.0	
Channel				647245	660000	664666	Time-up time (s)	MPR	
Frequency (MHz)				3715.03	3460	3669.99	16.5	0.0	
20	QPSK	1	1	15.49	15.51	15.41	16.5	0.0	
Channel				647106	660000	664832	Time-up time (s)	MPR	
Frequency (MHz)				3712.5	3460	3667.5	16.5	0.0	
15	QPSK	1	1	15.45	15.42	15.48	16.5	0.0	
Channel				647000	660000	665000	Time-up time (s)	MPR	
Frequency (MHz)				3715.03	3460	3669.99	16.5	0.0	
10	QPSK	1	1	15.43	15.47	15.47	16.5	0.0	

Part27Q_n77_Ant 21									
HW [MHz]	Modulation	RB Size	RB Offset	Power Floor Ch./F.Freq.	Power High Ch./F.Freq.	Power Floor Ch./F.Freq.	Power High Ch./F.Freq.	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)									
100	P12.5 BPSK	1	1	14.13					
100	P12.5 BPSK	1	127	14.19				15.0	0.0
100	P12.5 BPSK	1	271	14.13					
100	P12.5 BPSK	139	0	14.17				15.0	0.0
100	P12.5 BPSK	135	69	14.26					
100	P12.5 BPSK	139	139	14.26				15.0	0.0
100	P12.5 BPSK	270	0	14.15					
100	QPSK	1	1	14.30					
100	QPSK	1	127	14.22				15.0	0.0
100	QPSK	1	271	14.13					
100	QPSK	139	0	14.21					
100	QPSK	135	69	14.28				15.0	0.0
100	QPSK	139	139	14.28					
100	QPSK	270	0	14.27				15.0	0.0
100	16QAM	1	1	14.23				15.0	0.0
100	16QAM	1	1	14.20					
100	256QAM	1	1	14.25				15.0	0.0
Channel									
	Frequency (MHz)	1		63300	63332	63366		Tune-up limit	MPR
90	QPSK	1	1	14.25	14.13	14.20		Tune-up limit	MPR
	Frequency (MHz)	1		63468	63332	63400		Tune-up limit	MPR
80	QPSK	1	1	14.23	14.16	14.16		Tune-up limit	MPR
	Frequency (MHz)	1		63294	63332	63332		Tune-up limit	MPR
80	QPSK	1	1	14.23	14.17	14.17		Tune-up limit	MPR
	Frequency (MHz)	1		63334	63332	63346		Tune-up limit	MPR
70	QPSK	1	1	14.17	14.17	14.28		15.0	0.0
	Frequency (MHz)	1		63000	63332	63366		Tune-up limit	MPR
60	QPSK	1	1	14.23	14.27	14.27		Tune-up limit	MPR
	Frequency (MHz)	1		63168	63332	63350		Tune-up limit	MPR
50	QPSK	1	1	14.16	14.16	14.25		15.0	0.0
	Frequency (MHz)	1		63470	63332	63350		Tune-up limit	MPR
40	QPSK	1	1	14.27	14.22	14.22		15.0	0.0
	Frequency (MHz)	1		63334	63332	63332		Tune-up limit	MPR
30	QPSK	1	1	14.18	14.16	14.21		15.0	0.0
	Frequency (MHz)	1		63470	63332	63350		Tune-up limit	MPR
20	QPSK	1	1	14.26	14.16	14.16		15.0	0.0
	Frequency (MHz)	1		3466	3499.98	3504.99		Tune-up limit	MPR
30	QPSK	1	1	14.20	14.21	14.19		15.0	0.0
	Frequency (MHz)	1		36533	63332	63332		Tune-up limit	MPR
25	QPSK	1	1	14.25	14.14	14.27		15.0	0.0
	Frequency (MHz)	1		36698	63332	63600		Tune-up limit	MPR
20	QPSK	1	1	14.19	14.26	14.24		15.0	0.0
	Frequency (MHz)	1		36500	63332	63616		Tune-up limit	MPR
15	QPSK	1	1	14.24	14.16	14.13		15.0	0.0
	Frequency (MHz)	1		63334	63332	63332		Tune-up limit	MPR
10	QPSK	1	1	14.17	14.20	14.24		15.0	0.0

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BW (MHz)	Modulation	RBI Size	ROI Offset	Power Floor Ch.Freqs.	Power Floor Ch.Freqs.	Power Floor Ch.Freqs.	Time-up time (dBm)	MPR (dB)	
100	P25 BPSK -1	1		14.14	14.11	14.06			
100	P25 BPSK -1	1	14.12	14.09	14.09	14.07	15.0	0.0	
100	P25 BPSK -1	275	14.18	14.12	14.12	14.06			
100	P25 BPSK -136	0		14.12	14.16	14.19	15.0	0.0	
100	P25 BPSK -136	69		14.17	14.18	14.10	15.0	0.0	
100	P25 BPSK -136	136		14.18	14.22	14.18	15.0	0.0	
100	P25 BPSK -270	0		14.18	14.16	14.10			
100	QPSK -1	1		14.22	14.25	14.21			
100	QPSK -1	121		14.12	14.08	14.06			
100	QPSK -1	275	14.14	14.14	14.10	14.10	15.0	0.0	
100	QPSK -136	0		14.08	14.08	14.15			
100	QPSK -136	69		14.12	14.23	14.20			0.0
100	QPSK -136	136		14.20	14.22	14.09			
100	QPSK -270	0		14.20	14.12	14.18	15.0	0.0	
100	16QAM -1	1		14.20	14.17	14.08	15.0	0.0	
100	16QAM -1	1		14.08	14.14	14.10	15.0	0.0	
50	Channel			669508	669500	663232	Time-up limit (dBm)	MPR	
50	Frequency (MHz)			3145.0	3144.0	3094.54(9)			
50	QPSK -1	1		14.02	14.11	14.05	15.0	0.0	
50	QPSK -1	1		669334	669300	662666	Time-up limit (dBm)	MPR	
50	Frequency (MHz)			3142.01	3141.0	3093.87(9)			
50	QPSK -1	1		14.09	14.14	14.08	15.0	0.0	
50	Channel			669000	669000	663000	Time-up limit (dBm)	MPR	
50	Frequency (MHz)			3139.98	3139.0	3089.54(9)			
70	QPSK -1	1		14.07	14.09	14.15	15.0	0.0	
70	Channel			669600	669600	663332	Time-up limit (dBm)	MPR	
70	Frequency (MHz)			3140.02	3140.0	3094.54(9)			
80	QPSK -1	1		14.13	14.13	14.13	15.0	0.0	
80	Channel			669334	669300	663566	Time-up limit (dBm)	MPR	
80	Frequency (MHz)			3137.01	3134.0	3094.54(9)			
50	QPSK -1	1		14.23	14.11	14.19	15.0	0.0	
50	Channel			669000	669000	663000	Time-up limit (dBm)	MPR	
50	Frequency (MHz)			3137.00	3134.0	3094.54(9)			
40	QPSK -1	1		14.08	14.19	14.06	15.0	0.0	
40	Channel			669115	669100	663332	Time-up limit (dBm)	MPR	
40	Frequency (MHz)			3115.02	3110.0	3094.54(9)			
30	QPSK -1	1		14.17	14.20	14.10	15.0	0.0	
30	Channel			669000	669000	663000	Time-up limit (dBm)	MPR	
30	Frequency (MHz)			3117.25	3110.0	3097.5			
25	QPSK -1	1		14.06	14.18	14.11	15.0	0.0	
25	Channel			667334	669000	664666	Time-up limit (dBm)	MPR	
25	Frequency (MHz)			3110.01	3110.0	3090.90(9)			
20	QPSK -1	1		14.18	14.17	14.14	15.0	0.0	
20	Channel			661166	669000	664532	Time-up limit (dBm)	MPR	
20	Frequency (MHz)			3107.24	3107.0	3092.24(9)			
15	QPSK -1	1		14.20	14.15	14.14	15.0	0.0	
15	Channel			667000	669000	665500	Time-up limit (dBm)	MPR	
15	Frequency (MHz)			3112.00	3112.0	3098.0			
10	QPSK -1	1		14.14	14.09	14.18	15.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	P12 BPSK	1	1	18.12					
100	P12 BPSK	1	137	18.31			19.2	0.0	
100	P12 BPSK	1	271	18.28					
100	P12 BPSK	135	0	18.31			19.2	0.0	
100	P12 BPSK	135	69	18.28			19.2	0.0	
100	P12 BPSK	135	138	18.27			19.2	0.0	
100	P12 BPSK	270	0	18.29					
100	QPSK	1	1	18.35			19.2	0.0	
100	QPSK	1	137	18.28			19.2	0.0	
100	QPSK	1	271	18.22					
100	QPSK	135	0	18.32			19.2	0.0	
100	QPSK	135	69	18.33			19.2	0.0	
100	QPSK	135	138	18.28					
100	QPSK	270	0	18.31			19.2	0.0	
100	16QAM	1	1	18.18			19.2	0.0	
100	64QAM	1	1	18.28			19.2	0.0	
100	256QAM	1	1	18.31			19.2	0.0	
Channel				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	18.18	18.19	18.28	19.2	0.0	
Channel				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98	3499.98	3500			
80	QPSK	1	1	18.19	18.20	18.19	19.2	0.0	
Channel				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.01	3499.98	3514.98			
70	QPSK	1	1	18.22	18.26	18.18	19.2	0.0	
Channel				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.23	18.28	18.21	19.2	0.0	
60	QPSK	1	1	18.23	18.28	18.21	19.2	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3415.02	3499.98	3505			
50	QPSK	1	1	18.18	18.22	18.29	19.2	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.23	18.32	18.28	19.2	0.0	
40	QPSK	1	1	18.23	18.32	18.28	19.2	0.0	
Channel				631000	633332	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.26	18.18	18.30	19.2	0.0	
30	QPSK	1	1	18.26	18.18	18.30	19.2	0.0	
Channel				630834	633332	636832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3415.01	3499.98	3507.48			
25	QPSK	1	1	18.19	18.28	18.27	19.2	0.0	
Channel				630668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3499.98	3540			
20	QPSK	1	1	18.21	18.19	18.25	19.2	0.0	
Channel				630500	633332	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	18.31	18.24	18.25	19.2	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.88			
10	QPSK	1	1	18.31	18.20	18.27	19.2	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P12 BPSK	1	1	18.34					
100	P12 BPSK	1	137	18.31			19.2	0.0	
100	P12 BPSK	1	271	18.24					
100	P12 BPSK	135	0	18.25			19.2	0.0	
100	P12 BPSK	135	69	18.35			19.2	0.0	
100	P12 BPSK	135	138	18.24			19.2	0.0	
100	P12 BPSK	270	0	18.22					
100	QPSK	1	1	18.38			19.2	0.0	
100	QPSK	1	137	18.24			19.2	0.0	
100	QPSK	1	271	18.32					
100	QPSK	135	0	18.32			19.2	0.0	
100	QPSK	135	69	18.37			19.2	0.0	
100	QPSK	135	138	18.29					
100	QPSK	270	0	18.35			19.2	0.0	
100	16QAM	1	1	18.24			19.2	0.0	
100	64QAM	1	1	18.33			19.2	0.0	
100	256QAM	1	1	18.25			19.2	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	18.36	18.22	18.23	19.2	0.0	
Channel				649334	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	18.30	18.33	18.31	19.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.31	18.23	18.22	19.2	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.33	18.27	18.26	19.2	0.0	
60	QPSK	1	1	18.33	18.27	18.26	19.2	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.34	18.28	18.22	19.2	0.0	
50	QPSK	1	1	18.34	18.28	18.22	19.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.35	18.33	18.35	19.2	0.0	
40	QPSK	1	1	18.35	18.33	18.35	19.2	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.34	18.31	18.28	19.2	0.0	
30	QPSK	1	1	18.34	18.31	18.28	19.2	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				18.23	18.22	18.23	19.2	0.0	
25	QPSK	1	1	18.23	18.22	18.23	19.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.99			
20	QPSK	1	1	18.23	18.27	18.26	19.2	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.48			
15	QPSK	1	1	18.26	18.28	18.29	19.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3765			
10	QPSK	1	1	18.29	18.22	18.33	19.2	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P12 BPSK	1	1	18.34					
100	P12 BPSK	1	137	18.31			19.2	0.0	
100	P12 BPSK	1	271	18.24					
100	P12 BPSK	135	0	18.25			19.2	0.0	
100	P12 BPSK	135	69	18.35			19.2	0.0	
100	P12 BPSK	135	138	18.24			19.2	0.0	
100	P12 BPSK	270	0	18.22					
100	QPSK	1	1	18.38			19.2	0.0	
100	QPSK	1	137	18.24			19.2	0.0	
100	QPSK	1	271	18.32					
100	QPSK	135	0	18.32			19.2	0.0	
100	QPSK	135	69	18.37			19.2	0.0	
100	QPSK	135	138	18.29					
100	QPSK	270	0	18.35			19.2	0.0	
100	16QAM	1	1	18.24			19.2	0.0	
100	64QAM	1	1	18.33			19.2	0.0	
100	256QAM	1	1	18.25			19.2	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	18.36	18.22	18.23	19.2	0.0	
Channel				649334	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	18.30	18.33	18.31	19.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.31	18.23	18.22	19.2	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	18.33	18.27	18.26	19.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	18.34	18.28	18.22	19.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.35	18.33	18.35	19.2	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.98			
30	QPSK	1	1	18.24	18.31	18.26	19.2	0.0	
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.99			
25	QPSK	1	1	18.23	18.22	18.23	19.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.01	3750	3805.99			
20	QPSK	1	1	18.25	18.27	18.26	19.2	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.02	3750	3792.98			
15	QPSK	1	1	18.28	18.25	18.29	19.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.29	18.22	18.33	19.2	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	P2/BPSK	1	1	16.11					
100	P2/BPSK	1	137	16.26			17.5	0.0	
100	P2/BPSK	1	271	16.31					
100	P2/BPSK	135	0	16.26			17.5	0.0	
100	P2/BPSK	135	69	16.29			17.5	0.0	
100	P2/BPSK	135	138	16.25			17.5	0.0	
100	P2/BPSK	270	0	16.27					
100	QPSK	1	1	16.35					
100	QPSK	1	137	16.31			17.5	0.0	
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.18					
100	QPSK	135	69	16.33			17.5	0.0	
100	QPSK	135	138	16.23					
100	QPSK	270	0	16.31			17.5	0.0	
100	16QAM	1	1	16.22			17.5	0.0	
100	64QAM	1	1	16.26			17.5	0.0	
100	256QAM	1	1	16.22			17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.23	16.27	16.29	17.5	0.0	
Channel									
Frequency (MHz)				3489.98	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.32	16.18	16.24	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.28	16.19	16.21	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.23	16.23	16.29	17.5	0.0	
Channel									
Frequency (MHz)				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.31	16.24	16.27	17.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.30	16.24	16.30	17.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.21	16.31	16.29	17.5	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.29	16.21	16.23	17.5	0.0	
Channel									
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.24	16.25	16.32	17.5	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.28	16.29	16.19	17.5	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.21	16.22	16.20	17.5	0.0	

Part27Q_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	P2/BPSK	1	1	16.31					
100	P2/BPSK	1	137	16.26			17.5	0.0	
100	P2/BPSK	1	271	16.31					
100	P2/BPSK	135	0	16.26			17.5	0.0	
100	P2/BPSK	135	69	16.29			17.5	0.0	
100	P2/BPSK	135	138	16.25			17.5	0.0	
100	P2/BPSK	270	0	16.27					
100	QPSK	1	1	16.35					
100	QPSK	1	137	16.31			17.5	0.0	
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.18					
100	QPSK	135	69	16.33			17.5	0.0	
100	QPSK	135	138	16.23					
100	QPSK	270	0	16.31			17.5	0.0	
100	16QAM	1	1	16.22			17.5	0.0	
100	64QAM	1	1	16.26			17.5	0.0	
100	256QAM	1	1	16.22			17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.23	16.27	16.29	17.5	0.0	
Channel									
Frequency (MHz)				3489.98	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.32	16.18	16.24	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.28	16.19	16.21	17.5	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.23	16.23	16.29	17.5	0.0	
Channel									
Frequency (MHz)				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.31	16.24	16.27	17.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.30	16.24	16.30	17.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.21	16.31	16.29	17.5	0.0	
Channel									
Frequency (MHz)				630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.29	16.21	16.23	17.5	0.0	
Channel									
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.24	16.25	16.32	17.5	0.0	
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.28	16.29	16.19	17.5	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.21	16.22	16.20	17.5	0.0	

Part27Q_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P2/BPSK	1	1	16.02					
100	P2/BPSK	1	137	16.11			17.5	0.0	
100	P2/BPSK	1	271	16.02					
100	P2/BPSK	135	0	16.05			17.5	0.0	
100	P2/BPSK	135	69	16.07			17.5	0.0	
100	P2/BPSK	135	138	15.99			17.5	0.0	
100	P2/BPSK	270	0	16.06					
100	QPSK	1	1	16.15					
100	QPSK	1	137	16.08			17.5	0.0	
100	QPSK	1	271	16.08					
100	QPSK	135	0	16.05					
100	QPSK	135	69	16.13			17.5	0.0	
100	QPSK	135	138	16.08					
100	QPSK	270	0	16.11			17.5	0.0	
100	16QAM	1	1	15.98			17.5	0.0	
100	64QAM	1	1	15.99			17.5	0.0	
100	256QAM	1	1	16.06			17.5	0.0	
Channel				645000	650000	655032	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3750	3757.98			
90	QPSK	1	1	16.08	16.06	16.04	17.5	0.0	
Channel				648334	650000	650566	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.05	16.07	16.03	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.03	16.05	16.09	17.5	0.0	
Channel				648666	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	16.02	16.07	15.99	17.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	15.99	16.06	15.99	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3790			
40	QPSK	1	1	16.12	16.11	16.09	17.5	0.0	
Channel				647666	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.98			
30	QPSK	1	1	16.09	16.08	16.08	17.5	0.0	
Channel				647330	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.51	3750	3787.49			
25	QPSK	1	1	15.99	16.03	16.00	17.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	16.07	16.11	16.08	17.5	0.0	
Channel				647162	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
15	QPSK	1	1	16.03	16.03	16.09	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.11	16.11	16.11	17.5	0.0	

Part270_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	16.02	3790				
100	P12 BPSK	1	137	16.01			17.5	0.0	
100	P12 BPSK	1	271	16.02					
100	P12 BPSK	135	0	16.05			17.5	0.0	
100	P12 BPSK	135	49	16.07			17.5	0.0	
100	P12 BPSK	135	138	16.09			17.5	0.0	
100	P12 BPSK	270	0	16.06					
100	QPSK	1	1	16.15					
100	QPSK	1	137	16.08			17.5	0.0	
100	QPSK	1	271	16.08					
100	QPSK	135	0	16.05					
100	QPSK	135	49	16.08			17.5	0.0	
100	QPSK	135	138	16.13					
100	QPSK	270	0	16.11			17.5	0.0	
100	256QAM	1	1	16.06					
100	256QAM	1	137	16.06			17.5	0.0	
100	256QAM	1	271	16.09					
100	256QAM	135	0	16.05			17.5	0.0	
100	256QAM	135	49	16.07			17.5	0.0	
100	256QAM	135	138	16.08			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.08	16.06	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.05	16.07	16.03	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.12	16.11	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.15	16.00	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.19	16.30	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.07	16.11	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.08	16.11	16.11	17.5	0.0	

Par27Q_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. Freq.	Low-Middle Ch. Freq.	High Ch. Freq.	Time-up time (dBm)	MPR (dB)	
Channel <td>333333</td> <td></td> <td></td> <td></td> <td></td>				333333					
Frequency (MHz) <td>1</td> <td>333333</td> <td>346938</td> <td></td> <td></td>				1	333333	346938			
100	PQ2 BPSK	1	1	15	15.11				
100	PQ2 BPSK	1	137	15	15.12		16.5	0.0	
100	PQ2 BPSK	1	271	15	15.17				
100	PQ2 BPSK	135	0	15	15.19		16.5	0.0	
100	PQ2 BPSK	135	49	15	15.09		16.5	0.0	
100	PQ2 BPSK	135	136	15	15.09		16.5	0.0	
100	PQ2 BPSK	270	0	15	15.08				
100	QPSK	1	1	15	15.22				
100	QPSK	1	137	15	15.08		16.5	0.0	
100	QPSK	1	271	15	15.15				
100	QPSK	135	0	15	15.13				
100	QPSK	135	49	15	15.09		16.5	0.0	
100	QPSK	135	136	15	15.14				
100	QPSK	270	0	15	15.21		16.5	0.0	
100	256QAM	1	1	15	15.16		16.5	0.0	
100	256QAM	1	1	15	15.08		16.5	0.0	
100	256QAM	1	1	15	15.15		16.5	0.0	
Channel				633000					
Frequency (MHz)				3065	306938	320538	Time-up time (dBm)	MPR (dB)	
90	QPSK	1	1	15	15.09	15.15	16.5	0.0	
Channel				633333					
Frequency (MHz)				346938	346938	354400	Time-up time (dBm)	MPR (dB)	
80	QPSK	1	1	15	15.14	15.13	16.5	0.0	
Channel				633332					
Frequency (MHz)				346938	346938	352538	Time-up time (dBm)	MPR (dB)	
70	QPSK	1	1	15	15.13	15.09	16.5	0.0	
Channel				633330					
Frequency (MHz)				346938	346938	350838	Time-up time (dBm)	MPR (dB)	
60	QPSK	1	1	15	15.14	15.08	16.5	0.0	
Channel				633668					
Frequency (MHz)				347352	346938	35025	Time-up time (dBm)	MPR (dB)	
50	QPSK	1	1	15	15.11	15.09	16.5	0.0	
Channel				633332					
Frequency (MHz)				346938	346938	350332	Time-up time (dBm)	MPR (dB)	
40	QPSK	1	1	15	15.08	15.13	16.52	0.0	
Channel				633000					
Frequency (MHz)				3065	306938	354538	Time-up time (dBm)	MPR (dB)	
30	QPSK	1	1	15	15.17	15.10	15.09	16.5	0.0
Channel				346938					
Frequency (MHz)				346938	346938	3503748	Time-up time (dBm)	MPR (dB)	
20	QPSK	1	1	15	15.21	15.20	15.09	16.5	0.0
Channel				633332					
Frequency (MHz)				346938	346938	350300	Time-up time (dBm)	MPR (dB)	
10	QPSK	1	1	15	15.16	15.19	15.21	16.5	0.0
Channel				633330					
Frequency (MHz)				346938	346938	350366	Time-up time (dBm)	MPR (dB)	
15	QPSK	1	1	15	15.17	15.15	15.14	16.5	0.0
Channel				633334					
Frequency (MHz)				346938	346938	350332	Time-up time (dBm)	MPR (dB)	
10	QPSK	1	1	15	15.14	15.14	15.15	16.5	0.0

Part27Q_n78_HPUE_Ant 21							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	
	Channel						
	Frequency (MHz)			3469.98			
100	PQ4 MPRK	1	1	15.11			
100	PQ4 MPRK	1	137	15.12			16.5 0.0
100	PQ4 MPRK	1	271	15.17			
100	PQ4 MPRK	135	0	15.19			16.5 0.0
100	PQ4 MPRK	135	69	15.19			16.5 0.0
100	PQ4 MPRK	135	138	15.09			16.5 0.0
100	PQ4 MPRK	270	0	15.08			
100	QPSK	1	1	15.20			
100	QPSK	1	137	15.08			16.5 0.0
100	QPSK	1	271	15.15			
100	QPSK	135	0	15.13			
100	QPSK	135	69	15.03			16.5 0.0
100	QPSK	138	138	15.14			
100	QPSK	270	0	15.21			16.5 0.0
100	8QAM	1	1	15.16			0.0 0.0
100	8QAM	1	1	15.06			16.5 0.0
100	28QAM	1	1	15.15			16.6 0.0
	Channel			63300	63332	63366	
	Frequency (MHz)			3465	3469.98	3474.98	Time-up-lmt MPR (dB)
90	QPSK	1	1	15.09	15.15	15.11	16.5 0.0
	Channel			63368	63332	63400	
	Frequency (MHz)			3465	3469.98	3474.98	Time-up-lmt MPR (dB)
80	QPSK	1	1	15.14	15.13	15.17	16.5 0.0
	Channel			63434	63332	63432	
	Frequency (MHz)			3469.98	3469.98	3469.98	Time-up-lmt MPR (dB)
70	QPSK	1	1	15.13	15.08	15.19	16.5 0.0
	Channel			63500	63332	63466	
	Frequency (MHz)			3465	3469.98	3474.98	Time-up-lmt MPR (dB)
60	QPSK	1	1	15.22	15.14	15.08	16.5 0.0
	Channel			63468	63332	63500	
	Frequency (MHz)			3473.56	3469.98	3465	Time-up-lmt MPR (dB)
50	QPSK	1	1	15.07	15.11	15.09	16.5 0.0
	Channel			63534	63332	63532	
	Frequency (MHz)			3470.01	3469.98	3469.98	Time-up-lmt MPR (dB)
40	QPSK	1	1	15.08	15.13	15.22	16.5 0.0
	Channel			63500	63332	63506	
	Frequency (MHz)			3465	3469.98	3474.98	Time-up-lmt MPR (dB)
30	QPSK	1	1	15.17	15.10	15.09	16.5 0.0
	Channel			63532	63332	63532	
	Frequency (MHz)			3460.51	3469.98	3537.48	Time-up-lmt MPR (dB)
25	QPSK	1	1	15.21	15.20	15.09	16.8 0.0
	Channel			63608	63332	63600	
	Frequency (MHz)			3460.52	3469.98	3460	Time-up-lmt MPR (dB)
20	QPSK	1	1	15.16	15.19	15.21	16.6 0.0
	Channel			63630	63332	63616	
	Frequency (MHz)			3460.54	3469.98	3462.48	Time-up-lmt MPR (dB)
15	QPSK	1	1	15.17	15.15	15.14	16.5 0.0
	Channel			63634	63332	63632	
	Frequency (MHz)			3460.54	3469.98	3460.54	Time-up-lmt MPR (dB)
10	QPSK	1	1	15.14	15.14	15.15	16.5 0.0

Part270_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P12 BPSK	1	1	15.0					
100	P12 BPSK	1	137	15.12			16.5	0.0	
100	P12 BPSK	1	271	15.10					
100	P12 BPSK	135	0	15.00			16.5	0.0	
100	P12 BPSK	135	69	15.10			16.5	0.0	
100	P12 BPSK	135	138	15.07			16.5	0.0	
100	P12 BPSK	270	0	14.99					
100	QPSK	1	1	15.10					
100	QPSK	1	137	15.07			16.5	0.0	
100	QPSK	1	271	15.12					
100	QPSK	135	0	15.12			16.5	0.0	
100	QPSK	135	69	15.13			16.5	0.0	
100	QPSK	135	138	15.09					
100	QPSK	270	0	15.11			16.5	0.0	
100	16QAM	1	1	15.12			16.5	0.0	
100	64QAM	1	1	15.09			16.5	0.0	
100	256QAM	1	1	15.04			16.5	0.0	
Channel									
Frequency (MHz)				3745.02	3750	3754.98	(dBm)		
90	QPSK	1	1	15.00	15.03	15.03	16.5	0.0	
Channel									
Frequency (MHz)				3740.01	3750	3759.99	(dBm)		
80	QPSK	1	1	15.12	15.03	15.01	16.5	0.0	
Channel									
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.06	15.10	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648000	650000	651000	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	15.11	15.11	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	15.01	15.01	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	14.98	15.00	15.07	16.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	15.03	15.08	15.03	16.5	0.0	
Channel									
Frequency (MHz)				647500	650000	652500	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	15.11	15.10	15.04	16.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	15.00	15.01	15.12	16.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652832	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	15.00	15.03	15.11	16.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	15.08	14.99	15.07	16.5	0.0	

Part270_n78_HPUe_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P12 BPSK	1	1	15.0					
100	P12 BPSK	1	137	15.12			16.5	0.0	
100	P12 BPSK	1	271	15.10					
100	P12 BPSK	135	0	15.00			16.5	0.0	
100	P12 BPSK	135	69	15.10			16.5	0.0	
100	P12 BPSK	135	138	15.07			16.5	0.0	
100	P12 BPSK	270	0	14.99					
100	QPSK	1	1	15.15					
100	QPSK	1	137	15.07			16.5	0.0	
100	QPSK	1	271	15.12					
100	QPSK	135	0	15.12			16.5	0.0	
100	QPSK	135	69	15.13			16.5	0.0	
100	QPSK	135	138	15.09					
100	QPSK	270	0	15.11			16.5	0.0	
100	16QAM	1	1	15.12			16.5	0.0	
100	64QAM	1	1	15.09			16.5	0.0	
100	256QAM	1	1	15.04			16.5	0.0	
Channel									
Frequency (MHz)				3745.02	3750	3754.98	(dBm)		
90	QPSK	1	1	15.00	15.03	15.03	16.5	0.0	
Channel									
Frequency (MHz)				3740.01	3750	3759.99	(dBm)		
80	QPSK	1	1	15.12	15.03	15.01	16.5	0.0	
Channel									
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.06	15.10	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648000	650000	651000	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	15.11	15.11	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651666	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	15.01	15.01	14.99	16.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	14.98	15.00	15.07	16.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	15.03	15.08	15.03	16.5	0.0	
Channel									
Frequency (MHz)				647500	650000	652500	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	15.11	15.10	15.04	16.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	14.99	15.01	15.12	16.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652832	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	15.00	15.03	15.11	16.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	15.08	14.99	15.07	16.5	0.0	

Part270Q_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	P12 BPSK	1	1	15.22					
100	P12 BPSK	1	137	15.20			18.0	0.0	
100	P12 BPSK	1	271	15.22					
100	P12 BPSK	135	0	15.23			18.0	0.0	
100	P12 BPSK	135	69	15.18			18.0	0.0	
100	P12 BPSK	135	138	15.21			18.0	0.0	
100	P12 BPSK	270	0	15.19					
100	QPSK	1	1	15.35					
100	QPSK	1	137	15.24			18.0	0.0	
100	QPSK	1	271	15.22					
100	QPSK	135	0	15.26			18.0	0.0	
100	QPSK	135	69	15.33			18.0	0.0	
100	QPSK	135	138	15.32					
100	QPSK	270	0	15.31			18.0	0.0	
100	16QAM	1	1	15.29			18.0	0.0	
100	64QAM	1	1	15.19			18.0	0.0	
100	256QAM	1	1	15.23			18.0	0.0	
Channel				349900	353332	353666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3499.98	3499.98	3504.98	(dBm)		
90	QPSK	1	1	16.32	16.25	16.20	18.0	0.0	
Channel				349008	353332	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)		
80	QPSK	1	1	16.20	16.21	16.28	18.0	0.0	
Channel				3485.01	353332	354332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)		
70	QPSK	1	1	16.31	16.19	16.20	18.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2480	3499.98	3519.98	(dBm)		
60	QPSK	1	1	16.27	16.27	16.23	18.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				16.27	3499.98	3525	(dBm)		
50	QPSK	1	1	16.21	16.21	16.27	18.0	0.0	
Channel				6313.34	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				16.20	3499.98	3529.98	(dBm)		
40	QPSK	1	1	16.20	16.20	16.28	18.0	0.0	
Channel				3465	3499.98	3534.98	Tune-up limit (dBm)	MPR	
Frequency (MHz)				16.22	16.26	16.32	18.0	0.0	
30	QPSK	1	1	16.22	16.22	16.32	18.0	0.0	
Channel				630608	633332	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)		
25	QPSK	1	1	16.22	16.27	16.23	18.0	0.0	
Channel				630608	633332	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.52	3499.98	3540	(dBm)		
20	QPSK	1	1	16.31	16.29	16.22	18.0	0.0	
Channel				630606	633332	634166	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3458.88	3499.98	3542.88	(dBm)		
15	QPSK	1	1	16.18	16.20	16.29	18.0	0.0	
Channel				630334	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3458.51	3499.98	3544.88	(dBm)		
10	QPSK	1	1	16.21	16.18	16.22	18.0	0.0	

Part27Q_n78 HPUE_Ant_23								
[BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Free]	Power Middle Ch. [Free]	Power High Ch. [Free]	Time-up (ms) (dB)	MPR (dB)
Frequency (MHz)								
100	Pi4 BPSK	1	1	16.22	16.22	16.22	18.0	0.0
100	Pi4 BPSK	1	137	16.22	16.22	16.22	18.0	0.0
100	Pi4 BPSK	1	271	16.22	16.22	16.22	18.0	0.0
100	Pi4 BPSK	135	0	16.22	16.22	16.22	18.0	0.0
100	Pi4 BPSK	135	49	16.22	16.22	16.22	18.0	0.0
100	Pi4 BPSK	135	136	16.21	16.21	16.21	18.0	0.0
100	Pi4 BPSK	270	0	16.19	16.19	16.19	18.0	0.0
100	QPSK	1	1	16.30	16.30	16.30	18.0	0.0
100	QPSK	1	137	16.24	16.24	16.24	18.0	0.0
100	QPSK	1	271	16.22	16.22	16.22	18.0	0.0
100	QPSK	135	0	16.26	16.26	16.26	18.0	0.0
100	QPSK	135	49	16.26	16.26	16.26	18.0	0.0
100	QPSK	135	136	16.32	16.32	16.32	18.0	0.0
100	QPSK	270	0	16.31	16.31	16.31	18.0	0.0
100	8QAM	1	1	16.29	16.29	16.29	18.0	0.0
100	8QAM	1	1	16.19	16.19	16.19	18.0	0.0
100	25QAM	1	1	16.23	16.23	16.23	18.0	0.0
Frequency (MHz)								
90	QPSK	1	1	635500	635332	635332	Time-up (ms) (dB)	MPR (dB)
90	QPSK	1	3495	3495	3495	3495	18.0	0.0
90	QPSK	1	1	16.32	16.32	16.32	18.0	0.0
90	QPSK	1	3495	635668	635332	634600	Time-up (ms) (dB)	MPR (dB)
90	QPSK	1	3495	3495	3495	3495	18.0	0.0
80	QPSK	1	1	63204	63204	63218	Time-up (ms) (dB)	MPR (dB)
80	QPSK	1	1	63234	63332	63432	Time-up (ms) (dB)	MPR (dB)
80	QPSK	1	1	63432	63498	63598	Time-up (ms) (dB)	MPR (dB)
70	QPSK	1	1	63300	63318	63330	Time-up (ms) (dB)	MPR (dB)
70	QPSK	1	1	63318	63318	63318	18.0	0.0
70	QPSK	1	1	63318	63318	63318	18.0	0.0
60	QPSK	1	1	63600	63332	634666	Time-up (ms) (dB)	MPR (dB)
60	QPSK	1	1	3495	3495	3495	18.0	0.0
60	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
60	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
60	QPSK	1	1	3495	3495	3495	18.0	0.0
50	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
50	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
50	QPSK	1	1	631704	63332	635032	Time-up (ms) (dB)	MPR (dB)
50	QPSK	1	1	3495	3495	3495	18.0	0.0
50	QPSK	1	1	16.30	16.30	16.29	18.0	0.0
40	QPSK	1	1	6329	6329	6329	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	16.31	16.31	16.31	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.29	16.29	16.28	18.0	0.0
40	QPSK	1	1	3495	3495	3495	18.0	0.0
40	QPSK	1	1	16.27	16.27	16.27	18.0	0.0
40	QPSK	1	1	631668	63332	635000	Time-up (ms) (dB)	MPR (dB)
40	QPSK	1	1	3495	3495</			

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Bit/ [MHz]	Modulation	RB Size	RB Offset	Low Ch. Freq	Low Mode Ch. Freq	High Ch. Freq	Power High Ch. Freq	Time-up (ms) (dbm)	MPR (db)
			Channel						
			Frequency (MHz)						
100	PSS BPSK	1		16.37					
100	PSS BPSK	1	137	16.33			18.0	0.0	
100	PSS BPSK	1	271	16.41					
100	PSS BPSK	135	0	16.33			18.0	0.0	
100	PSS BPSK	135	69	16.34			18.0	0.0	
100	PSS BPSK	135	135	16.40			18.0	0.0	
100	PSS BPSK	270	0	16.35					
100	QPSK	1	1	16.39					
100	QPSK	1	137	16.32			18.0	0.0	
100	QPSK	1	271	16.34					
100	QPSK	135	0	16.34					
100	QPSK	135	69	16.43			18.0	0.0	
100	QPSK	135	135	16.36					
100	QPSK	270	0	16.41			18.0	0.0	
100	64QAM	1	1	16.39			18.0	0.0	
100	64QAM	1	1	16.30			18.0	0.0	
100	256QAM	1	1	16.30			18.0	0.0	
			Channel						
			Frequency (MHz)	645658	650000	655342	Time-up (ms) (dbm)	MPR (db)	
90	QPSK	1		3745.02	3750	3755.02	Time-up (ms) (dbm)	MPR (db)	
90	QPSK	1		16.44	16.36	16.41	18.0	0.0	
			Channel						
			Frequency (MHz)	646131	650000	655686	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3744.01	3750	3755.01	Time-up (ms) (dbm)	MPR (db)	
80	QPSK	1		16.37	16.29	16.35	18.0	0.0	
			Channel						
			Frequency (MHz)	646300	650000	651900	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3743.01	3750	3756.01	Time-up (ms) (dbm)	MPR (db)	
70	QPSK	1		16.34	16.37	16.31	18.0	0.0	
			Channel						
			Frequency (MHz)	646568	650000	651532	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3742.02	3750	3757.02	Time-up (ms) (dbm)	MPR (db)	
60	QPSK	1		16.37	16.29	16.41	18.0	0.0	
			Channel						
			Frequency (MHz)	646334	650000	651666	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3742.01	3750	3757.01	Time-up (ms) (dbm)	MPR (db)	
50	QPSK	1		16.40	16.29	16.38	18.0	0.0	
			Channel						
			Frequency (MHz)	646580	650000	652000	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3742.00	3750	3757.00	Time-up (ms) (dbm)	MPR (db)	
40	QPSK	1		16.42	16.44	16.33	18.0	0.0	
			Channel						
			Frequency (MHz)	647620	650000	652380	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3741.01	3750	3758.01	Time-up (ms) (dbm)	MPR (db)	
30	QPSK	1		16.38	16.30	16.31	18.0	0.0	
			Channel						
			Frequency (MHz)	646760	650000	652200	Time-up (ms) (dbm)	MPR (db)	
25	QPSK	1		16.32	16.36	16.38	18.0	0.0	
			Channel						
			Frequency (MHz)	3741.02	3750	3758.02	Time-up (ms) (dbm)	MPR (db)	
20	QPSK	1		16.30	16.40	16.31	18.0	0.0	
			Channel						
			Frequency (MHz)	647131	650000	652630	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3740.01	3750	3759.01	Time-up (ms) (dbm)	MPR (db)	
15	QPSK	1		16.30	16.40	16.41	18.0	0.0	
			Channel						
			Frequency (MHz)	647630	650000	653000	Time-up (ms) (dbm)	MPR (db)	
			Channel						
			Frequency (MHz)	3740.00	3750	3759.00	Time-up (ms) (dbm)	MPR (db)	
10	QPSK	1		16.31	16.30	16.28	18.0	0.0	

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Bit [MHz]	Modulation	RB Size	RB Offset	Low Ch. Freq	Low Made Ch. Freq	High Ch. Freq	Power	Time-up (ms)	MPR (dB)
Channel									
	Frequency (MHz)				3750				
100	PB4 BPSK	1			16.37				
100	PB4 BPSK	1	137		16.33		18.0	0.0	
100	PB4 BPSK	1	271		16.41				
100	PB4 BPSK	135	0		16.33		18.0	0.0	
100	PB4 BPSK	135	69		16.34		18.0	0.0	
100	PB4 BPSK	135	136		16.34		18.0	0.0	
100	PB4 BPSK	270	0		16.35				
100	QPSK	1	1		16.45				
100	QPSK	1	137		16.39		18.0	0.0	
100	QPSK	1	271		16.41				
100	QPSK	135	0		16.34				
100	QPSK	135	69		16.34		18.0	0.0	
100	QPSK	135	136		16.40				
100	QPSK	270	0		16.41		18.0	0.0	
100	8QAM	1	1		16.38				
100	8QAM	1	1		16.30		18.0	0.0	
100	256QAM	1	1		16.30		18.0	0.0	
Channel									
	Frequency (MHz)			466569	650000	650332		Time-up (ms)	MPR (dB)
90	QPSK	1		3745.50	3750	3750.50		Time-up (ms)	MPR (dB)
	Channel			464334	650000	650666		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3744.51	3750	3750.50		Time-up (ms)	MPR (dB)
80	QPSK	1		16.37	16.29	16.35	18.0	0.0	
	Channel			649300	650000	651000		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.50	3750	3750.50		Time-up (ms)	MPR (dB)
75	QPSK	1		16.34	16.37	16.31	18.0	0.0	
	Channel			646668	650000	651332		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3747.02	3750	3750.50		Time-up (ms)	MPR (dB)
60	QPSK	1		16.37	16.29	16.41	18.0	0.0	
	Channel			648334	650000	651666		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.51	3750	3750.50		Time-up (ms)	MPR (dB)
50	QPSK	1		16.43	16.29	16.36	18.0	0.0	
	Channel			647000	650000	652200		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.50	3750	3750.50		Time-up (ms)	MPR (dB)
40	QPSK	1		16.32	16.41	16.33	18.0	0.0	
	Channel			647668	650000	652332		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.51	3750	3750.50		Time-up (ms)	MPR (dB)
30	QPSK	1		16.38	16.30	16.31	18.0	0.0	
	Channel			647100	650000	652550		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.50	3750	3750.50		Time-up (ms)	MPR (dB)
25	QPSK	1		16.32	16.36	16.38	18.0	0.0	
	Channel			647312	650000	652625		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.51	3750	3750.50		Time-up (ms)	MPR (dB)
20	QPSK	1		16.40	16.41	16.39	18.0	0.0	
	Channel			647100	650000	653000		Time-up (ms)	MPR (dB)
	Frequency (MHz)			3745.50	3750	3750.50		Time-up (ms)	MPR (dB)
10	QPSK	1		16.37	16.30	16.38	18.0	0.0	

n2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1860	1900	23.3	0.0	
Frequency (MHz)				21.55	21.70	21.65			
20	Pl2 BPSK	1	1	21.55	21.60	21.62			
20	Pl2 BPSK	1	53	21.55	21.60	21.62			
20	Pl2 BPSK	1	104	21.58	21.59	21.62	23.3	0.0	
20	Pl2 BPSK	50	0	21.66	21.57	21.55			
20	Pl2 BPSK	50	28	21.61	21.65	21.67			
20	Pl2 BPSK	50	56	21.55	21.68	21.60			
20	Pl2 BPSK	100	0	21.60	21.62	21.53	23.3	0.0	
20	QPSK	1	1	21.71	21.73	21.70			
20	QPSK	1	53	21.69	21.59	21.55			
20	QPSK	1	104	21.67	21.68	21.62			
20	QPSK	50	0	21.64	21.60	21.56	23.3	0.0	
20	QPSK	50	28	21.70	21.71	21.68			
20	QPSK	50	56	21.57	21.58	21.64			
20	QPSK	100	0	21.68	21.70	21.66			
20	16QAM	1	1	21.59	21.68	21.61	23.3	0.0	
20	64QAM	1	1	20.88	20.90	20.86			
20	256QAM	1	1	19.39	20.00	19.96			
Channel				375500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1860	1862.5	23.3	0.0	
15	QPSK	1	1	21.59	21.59	21.64			
Channel				376000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1905	23.3	0.0	
10	QPSK	1	1	21.55	21.62	21.61			
Channel				376000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1861.5	1860	1867.5	23.3	0.0	
5	QPSK	1	1	21.61	21.60	21.55			

Reduced Power Mode for ECI 4									
n2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1860	1900	21.8	0.0	
Frequency (MHz)				20.27	20.35	20.28			
20	Pl2 BPSK	1	1	20.32	20.29	20.39			
20	Pl2 BPSK	1	53	20.32	20.29	20.39			
20	Pl2 BPSK	1	104	20.32	20.38	20.31	21.8	0.0	
20	Pl2 BPSK	50	0	20.36	20.28	20.27			
20	Pl2 BPSK	50	28	20.34	20.28	20.33			
20	Pl2 BPSK	50	56	20.37	20.42	20.37			
20	Pl2 BPSK	100	0	20.30	20.33	20.38	21.8	0.0	
20	QPSK	1	1	20.43	20.45	20.41			
20	QPSK	1	53	20.34	20.36	20.37			
20	QPSK	1	104	20.35	20.32	20.27			
20	QPSK	50	0	20.34	20.31	20.29	21.8	0.0	
20	QPSK	50	28	20.41	20.43	20.40			
20	QPSK	50	56	20.42	20.39	20.34			
20	QPSK	100	0	20.40	20.41	20.38			
20	16QAM	1	1	20.33	20.36	20.32	21.8	0.0	
20	64QAM	1	1	20.34	20.29	20.31			
20	256QAM	1	1	20.28	20.38	20.25			
Channel				375500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1860	1862.5	21.8	0.0	
15	QPSK	1	1	20.28	20.34	20.27			
Channel				376000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1905	21.8	0.0	
10	QPSK	1	1	20.32	20.34	20.37			
Channel				376000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1867.5	21.8	0.0	
5	QPSK	1	1	20.38	20.29	20.28			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	Tune-up limit (dbm)	MPR (db)				
Channel				372000	376000	380000						
Frequency (MHz)				1860	1860	1900						
20	Pl2 BPSK	1	1	23.03	23.10	23.06	24.5	0.0	0.0			
20	Pl2 BPSK	1	53	22.97	23.11	22.98						
20	Pl2 BPSK	1	104	23.00	23.08	23.08						
20	Pl2 BPSK	50	0	22.93	22.91	22.86						
20	Pl2 BPSK	50	28	23.02	23.05	22.95	24.0	0.5	0.0			
20	Pl2 BPSK	50	56	22.92	22.93	22.93						
20	Pl2 BPSK	100	0	22.99	22.98	22.49						
20	QPSK	1	1	23.13	23.15	23.11						
20	QPSK	1	53	22.96	23.10	22.96	24.5	0.0	0.0			
20	QPSK	1	104	23.07	23.03	22.98						
20	QPSK	50	0	22.90	21.98	22.93						
20	QPSK	50	28	23.11	23.13	23.10						
20	QPSK	50	56	21.99	22.92	22.98	23.5	1.0	0.0			
20	QPSK	100	0	22.10	22.11	22.08						
20	16QAM	1	1	21.96	21.98	21.95						
20	64QAM	1	1	20.98	21.00	20.96						
20	256QAM	1	1	20.03	20.05	20.01	21.0	3.5	0.0			
Channel				375500	376000	380500	Tune-up limit (dbm)	MPR (db)				
Frequency (MHz)				1867.5	1860	1902.5 <th></th> <th></th> <th></th>						
15	QPSK	1	1	23.05	23.09	23.02	23.5	0.0	0.0			
Channel				376000	376000	381000				Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1865	1860	1905 <th></th> <th></th> <th></th>						
10	QPSK	1	1	23.09	22.99	23.06				24.5	0.0	0.0
Channel				376000	376000	381500	Tune-up limit (dbm)	MPR (db)				
Frequency (MHz)				1862.5	1860	1907.5 <th></th> <th></th> <th></th>						
5	QPSK	1	1	23.09	23.01	23.07	24.5	0.0	0.0			

n5_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	23.65	23.66	23.63	
20	PI2 BPSK	1	53	23.59	23.59	23.52	
20	PI2 BPSK	1	104	23.62	23.61	23.51	
20	PI2 BPSK	50	0	23.11	23.02	23.07	25.0
20	PI2 BPSK	50	28	23.61	23.59	23.54	25.0
20	PI2 BPSK	50	56	23.03	23.06	23.12	24.5
20	PI2 BPSK	100	0	23.05	23.13	23.03	
20	QPSK	1	1	23.69	23.70	23.66	
20	QPSK	1	53	23.63	23.55	23.56	
20	QPSK	1	104	23.51	23.56	23.59	
20	QPSK	50	0	22.82	22.60	22.64	24.0
20	QPSK	50	28	23.69	23.68	23.65	25.0
20	QPSK	50	56	22.85	22.82	22.59	24.0
20	QPSK	100	0	22.67	22.70	22.65	
20	16QAM	1	1	22.43	22.45	22.41	24.0
20	64QAM	1	1	21.46	21.48	21.43	22.5
20	256QAM	1	1	20.55	20.56	20.53	21.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.55	23.67	23.52	25.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.61	23.56	23.59	25.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.53	23.62	23.60	25.0

n5_Ant 31							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	23.95	23.98	23.95	
20	PI2 BPSK	1	53	23.96	24.00	23.98	
20	PI2 BPSK	1	104	23.95	23.99	23.98	
20	PI2 BPSK	50	0	23.46	23.49	23.48	25.0
20	PI2 BPSK	50	28	23.91	23.97	23.93	25.5
20	PI2 BPSK	50	56	23.31	23.37	23.35	25.0
20	PI2 BPSK	100	0	23.41	23.44	23.43	
20	QPSK	1	1	24.06	24.07	24.02	
20	QPSK	1	53	24.03	24.06	24.00	
20	QPSK	1	104	24.03	24.05	24.01	
20	QPSK	50	0	22.97	23.01	23.00	24.5
20	QPSK	50	28	23.97	24.01	24.00	25.5
20	QPSK	50	56	22.86	22.82	22.80	24.5
20	QPSK	100	0	22.85	22.88	22.97	
20	16QAM	1	1	22.73	22.74	22.73	24.5
20	64QAM	1	1	21.79	21.85	21.83	23.0
20	256QAM	1	1	20.91	20.93	20.92	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.99	23.93	23.90	25.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.00	24.02	23.88	25.5
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.98	23.93	23.88	25.5

n7_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505500	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 507600	
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	20.89	20.83	20.89	
50	PI2 BPSK	1	156	20.79	20.91	20.90	
50	PI2 BPSK	1	288	20.85	20.93	20.90	
50	PI2 BPSK	136	0	20.91	20.84	20.83	22.0
50	PI2 BPSK	136	68	20.81	20.82	20.90	22.0
50	PI2 BPSK	136	136	20.89	20.94	20.77	22.0
50	PI2 BPSK	270	0	20.81	20.80	20.83	
50	QPSK	1	1	20.95	20.97	20.93	
50	QPSK	1	136	20.81	20.89	20.86	
50	QPSK	1	288	20.90	20.90	20.92	
50	QPSK	136	0	20.84	20.89	20.80	22.0
50	QPSK	136	68	20.93	20.95	20.92	22.0
50	QPSK	136	136	20.81	20.85	20.84	22.0
50	QPSK	270	0	20.82	20.83	20.89	
50	16QAM	1	1	20.92	20.86	20.77	22.0
50	64QAM	1	1	20.87	20.92	20.83	22.0
50	256QAM	1	1	20.15	20.17	20.13	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.78	20.78	20.71	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.78	20.68	20.66	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.78	20.68	20.72	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.70	20.80	20.66	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.68	20.82	20.67	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.77	20.80	20.76	22.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	20.78	20.70	20.70	22.0

n7_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)				2525	2535	2545			
50	Pl2 BPSK	1	1	20.53	20.64	20.59	21.5	0.0	
50	Pl2 BPSK	1	135	20.52	20.65	20.52			
50	Pl2 BPSK	1	268	20.64	20.53	20.61			
50	Pl2 BPSK	135	0	20.56	20.52	20.59	21.5	0.0	
50	Pl2 BPSK	135	68	20.63	20.58	20.53	21.5	0.0	
50	Pl2 BPSK	135	135	20.60	20.61	20.55	21.5	0.0	
50	Pl2 BPSK	270	0	20.55	20.64	20.50			
50	QPSK	1	1	20.67	20.68	20.65	21.5	0.0	
50	QPSK	1	135	20.59	20.59	20.55			
50	QPSK	1	268	20.55	20.54	20.55			
50	QPSK	135	0	20.50	20.58	20.52	21.5	0.0	
50	QPSK	135	68	20.65	20.66	20.63	21.5	0.0	
50	QPSK	135	135	20.61	20.59	20.61	21.5	0.0	
50	QPSK	270	0	20.63	20.65	20.61			
50	16QAM	1	1	20.50	20.57	20.58	21.5	0.0	
50	64QAM	1	1	20.52	20.65	20.59	21.5	0.0	
50	256QAM	1	1	20.59	20.61	20.53	21.5	0.0	
Channel				505000	507000	509000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5050	5055	5060			
40	QPSK	1	1	20.55	20.54	20.56	21.5	0.0	
Channel				507000	509000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5075	5080	5085			
30	QPSK	1	1	20.63	20.52	20.56	21.5	0.0	
Channel				509000	511000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5095	5100	5105			
25	QPSK	1	1	20.52	20.58	20.51	21.5	0.0	
Channel				510000	512000	514000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5105	5110	5115			
20	QPSK	1	1	20.60	20.55	20.60	21.5	0.0	
Channel				511500	513500	515500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5120	5125	5130			
15	QPSK	1	1	20.60	20.54	20.58	21.5	0.0	
Channel				513000	515000	517000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5135	5140	5145			
10	QPSK	1	1	20.57	20.64	20.51	21.5	0.0	
Channel				515500	517500	519500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5160	5165	5170			
5	QPSK	1	1	20.64	20.59	20.55	21.5	0.0	

n7_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)				2525	2535	2545			
50	Pl2 BPSK	1	1	22.20	22.13	22.19	23.5	0.0	
50	Pl2 BPSK	1	135	22.20	22.17	22.12			
50	Pl2 BPSK	1	268	22.10	22.21	22.09			
50	Pl2 BPSK	135	0	22.11	22.10	22.10	23.5	0.0	
50	Pl2 BPSK	135	68	22.12	22.22	22.14	23.5	0.0	
50	Pl2 BPSK	135	135	22.11	22.14	22.05	23.5	0.0	
50	Pl2 BPSK	270	0	22.18	22.11	22.05			
50	QPSK	1	1	22.23	22.25	22.21	23.5	0.0	
50	QPSK	1	135	22.09	22.09	22.02			
50	QPSK	1	268	22.15	22.16	22.05			
50	QPSK	135	0	22.20	22.17	22.05	23.5	0.0	
50	QPSK	135	68	22.21	22.23	22.20	23.5	0.0	
50	QPSK	135	135	22.08	22.19	22.10	23.5	0.0	
50	QPSK	270	0	22.20	22.21	22.18			
50	16QAM	1	1	22.14	22.15	22.08	23.5	0.0	
50	64QAM	1	1	21.56	21.62	21.50	22.5	1.0	
50	256QAM	1	1	20.52	20.58	20.56	21.5	2.0	
Channel				505000	507000	509000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5050	5055	5060			
40	QPSK	1	1	22.13	22.08	22.05	23.5	0.0	
Channel				507000	509000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5075	5080	5085			
30	QPSK	1	1	22.06	22.17	22.14	23.5	0.0	
Channel				509000	511000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5095	5100	5105			
25	QPSK	1	1	22.18	22.20	22.06	23.5	0.0	
Channel				510000	512000	514000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5105	5110	5115			
20	QPSK	1	1	22.18	22.14	22.09	23.5	0.0	
Channel				511500	513500	515500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5120	5125	5130			
15	QPSK	1	1	22.09	22.13	22.16	23.5	0.0	
Channel				513000	515000	517000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5135	5140	5145			
10	QPSK	1	1	22.12	22.21	22.18	23.5	0.0	
Channel				515500	517500	519500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5160	5165	5170			
5	QPSK	1	1	22.06	22.10	22.17	23.5	0.0	

n26_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 164800	Power Middle Ch. F. Freq. 165300	Power High Ch. F. Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel				824	831.5	839			
Frequency (MHz)				824	831.5	839			
20	Pl2 BPSK	1	1	23.65	23.66	23.63	25.0	0.0	
20	Pl2 BPSK	1	53	23.51	23.55	23.49			
20	Pl2 BPSK	1	104	23.64	23.51	23.48			
20	Pl2 BPSK	50	0	23.13	23.14	23.12	24.5	0.5	
20	Pl2 BPSK	50	28	23.50	23.50	23.53	25.0	0.0	
20	Pl2 BPSK	50	66	23.14	23.08	23.09	24.5	0.5	
20	Pl2 BPSK	100	0	23.03	23.06	23.12			
20	QPSK	1	1	23.68	23.71	23.67	25.0	0.0	
20	QPSK	1	53	23.53	23.62	23.51			
20	QPSK	1	104	23.63	23.66	23.62			
20	QPSK	50	0	22.90	22.93	22.83	24.0	1.0	
20	QPSK	50	28	23.67	23.68	23.65	25.0	0.0	
20	QPSK	50	56	22.83	22.83	22.85	24.0	1.0	
20	QPSK	100	0	22.68	22.70	22.67			
20	16QAM	1	1	22.43	22.45	22.41	24.0	1.0	
20	64QAM	1	1	21.45	21.46	21.43	22.5	2.5	
20	256QAM	1	1	20.53	20.55	20.51	21.5	3.5	
Channel				164800	165300	165800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.65	23.64	23.61	25.0	0.0	
Channel				165300	165800	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	841.5	851.5			
10	QPSK	1	1	23.65	23.64	23.55	25.0	0.0	
Channel				165800	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				841.5	851.5	861.5			
5	QPSK	1	1	23.63	23.60	23.60	25.0	0.0	

n26_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16400	Power Middle Ch. / Freq. 16600	Power High Ch. / Freq. 16760	Tune-up limit (dBm)	MPR (dB)
Channel				834	831.5	836	25.5	0.0
Frequency (MHz)				834	831.5	836		
20	PI2 BPSK	1	1	23.94	23.97	23.92		
20	PI2 BPSK	1	13	24.02	24.03	24.00	25.0	0.0
20	PI2 BPSK	1	104	24.00	24.02	23.98		
20	PI2 BPSK	50	0	23.54	23.56	23.51		
20	PI2 BPSK	50	28	24.03	24.04	23.98	25.0	0.5
20	PI2 BPSK	50	56	23.48	23.53	23.45		
20	PI2 BPSK	100	0	23.50	23.54	23.48		
20	QPSK	1	1	23.54	24.08	24.04	25.5	0.0
20	QPSK	1	13	23.86	24.03	23.88		
20	QPSK	1	104	23.98	24.03	23.98		
20	QPSK	50	0	23.05	23.14	23.08	24.5	1.0
20	QPSK	50	28	24.02	24.05	24.02		
20	QPSK	50	56	23.10	23.14	23.07		
20	QPSK	100	0	23.05	23.10	23.08	24.5	1.0
20	16QAM	1	1	22.77	22.77	22.75		
20	64QAM	1	1	21.87	21.87	21.84		
20	256QAM	1	1	20.69	20.93	20.86	22.0	3.5
Channel				164300	166300	168300		
Frequency (MHz)				831.5	831.5	841.5		
15	QPSK	1	1	23.94	24.00	23.92	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.94	23.91	23.90	25.5	0.0
Channel				165300	166300	166900		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.99	23.93	23.97	25.5	0.0
Channel				165300	166300	166900		
Frequency (MHz)				816.5	831.5	846.5		

n66_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760	23.8	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	22.30	22.38	22.32		
40	PI2 BPSK	1	108	22.32	22.34	22.29	23.8	0.0
40	PI2 BPSK	1	214	22.38	22.38	22.33		
40	PI2 BPSK	108	0	22.29	22.32	22.30		
40	PI2 BPSK	108	54	22.31	22.41	22.39	23.8	0.0
40	PI2 BPSK	108	108	22.38	22.32	22.28		
40	PI2 BPSK	216	0	22.32	22.35	22.31		
40	QPSK	1	1	22.43	22.45	22.41	23.8	0.0
40	QPSK	1	108	22.34	22.31	22.28		
40	QPSK	1	214	22.40	22.33	22.25		
40	QPSK	108	0	22.31	22.38	22.38	23.8	0.0
40	QPSK	108	54	22.41	22.43	22.40		
40	QPSK	108	108	22.36	22.42	22.27		
40	QPSK	216	0	22.37	22.40	22.35	23.8	0.0
40	16QAM	1	1	22.06	22.08	22.05		
40	64QAM	1	1	21.08	21.10	21.07	22.3	1.5
40	256QAM	1	1	20.10	20.13	20.08		
Channel				346000	349000	350000		
Frequency (MHz)				1725	1745	1765	23.8	0.0
30	QPSK	1	1	22.32	22.42	22.31		
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5	23.8	0.0
25	QPSK	1	1	22.36	22.37	22.31		
Channel				344000	349000	354000	23.8	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.39	22.39	22.28	23.8	0.0
Channel				343500	349000	354000		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.28	22.41	22.31	23.8	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.37	22.33	22.29	23.9	0.0
Channel				342500	349000	355000		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.32	22.29	22.29	23.8	0.0
Channel				342500	349000	355000		
Frequency (MHz)				1712.5	1745	1777.5		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760	21.3	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	20.15	20.22	20.06		
40	PI2 BPSK	1	108	20.10	20.10	20.11	21.3	0.0
40	PI2 BPSK	1	214	20.08	20.18	20.12		
40	PI2 BPSK	108	0	20.18	20.21	20.10		
40	PI2 BPSK	108	54	20.19	20.13	20.17	21.3	0.0
40	PI2 BPSK	108	108	20.10	20.19	20.11		
40	PI2 BPSK	216	0	20.16	20.09	20.12		
40	QPSK	1	1	20.23	20.25	20.21	21.3	0.0
40	QPSK	1	108	20.19	20.19	20.09		
40	QPSK	1	214	20.13	20.11	20.10		
40	QPSK	108	0	20.17	20.22	20.07	21.3	0.0
40	QPSK	108	54	20.21	20.23	20.20		
40	QPSK	108	108	20.11	20.11	20.11		
40	QPSK	216	0	20.20	20.21	20.18	21.3	0.0
40	16QAM	1	1	20.19	20.21	20.19		
40	64QAM	1	1	20.07	20.09	20.11	21.3	0.0
40	256QAM	1	1	20.07	20.19	20.09		
Channel				346500	349500	350500	21.3	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.11	20.17	20.10		
Channel				344000	349000	353500	21.3	0.0
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	20.11	20.16	20.15		
Channel				344000	349000	354000	21.3	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.16	20.16	20.09		
Channel				343000	349000	354500	21.3	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.10	20.14	20.15		
Channel				343000	349000	355000	21.3	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.11	20.18	20.13		
Channel				342500	349000	355500	21.3	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.15	20.08	20.05		
Channel				342500	349000	355500	21.3	0.0
Frequency (MHz)				1712.5	1745	1777.5		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 346000	Power Middle Ch. F. Freq. 349000	Power High Ch. F. Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel				1730	1745	1760	24.3	0.0	
Frequency (MHz)				23.00	23.01	23.00			
40	PI2 BPSK	1	1	23.00	23.01	23.00			
40	PI2 BPSK	1	108	23.00	23.06	23.01	24.3	0.0	
40	PI2 BPSK	1	214	23.05	23.07	22.97			
40	PI2 BPSK	108	0	22.96	23.05	22.97		0.0	
40	PI2 BPSK	108	54	23.04	23.08	22.96	24.3	0.0	
40	PI2 BPSK	108	108	23.07	23.05	23.00			
40	PI2 BPSK	216	0	23.09	23.11	22.96		0.0	
40	QPSK	1	1	23.13	23.15	23.11	24.3	0.0	
40	QPSK	1	108	23.05	22.98	23.05			
40	QPSK	1	214	23.01	23.06	23.06		0.0	
40	QPSK	108	0	22.98	23.10	22.97	24.3	0.0	
40	QPSK	108	54	23.11	23.13	23.10			
40	QPSK	108	108	23.07	22.98	23.06		0.0	
40	QPSK	216	0	23.10	23.11	23.06	24.3	0.0	
40	16QAM	1	1	22.83	22.94	22.99		0.0	
40	64QAM	1	1	22.00	22.03	21.94		1.5	
40	256QAM	1	1	20.99	21.04	20.97	21.8	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.3	0.0	
30	QPSK	1	1	22.99	23.09	23.09			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765	24.3	0.0	
25	QPSK	1	1	22.98	22.98	22.95			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.3	0.0	
20	QPSK	1	1	22.97	23.03	22.96			
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.3	0.0	
15	QPSK	1	1	23.03	23.08	23.03			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.3	0.0	
10	QPSK	1	1	23.02	23.11	22.99			
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.3	0.0	
5	QPSK	1	1	23.04	23.05	22.97			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 519004	Power Middle Ch. / Freq 519000	Power High Ch. / Freq 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2590.02 2595 2599.98									
40	Pl2 BPSK	1	1	20.11	20.12	20.10	21.8	0.0	
40	Pl2 BPSK	1	53	20.13	20.15	20.14			
40	Pl2 BPSK	1	104	20.07	20.10	20.12			
40	Pl2 BPSK	50	0	20.04	20.15	20.04	21.8	0.0	
40	Pl2 BPSK	50	28	20.09	20.11	20.11	21.8	0.0	
40	Pl2 BPSK	50	56	20.02	20.05	20.13	21.8	0.0	
40	Pl2 BPSK	100	0	20.05	20.14	20.05			
40	QPSK	1	1	20.18	20.20	20.16			
40	QPSK	1	53	20.14	20.17	20.12	21.8	0.0	
40	QPSK	1	104	20.05	20.15	20.09			
40	QPSK	50	0	20.01	20.04	20.09			
40	QPSK	50	28	20.16	20.18	20.15	21.8	0.0	
40	QPSK	50	56	20.02	20.16	20.03	21.8	0.0	
40	QPSK	100	0	20.15	20.16	20.13			
40	16QAM	1	1	20.05	20.13	20.05			
40	64QAM	1	1	20.15	20.11	20.09	21.8	0.0	
40	256QAM	1	1	19.47	19.50	19.46	20.8	1.0	
Channel									
517002 519000 520998									
Frequency (MHz)									
2595.01 2595 2604.99									
30	QPSK	1	1	20.07	20.15	20.07	21.8	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2592.5 2595 2607.5									
25	QPSK	1	1	20.05	20.06	20.03	21.8	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2590.5 2595 2607.5									
20	QPSK	1	1	20.02	20.09	20.00	21.8	0.0	
Channel									
519502 519000 522498									
Frequency (MHz)									
2597.51 2595 2612.49									
15	QPSK	1	1	20.08	20.10	20.13	21.8	0.0	
Channel									
519004 519000 522996									
Frequency (MHz)									
2575.02 2595 2614.98									
10	QPSK	1	1	20.13	20.13	20.07	21.8	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 516004	Power Middle Ch. / Freq 516000	Power High Ch. / Freq 516996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2590.02 2595 2599.98									
40	Pl2 BPSK	1	1	20.39	20.52	20.37	21.7	0.0	
40	Pl2 BPSK	1	53	20.41	20.47	20.38			
40	Pl2 BPSK	1	104	20.47	20.41	20.44			
40	Pl2 BPSK	50	0	20.37	20.52	20.46	21.7	0.0	
40	Pl2 BPSK	50	28	20.45	20.38	20.40	21.7	0.0	
40	Pl2 BPSK	50	56	20.48	20.52	20.42	21.7	0.0	
40	Pl2 BPSK	100	0	20.46	20.48	20.35			
40	QPSK	1	1	20.53	20.55	20.51			
40	QPSK	1	53	20.46	20.45	20.38	21.7	0.0	
40	QPSK	1	104	20.41	20.42	20.45			
40	QPSK	50	0	20.47	20.47	20.44			
40	QPSK	50	28	20.51	20.53	20.50	21.7	0.0	
40	QPSK	50	56	20.43	20.46	20.45	21.7	0.0	
40	QPSK	100	0	20.50	20.51	20.48			
40	16QAM	1	1	20.36	20.41	20.36			
40	64QAM	1	1	20.44	20.40	20.40	21.7	0.0	
40	256QAM	1	1	20.41	20.40	20.38	21.7	0.0	
Channel									
517002 519000 520998									
Frequency (MHz)									
2595.01 2595 2604.99									
30	QPSK	1	1	20.36	20.41	20.43	21.7	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2592.5 2595 2607.5									
25	QPSK	1	1	20.49	20.45	20.41	21.7	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2590.5 2595 2607.5									
20	QPSK	1	1	20.45	20.38	20.42	21.7	0.0	
Channel									
519502 519000 522498									
Frequency (MHz)									
2597.51 2595 2612.49									
15	QPSK	1	1	20.42	20.42	20.41	21.7	0.0	
Channel									
519004 519000 522996									
Frequency (MHz)									
2575.02 2595 2614.98									
10	QPSK	1	1	20.39	20.39	20.37	21.7	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2590.02 2595 2599.98									
40	Pl2 BPSK	1	1	22.45	22.38	22.33	24.2	0.0	
40	Pl2 BPSK	1	53	22.35	22.49	22.47			
40	Pl2 BPSK	1	104	22.40	22.40	22.38			
40	Pl2 BPSK	50	0	22.42	22.48	22.36	24.2	0.0	
40	Pl2 BPSK	50	28	22.45	22.43	22.46	24.2	0.0	
40	Pl2 BPSK	50	56	22.42	22.38	22.35	24.2	0.0	
40	Pl2 BPSK	100	0	22.41	22.37	22.37			
40	QPSK	1	1	22.51	22.53	22.50			
40	QPSK	1	53	22.39	22.40	22.40	24.2	0.0	
40	QPSK	1	104	22.43	22.46	22.42			
40	QPSK	50	0	22.41	22.43	22.33			
40	QPSK	50	28	22.50	22.51	22.45	24.2	0.0	
40	QPSK	50	56	22.47	22.47	22.48	24.2	0.0	
40	QPSK	100	0	22.48	22.50	22.46			
40	16QAM	1	1	22.46	22.40	22.36			
40	64QAM	1	1	22.35	22.45	22.34	23.2	1.0	
40	256QAM	1	1	21.42	21.45	21.40	22.2	2.0	
Channel									
517002 519000 520998									
Frequency (MHz)									
2595.01 2595 2604.99									
30	QPSK	1	1	22.48	22.36	22.43	24.2	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2592.5 2595 2607.5									
25	QPSK	1	1	22.36	22.44	22.33	24.2	0.0	
Channel									
519000 519000 522000									
Frequency (MHz)									
2590 2595 2610									
20	QPSK	1	1	22.37	22.44	22.41	24.2	0.0	
Channel									
519002 519000 522000									
Frequency (MHz)									
2595 2595 2615									
15	QPSK	1	1	22.36	22.42	22.44	24.2	0.0	
Channel									
519004 519000 522000									
Frequency (MHz)									
2610 2615 2618									
10	QPSK	1	1	22.47	22.41	22.39	24.2	0.0	

n41_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	2546.01	2562.99	2640			
100	P2 BPSK	1	1	20.81	20.77	20.81			
100	P2 BPSK	1	137	20.78	20.73	20.72	22.0	0.0	
100	P2 BPSK	1	271	20.80	20.77	20.76			
100	P2 BPSK	135	0	20.75	20.78	20.78	22.0	0.0	
100	P2 BPSK	135	69	20.86	20.79	20.73	22.0	0.0	
100	P2 BPSK	135	138	20.76	20.85	20.74	22.0	0.0	
100	P2 BPSK	270	0	20.77	20.77	20.72			
100	QPSK	1	1	20.89	20.90	20.88			
100	QPSK	1	137	20.78	20.81	20.77	22.0	0.0	
100	QPSK	1	271	20.78	20.77	20.85			
100	QPSK	135	0	20.73	20.73	20.81	22.0	0.0	
100	QPSK	135	69	20.87	20.88	20.85	22.0	0.0	
100	QPSK	135	138	20.85	20.75	20.77	22.0	0.0	
100	QPSK	270	0	20.85	20.85	20.83			
100	16QAM	1	1	20.81	20.87	20.75	22.0	0.0	
100	16QAM	1	1	20.75	20.87	20.79	22.0	0.0	
100	256QAM	1	1	20.76	20.73	20.74	22.0	0.0	
Channel				5600.00	5600.00	5609.96	Tune-up limit (dBm)		
Frequency (MHz)				22.41	22.92	22.94	(dBm)		
80	QPSK	1	1	20.76	20.85	20.72	22.0	0.0	
Channel				5602.04	5609.98	5609.98	Tune-up limit (dBm)		
Frequency (MHz)				25.06	25.62	25.69	(dBm)		
80	QPSK	1	1	20.81	20.83	20.75	22.0	0.0	
Channel				5602.00	5609.98	5619.96	Tune-up limit (dBm)		
Frequency (MHz)				25.06	25.62	25.69	(dBm)		
60	QPSK	1	1	20.86	20.82	20.84	22.0	0.0	
Channel				5602.00	5609.98	5609.98	Tune-up limit (dBm)		
Frequency (MHz)				25.19	25.69	25.69	(dBm)		
50	QPSK	1	1	20.72	20.81	20.83	22.0	0.0	
Channel				5602.00	5609.98	5609.98	Tune-up limit (dBm)		
Frequency (MHz)				25.16	25.69	25.70	(dBm)		
40	QPSK	1	1	20.62	20.81	20.85	22.0	0.0	
Channel				5602.00	5609.98	5609.96	Tune-up limit (dBm)		
Frequency (MHz)				25.11	25.69	25.74	(dBm)		
30	QPSK	1	1	20.72	20.81	20.74	22.0	0.0	
Channel				5612.04	5609.98	5609.98	Tune-up limit (dBm)		
Frequency (MHz)				25.11	25.69	25.69	(dBm)		
20	QPSK	1	1	20.72	20.78	20.85	22.0	0.0	
Channel				5609.90	5609.98	5609.96	Tune-up limit (dBm)		
Frequency (MHz)				25.11	25.69	25.69	(dBm)		
15	QPSK	1	1	20.81	20.76	20.79	22.0	0.0	
Channel				5602.02	5609.98	5609.96	Tune-up limit (dBm)		
Frequency (MHz)				25.01	25.69	25.70	(dBm)		
10	QPSK	1	1	20.75	20.81	20.85	22.0	0.0	

n41_HPUE_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	2546.01	2562.99	2640			
100	P2 BPSK	1	1	20.81	20.77	20.81			
100	P2 BPSK	1	137	20.78	20.73	20.72	22.0	0.0	
100	P2 BPSK	1	271	20.76	20.77	20.76			
100	P2 BPSK	135	0	20.75	20.78	20.78	22.0	0.0	
100	P2 BPSK	135	69	20.86	20.79	20.73	22.0	0.0	
100	P2 BPSK	135	138	20.85	20.75	20.74	22.0	0.0	
100	P2 BPSK	270	0	20.77	20.77	20.72	22.0	0.0	
100	QPSK	1	1	20.89	20.90	20.88			
100	QPSK	1	137	20.78	20.81	20.77	22.0	0.0	
100	QPSK	1	271	20.73	20.73	20.85			
100	QPSK	135	0	20.73	20.73	20.81	22.0	0.0	
100	QPSK	135	69	20.87	20.88	20.85	22.0	0.0	
100	QPSK	135	138	20.85	20.75	20.77	22.0	0.0	
100	QPSK	270	0	20.85	20.85	20.83	22.0	0.0	
100	16QAM	1	1	20.81	20.87	20.75	22.0	0.0	
100	16QAM	1	1	20.75	20.87	20.79	22.0	0.0	
100	256QAM	1	1	20.76	20.73	20.74	22.0	0.0	
Channel				506200	518896	538960	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.1	262.99	264.8			
90	QPSK	1	1	20.76	20.85	20.72	22.0	0.0	
Channel				501204	518896	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				253.6	262.99	264.99			
80	QPSK	1	1	20.81	20.83	20.75	22.0	0.0	
Channel				505200	518896	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.6	262.99	260.98			
60	QPSK	1	1	20.86	20.82	20.84	22.0	0.0	
Channel				502204	518896	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.2	262.99	264.99			
50	QPSK	1	1	20.78	20.81	20.83	22.0	0.0	
Channel				507200	518896	530996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.8	262.99	267.0			
40	QPSK	1	1	20.82	20.81	20.85	22.0	0.0	
Channel				502200	518896	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.1	262.99	267.48			
30	QPSK	1	1	20.72	20.81	20.74	22.0	0.0	
Channel				501204	518896	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				254.0	262.99	267.99			
20	QPSK	1	1	20.72	20.78	20.85	22.0	0.0	
Channel				500700	518896	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				253.9	262.99	269.48			
15	QPSK	1	1	20.81	20.76	20.79	22.0	0.0	
Channel				500202	518896	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				253.01	262.99	265.5			
10	QPSK	1	1	20.81	20.81	20.85	22.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	2546.01	2562.99	2640			
100	P2 BPSK	1	137	20.80	20.78	20.65			
100	P2 BPSK	1	271	20.71	20.76	20.71	21.7	0.0	
100	P2 BPSK	135	0	20.75	20.68	20.74			
100	P2 BPSK	135	69	20.76	20.81	20.72	21.7	0.0	
100	P2 BPSK	135	138	20.67	20.78	20.67	21.7	0.0	
100	P2 BPSK	270	0	20.69	20.81	20.67	21.7	0.0	
100	QPSK	1	1	20.83	20.85	20.81			
100	QPSK	1	137	20.74	20.73	20.79	21.7	0.0	
100	QPSK	135	0	20.68	20.71	20.78	21.7	0.0	
100	QPSK	135	69	20.81	20.83	20.80	21.7	0.0	
100	QPSK	135	138	20.68	20.68	20.78	21.7	0.0	
100	QPSK	270	0	20.80	20.81	20.78	21.7	0.0	
100	16QAM	1	1	20.77	20.70	20.71	21.7	0.0	
100	16QAM	1	1	20.77	20.68	20.74	21.7	0.0	
100	256QAM	1	1	20.66	20.79	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.79	20.74	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.67	20.73	20.68	21.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.68	20.77	20.71	21.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.69	20.68	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.80	20.81	20.80	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.7200	20.6868	20.6496	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.7111	20.6922	20.6733	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.6124	20.6888	20.6598	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.6029	20.675	20.677	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.7070	20.6959	20.6848	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.6902	20.6888	20.6870	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.6051	20.6929	20.7005	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n77_Ant 11												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				3499.98								
100	PI2 BPSK	1	1	20.46			21.2	0.0				
100	PI2 BPSK	1	137	20.47								
100	PI2 BPSK	1	271	20.49								
100	PI2 BPSK	135	0	20.49			21.2	0.0				
100	PI2 BPSK	135	69	20.47			21.2	0.0				
100	PI2 BPSK	135	138	20.45			21.2	0.0				
100	PI2 BPSK	270	0	20.51								
100	QPSK	1	1	20.58								
100	QPSK	1	137	20.46			21.2	0.0				
100	QPSK	1	271	20.56								
100	QPSK	135	0	20.45								
100	QPSK	135	69	20.57			21.2	0.0				
100	QPSK	135	136	20.46			21.2	0.0				
100	QPSK	270	0	20.55								
100	16QAM	1	1	20.46			21.2	0.0				
100	64QAM	1	1	20.47			21.2	0.0				
100	256QAM	1	1	20.53			21.2	0.0				
Channel												
Frequency (MHz)				633000		633668						
90	QPSK	1	1	20.45	20.42	20.52	21.2	0.0				
Channel				633000		633668						
Frequency (MHz)				3499.98		3510						
80	QPSK	1	1	20.43	20.43	20.55	21.2	0.0				
Channel												
Frequency (MHz)				633334		634332						
70	QPSK	1	1	20.43	20.48	20.54	21.2	0.0				
Channel												
Frequency (MHz)				633000		633668						
60	QPSK	1	1	20.42	20.48	20.48	21.2	0.0				
Channel												
Frequency (MHz)				631668		633000						
50	QPSK	1	1	3475.02	3499.98	3525	21.2	0.0				
Channel												
Frequency (MHz)				631668		633000						
40	QPSK	1	1	20.35	20.53	20.58	21.2	0.0				
Channel												
Frequency (MHz)				631334		633332						
30	QPSK	1	1	3470.81	3499.98	3529.88	21.2	0.0				
Channel												
Frequency (MHz)				631500		633500						
25	QPSK	1	1	20.42	20.47	20.55	21.2	0.0				
Channel												
Frequency (MHz)				631000		633668						
20	QPSK	1	1	3465	3499.98	3534.98	21.2	0.0				
Channel												
Frequency (MHz)				630668		633332						
15	QPSK	1	1	3462.21	3499.98	3537.48	21.2	0.0				
Channel												
Frequency (MHz)				630334		633332						
10	QPSK	1	1	20.47	20.51	20.65	21.2	0.0				
Channel												
Frequency (MHz)				630000		633000						
5	QPSK	1	1	20.42	20.48	20.48	21.2	0.0				
Channel												
Frequency (MHz)				630000		633000						
2	QPSK	1	1	20.50	20.52	20.50	21.2	0.0				
Channel												
Frequency (MHz)				630000		633332						
1	QPSK	1	1	20.48	20.44	20.42	21.2	0.0				
Channel												
Frequency (MHz)				630334		633332						
0	QPSK	1	1	20.54	20.56	20.44	21.2	0.0				
Channel												
Frequency (MHz)				630334		633332						

Part27Q_n77_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq 650000	Power Ch. / Freq 656000	Power Ch. / Freq 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.26	20.30	20.20	21.2	0.0	
100	PI2 BPSK	1	137	20.21	20.22	20.21			
100	PI2 BPSK	1	271	20.20	20.30	20.26			
100	PI2 BPSK	135	0	20.28	20.34	20.29	21.2	0.0	
100	PI2 BPSK	135	69	20.29	20.29	20.30	21.2	0.0	
100	PI2 BPSK	135	135	20.21	20.30	20.21	21.2	0.0	
100	PI2 BPSK	270	0	20.25	20.23	20.22	21.2	0.0	
100	QPSK	1	1	20.37	20.38	20.35			
100	QPSK	1	137	20.26	20.24	20.29			
100	QPSK	1	271	20.22	20.23	20.20	21.2	0.0	
100	QPSK	135	0	20.22	20.31	20.22			
100	QPSK	135	69	20.35	20.36	20.33			
100	QPSK	135	135	20.34	20.33	20.26	21.2	0.0	
100	QPSK	270	0	20.33	20.35	20.31			
100	16QAM	1	1	20.22	20.34	20.23	21.2	0.0	
100	64QAM	1	1	20.30	20.35	20.23	21.2	0.0	
100	256QAM	1	1	20.24	20.35	20.22	21.2	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.34	20.30	20.31	21.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.28	20.25	20.25	21.2	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.28	20.27	20.20	21.2	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.24	20.33	20.28	21.2	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.27	20.24	20.34	21.2	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.30	20.28	20.20	21.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.23	20.26	20.23	21.2	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.29	20.28	20.18	21.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.32	20.24	21.2	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.27	20.29	20.26	21.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.31	20.23	20.27	21.2	0.0	

Part27Q_n77_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	18.82			19.5	0.0	
100	PI2 BPSK	1	137	18.85					
100	PI2 BPSK	1	271	18.78					
100	PI2 BPSK	135	0	18.76			19.5	0.0	
100	PI2 BPSK	135	69	18.84			19.5	0.0	
100	PI2 BPSK	135	135	18.82			19.5	0.0	
100	PI2 BPSK	270	0	18.73					
100	QPSK	1	1	18.90					
100	QPSK	1	137	18.78			19.5	0.0	
100	QPSK	1	271	18.80					
100	QPSK	135	0	18.78					
100	QPSK	135	69	18.88			19.5	0.0	
100	QPSK	135	135	18.77			19.5	0.0	
100	QPSK	270	0	18.92					
100	16QAM	1	1	18.78			19.5	0.0	
100	64QAM	1	1	18.73			19.5	0.0	
100	256QAM	1	1	18.66			19.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98	3499.98	3500.00			
50	QPSK	1	1	18.81	18.76	18.73	19.5	0.0	
Channel				630666	630998	631000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3500.00			
80	QPSK	1	1	18.74	18.84	18.79	19.5	0.0	
Channel				632234	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.01	3499.98	3504.98			
70	QPSK	1	1	18.73	18.82	18.73	19.5	0.0	
Channel				635707	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.34	3499.98	3509.99			
60	QPSK	1	1	18.86	18.84	18.81	19.0	0.0	
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98	3499.98	3505.95			
50	QPSK	1	1	18.81	18.79	18.82	19.5	0.0	
Channel				631134	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3497.01	3499.98	3502.98			
40	QPSK	1	1	18.87	18.87	18.80	19.5	0.0	
Channel				631000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.94	3499.98	3504.99			
30	QPSK	1	1	18.75	18.75	18.60	19.5	0.0	
Channel				630834	633332	636832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.51	3499.98	3507.48			
25	QPSK	1	1	18.81	18.78	18.78	19.5	0.0	
Channel				630700	633332	637000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3500.00			
20	QPSK	1	1	18.73	18.82	18.84	19.5	0.0	
Channel				630500	633332	637666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.15	3499.98	3505.49			
15	QPSK	1	1	18.82	18.82	18.79	19.5	0.0	
Channel				630034	633332	638632	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3491.01	3499.98	3504.98			
10	QPSK	1	1	18.77	18.79	18.81	19.5	0.0	

Part270_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	18.51	18.50	18.51	19.5	0.0	
100	P2 BPSK	1	137	18.54	18.54	18.55			
100	P2 BPSK	1	271	18.53	18.43	18.49			
100	P2 BPSK	135	0	18.43	18.56	18.42	19.5	0.0	
100	P2 BPSK	135	69	18.43	18.46	18.55	19.5	0.0	
100	P2 BPSK	135	138	18.53	18.55	18.48	19.5	0.0	
100	P2 BPSK	270	0	18.43	18.55	18.54	19.5	0.0	
100	QPSK	1	1	18.50	18.59	18.56	19.5	0.0	
100	QPSK	1	137	18.47	18.46	18.44			
100	QPSK	1	271	18.50	18.54	18.42			
100	QPSK	135	0	18.48	18.49	18.43	19.5	0.0	
100	QPSK	135	69	18.57	18.58	18.56	19.5	0.0	
100	QPSK	135	138	18.46	18.49	18.54	19.5	0.0	
100	QPSK	270	0	18.55	18.57	18.53	19.5	0.0	
100	16QAM	1	1	18.53	18.51	18.43	19.5	0.0	
100	64QAM	1	1	18.50	18.49	18.51	19.5	0.0	
100	256QAM	1	1	18.48	18.43	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.51	18.44	18.55	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.42	18.44	18.45	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.44	18.46	18.43	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.51	18.44	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.53	18.50	18.50	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.53	18.53	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.46	18.47	18.47	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.56	18.48	18.47	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.56	18.43	18.42	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.48	18.55	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.50	18.57	18.46	19.5	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	18.70	18.70	18.70	17.5	0.0	
100	P2 BPSK	1	137	18.74	18.74	18.74			
100	P2 BPSK	1	271	18.68	18.68	18.68			
100	P2 BPSK	135	0	18.70	18.70	18.70	17.5	0.0	
100	P2 BPSK	135	69	18.70	18.70	18.70	17.5	0.0	
100	P2 BPSK	135	138	18.70	18.70	18.70	17.5	0.0	
100	P2 BPSK	270	0	18.74	18.74	18.74	17.5	0.0	
100	QPSK	1	1	18.71	18.71	18.71	17.5	0.0	
100	QPSK	1	137	18.71	18.71	18.71			
100	QPSK	1	271	18.66	18.66	18.66			
100	QPSK	135	0	18.70	18.70	18.70	17.5	0.0	
100	QPSK	135	69	18.70	18.70	18.70	17.5	0.0	
100	QPSK	135	138	18.69	18.69	18.69	17.5	0.0	
100	QPSK	270	0	18.78	18.78	18.78	17.5	0.0	
100	16QAM	1	1	18.68	18.68	18.68	17.5	0.0	
100	64QAM	1	1	18.75	18.75	18.75	17.5	0.0	
100	256QAM	1	1	18.71	18.71	18.71	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
90	QPSK	1	1	633333	633666	634000	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
80	QPSK	1	1	633667	634000	634333	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
70	QPSK	1	1	634001	634333	634666	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
60	QPSK	1	1	634334	634666	635000	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
50	QPSK	1	1	634667	635000	635333	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
40	QPSK	1	1	635001	635333	635666	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
30	QPSK	1	1	635334	635666	636000	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
25	QPSK	1	1	635667	636000	636333	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
20	QPSK	1	1	636001	636333	636666	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
15	QPSK	1	1	636334	636666	637000	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
10	QPSK	1	1	636667	637000	637333	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	

Part270_n77_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	18.59	18.64	18.61	17.5	0.0	
100	P2 BPSK	1	137	18.66	18.61	18.58			
100	P2 BPSK	1	271	18.61	18.72	18.62			
100	P2 BPSK	135	0	18.57	18.62	18.57	17.5	0.0	
100	P2 BPSK	135	69	18.63	18.71	18.61	17.5	0.0	
100	P2 BPSK	135	138	18.59	18.61	18.59	17.5	0.0	
100	P2 BPSK	270	0	18.69	18.63	18.60	17.5	0.0	
100	QPSK	1	1	18.73	18.75	18.71	17.5	0.0	
100	QPSK	1	137	18.56	18.69	18.57			
100	QPSK	1	271	18.69	18.59	18.66			
100	QPSK	135	0	18.61	18.59	18.63	17.5	0.0	
100	QPSK	135	69	18.71	18.73	18.70	17.5	0.0	
100	QPSK	135	138	18.66	18.72	18.59	17.5	0.0	
100	QPSK	270	0	18.75	18.71	18.68	17.5	0.0	
100	16QAM	1	1	18.67	18.60	18.68	17.5	0.0	
100	64QAM	1	1	18.70	18.59	18.61	17.5	0.0	
100	256QAM	1	1	18.69	18.67	18.68	17.5	0.0	
Channel									
50	QPSK	1	1	18.63	18.67	18.58	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.63	18.64	18.59	17.5	0.0	
70	QPSK	1	1	18.70	18.72	18.63	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.70	18.72	18.63	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.65	18.64	18.57	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.70	18.60	18.58	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.68	18.64	18.63	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.58	18.64	18.69	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.65	18.65	18.63	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.62	18.64	18.67	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.68	18.70	18.67	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.57	18.69	18.57	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.65	18.61	18.57	17.5	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	3469.98	653332		18.5	0.0	
100	Pl2 BPSK	1	137	17.38					
100	Pl2 BPSK	1	271	17.32					
100	Pl2 BPSK	135	0	17.45			18.5	0.0	
100	Pl2 BPSK	135	69	17.32					
100	Pl2 BPSK	135	138	17.37					
100	Pl2 BPSK	270	0	17.34			18.5	0.0	
100	QPSK	1	1	17.48					
100	QPSK	1	137	17.42					
100	QPSK	1	271	17.32			18.5	0.0	
100	QPSK	135	0	17.31					
100	QPSK	135	69	17.46					
100	QPSK	135	136	17.41			18.5	0.0	
100	QPSK	270	0	17.45					
100	256QAM	1	1	17.16					
Channel									
Frequency (MHz)									
90	QPSK	1	1	653000	653332	653666	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
90	QPSK	1	1	17.37	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	650668	653332	656000	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
80	QPSK	1	1	3469.02	3469.98	3470	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	652502	653332	654166	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
70	QPSK	1	1	3465.01	3469.98	3474.98	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.40	17.39	17.41	18.5	0.0	
60	QPSK	1	1	652502	653332	654166	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
60	QPSK	1	1	3460	3469.98	3471.99	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.35	17.45	17.39	18.5	0.0	
50	QPSK	1	1	651008	653332	655000	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
50	QPSK	1	1	3462.01	3469.98	3473.99	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.42	17.37	17.37	18.5	0.0	
40	QPSK	1	1	651134	653332	655332	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
40	QPSK	1	1	3460.81	3469.98	3470.88	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.37	17.37	17.45	18.5	0.0	
30	QPSK	1	1	651000	653332	656066	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
30	QPSK	1	1	3465	3469.98	3474.99	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.41	17.34	17.38	18.5	0.0	
25	QPSK	1	1	650634	653332	656866	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
25	QPSK	1	1	3462.21	3469.98	3473.48	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.35	17.37	17.43	18.5	0.0	
20	QPSK	1	1	652000	653332	658166	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
20	QPSK	1	1	3462.8	3469.98	3475.86	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.36	17.40	17.31	18.5	0.0	
15	QPSK	1	1	650304	653332	658332	Tune-up limit (dBm)	MPR (dB)	LFR (dB)
15	QPSK	1	1	3462.41	3469.98	3474.48	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.41	17.31	17.35	18.5	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	17.33	17.34	17.32	18.5	0.0	
100	Pl2 BPSK	1	137	17.38	17.28	17.33			
100	Pl2 BPSK	1	271	17.37	17.34	17.29			
100	Pl2 BPSK	135	0	17.28	17.31	17.25	18.5	0.0	
100	Pl2 BPSK	135	69	17.34	17.29	17.35			
100	Pl2 BPSK	135	138	17.28	17.31	17.27			
100	Pl2 BPSK	270	0	17.34	17.38	17.37	18.5	0.0	
100	QPSK	1	1	17.41	17.43	17.38			
100	QPSK	1	137	17.34	17.29	17.29			
100	QPSK	1	271	17.38	17.34	17.25	18.5	0.0	
100	QPSK	135	0	17.29	17.26	17.30			
100	QPSK	135	69	17.39	17.41	17.38			
100	QPSK	135	138	17.36	17.38	17.28	18.5	0.0	
100	QPSK	270	0	17.38	17.39	17.36			
100	16QAM	1	1	17.24	17.28	17.33			
100	64QAM	1	1	17.30	17.30	17.24	18.5	0.0	
100	256QAM	1	1	17.07	17.21	17.19			
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.36	17.40	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.36	17.29	17.35	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.27	17.33	17.31	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.26	17.27	17.36	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.30	17.35	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.36	17.35	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.30	17.33	17.29	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.26	17.36	17.34	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.21	17.33	17.32	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.19	17.38	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.28	17.32	17.29	18.5	0.0	

Part27Q_n78_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	3469	20.83		21.7	0.0	
100	P12 BPSK	1	137		20.85				
100	P12 BPSK	1	271		20.73				
100	P12 BPSK	135	0	20.75			21.7	0.0	
100	P12 BPSK	135	69		20.76		21.7	0.0	
100	P12 BPSK	135	138		20.80		21.7	0.0	
100	P12 BPSK	270	0		20.78				
100	QPSK	1	1	3469	20.88		21.7	0.0	
100	QPSK	1	137		20.84				
100	QPSK	1	271		20.79				
100	QPSK	135	0		20.74		21.7	0.0	
100	QPSK	135	69		20.87		21.7	0.0	
100	QPSK	135	138		20.78		21.7	0.0	
100	QPSK	270	0		20.85		21.7	0.0	
100	16QAM	1	1		20.72		21.7	0.0	
100	64QAM	1	1		20.77		21.7	0.0	
100	256QAM	1	1		20.83		21.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3469	633332	633686	Tune-up limit (dbm)	MPR (db)	MPR (db)
90	QPSK	1	1	20.78	20.74	20.76	21.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3469	633332	634000	Tune-up limit (dbm)	MPR (db)	MPR (db)
80	QPSK	1	1	20.81	20.78	20.77	21.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3469	633332	634332	Tune-up limit (dbm)	MPR (db)	MPR (db)
70	QPSK	1	1	20.84	20.74	20.73	21.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3469	633698	635199	Tune-up limit (dbm)	MPR (db)	MPR (db)
60	QPSK	1	1	20.78	20.78	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631105	633332	633500	Tune-up limit (dbm)	MPR (db)	MPR (db)
50	QPSK	1	1	20.83	20.76	20.76	21.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631384	633332	633632	Tune-up limit (dbm)	MPR (db)	MPR (db)
40	QPSK	1	1	20.82	20.85	20.76	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631100	633332	633666	Tune-up limit (dbm)	MPR (db)	MPR (db)
30	QPSK	1	1	20.79	20.73	20.82	21.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	633633	633332	633632	Tune-up limit (dbm)	MPR (db)	MPR (db)
25	QPSK	1	1	20.74	20.86	20.85	21.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	634615	633332	634018	Tune-up limit (dbm)	MPR (db)	MPR (db)
20	QPSK	1	1	20.81	20.72	20.74	21.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	633650	633332	633618	Tune-up limit (dbm)	MPR (db)	MPR (db)
15	QPSK	1	1	20.85	20.75	20.85	21.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	633034	633332	633632	Tune-up limit (dbm)	MPR (db)	MPR (db)
10	QPSK	1	1	20.75	20.75	20.84	21.7	0.0	
10	QPSK	1	1	20.75	20.75	20.84	21.7	0.0	

Part27Q_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	19.80			21.0	0.0	
100	P22 BPSK	1	137	19.74					
100	P22 BPSK	1	271	19.77					
100	P22 BPSK	135	0	19.76					
100	P22 BPSK	135	69	19.81			21.0	0.0	
100	P22 BPSK	135	138	19.75			21.0	0.0	
100	P22 BPSK	270	0	19.74					
100	QPSK	1	1	19.85					
100	QPSK	1	137	19.77					
100	QPSK	1	271	19.82			21.0	0.0	
100	QPSK	135	0	19.80			21.0	0.0	
100	QPSK	135	69	19.83					
100	QPSK	135	138	19.75					
100	QPSK	270	0	19.81					
100	16QAM	1	1	19.82			21.0	0.0	
100	64QAM	1	1	19.75			21.0	0.0	
100	256QAM	1	1	19.76			21.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98	3499.98	3504.99			
90	QPSK	1	1	19.77	19.81	19.81	21.0	0.0	
Channel				633000	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510.00			
80	QPSK	1	1	19.79	19.77	19.72	21.0	0.0	
Channel				633334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.77	19.73	19.74	21.0	0.0	
Channel				633000	633332	634998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	19.69	19.69	21.0	0.0	
60	QPSK	1	1	19.70	19.68	19.68	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525.00			
50	QPSK	1	1	19.75	19.62	19.73	21.0	0.0	
Channel				631534	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.74	19.80	19.71	21.0	0.0	
Channel				631000	633332	635998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.00	3499.98	3534.99			
30	QPSK	1	1	19.75	19.74	19.69	21.0	0.0	
Channel				630834	633332	636932	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.01	3499.98	3537.01			
25	QPSK	1	1	19.77	19.75	19.76	21.0	0.0	
Channel				630668	633332	636900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540.00			
20	QPSK	1	1	19.81	19.72	19.81	21.0	0.0	
Channel				630500	633332	636198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.50	3499.98	3542.49			
15	QPSK	1	1	19.78	19.72	19.80	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	19.76	19.69	19.75	21.0	0.0	

Part27Q_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	19.80			21.0	0.0	
100	P22 BPSK	1	137	19.74					
100	P22 BPSK	1	271	19.77					
100	P22 BPSK	135	0	19.76					
100	P22 BPSK	135	69	19.81			21.0	0.0	
100	P22 BPSK	135	138	19.75			21.0	0.0	
100	P22 BPSK	270	0	19.74					
100	QPSK	1	1	19.85					
100	QPSK	1	137	19.77					
100	QPSK	1	271	19.82			21.0	0.0	
100	QPSK	135	0	19.80			21.0	0.0	
100	QPSK	135	69	19.83					
100	QPSK	135	138	19.75					
100	QPSK	270	0	19.81					
100	16QAM	1	1	19.82			21.0	0.0	
100	64QAM	1	1	19.75			21.0	0.0	
100	256QAM	1	1	19.76			21.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499	3499.98	3504.99			
90	QPSK	1	1	19.77	19.81	19.81	21.0	0.0	
Channel				633000	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510			
80	QPSK	1	1	19.79	19.77	19.72	21.0	0.0	
Channel				633334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.77	19.73	19.74	21.0	0.0	
Channel				633000	633332	634998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	19.69	19.69	21.0	0.0	
60	QPSK	1	1	19.70	19.69	19.69	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.75	19.62	19.73	21.0	0.0	
Channel				631534	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.74	19.80	19.71	21.0	0.0	
Channel				631000	633332	635998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.75	19.74	19.69	21.0	0.0	
Channel				630834	633332	636932	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.01	3499.98	3537.01			
25	QPSK	1	1	19.77	19.75	19.76	21.0	0.0	
Channel				630668	633332	636900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.81	19.72	19.81	21.0	0.0	
Channel				630500	633332	636198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	19.78	19.73	19.80	21.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	19.76	19.69	19.75	21.0	0.0	

Part27Q_n78_Ant 12											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)			
Channel											
Frequency (MHz)											
100	P22 BPSK	1	1	19.83			21.0	0.0			
100	P22 BPSK	1	137	19.80							
100	P22 BPSK	1	271	19.80							
100	P22 BPSK	135	0	19.86							
100	P22 BPSK	135	69	19.83			21.0	0.0			
100	P22 BPSK	135	138	19.81			21.0	0.0			
100	P22 BPSK	270	0	19.80							
100	QPSK	1	1	19.85							
100	QPSK	1	137	19.84							
100	QPSK	1	271	19.82			21.0	0.0			
100	QPSK	135	0	19.86			21.0	0.0			
100	QPSK	135	69	19.83							
100	QPSK	135	138	19.81							
100	QPSK	270	0	19.81							
100	16QAM	1	1	19.80			21.0	0.0			
100	64QAM	1	1	19.81			21.0	0.0			
100	256QAM	1	1	19.84			21.0	0.0			
Channel				648668	650000	650332	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3745.02	3750	3754.98					
50	QPSK	1	1	19.98	19.93	19.99	21.0	0.0			
Channel				648634	650000	650666				Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3749.01	3750	3750.99					
80	QPSK	1	1	19.85	19.80	19.89				Tune-up limit (dbm)	MPR (db)
Channel				648600	650000	651000	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3735	3750	3765					
70	QPSK	1	1	19.81	19.83	19.88	21.0	0.0			
Channel				648601	650000	651375				Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3730.02	3750	3769.98					
60	QPSK	1	1	19.93	19.89	19.89				Tune-up limit (dbm)	MPR (db)
Channel				648581	650000	651666	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3725.01	3750	3774.99					
50	QPSK	1	1	19.91	19.94	19.88	21.0	0.0			
Channel				648600	650000	650900				Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3720	3750	3780					
40	QPSK	1	1	19.92	19.91	19.95				Tune-up limit (dbm)	MPR (db)
Channel				647988	650000	652332	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3719.02	3750	3784.98					
30	QPSK	1	1	19.93	19.97	19.96	21.0	0.0			
Channel				647850	650000	652500				Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3712.5	3750	3787.5					
25	QPSK	1	1	19.91	19.96	19.91				Tune-up limit (dbm)	MPR (db)
Channel				647811	650000	652600	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3710.01	3750	3789.99					
20	QPSK	1	1	19.90	19.92	19.96	21.0	0.0			
Channel				647768	650000	652632				Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3710.52	3750	3789.48					
15	QPSK	1	1	19.98	19.93	19.96				Tune-up limit (dbm)	MPR (db)
Channel				647840	650000	653000	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				3705	3750	3795					
10	QPSK	1	1	19.92	19.92	19.90	21.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P22 BPSK	1	1	16.98			18.5	0.0	
100	P22 BPSK	1	137	17.03					
100	P22 BPSK	1	271	16.92					
100	P22 BPSK	135	0	16.93			18.5	0.0	
100	P22 BPSK	135	69	17.05			18.5	0.0	
100	P22 BPSK	135	138	16.97			18.5	0.0	
100	P22 BPSK	270	0	16.85					
100	QPSK	1	1	17.07					
100	QPSK	1	137	16.87			18.5	0.0	
100	QPSK	1	271	16.95					
100	QPSK	135	0	16.88					
100	QPSK	135	69	17.03			18.5	0.0	
100	QPSK	135	138	16.90			18.5	0.0	
100	QPSK	270	0	16.95					
100	16QAM	1	1	16.86			18.5	0.0	
100	64QAM	1	1	16.89			18.5	0.0	
100	256QAM	1	1	16.87			18.5	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.87	17.05	16.89	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.82	16.97	16.94	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.85	16.94	16.88	18.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.98			
60	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.81	16.97	16.89	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.89	16.93	16.95	18.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	16.86	16.98	16.94	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	16.81	16.94	16.89	18.5	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
15	QPSK	1	1	16.85	17.05	16.82	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.84	16.95	16.84	18.5	0.0	

Part270_n78_HPUE_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P22 BPSK	1	1	16.98			18.5	0.0	
100	P22 BPSK	1	137	17.03					
100	P22 BPSK	1	271	16.92					
100	P22 BPSK	135	0	16.93			18.5	0.0	
100	P22 BPSK	135	69	17.05			18.5	0.0	
100	P22 BPSK	135	138	16.97			18.5	0.0	
100	P22 BPSK	270	0	16.85					
100	QPSK	1	1	17.07					
100	QPSK	1	137	16.87			18.5	0.0	
100	QPSK	1	271	16.95					
100	QPSK	135	0	16.88					
100	QPSK	135	69	17.03			18.5	0.0	
100	QPSK	135	138	16.90			18.5	0.0	
100	QPSK	270	0	16.95					
100	16QAM	1	1	16.86			18.5	0.0	
100	64QAM	1	1	16.89			18.5	0.0	
100	256QAM	1	1	16.87			18.5	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.87	17.05	16.89	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.82	16.97	16.94	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.85	16.94	16.88	18.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.98			
60	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.81	16.97	16.89	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.89	16.93	16.95	18.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	16.86	16.98	16.94	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	16.81	16.94	16.89	18.5	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
15	QPSK	1	1	16.85	17.05	16.82	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.84	16.95	16.84	18.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				3699.98					
100	P22 BPSK	1	1	19.17				21.0	0.0
100	P22 BPSK	1	137	19.22					
100	P22 BPSK	1	271	19.15					
100	P22 BPSK	135	0	19.09				21.0	0.0
100	P22 BPSK	135	69	19.07				21.0	0.0
100	P22 BPSK	135	138	19.07				21.0	0.0
100	P22 BPSK	270	0	19.13				21.0	0.0
100	QPSK	1	1	19.30				21.0	0.0
100	QPSK	1	137	19.11				21.0	0.0
100	QPSK	1	271	19.17				21.0	0.0
100	QPSK	135	0	19.14				21.0	0.0
100	QPSK	135	69	19.25				21.0	0.0
100	QPSK	135	138	19.26				21.0	0.0
100	QPSK	270	0	19.25				21.0	0.0
100	16QAM	1	1	19.21				21.0	0.0
100	64QAM	1	1	19.14				21.0	0.0
100	256QAM	1	1	19.19				21.0	0.0
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	19.21	19.23	19.14	21.0	0.0	
Channel				632669	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.01	3499.98	3500			
80	QPSK	1	1	19.20	19.24	19.17	21.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.22	19.16	19.09	21.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.12	19.16	19.08	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.18	19.28	19.11	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.99			
40	QPSK	1	1	19.14	19.16	19.10	21.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3531.99			
30	QPSK	1	1	19.10	19.27	19.10	21.0	0.0	
Channel				630634	633332	635932	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3499.98	3537.48			
25	QPSK	1	1	19.22	19.15	19.17	21.0	0.0	
Channel				630300	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3460.92	3499.98	3540			
20	QPSK	1	1	19.21	19.20	19.16	21.0	0.0	
Channel				630000	633332	636666	Tune-up limit	MPR	
Frequency (MHz)				3459.85	3499.98	3542.66			
15	QPSK	1	1	19.17	19.21	19.19	21.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.31	3499.98	3541.88			
10	QPSK	1	1	19.14	19.13	19.23	21.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Middle Ch. Freq. 376000	Power High Ch. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1814	1810	1810			
20	Pl2 BPSK	1	1	18.09	18.08	18.04	19.8	0.0	
20	Pl2 BPSK	1	53	18.09	18.08	18.04			
20	Pl2 BPSK	1	104	18.05	18.11	18.03			
20	Pl2 BPSK	50	0	18.16	18.14	18.14	19.8	0.0	
20	Pl2 BPSK	50	28	18.07	18.04	18.12	19.8	0.0	
20	Pl2 BPSK	50	56	18.10	18.14	18.01	19.8	0.0	
20	Pl2 BPSK	100	0	18.04	18.07	18.08			
20	QPSK	1	1	18.18	18.20	18.17			
20	QPSK	1	53	18.05	18.05	18.04	19.8	0.0	
20	QPSK	1	104	18.10	18.06	18.13			
20	QPSK	50	0	18.12	18.10	18.07	19.8	0.0	
20	QPSK	50	28	18.17	18.18	18.15	19.8	0.0	
20	QPSK	50	56	18.16	18.07	18.04	19.8	0.0	
20	QPSK	100	0	18.15	18.15	18.13			
20	16QAM	1	1	18.02	18.05	18.06	19.8	0.0	
20	64QAM	1	1	18.03	18.06	18.01	19.8	0.0	
20	256QAM	1	1	18.15	18.11	18.12	19.8	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	18.16	18.08	18.00	19.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	18.08	18.15	18.03	19.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	18.05	18.16	18.10	19.8	0.0	

Reduced Power Mode for ECI 5									
n2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Middle Ch. Freq. 376000	Power High Ch. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				20.27	20.35	20.28			
20	Pl2 BPSK	1	1	20.32	20.29	20.39	21.8	0.0	
20	Pl2 BPSK	1	104	20.32	20.38	20.31			
20	Pl2 BPSK	50	0	20.36	20.28	20.27	21.8	0.0	
20	Pl2 BPSK	50	28	20.34	20.28	20.33	21.8	0.0	
20	Pl2 BPSK	50	56	20.37	20.42	20.37	21.8	0.0	
20	Pl2 BPSK	100	0	20.30	20.33	20.38			
20	QPSK	1	1	20.43	20.45	20.41			
20	QPSK	1	53	20.34	20.36	20.37	21.8	0.0	
20	QPSK	1	104	20.35	20.32	20.27			
20	QPSK	50	0	20.34	20.31	20.29	21.8	0.0	
20	QPSK	50	28	20.41	20.43	20.40	21.8	0.0	
20	QPSK	50	56	20.42	20.49	20.34	21.8	0.0	
20	QPSK	100	0	20.40	20.41	20.38			
20	16QAM	1	1	20.33	20.36	20.32	21.8	0.0	
20	64QAM	1	1	20.34	20.29	20.31	21.8	0.0	
20	256QAM	1	1	20.28	20.38	20.25	21.8	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	20.28	20.34	20.27	21.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	20.32	20.34	20.37	21.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	20.38	20.29	20.28	21.8	0.0	

n2_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Middle Ch. Freq. 376000	Power High Ch. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1814	1811	1811			
20	Pl2 BPSK	1	1	18.14	18.12	18.07	20.5	0.0	
20	Pl2 BPSK	1	104	18.02	18.15	18.10			
20	Pl2 BPSK	50	0	18.00	18.14	18.01	20.5	0.0	
20	Pl2 BPSK	50	28	18.03	18.11	18.03	20.5	0.0	
20	Pl2 BPSK	50	56	18.06	18.09	18.98	20.5	0.0	
20	Pl2 BPSK	100	0	18.08	18.07	18.98			
20	QPSK	1	1	18.17	18.20	18.15			
20	QPSK	1	53	18.04	18.11	18.10	20.5	0.0	
20	QPSK	1	104	18.03	18.05	18.04			
20	QPSK	50	0	18.09	18.17	18.98	20.5	0.0	
20	QPSK	50	28	18.15	18.18	18.13	20.5	0.0	
20	QPSK	50	56	18.12	18.08	18.11	20.5	0.0	
20	QPSK	100	0	18.13	18.16	18.11			
20	16QAM	1	1	18.02	18.08	18.98	20.5	0.0	
20	64QAM	1	1	18.11	18.07	18.12	20.5	0.0	
20	256QAM	1	1	18.09	18.12	18.09	20.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	18.09	18.12	18.11	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	18.07	18.09	18.11	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	18.00	18.14	18.00	20.5	0.0	

n5_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16700	Power High Ch. / Freq. 16780	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PQ2 BPSK	1	1	23.65	23.66	23.63	25.0	0.0
20	PQ2 BPSK	1	53	23.59	23.59	23.52		
20	PQ2 BPSK	1	104	23.62	23.61	23.51		
20	PQ2 BPSK	50	0	23.11	23.02	23.07		
20	PQ2 BPSK	50	28	23.61	23.59	23.54	25.0	0.0
20	PQ2 BPSK	50	56	23.03	23.06	23.12	24.5	0.5
20	PQ2 BPSK	100	0	23.05	23.13	23.03		
20	QPSK	1	1	23.09	23.70	23.06	25.0	0.0
20	QPSK	1	53	23.63	23.55	23.56		
20	QPSK	1	104	23.51	23.55	23.59		
20	QPSK	50	0	22.82	22.60	22.64		
20	QPSK	50	28	23.69	23.68	23.65	25.0	0.0
20	QPSK	50	56	22.85	22.82	22.59	24.0	1.0
20	QPSK	100	0	22.87	22.70	22.65		
20	16QAM	1	1	22.43	22.45	22.41	24.0	1.0
20	64QAM	1	1	21.46	21.48	21.43	22.5	2.5
20	256QAM	1	1	20.55	20.56	20.53	21.5	3.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.55	23.67	23.52	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.61	23.56	23.59	25.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.53	23.62	23.60	25.0	0.0

n5_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16700	Power High Ch. / Freq. 16780	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PQ2 BPSK	1	1	23.95	23.98	23.95	25.5	0.0
20	PQ2 BPSK	1	53	23.96	24.00	23.98		
20	PQ2 BPSK	1	104	23.95	23.99	23.98		
20	PQ2 BPSK	50	0	23.46	23.49	23.48		
20	PQ2 BPSK	50	28	23.91	23.97	23.93	25.5	0.0
20	PQ2 BPSK	50	56	23.31	23.37	23.35	25.0	0.5
20	PQ2 BPSK	100	0	23.41	23.44	23.43		
20	QPSK	1	1	24.09	24.07	24.02	25.5	0.0
20	QPSK	1	53	24.03	24.06	24.00		
20	QPSK	1	104	24.03	24.05	24.01		
20	QPSK	50	0	22.97	23.01	23.00		
20	QPSK	50	28	23.97	24.01	24.00	25.5	0.0
20	QPSK	50	56	22.86	22.82	22.80	24.5	1.0
20	QPSK	100	0	22.85	22.88	22.97		
20	16QAM	1	1	22.73	22.74	22.73	24.5	1.0
20	64QAM	1	1	21.79	21.85	21.83	23.0	2.5
20	256QAM	1	1	20.91	20.93	20.92	22.0	3.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.99	23.93	23.90	25.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.00	24.02	23.88	25.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.98	23.93	23.88	25.5	0.0

n7_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 50500	Power Middle Ch. / Freq. 50700	Power High Ch. / Freq. 50900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	PQ2 BPSK	1	1	16.27	16.23	16.15	17.5	0.0
50	PQ2 BPSK	1	156	16.29	16.19	16.23		
50	PQ2 BPSK	1	288	16.23	16.32	16.18		
50	PQ2 BPSK	136	0	16.24	16.18	16.19		
50	PQ2 BPSK	136	68	16.17	16.21	16.26	17.5	0.0
50	PQ2 BPSK	136	135	16.24	16.18	16.28	17.5	0.0
50	PQ2 BPSK	270	0	16.19	16.30	16.15		
50	QPSK	1	1	16.33	16.35	16.31	17.5	0.0
50	QPSK	1	135	16.21	16.18	16.27		
50	QPSK	1	288	16.29	16.29	16.27		
50	QPSK	136	0	16.17	16.27	16.19		
50	QPSK	135	68	16.31	16.33	16.30	17.5	0.0
50	QPSK	135	135	16.27	16.25	16.28	17.5	0.0
50	QPSK	270	0	16.30	16.31	16.28		
50	16QAM	1	1	16.28	16.25	16.17	17.5	0.0
50	64QAM	1	1	16.24	16.31	16.15	17.5	0.0
50	256QAM	1	1	16.29	16.31	16.15	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.21	16.19	16.22	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.23	16.30	16.19	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.19	16.28	16.21	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.25	16.25	16.24	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.29	16.32	16.22	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.20	16.29	16.18	17.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	16.26	16.25	16.28	17.5	0.0

n7_Ant 31											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				2525	2535	2545					
50	Pl2 BPSK	1	1	20.53	20.64	20.59	21.5	0.0			
50	Pl2 BPSK	1	135	20.62	20.65	20.52					
50	Pl2 BPSK	1	268	20.64	20.53	20.61					
50	Pl2 BPSK	135	0	20.56	20.52	20.59	21.5	0.0			
50	Pl2 BPSK	135	66	20.63	20.58	20.53	21.5	0.0			
50	Pl2 BPSK	135	135	20.60	20.61	20.55	21.5	0.0			
50	Pl2 BPSK	270	0	20.55	20.64	20.50					
50	QPSK	1	1	20.67	20.68	20.65	21.5	0.0			
50	QPSK	1	135	20.59	20.59	20.55					
50	QPSK	1	268	20.55	20.54	20.55					
50	QPSK	135	0	20.50	20.58	20.52	21.5	0.0			
50	QPSK	135	66	20.65	20.66	20.63	21.5	0.0			
50	QPSK	135	135	20.61	20.59	20.61	21.5	0.0			
50	QPSK	270	0	20.63	20.65	20.61					
50	16QAM	1	1	20.50	20.57	20.58	21.5	0.0			
50	64QAM	1	1	20.52	20.65	20.59	21.5	0.0			
50	256QAM	1	1	20.59	20.61	20.53	21.5	0.0			
Channel											
Frequency (MHz)				2520	2535	2550					
40	QPSK	1	1	20.55	20.54	20.56	21.5	0.0			
Channel											
Frequency (MHz)				2515	2535	2555					
30	QPSK	1	1	20.63	20.52	20.56	21.5	0.0			
Channel											
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)			
25	QPSK	1	1	20.52	20.58	20.51	21.5	0.0			
Channel											
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	1	20.60	20.55	20.60	21.5	0.0			
Channel											
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	1	20.60	20.54	20.58	21.5	0.0			
Channel											
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	1	20.57	20.64	20.51	21.5	0.0			
Channel											
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	1	20.64	20.59	20.55	21.5	0.0			

n7_Ant 11											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dbm)	MPR (db)			
Channel											
Frequency (MHz)				2525	2535	2545					
50	Pl2 BPSK	1	1	17.59	17.59	17.59	19.0	0.0			
50	Pl2 BPSK	1	135	17.67	17.62	17.68					
50	Pl2 BPSK	1	268	17.59	17.64	17.61					
50	Pl2 BPSK	135	0	17.69	17.59	17.60	19.0	0.0			
50	Pl2 BPSK	135	66	17.68	17.69	17.68	19.0	0.0			
50	Pl2 BPSK	135	135	17.60	17.63	17.69	19.0	0.0			
50	Pl2 BPSK	270	0	17.60	17.62	17.58					
50	QPSK	1	1	17.73	17.75	17.71	19.0	0.0			
50	QPSK	1	135	17.64	17.63	17.56					
50	QPSK	1	268	17.70	17.67	17.63					
50	QPSK	135	0	17.63	17.64	17.60	19.0	0.0			
50	QPSK	135	66	17.71	17.73	17.70	19.0	0.0			
50	QPSK	135	135	17.56	17.63	17.65	19.0	0.0			
50	QPSK	270	0	17.70	17.71	17.68					
50	16QAM	1	1	17.65	17.59	17.58	19.0	0.0			
50	64QAM	1	1	17.69	17.71	17.66	19.0	0.0			
50	256QAM	1	1	17.57	17.63	17.63	19.0	0.0			
Channel											
Frequency (MHz)				2520	2535	2550					
40	QPSK	1	1	17.66	17.62	17.55	19.0	0.0			
Channel											
Frequency (MHz)				2515	2535	2555					
30	QPSK	1	1	17.56	17.68	17.56	19.0	0.0			
Channel											
Frequency (MHz)				502500	507000	511500	Tune-up limit (dbm)	MPR (db)			
25	QPSK	1	1	17.56	17.62	17.67	19.0	0.0			
Channel											
Frequency (MHz)				502000	507000	512000	Tune-up limit (dbm)	MPR (db)			
20	QPSK	1	1	17.68	17.70	17.67	19.0	0.0			
Channel											
Frequency (MHz)				501500	507000	512500	Tune-up limit (dbm)	MPR (db)			
15	QPSK	1	1	17.62	17.69	17.66	19.0	0.0			
Channel											
Frequency (MHz)				501000	507000	513000	Tune-up limit (dbm)	MPR (db)			
10	QPSK	1	1	17.59	17.62	17.60	19.0	0.0			
Channel											
Frequency (MHz)				500500	507000	513500	Tune-up limit (dbm)	MPR (db)			
5	QPSK	1	1	17.67	17.71	17.68	19.0	0.0			

n26_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 164800	Power Middle Ch. F. Freq. 166300	Power High Ch. F. Freq. 167800	Tune-up limit	MPR	
Channel									
Frequency (MHz)				824	831.5	839			
20	Pl2 BPSK	1	1	23.65	23.66	23.63	25.0	0.0	
20	Pl2 BPSK	1	53	23.51	23.55	23.49			
20	Pl2 BPSK	1	104	23.64	23.51	23.48			
20	Pl2 BPSK	50	0	23.13	23.14	23.12	24.5	0.5	
20	Pl2 BPSK	50	28	23.50	23.50	23.53	25.0	0.0	
20	Pl2 BPSK	50	66	23.14	23.06	23.09	24.5	0.5	
20	Pl2 BPSK	100	0	23.03	23.06	23.12			
20	QPSK	1	1	23.68	23.71	23.67	25.0	0.0	
20	QPSK	1	53	23.53	23.62	23.51			
20	QPSK	1	104	23.63	23.66	23.62			
20	QPSK	50	0	22.90	22.93	22.83	24.0	1.0	
20	QPSK	50	28	23.67	23.68	23.65	25.0	0.0	
20	QPSK	50	56	22.83	22.83	22.85	24.0	1.0	
20	QPSK	100	0	22.68	22.70	22.67			
20	16QAM	1	1	22.43	22.45	22.41	24.0	1.0	
20	64QAM	1	1	21.45	21.46	21.43	22.5	3.5	
20	256QAM	1	1	20.53	20.55	20.51	21.5	3.5	
Channel									
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.65	23.64	23.61	25.0	0.0	
Channel									
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.63	23.60	23.60	25.0	0.0	

n26_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16800	Power Middle Ch. / Freq. 16830	Power High Ch. / Freq. 16860	Tune-up limit (dBm)	MPR (dB)
Channel				834	831.5	836	25.5	0.0
Frequency (MHz)				23.94	23.97	23.92		
20	P12 BPSK	1	1	23.94	23.97	23.92		
20	P12 BPSK	1	13	24.02	24.03	24.00		
20	P12 BPSK	1	104	24.00	24.02	23.98	25.0	0.5
20	P12 BPSK	50	0	23.54	23.56	23.51		
20	P12 BPSK	50	28	24.03	24.04	23.98		
20	P12 BPSK	50	56	23.48	23.53	23.45		
20	P12 BPSK	100	0	23.50	23.54	23.48	25.5	0.0
20	QPSK	1	1	23.54	24.08	24.04		
20	QPSK	1	13	23.98	24.03	23.98		
20	QPSK	1	104	23.98	24.03	23.98		
20	QPSK	50	0	23.05	23.14	23.08	24.5	1.0
20	QPSK	50	28	24.02	24.05	24.02		
20	QPSK	50	56	23.10	23.14	23.07		
20	QPSK	100	0	23.05	23.10	23.08		
20	16QAM	1	1	22.77	22.77	22.75	24.5	1.0
20	64QAM	1	1	21.87	21.87	21.84		
20	256QAM	1	1	20.89	20.93	20.86		
Channel				164300	164300	164300		
Frequency (MHz)				831.5	831.5	841.5	25.5	0.0
15	QPSK	1	1	23.94	24.00	23.92		
Channel				168300	168300	168300		
Frequency (MHz)				819	831.5	844	25.5	0.0
10	QPSK	1	1	23.94	23.91	23.90		
Channel				165300	165300	165300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.99	23.93	23.97	25.5	0.0

n66_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 346000	Power High Ch. / Freq. 350000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760	20.8	0.0
Frequency (MHz)				19.31	19.30	19.38		
40	P12 BPSK	1	1	19.40	19.42	19.27		
40	P12 BPSK	1	214	19.35	19.42	19.30		
40	P12 BPSK	108	0	19.32	19.28	19.27	20.8	0.0
40	P12 BPSK	108	54	19.40	19.36	19.28	20.8	0.0
40	P12 BPSK	108	108	19.38	19.28	19.25	20.8	0.0
40	P12 BPSK	216	0	19.27	19.41	19.37	20.8	0.0
Channel				19.43	19.45	19.41	20.8	0.0
Frequency (MHz)				19.38	19.32	19.30		
40	QPSK	1	1	19.34	19.35	19.32		
40	QPSK	108	0	19.35	19.28	19.31		
40	QPSK	108	54	19.41	19.43	19.40	20.8	0.0
40	QPSK	108	108	19.30	19.38	19.30	20.8	0.0
40	QPSK	216	0	19.40	19.41	19.38	20.8	0.0
40	16QAM	1	1	19.37	19.30	19.28	20.8	0.0
40	64QAM	1	1	19.28	19.29	19.30	20.8	0.0
40	256QAM	1	1	19.30	19.30	19.33	20.8	0.0
Channel				345000	346000	350000	20.8	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.31	19.29	19.37		
Channel				344000	346000	350000		
Frequency (MHz)				1722.5	1745	1767.5	20.8	0.0
25	QPSK	1	1	19.35	19.33	19.28		
Channel				344000	346000	350000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.31	19.30	19.39	20.8	0.0
Channel				343000	346000	350000		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.34	19.30	19.30		
Channel				343000	346000	350000	20.8	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.37	19.30	19.32		
Channel				342000	346000	350000		
Frequency (MHz)				1712.5	1745	1777.5	20.8	0.0
5	QPSK	1	1	19.32	19.34	19.38		

n66_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 346000	Power High Ch. / Freq. 350000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760	21.3	0.0
Frequency (MHz)				20.15	20.22	20.06		
40	P12 BPSK	1	1	20.10	20.10	20.11		
40	P12 BPSK	1	214	20.08	20.18	20.12		
40	P12 BPSK	108	0	20.18	20.21	20.10	21.3	0.0
40	P12 BPSK	108	54	20.19	20.13	20.17	21.3	0.0
40	P12 BPSK	108	108	20.10	20.19	20.11	21.3	0.0
40	P12 BPSK	216	0	20.16	20.09	20.12	21.3	0.0
40	QPSK	1	1	20.23	20.25	20.21	21.3	0.0
40	QPSK	1	108	20.19	20.19	20.09		
40	QPSK	1	214	20.13	20.11	20.10		
40	QPSK	108	0	20.17	20.22	20.07		
40	QPSK	108	54	20.21	20.23	20.20	21.3	0.0
40	QPSK	108	108	20.11	20.11	20.11	21.3	0.0
40	QPSK	216	0	20.20	20.21	20.18	21.3	0.0
40	16QAM	1	1	20.19	20.21	20.19	21.3	0.0
40	64QAM	1	1	20.07	20.09	20.11	21.3	0.0
40	256QAM	1	1	20.07	20.19	20.09	21.3	0.0
Channel				345000	346000	350000	21.3	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.11	20.17	20.10		
Channel				344000	346000	350000		
Frequency (MHz)				1722.5	1745	1767.5	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	20.11	20.16	20.15	21.3	0.0
Channel				344000	346000	350000	21.3	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.16	20.16	20.09		
Channel				343000	346000	350000		
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.10	20.14	20.15	21.3	0.0
Channel				343000	346000	350000	21.3	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.11	20.18	20.13		
Channel				342000	346000	350000		
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.15	20.08	20.05	21.3	0.0

n66_Ant 11								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq 346000	Power Middle Ch. Freq 349000	Power High Ch. Freq 352000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.05	21.08	21.09	22.3	0.0
40	PI2 BPSK	1	108	20.96	21.05	21.00		
40	PI2 BPSK	1	214	21.05	21.09	21.09		
40	PI2 BPSK	108	0	20.98	21.12	21.05	22.3	0.0
40	PI2 BPSK	108	54	21.01	21.08	20.96	22.3	0.0
40	PI2 BPSK	108	108	20.96	21.00	21.05	22.3	0.0
40	PI2 BPSK	216	0	20.99	21.05	20.95		
40	QPSK	1	1	21.13	21.15	21.11		
40	QPSK	1	108	21.03	21.12	21.09	22.3	0.0
40	QPSK	1	214	21.02	21.10	21.04		
40	QPSK	108	0	20.98	21.10	21.00		
40	QPSK	108	54	21.11	21.13	21.10	22.3	0.0
40	QPSK	108	108	21.02	21.06	21.02	22.3	0.0
40	QPSK	216	0	21.10	21.11	21.08		
40	16QAM	1	1	20.96	20.99	21.03	22.3	0.0
40	64QAM	1	1	20.99	20.98	21.04	22.3	0.0
40	256QAM	1	1	20.99	21.01	20.97	22.3	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.97	21.09	21.00	22.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1760		
25	QPSK	1	1	21.05	20.98	21.00	22.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
20	QPSK	1	1	21.07	21.05	20.96	22.3	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.05	21.05	21.09	22.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.10	21.01	21.06	22.3	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.98	21.08	21.03	22.3	0.0

n38_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 518004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	16.62	16.56	16.55	18.3	0.0	
40	Pl2 BPSK	1	53	16.53	16.54	16.64			
40	Pl2 BPSK	1	104	16.57	16.57	16.57			
40	Pl2 BPSK	50	0	16.65	16.56	16.51	18.3	0.0	
40	Pl2 BPSK	50	28	16.57	16.57	16.62	18.3	0.0	
40	Pl2 BPSK	50	56	16.53	16.59	16.56	18.3	0.0	
40	Pl2 BPSK	100	0	16.62	16.54	16.64			
40	QPSK	1	1	16.68	16.70	16.67			
40	QPSK	1	53	16.56	16.56	16.60	18.3	0.0	
40	QPSK	1	104	16.64	16.54	16.53	18.3	0.0	
40	QPSK	50	0	16.53	16.53	16.64			
40	QPSK	50	28	16.66	16.68	16.65			
40	QPSK	50	56	16.56	16.65	16.64	18.3	0.0	
40	QPSK	100	0	16.65	16.66	16.63	18.3	0.0	
40	16QAM	1	1	16.56	16.59	16.61			
40	64QAM	1	1	16.63	16.66	16.57			
40	256QAM	1	1	16.61	16.65	16.52	18.3	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.64	16.55	16.53	18.3	0.0	
Channel									
Frequency (MHz)				2582.5	2595	2607.5			
25	QPSK	1	1	16.60	16.62	16.61	18.3	0.0	
Channel									
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.53	16.57	16.56	18.3	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2577.51	2595	2612.49	18.3	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2575.02	2595	2614.98	18.3	0.0	

n38_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 518004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	20.39	20.52	20.37	21.7	0.0	
40	Pl2 BPSK	1	53	20.41	20.47	20.36			
40	Pl2 BPSK	1	104	20.47	20.41	20.44			
40	Pl2 BPSK	50	0	20.37	20.52	20.46	21.7	0.0	
40	Pl2 BPSK	50	28	20.45	20.38	20.40	21.7	0.0	
40	Pl2 BPSK	50	56	20.48	20.52	20.42	21.7	0.0	
40	Pl2 BPSK	100	0	20.46	20.48	20.35			
40	QPSK	1	1	20.53	20.55	20.51			
40	QPSK	1	53	20.46	20.45	20.36	21.7	0.0	
40	QPSK	1	104	20.41	20.42	20.45			
40	QPSK	50	0	20.47	20.47	20.44			
40	QPSK	50	28	20.51	20.53	20.50	21.7	0.0	
40	QPSK	50	56	20.43	20.46	20.45	21.7	0.0	
40	QPSK	100	0	20.50	20.51	20.48			
40	16QAM	1	1	20.36	20.41	20.36	21.7	0.0	
40	64QAM	1	1	20.44	20.40	20.40	21.7	0.0	
40	256QAM	1	1	20.41	20.40	20.36	21.7	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.36	20.41	20.43	21.7	0.0	
Channel									
Frequency (MHz)				2582.5	2595	2607.5			
25	QPSK	1	1	20.49	20.45	20.41	21.7	0.0	
Channel									
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.45	20.38	20.42	21.7	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.42	20.42	20.41	21.7	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.39	20.39	20.37	21.7	0.0	

n38_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 518004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	15.78	15.90	15.86	17.7	0.0	
40	Pl2 BPSK	1	53	15.86	15.82	15.74			
40	Pl2 BPSK	1	104	15.85	15.88	15.86			
40	Pl2 BPSK	50	0	15.84	15.89	15.76	17.7	0.0	
40	Pl2 BPSK	50	28	15.79	15.79	15.77	17.7	0.0	
40	Pl2 BPSK	50	56	15.75	15.84	15.86	17.7	0.0	
40	Pl2 BPSK	100	0	15.81	15.85	15.78			
40	QPSK	1	1	15.91	15.93	15.90			
40	QPSK	1	53	15.87	15.88	15.81	17.7	0.0	
40	QPSK	1	104	15.89	15.86	15.77			
40	QPSK	50	0	15.84	15.82	15.81			
40	QPSK	50	28	15.90	15.91	15.88	17.7	0.0	
40	QPSK	50	56	15.77	15.81	15.80	17.7	0.0	
40	QPSK	100	0	15.88	15.90	15.87			
40	16QAM	1	1	15.76	15.81	15.80	17.7	0.0	
40	64QAM	1	1	15.87	15.87	15.77	17.7	0.0	
40	256QAM	1	1	15.80	15.88	15.61	17.7	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.84	15.90	15.79	17.7	0.0	
Channel									
Frequency (MHz)				2582.5	2595	2607.5			
25	QPSK	1	1	15.77	15.79	15.84	17.7	0.0	
Channel									
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.75	15.80	15.78	17.7	0.0	
Channel									
Frequency (MHz)				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.85	15.90	15.76	17.7	0.0	
Channel									
Frequency (MHz)				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.77	15.83	15.62	17.7	0.0	

n41_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2546.01	2562.99	2640				
Frequency (MHz)										
100	PQ2 BPSK	1	1	17.24	17.29	17.27				
100	PQ2 BPSK	1	137	17.24	17.29	17.30	18.5	0.0		
100	PQ2 BPSK	1	271	17.33	17.30	17.31				
100	PQ2 BPSK	135	0	17.28	17.36	17.33	18.5	0.0		
100	PQ2 BPSK	135	69	17.23	17.30	17.23	18.5	0.0		
100	PQ2 BPSK	135	135	17.34	17.31	17.27	18.5	0.0		
100	PQ2 BPSK	270	0	17.35	17.27	17.28	18.5	0.0		
100	QPSK	1	1	17.39	17.40	17.37				
100	QPSK	1	137	17.36	17.25	17.34	18.5	0.0		
100	QPSK	1	271	17.31	17.23	17.25				
100	QPSK	135	0	17.31	17.26	17.27	18.5	0.0		
100	QPSK	135	69	17.37	17.38	17.35	18.5	0.0		
100	QPSK	135	135	17.43	17.29	17.21	18.5	0.0		
100	QPSK	270	0	17.35	17.35	17.33				
100	16QAM	1	1	17.31	17.30	17.34	18.5	0.0		
100	64QAM	1	1	17.35	17.35	17.24	18.5	0.0		
100	256QAM	1	1	17.33	17.26	17.29	18.5	0.0		
Channel				50200	51898	52898	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2562.99	2644.98				
90	QPSK	1	1	17.28	17.25	17.25	18.5	0.0		
Channel				50724	51898	53098	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2562.99	2649.99				
80	QPSK	1	1	17.31	17.26	17.33	18.5	0.0		
Channel				50200	51898	53198	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2524	2562.99	2654.98				
60	QPSK	1	1	17.24	17.24	17.20	18.5	0.0		
Channel				50424	51898	53098	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2562.99	2654.99				
50	QPSK	1	1	17.24	17.31	17.23	18.5	0.0		
Channel				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2562.99	2670				
40	QPSK	1	1	17.24	17.31	17.24	18.5	0.0		
Channel				50200	51898	53498	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2562.99	2674.98				
30	QPSK	1	1	17.23	17.23	17.26	18.5	0.0		
Channel				50724	51898	53098	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2562.99	2679.99				
20	QPSK	1	1	17.35	17.36	17.34	18.5	0.0		
Channel				50070	51898	53698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2562.99	2683.48				
15	QPSK	1	1	17.32	17.25	17.22	18.5	0.0		
Channel				50002	51898	53700	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501.01	2562.99	2685				
10	QPSK	1	1	17.24	17.30	17.31	18.5	0.0		

n41_HPUE_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2546.01	2562.99	2640				
100	PQ2 BPSK	1	1	17.24	17.29	17.27				
100	PQ2 BPSK	1	137	17.24	17.29	17.30	18.5	0.0		
100	PQ2 BPSK	1	271	17.33	17.30	17.31				
100	PQ2 BPSK	135	0	17.28	17.36	17.33	18.5	0.0		
100	PQ2 BPSK	135	69	17.23	17.30	17.23	18.5	0.0		
100	PQ2 BPSK	135	135	17.34	17.31	17.27	18.5	0.0		
100	PQ2 BPSK	270	0	17.35	17.27	17.28				
100	QPSK	1	1	17.39	17.40	17.37				
100	QPSK	1	137	17.36	17.25	17.34	18.5	0.0		
100	QPSK	1	271	17.31	17.23	17.25				
100	QPSK	135	0	17.31	17.26	17.27	18.5	0.0		
100	QPSK	135	69	17.37	17.38	17.35	18.5	0.0		
100	QPSK	135	135	17.43	17.29	17.21	18.5	0.0		
100	QPSK	270	0	17.35	17.35	17.33				
100	16QAM	1	1	17.31	17.30	17.34	18.5	0.0		
100	64QAM	1	1	17.35	17.35	17.24	18.5	0.0		
100	256QAM	1	1	17.33	17.26	17.29	18.5	0.0		
Channel				50820	51898	53896	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2562.99	2644.98				
90	QPSK	1	1	17.28	17.25	17.25	18.5	0.0		
Channel				50724	51898	53096	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2562.99	2649.99				
80	QPSK	1	1	17.31	17.26	17.33	18.5	0.0		
Channel				50200	51898	53196	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2524	2562.99	2659.98				
60	QPSK	1	1	17.24	17.24	17.20	18.5	0.0		
Channel				50424	51898	53096	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2562.99	2664.99				
50	QPSK	1	1	17.24	17.31	17.23	18.5	0.0		
Channel				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2562.99	2670				
40	QPSK	1	1	17.24	17.31	17.24	18.5	0.0		
Channel				50200	51898	53496	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2562.99	2674.98				
30	QPSK	1	1	17.23	17.23	17.26	18.5	0.0		
Channel				50724	51898	53096	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2562.99	2679.99				
20	QPSK	1	1	17.35	17.36	17.34	18.5	0.0		
Channel				50070	51898	53696	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2562.99	2683.48				
15	QPSK	1	1	17.32	17.25	17.22	18.5	0.0		
Channel				50002	51898	53700	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501.01	2562.99	2685				
10	QPSK	1	1	17.24	17.30	17.31	18.5	0.0		

n41_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2546.01	2562.99	2640				
100	PQ2 BPSK	1	1	20.80	20.78	20.65				
100	PQ2 BPSK	1	137	20.71	20.76	20.71	21.7	0.0		
100	PQ2 BPSK	1	271	20.75	20.68	20.74				
100	PQ2 BPSK	135	0	20.76	20.81	20.72	21.7	0.0		
100	PQ2 BPSK	135	69	20.67	20.78	20.67	21.7	0.0		
100	PQ2 BPSK	135	135	20.79	20.80	20.67	21.7	0.0		
100	PQ2 BPSK	270	0	20.69	20.81	20.67				
100	QPSK	1	1	20.83	20.85	20.81				
100	QPSK	1	137	20.74	20.73	20.79	21.7	0.0		
100	QPSK	1	271	20.66	20.72	20.69				
100	QPSK	135	0	20.67	20.71	20.76	21.7	0.0		
100	QPSK	135	69	20.81	20.83	20.80	21.7	0.0		
100	QPSK	135	135	20.86	20.68	20.78	21.7	0.0		
100	QPSK	270	0	20.80	20.81	20.78				
100	16QAM	1	1	20.77	20.70	20.71	21.7	0.0		
100	64QAM	1	1	20.77	20.68	20.74	21.7	0.0		
100	256QAM	1	1	20.68	20.79	20.72				
Channel				508200	518608	528966	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541.2	2562.99	2644.98				
100	Channel			20.79	20.74	20.72	21.7			
Channel				507204	518608	528966	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2562.99	2644.99				
80	QPSK	1	1	20.60	20.73	20.66	21.7	0.0		
80	QPSK	1	1	20.60	20.73	20.66	21.7	0.0		
Channel				506200	518608	528966	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2562.99	2644.98				
60	QPSK	1	1	20.66	20.77	20.71	21.7	0.0		
60	QPSK	1	1	20.65	20.78	20.72	21.7	0.0		
Channel				505200	518608	528966	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2562.99	2664.99				
50	QPSK	1	1	20.69	20.68	20.69	21.7	0.0		
50	QPSK	1	1	20.69	20.68	20.69	21.7	0.0		
Channel				504200	518608	528966	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2562.99	2670				
40	QPSK	1	1	20.80	20.81	20.80	21.7	0.0		
40	Channel			502200	518608	534966	Tune-up limit (dBm)	MPR (dB)		
40	Channel			501200	518608	534966	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	20.70	20.71	20.79	21.7	0.0		
30	Channel			501204	518608	535966	Tune-up limit (dBm)	MPR (dB)		
20	Channel			5004.02	2562.99	2674.99				
20	QPSK	1	1	20.69	20.75	20.77	21.7	0.0		
20	Channel			500700	518608	536466	Tune-up limit (dBm)	MPR (dB)		
15	Channel			50015	2562.99	2679				
15	QPSK	1	1	20.72	20.70	20.78	21.7	0.0		
15	Channel			500202	518608	537900	Tune-up limit (dBm)	MPR (dB)		
10	Channel			500001	2562.99	2685				
10	QPSK	1	1	20.66	20.74	20.76	21.7	0.0		

n41_HPUE_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 500002	Power Middle Ch. / Freq. 518998	Power High Ch. / Freq. 536990	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	20.80	20.78	20.65		21.7	0.0
100	PQ2 BPSK	1	137	20.71	20.75	20.71			
100	PQ2 BPSK	1	271	20.75	20.68	20.74			
100	PQ2 BPSK	135	0	20.76	20.81	20.72	21.7	0.0	
100	PQ2 BPSK	135	69	20.67	20.78	20.67	21.7	0.0	
100	PQ2 BPSK	135	135	20.76	20.80	20.67	21.7	0.0	
100	PQ2 BPSK	270	0	20.69	20.81	20.67			
100	QPSK	1	1	20.83	20.85	20.81		21.7	0.0
100	QPSK	1	137	20.74	20.73	20.79			
100	QPSK	1	271	20.68	20.72	20.69			
100	QPSK	135	0	20.67	20.71	20.78	21.7	0.0	
100	QPSK	135	69	20.81	20.83	20.80	21.7	0.0	
100	QPSK	135	135	20.66	20.68	20.78	21.7	0.0	
100	QPSK	270	0	20.80	20.81	20.78			
100	16QAM	1	1	20.77	20.70	20.71	21.7	0.0	
100	64QAM	1	1	20.77	20.68	20.74	21.7	0.0	
100	256QAM	1	1	20.66	20.70	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.79	20.74	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.67	20.73	20.66	21.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.66	20.77	20.71	21.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.80	20.68	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.80	20.81	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.70	20.71	20.79	21.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.69	20.75	20.77	21.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.72	20.70	20.78	21.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.66	20.77	20.69	21.7	0.0	

n41_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq. 500002	Power Ch. / Freq. 518998	Power Ch. / Freq. 536990	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	16.29	16.23	16.31		17.7	0.0
100	PQ2 BPSK	1	137	16.22	16.31	16.23			
100	PQ2 BPSK	1	271	16.35	16.25	16.31			
100	PQ2 BPSK	135	0	16.31	16.32	16.32	17.7	0.0	
100	PQ2 BPSK	135	69	16.34	16.33	16.34	17.7	0.0	
100	PQ2 BPSK	135	135	16.29	16.30	16.29	17.7	0.0	
100	PQ2 BPSK	270	0	16.24	16.25	16.22			
100	QPSK	1	1	16.38	16.40	16.37		17.7	0.0
100	QPSK	1	137	16.22	16.25	16.31			
100	QPSK	1	271	16.23	16.24	16.21			
100	QPSK	135	0	16.22	16.26	16.30	17.7	0.0	
100	QPSK	135	69	16.37	16.38	16.35	17.7	0.0	
100	QPSK	135	135	16.35	16.32	16.25	17.7	0.0	
100	QPSK	270	0	16.35	16.37	16.33			
100	16QAM	1	1	16.24	16.28	16.34	17.7	0.0	
100	64QAM	1	1	16.29	16.24	16.32	17.7	0.0	
100	256QAM	1	1	16.28	16.24	16.23	17.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.22	16.34	16.29	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.29	16.34	16.21	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.22	16.28	16.30	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.30	16.30	16.28	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.31	16.32	16.34	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.30	16.30	16.28	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.27	16.36	16.21	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.34	16.35	16.21	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.23	16.23	16.33	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.33	16.32	16.29	17.7	0.0	

n41_HPUE_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 500002	Power Middle Ch. / Freq. 518998	Power High Ch. / Freq. 536990	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	16.29	16.23	16.31	17.7	0.0	
100	PQ2 BPSK	1	137	16.22	16.31	16.23			
100	PQ2 BPSK	1	271	16.30	16.25	16.31			
100	PQ2 BPSK	135	0	16.31	16.32	16.32	17.7	0.0	
100	PQ2 BPSK	135	69	16.34	16.33	16.34	17.7	0.0	
100	PQ2 BPSK	135	135	16.29	16.30	16.29	17.7	0.0	
100	PQ2 BPSK	270	0	16.24	16.25	16.22			
100	QPSK	1	1	16.38	16.40	16.37	17.7	0.0	
100	QPSK	1	137	16.22	16.25	16.31			
100	QPSK	1	271	16.23	16.24	16.21			
100	QPSK	135	0	16.22	16.26	16.30	17.7	0.0	
100	QPSK	135	69	16.37	16.38	16.35	17.7	0.0	
100	QPSK	135	135	16.35	16.32	16.25	17.7	0.0	
100	QPSK	270	0	16.35	16.37	16.33			
100	16QAM	1	1	16.24	16.28	16.34	17.7	0.0	
100	64QAM	1	1	16.29	16.24	16.32	17.7	0.0	
100	256QAM	1	1	16.28	16.24	16.23	17.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.22	16.34	16.29	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.29	16.34	16.21	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.22	16.28	16.30	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.30	16.30	16.28	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.31	16.32	16.34	17.7	0.0	
Channel					500002	518998	536990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					254.01	252.99	264.99	17.7	0.0
40	QPSK	1	1	16.33	16.36	16.36	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.27	16.38	16.31	17.7	0.0	
Channel					501.04	518.98	535.98	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					260.06	252.99	267.99	17.7	0.0
20	QPSK	1	1	16.34	16.35	16.21	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.23	16.23	16.33	17.7	0.0	
Channel					500.02	518.98	537.00	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					261.01	252.99	264.99	17.7	0.0
10	QPSK	1	1	16.33	16.32	16.29	17.7	0.0	

Part270_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 650000	Power Middle Ch. / Freq 656000	Power High Ch. / Freq 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	18.51	18.50	18.51	19.5	0.0	
100	P2 BPSK	1	137	18.54	18.54	18.55			
100	P2 BPSK	1	271	18.53	18.43	18.49			
100	P2 BPSK	135	0	18.43	18.50	18.42	19.5	0.0	
100	P2 BPSK	135	69	18.43	18.46	18.55	19.5	0.0	
100	P2 BPSK	135	138	18.53	18.55	18.48	19.5	0.0	
100	P2 BPSK	270	0	18.43	18.55	18.54	19.5	0.0	
100	QPSK	1	1	18.50	18.59	18.56	19.5	0.0	
100	QPSK	1	137	18.47	18.46	18.44			
100	QPSK	1	271	18.50	18.54	18.42			
100	QPSK	135	0	18.48	18.49	18.43	19.5	0.0	
100	QPSK	135	69	18.57	18.58	18.56	19.5	0.0	
100	QPSK	135	138	18.46	18.49	18.54	19.5	0.0	
100	QPSK	270	0	18.55	18.57	18.53	19.5	0.0	
100	16QAM	1	1	18.53	18.51	18.43	19.5	0.0	
100	64QAM	1	1	18.50	18.49	18.51	19.5	0.0	
100	256QAM	1	1	18.48	18.43	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.51	18.44	18.55	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.42	18.44	18.45	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.44	18.46	18.43	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.51	18.44	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.53	18.50	18.50	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.53	18.53	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.46	18.47	18.47	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.56	18.48	18.47	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.56	18.43	18.42	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.48	18.55	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.50	18.57	18.46	19.5	0.0	

Part27Q_n77_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	16.70	16.70	16.70	17.5	0.0	
100	P2 BPSK	1	137	16.74	16.74	16.74			
100	P2 BPSK	1	271	16.66	16.66	16.66			
100	P2 BPSK	135	0	16.69	16.69	16.69	17.5	0.0	
100	P2 BPSK	135	69	16.70	16.70	16.70	17.5	0.0	
100	P2 BPSK	135	138	16.70	16.70	16.70	17.5	0.0	
100	P2 BPSK	270	0	16.74	16.74	16.74	17.5	0.0	
100	QPSK	1	1	16.71	16.71	16.71	17.5	0.0	
100	QPSK	1	137	16.72	16.72	16.72			
100	QPSK	1	271	16.66	16.66	16.66			
100	QPSK	135	0	16.66	16.66	16.66	17.5	0.0	
100	QPSK	135	69	16.69	16.69	16.69	17.5	0.0	
100	QPSK	135	138	16.70	16.70	16.70	17.5	0.0	
100	QPSK	270	0	16.70	16.70	16.70	17.5	0.0	
100	16QAM	1	1	16.68	16.68	16.68	17.5	0.0	
100	64QAM	1	1	16.75	16.75	16.75	17.5	0.0	
100	256QAM	1	1	16.71	16.71	16.71	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit	MPR	
				3499.98	3499.98	3499.98	(dBm)	(dB)	
90	QPSK	1	1	16.73	16.77	16.72	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	634002	63499.98	3570	Tune-up limit	MPR	
				3499.98	3499.98	3570	(dBm)	(dB)	
80	QPSK	1	1	16.63	16.74	16.69	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633332	634332	Tune-up limit	MPR	
				3485.01	3489.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	16.66	16.66	16.76	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	637000	637332	637666	Tune-up limit	MPR	
				3480	3499.98	3519.98	(dBm)	(dB)	
60	QPSK	1	1	16.74	16.75	16.70	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	637000	637332	637666	Tune-up limit	MPR	
				3482.52	3499.98	3529.98	(dBm)	(dB)	
50	QPSK	1	1	16.66	16.71	16.76	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit	MPR	
				3482.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	16.65	16.73	16.65	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit	MPR	
				3465	3499.98	3534.98	(dBm)	(dB)	
30	QPSK	1	1	16.65	16.74	16.75	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633332	635832	Tune-up limit	MPR	
				3462.51	3499.98	3557.48	(dBm)	(dB)	
25	QPSK	1	1	16.79	16.72	16.78	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630600	633332	636000	Tune-up limit	MPR	
				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	16.67	16.78	16.77	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630300	633332	636366	Tune-up limit	MPR	
				3457.5	3499.98	3542.48	(dBm)	(dB)	
15	QPSK	1	1	16.77	16.73	16.69	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633332	636332	Tune-up limit	MPR	
				3456.01	3499.98	3541.48	(dBm)	(dB)	
10	QPSK	1	1	16.73	16.66	16.74	17.5	0.0	

Part270_n77_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2 BPSK	1	1	16.59	16.64	16.61	17.5	0.0	
100	P2 BPSK	1	137	16.66	16.61	16.58			
100	P2 BPSK	1	271	16.61	16.72	16.62			
100	P2 BPSK	135	0	16.57	16.62	16.57	17.5	0.0	
100	P2 BPSK	135	69	16.63	16.71	16.61	17.5	0.0	
100	P2 BPSK	135	138	16.59	16.61	16.59	17.5	0.0	
100	P2 BPSK	270	0	16.69	16.63	16.60	17.5	0.0	
100	QPSK	1	1	16.73	16.75	16.71	17.5	0.0	
100	QPSK	1	137	16.56	16.69	16.57			
100	QPSK	1	271	16.59	16.59	16.66			
100	QPSK	135	0	16.61	16.59	16.63	17.5	0.0	
100	QPSK	135	69	16.71	16.73	16.70	17.5	0.0	
100	QPSK	135	138	16.66	16.72	16.59	17.5	0.0	
100	QPSK	270	0	16.70	16.71	16.68	17.5	0.0	
100	QAM	1	1	16.67	16.60	16.66	17.5	0.0	
100	64QAM	1	1	16.70	16.58	16.61	17.5	0.0	
100	256QAM	1	1	16.69	16.67	16.68	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.63	16.67	16.58	17.5	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.63	16.67	16.58	17.5	MPR (dB)	
80	QPSK	1	1	16.70	16.72	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.70	16.72	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.70	16.60	16.58	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.66	16.64	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.66	16.64	16.64	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.66	16.64	16.64	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.57	16.69	16.57	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.60	16.61	16.67	17.5	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3469.98					
100	Pl2 BPSK	1	1	17.38			18.5	0.0	
100	Pl2 BPSK	1	137	17.35					
100	Pl2 BPSK	1	271	17.32					
100	Pl2 BPSK	135	0	17.45			18.5	0.0	
100	Pl2 BPSK	135	69	17.32			18.5	0.0	
100	Pl2 BPSK	135	135	17.37			18.5	0.0	
100	Pl2 BPSK	270	0	17.34			18.5	0.0	
100	QPSK	1	1	17.48			18.5	0.0	
100	QPSK	1	137	17.42					
100	QPSK	1	271	17.32					
100	QPSK	135	0	17.31			18.5	0.0	
100	QPSK	135	69	17.46					
100	QPSK	135	135	17.41					
100	QPSK	270	0	17.45			18.5	0.0	
100	16QAM	1	1	17.35			18.5	0.0	
100	64QAM	1	1	17.45			18.5	0.0	
100	256QAM	1	1	17.16			18.5	0.0	
Channel									
Frequency (MHz)				633000		633660	Tune-up limit (dB)	MPR (dB)	
				3465		3469.98	3504.98		
90	QPSK	1	1	17.37	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)				3480.02		3489.98	3510		
80	QPSK	1	1	17.41	17.39	17.44	18.5	0.0	
Channel									
Frequency (MHz)				633334		633332	Tune-up limit (dBm)	MPR (dB)	
				3484.01		3489.98	3514.98		
70	QPSK	1	1	17.40	17.39	17.41	18.5	0.0	
Channel									
Frequency (MHz)				633000		633332	Tune-up limit (dB)	MPR (dB)	
				3484.01		3489.98	3514.98		
60	QPSK	1	1	17.35	17.45	17.36	18.5	0.0	
Channel									
Frequency (MHz)				631668		633332	Tune-up limit (dB)	MPR (dB)	
				3475.02		3469.98	3525		
50	QPSK	1	1	17.42	17.37	17.37	18.5	0.0	
Channel									
Frequency (MHz)				637334		633332	Tune-up limit (dBm)	MPR (dB)	
				3470.01		3469.98	3529.98		
40	QPSK	1	1	17.37	17.37	17.45	18.5	0.0	
Channel									
Frequency (MHz)				636000		633332	Tune-up limit (dB)	MPR (dB)	
				3465		3469.98	3534.98		
30	QPSK	1	1	17.41	17.34	17.38	18.5	0.0	
Channel									
Frequency (MHz)				630684		633332	Tune-up limit (dB)	MPR (dB)	
				3460.02		3469.98	3540		
25	QPSK	1	1	17.33	17.32	17.33	18.5	0.0	
Channel									
Frequency (MHz)				630668		633332	Tune-up limit (dB)	MPR (dB)	
				3455.01		3469.98	3544.98		
20	QPSK	1	1	17.35	17.37	17.43	18.5	0.0	
Channel									
Frequency (MHz)				630500		633332	Tune-up limit (dB)	MPR (dB)	
				3457.5		3469.98	3542.49		
15	QPSK	1	1	17.36	17.40	17.31	18.5	0.0	
Channel									
Frequency (MHz)				632334		633332	Tune-up limit (dB)	MPR (dB)	
				3455.01		3469.98	3544.98		
10	QPSK	1	1	17.41	17.31	17.35	18.5	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750		3840	3930		
100	Pl2 BPSK	1	1	17.33	17.34	17.32	18.5	0.0	
100	Pl2 BPSK	1	137	17.38	17.28	17.33			
100	Pl2 BPSK	1	271	17.37	17.34	17.29			
100	Pl2 BPSK	135	0	17.28	17.31	17.25	18.5	0.0	
100	Pl2 BPSK	135	69	17.34	17.29	17.36	18.5	0.0	
100	Pl2 BPSK	135	135	17.28	17.31	17.27	18.5	0.0	
100	Pl2 BPSK	270	0	17.34	17.38	17.37	18.5	0.0	
100	QPSK	1	1	17.41	17.43	17.38	18.5	0.0	
100	QPSK	1	137	17.34	17.29	17.29			
100	QPSK	1	271	17.38	17.34	17.25			
100	QPSK	135	0	17.29	17.28	17.30	18.5	0.0	
100	QPSK	135	69	17.39	17.41	17.38			
100	QPSK	135	135	17.36	17.38	17.28			
100	QPSK	270	0	17.38	17.39	17.36	18.5	0.0	
100	16QAM	1	1	17.24	17.28	17.33	18.5	0.0	
100	64QAM	1	1	17.30	17.30	17.24	18.5	0.0	
100	256QAM	1	1	17.07	17.21	17.19	18.5	0.0	
Channel									
Frequency (MHz)				646668		650000	662332	Tune-up limit (dB)	MPR (dB)
				3745.02		3840	3934.98		
90	QPSK	1	1	17.36	17.40	17.23	18.5	0.0	
Channel									
Frequency (MHz)				674001		674001	3840	3899.98	
				3740.01		3840	3899.98	3910	
80	QPSK	1	1	17.36	17.29	17.35	18.5	0.0	
Channel									
Frequency (MHz)				646000		650000	Tune-up limit (dBm)	MPR (dB)	
				3740.01		3840	3945		
70	QPSK	1	1	17.27	17.33	17.31	18.5	0.0	
Channel									
Frequency (MHz)				646668		650000	663332	Tune-up limit (dB)	MPR (dB)
				3743.02		3840	3949.98	3959.98	
60	QPSK	1	1	17.26	17.27	17.36	18.5	0.0	
Channel									
Frequency (MHz)				646334		650000	663668	Tune-up limit (dBm)	MPR (dB)
				3725.01		3840	3954.98		
50	QPSK	1	1	17.30	17.35	17.28	18.5	0.0	
Channel									
Frequency (MHz)				646000		650000	Tune-up limit (dBm)	MPR (dB)	
				3720		3840	3960		
40	QPSK	1	1	17.36	17.35	17.24	18.5	0.0	
Channel									
Frequency (MHz)				6715.02		3840	3964.98		
				3715.02		3840	3964.98	3974.98	
30	QPSK	1	1	17.30	17.33	17.29	18.5	0.0	
Channel									
Frequency (MHz)				647500		650000	Tune-up limit (dB)	MPR (dB)	
				3712.5		3840	3967.5		
25	QPSK	1	1	17.26	17.36	17.34	18.5	0.0	
Channel									
Frequency (MHz)				647334		650000	Tune-up limit (dB)	MPR (dB)	
				3710.01		3840	3967.59		
20	QPSK	1	1	17.21	17.33	17.32	18.5	0.0	
Channel									
Frequency (MHz)				647168		650000	663668	Tune-up limit (dB)	MPR (dB)
				3707.52		3840	3972.48		
15	QPSK	1	1	17.29	17.38	17.28	18.5	0.0	
Channel									
Frequency (MHz)				647000		650000	Tune-up limit (dB)	MPR (dB)	
				3705		3840	3975		
10	QPSK	1	1	17.38	17.32	17.29	18.5	0.0	

Part27Q_n78_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	16.82					
100	P12 BPSK	1	137	16.81			17.7	0.0	
100	P12 BPSK	1	271	16.81					
100	P12 BPSK	135	0	16.81			17.7	0.0	
100	P12 BPSK	135	69	16.78			17.7	0.0	
100	P12 BPSK	135	136	16.77					
100	P12 BPSK	270	0	16.81			17.7	0.0	
100	QPSK	1	1	16.85					
100	QPSK	1	137	16.78			17.7	0.0	
100	QPSK	1	271	16.72					
100	QPSK	135	0	16.81					
100	QPSK	135	69	16.83			17.7	0.0	
100	QPSK	135	136	16.78					
100	QPSK	270	0	16.81			17.7	0.0	
100	16QAM	1	1	16.85			17.7	0.0	
100	64QAM	1	1	16.81					
100	256QAM	1	1	16.78			17.7	0.0	
Channel									
Frequency (MHz)				63500	63532	63566	Time-up limit (dB)	MPR (dB)	
				3465	3469.58	3504.96			
90	QPSK	1	1	16.88	16.89	16.78	17.7	0.0	
Channel									
Frequency (MHz)				63568	63532	63400	Time-up limit (dB)	MPR (dB)	
				3480.02	3469.58	3510			
80	QPSK	1	1	16.89	16.70	16.69	17.7	0.0	
Channel									
Frequency (MHz)				63254	63332	63432	Time-up limit (dB)	MPR (dB)	
				3465.01	3469.58	3514.08			
70	QPSK	1	1	16.72	16.63	16.63	17.7	0.0	
Channel									
Frequency (MHz)				63200	63332	63466	Time-up limit (dB)	MPR (dB)	
				3480	3469.58	3519.99			
60	QPSK	1	1	16.73	16.78	16.71	17.7	0.0	
Channel									
Frequency (MHz)				63105	63332	63500	Time-up limit (dB)	MPR (dB)	
				3475.02	3469.58	3525			
50	QPSK	1	1	16.68	16.72	16.79	17.7	0.0	
Channel									
Frequency (MHz)				63134	63332	63532	Time-up limit (dB)	MPR (dB)	
				3480	3469.58	3529.88			
40	QPSK	1	1	16.73	16.82	16.78	17.7	0.0	
Channel									
Frequency (MHz)				63100	63332	63566	Time-up limit (dB)	MPR (dB)	
				3480	3469.58	3533.69			
30	QPSK	1	1	16.76	16.65	16.80	17.7	0.0	
Channel									
Frequency (MHz)				63084	63332	63582	Time-up limit (dB)	MPR (dB)	
				3462.51	3469.58	3537.48			
25	QPSK	1	1	16.68	16.78	16.77	17.7	0.0	
Channel									
Frequency (MHz)				63090	63332	63500	Time-up limit (dB)	MPR (dB)	
				3460.02	3469.58	3540			
20	QPSK	1	1	16.71	16.68	16.75	17.7	0.0	
Channel									
Frequency (MHz)				63050	63332	63610	Time-up limit (dB)	MPR (dB)	
				3457.5	3469.58	3542.88			
15	QPSK	1	1	16.81	16.71	16.75	17.7	0.0	
Channel									
Frequency (MHz)				63034	63332	63632	Time-up limit (dB)	MPR (dB)	
				3465.01	3469.58	3544.88			
10	QPSK	1	1	16.81	16.70	16.77	17.7	0.0	

Part27Q_n78_HPUE_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	16.82			17.7	0.0	
100	P22 BPSK	1	137	16.81					
100	P22 BPSK	1	271	16.78					
100	P22 BPSK	135	0	16.81			17.7	0.0	
100	P22 BPSK	135	69	16.78			17.7	0.0	
100	P22 BPSK	135	138	16.77			17.7	0.0	
100	P22 BPSK	270	0	16.79					
100	QPSK	1	1	16.85					
100	QPSK	1	137	16.76			17.7	0.0	
100	QPSK	1	271	16.72					
100	QPSK	135	0	16.72					
100	QPSK	135	69	16.83			17.7	0.0	
100	QPSK	135	138	16.76			17.7	0.0	
100	QPSK	270	0	16.81					
100	16QAM	1	1	16.68			17.7	0.0	
100	64QAM	1	1	16.78			17.7	0.0	
100	256QAM	1	1	16.81			17.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.88	16.69	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.89	16.70	16.69	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.72	16.76	16.68	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.73	16.79	16.71	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.69	16.72	16.70	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.73	16.82	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.76	16.68	16.80	17.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.69	16.78	16.77	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.71	16.63	16.75	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.81	16.71	16.75	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.81	16.70	16.77	17.7	0.0	

Part27O_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	16.84			17.7	0.0	
100	P22 BPSK	1	137	16.81					
100	P22 BPSK	1	271	16.74					
100	P22 BPSK	135	0	16.76			17.7	0.0	
100	P22 BPSK	135	69	16.85			17.7	0.0	
100	P22 BPSK	135	138	16.74			17.7	0.0	
100	P22 BPSK	270	0	16.72					
100	QPSK	1	1	16.88					
100	QPSK	1	137	16.74			17.7	0.0	
100	QPSK	1	271	16.82					
100	QPSK	135	0	16.82					
100	QPSK	135	69	16.87			17.7	0.0	
100	QPSK	135	138	16.79			17.7	0.0	
100	QPSK	270	0	16.85					
100	16QAM	1	1	16.74			17.7	0.0	
100	64QAM	1	1	16.83			17.7	0.0	
100	256QAM	1	1	16.75			17.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.86	16.72	16.73	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.80	16.83	16.81	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.81	16.73	16.72	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.83	16.77	16.75	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.84	16.78	16.72	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.85	16.83	16.85	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.74	16.81	16.76	17.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.73	16.72	16.73	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.75	16.77	16.76	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.78	16.76	16.79	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.79	16.72	16.83	17.7	0.0	

Part27O_n78_HPUE_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	16.84			17.7	0.0	
100	P22 BPSK	1	137	16.81					
100	P22 BPSK	1	271	16.74					
100	P22 BPSK	135	0	16.76			17.7	0.0	
100	P22 BPSK	135	69	16.85			17.7	0.0	
100	P22 BPSK	135	138	16.74			17.7	0.0	
100	P22 BPSK	270	0	16.72					
100	QPSK	1	1	16.88					
100	QPSK	1	137	16.74			17.7	0.0	
100	QPSK	1	271	16.82					
100	QPSK	135	0	16.82					
100	QPSK	135	69	16.87			17.7	0.0	
100	QPSK	135	138	16.79			17.7	0.0	
100	QPSK	270	0	16.85					
100	16QAM	1	1	16.74			17.7	0.0	
100	64QAM	1	1	16.83			17.7	0.0	
100	256QAM	1	1	16.75			17.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.86	16.72	16.73	17.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.80	16.83	16.81	17.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.81	16.73	16.72	17.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.83	16.77	16.75	17.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.84	16.78	16.72	17.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.85	16.83	16.85	17.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.74	16.81	16.70	17.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.73	16.72	16.73	17.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.70	16.77	16.76	17.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.78	16.78	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.79	16.72	16.83	17.7	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	19.80	653332	653332	21.0	0.0	
100	P22 BPSK	1	137	19.74					
100	P22 BPSK	1	271	19.77					
100	P22 BPSK	135	0	19.76					
100	P22 BPSK	135	69	19.81			21.0	0.0	
100	P22 BPSK	135	138	19.75			21.0	0.0	
100	P22 BPSK	270	0	19.74					
100	QPSK	1	1	19.85					
100	QPSK	1	137	19.77					
100	QPSK	1	271	19.82			21.0	0.0	
100	QPSK	135	0	19.80			21.0	0.0	
100	QPSK	135	69	19.83					
100	QPSK	135	138	19.75					
100	QPSK	270	0	19.81					
100	16QAM	1	1	19.82			21.0	0.0	
100	64QAM	1	1	19.75			21.0	0.0	
100	256QAM	1	1	19.76			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.77	653332	653686	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.69	653332	653490	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.77	653332	653432	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.70	653332	653594	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.75	653332	653500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.74	653332	653626	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.75	653332	653666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.77	653332	653748	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.81	653332	653832	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.78	653332	653926	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.76	653332	653932	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.76	653332	654048	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n78_HPUE_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	19.80			21.0	0.0	
100	P22 BPSK	1	137	19.74					
100	P22 BPSK	1	271	19.77					
100	P22 BPSK	135	0	19.76					
100	P22 BPSK	135	69	19.81			21.0	0.0	
100	P22 BPSK	135	138	19.75			21.0	0.0	
100	P22 BPSK	270	0	19.74					
100	QPSK	1	1	19.85					
100	QPSK	1	137	19.77					
100	QPSK	1	271	19.82			21.0	0.0	
100	QPSK	135	0	19.80			21.0	0.0	
100	QPSK	135	69	19.83					
100	QPSK	135	138	19.75					
100	QPSK	270	0	19.81					
100	16QAM	1	1	19.82			21.0	0.0	
100	64QAM	1	1	19.75			21.0	0.0	
100	256QAM	1	1	19.76			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.77	19.81	19.81	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.79	19.77	19.72	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.77	19.73	19.74	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.70	19.69	19.69	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.75	19.62	19.73	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.74	19.69	19.69	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.72	19.63	19.63	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.77	19.75	19.76	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.81	19.72	19.81	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.78	19.73	19.80	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.76	19.69	19.75	Tune-up limit (dBm)		MPR (dB)

Part270_n78_Ant 12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	19.83			21.0	0.0	
100	P22 BPSK	1	137	19.82					
100	P22 BPSK	1	271	19.82					
100	P22 BPSK	135	0	19.86					
100	P22 BPSK	135	69	19.83			21.0	0.0	
100	P22 BPSK	135	138	19.81			21.0	0.0	
100	P22 BPSK	270	0	19.82					
100	QPSK	1	1	19.85					
100	QPSK	1	137	19.84					
100	QPSK	1	271	19.82			21.0	0.0	
100	QPSK	135	0	19.88			21.0	0.0	
100	QPSK	135	69	19.83					
100	QPSK	135	138	19.82					
100	QPSK	270	0	19.81					
100	16QAM	1	1	19.80			21.0	0.0	
100	64QAM	1	1	19.81			21.0	0.0	
100	256QAM	1	1	19.84			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.86	19.83	19.89	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.86	19.80	19.89	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.81	19.82	19.88	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.83	19.89	19.84	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.83	19.89	19.89	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.81	19.84	19.88	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.82	19.87	19.86	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.81	19.86	19.81	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.80	19.82	19.86	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.78	19.83	19.86	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.80	19.82	19.89	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									

Part270_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P22 BPSK	1	1	16.98			18.5	0.0	
100	P22 BPSK	1	137	17.03					
100	P22 BPSK	1	271	16.92					
100	P22 BPSK	135	0	16.93			18.5	0.0	
100	P22 BPSK	135	69	17.05			18.5	0.0	
100	P22 BPSK	135	138	16.97			18.5	0.0	
100	P22 BPSK	270	0	16.86					
100	QPSK	1	1	17.07					
100	QPSK	1	137	16.87			18.5	0.0	
100	QPSK	1	271	16.96					
100	QPSK	135	0	16.88					
100	QPSK	135	69	17.03			18.5	0.0	
100	QPSK	135	138	16.96			18.5	0.0	
100	QPSK	270	0	16.95					
100	16QAM	1	1	16.86			18.5	0.0	
100	64QAM	1	1	16.89			18.5	0.0	
100	256QAM	1	1	16.87			18.5	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.87	17.05	16.89	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.82	16.97	16.94	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.85	16.94	16.88	18.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.98			
60	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.81	16.97	16.89	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.89	16.93	16.95	18.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	16.86	16.98	16.94	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
25	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				647000	650000	652999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
20	QPSK	1	1	16.81	16.94	16.89	18.5	0.0	
Channel				646668	650000	653332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
15	QPSK	1	1	16.85	17.05	16.82	18.5	0.0	
Channel				646334	650000	653666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.84	16.95	16.84	18.5	0.0	

Part270_n78_HPUE_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P22 BPSK	1	1	16.98			18.5	0.0	
100	P22 BPSK	1	137	17.03					
100	P22 BPSK	1	271	16.92					
100	P22 BPSK	135	0	16.93			18.5	0.0	
100	P22 BPSK	135	69	17.05			18.5	0.0	
100	P22 BPSK	135	138	16.97			18.5	0.0	
100	P22 BPSK	270	0	16.86					
100	QPSK	1	1	17.07					
100	QPSK	1	137	16.87			18.5	0.0	
100	QPSK	1	271	16.96					
100	QPSK	135	0	16.88					
100	QPSK	135	69	17.03			18.5	0.0	
100	QPSK	135	138	16.96			18.5	0.0	
100	QPSK	270	0	16.95					
100	16QAM	1	1	16.86			18.5	0.0	
100	64QAM	1	1	16.89			18.5	0.0	
100	256QAM	1	1	16.87			18.5	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.87	17.05	16.89	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	16.82	16.97	16.94	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.85	16.94	16.88	18.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.98			
60	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.81	16.97	16.89	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.89	16.93	16.95	18.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	16.86	16.98	16.94	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
25	QPSK	1	1	16.85	17.05	16.84	18.5	0.0	
Channel				647000	650000	652999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
20	QPSK	1	1	16.81	16.94	16.89	18.5	0.0	
Channel				646668	650000	653332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
15	QPSK	1	1	16.85	17.05	16.82	18.5	0.0	
Channel				646334	650000	653666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.84	16.95	16.84	18.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)				3699.98					
100	P22 BPSK	1	1	19.17			21.0	0.0	
100	P22 BPSK	1	137	19.22					
100	P22 BPSK	1	271	19.15					
100	P22 BPSK	135	0	19.09			21.0	0.0	
100	P22 BPSK	135	69	19.07			21.0	0.0	
100	P22 BPSK	135	138	19.07			21.0	0.0	
100	P22 BPSK	270	0	19.13					
100	QPSK	1	1	19.30					
100	QPSK	1	137	19.11			21.0	0.0	
100	QPSK	1	271	19.17					
100	QPSK	135	0	19.14					
100	QPSK	135	69	19.25			21.0	0.0	
100	QPSK	135	138	19.26			21.0	0.0	
100	QPSK	270	0	19.25					
100	16QAM	1	1	19.21			21.0	0.0	
100	64QAM	1	1	19.14			21.0	0.0	
100	256QAM	1	1	19.19			21.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	19.21	19.23	19.14	21.0	0.0	
Channel				632500	633332	634000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3500			
80	QPSK	1	1	19.20	19.24	19.17	21.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.22	19.16	19.09	21.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.12	19.16	19.08	21.0	0.0	
Channel				631666	633332	635000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	19.18	19.28	19.11	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3528.98			
40	QPSK	1	1	19.14	19.16	19.10	21.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.18	19.27	19.10	21.0	0.0	
Channel				630654	633332	636332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3460.51	3499.98	3537.48			
25	QPSK	1	1	19.22	19.15	19.17	21.0	0.0	
Channel				630300	633332	636666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.21	19.20	19.16	21.0	0.0	
Channel				630050	633332	636866	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3458.15	3499.98	3542.49			
15	QPSK	1	1	19.17	19.21	19.19	21.0	0.0	
Channel				630034	633332	636832	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3456.16	3499.98	3544.84			
10	QPSK	1	1	19.14	19.15	19.20	21.0	0.0	

Part27Q_n78_HPUE_Ant_23											
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch. / Free	Power Ch. / Free	Power Ch. / Free	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	Pl2 BPSK	1	1	19.17	633332	3469.98	21.0	0.0			
100	Pl2 BPSK	1	137	19.22							
100	Pl2 BPSK	1	271	19.15							
100	Pl2 BPSK	135	0	19.09			21.0	0.0			
100	Pl2 BPSK	135	69	19.07			21.0	0.0			
100	Pl2 BPSK	135	138	19.07			21.0	0.0			
100	Pl2 BPSK	270	0	19.13			21.0	0.0			
100	QPSK	1	1	19.30			21.0	0.0			
100	QPSK	1	137	19.11							
100	QPSK	1	271	19.17							
100	QPSK	135	0	19.14			21.0	0.0			
100	QPSK	135	69	19.25							
100	QPSK	135	136	19.20							
100	QPSK	270	0	19.20			21.0	0.0			
100	16QAM	1	1	19.21			21.0	0.0			
100	64QAM	1	1	19.14			21.0	0.0			
100	256QAM	1	1	19.19			21.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	19.21	633332	633666	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.20	633332	634000	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.22	633332	634332	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.12	633332	634666	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.18	633332	635000	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.14	633332	635332	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.18	633332	635666	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.22	633332	636000	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.24	633332	636332	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.17	633332	636666	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.14	633332	637000	Tune-up limit (dBm)	MPR (dB)			
Channel							3469.98	3489.98	3510	Tune-up limit (dBm)	MPR (dB)

Part27O_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Free	Power Middle Ch. / Free 650000	Power High Ch. / Free	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	19.26			21.0	0.0	
100	Pl2 BPSK	1	137	19.34					
100	Pl2 BPSK	1	271	19.34					
100	Pl2 BPSK	135	0	19.24			21.0	0.0	
100	Pl2 BPSK	135	69	19.23			21.0	0.0	
100	Pl2 BPSK	135	135	19.28			21.0	0.0	
100	Pl2 BPSK	270	0	19.24			21.0	0.0	
100	QPSK	1	1	19.40			21.0	0.0	
100	QPSK	1	137	19.27					
100	QPSK	1	271	19.28					
100	QPSK	135	0	19.24			21.0	0.0	
100	QPSK	135	69	19.38					
100	QPSK	135	135	19.31					
100	QPSK	270	0	19.36			21.0	0.0	
100	16QAM	1	1	19.22			21.0	0.0	
100	64QAM	1	1	19.20			21.0	0.0	
100	256QAM	1	1	19.26			21.0	0.0	
Channel									
Frequency (MHz)				648668	650000	650332	Tune-up limit	MPR	
90	QPSK	1	1	19.18	19.27	19.25	21.0	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.98	Tune-up limit	MPR	
80	QPSK	1	1	19.23	19.29	19.21	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	Tune-up limit	MPR	
70	QPSK	1	1	19.24	19.27	19.16	21.0	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3725.02	3750	3769.98	Tune-up limit	MPR	
60	QPSK	1	1	19.17	19.39	19.22	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.98	Tune-up limit	MPR	
50	QPSK	1	1	19.20	19.32	19.27	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	Tune-up limit	MPR	
40	QPSK	1	1	19.23	19.37	19.28	21.0	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3784.98	Tune-up limit	MPR	
30	QPSK	1	1	19.21	19.27	19.29	21.0	0.0	
Channel				647500	650000	652500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit	MPR	
25	QPSK	1	1	19.22	19.34	19.21	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.98	Tune-up limit	MPR	
20	QPSK	1	1	19.24	19.34	19.24	21.0	0.0	
Channel				647168	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.48	Tune-up limit	MPR	
15	QPSK	1	1	19.18	19.27	19.28	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	Tune-up limit	MPR	
10	QPSK	1	1	19.18	19.26	19.30	21.0	0.0	

Part27O_n78_HPUE_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low / Ch. / Free	Power Middle / Ch. / Free	Power High / Ch. / Free	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2750					
100	Pl2 BPSK	1	1	19.26			21.0	0.0	
100	Pl2 BPSK	1	137	19.34					
100	Pl2 BPSK	1	271	19.34					
100	Pl2 BPSK	135	0	19.24			21.0	0.0	
100	Pl2 BPSK	135	69	19.23			21.0	0.0	
100	Pl2 BPSK	135	135	19.28			21.0	0.0	
100	Pl2 BPSK	270	0	19.24			21.0	0.0	
100	QPSK	1	1	19.40			21.0	0.0	
100	QPSK	1	137	19.27					
100	QPSK	1	271	19.28					
100	QPSK	135	0	19.24			21.0	0.0	
100	QPSK	135	69	19.38					
100	QPSK	135	135	19.31					
100	QPSK	270	0	19.36			21.0	0.0	
100	16QAM	1	1	19.22			21.0	0.0	
100	64QAM	1	1	19.20			21.0	0.0	
100	256QAM	1	1	19.26			21.0	0.0	
Channel									
Frequency (MHz)				648668	650000	650332	Tune-up limit	MPR	
90	QPSK	1	1	19.18	19.27	19.25	21.0	0.0	
Channel									
Frequency (MHz)				7420.01	3750	3765	Tune-up limit	MPR	
90	QPSK	19.23	19.29	19.21	19.21	19.21	21.0	0.0	
Channel									
Frequency (MHz)				3735 <th>3750<th>3765</th><th>Tune-up limit</th><th colspan="2">MPR</th></th>	3750 <th>3765</th> <th>Tune-up limit</th> <th colspan="2">MPR</th>	3765	Tune-up limit	MPR	
70	QPSK	1	1	19.24	19.27	19.16	21.0	0.0	
Channel									
Frequency (MHz)				3730.02	3750	3768.98	Tune-up limit	MPR	
80	QPSK	1	1	19.17	19.29	19.22	21.0	0.0	
Channel									
Frequency (MHz)				658356	650000	651686	Tune-up limit	MPR	
90	QPSK	1	1	19.22	19.30	19.25	21.0	0.0	
Channel									
Frequency (MHz)				3725.01 <th>3750</th> <th>3774.99<th>Tune-up limit</th><th colspan="2">MPR</th></th>	3750	3774.99 <th>Tune-up limit</th> <th colspan="2">MPR</th>	Tune-up limit	MPR	
90	QPSK	1	1	19.20	19.32	19.27	21.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR	
40	QPSK	1	1	19.23	19.37	19.28	21.0	0.0	
Channel									
Frequency (MHz)				647868	650000	652332	Tune-up limit	MPR	
30	QPSK	1	1	19.21	19.27	19.29	21.0	0.0	
Channel									
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit	MPR	
25	QPSK	1	1	19.22	19.34	19.21	21.0	0.0	
Channel									
Frequency (MHz)				3722.5	3750	3782.5	Tune-up limit	MPR	
20	QPSK	1	1	19.24	19.34	19.24	21.0	0.0	
Channel									
Frequency (MHz)				3710.01	3750	3789.99 <th>Tune-up limit</th> <th colspan="2">MPR</th>	Tune-up limit	MPR	
15	QPSK	1	1	19.18	19.27	19.28	21.0	0.0	
Channel									
Frequency (MHz)				3712.5	3750	3785	Tune-up limit	MPR	
10	QPSK	1	1	19.19	19.25	19.30	21.0	0.0	

n2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)									
20	Pl2 BPSK	1	1	16.65	16.60	16.63	18.3	0.0	
20	Pl2 BPSK	1	53	16.59	16.57	16.56	18.3		
20	Pl2 BPSK	1	104	16.57	16.63	16.60	18.3		
20	Pl2 BPSK	50	0	16.65	16.62	16.57	18.3	0.0	
20	Pl2 BPSK	50	28	16.66	16.60	16.52	18.3	0.0	
20	Pl2 BPSK	50	56	16.65	16.55	16.56	18.3	0.0	
20	Pl2 BPSK	100	0	16.56	16.60	16.59	18.3		
20	QPSK	1	1	16.70	16.71	16.68	18.3	0.0	
20	QPSK	1	53	16.58	16.59	16.63	18.3		
20	QPSK	1	104	16.57	16.66	16.61	18.3		
20	QPSK	50	0	16.67	16.64	16.56	18.3	0.0	
20	QPSK	50	28	16.69	16.70	16.67	18.3	0.0	
20	QPSK	50	56	16.56	16.64	16.53	18.3	0.0	
20	QPSK	100	0	16.57	16.66	16.65	18.3		
20	16QAM	1	1	16.53	16.60	16.57	18.3	0.0	
20	64QAM	1	1	16.57	16.69	16.65	18.3	0.0	
20	256QAM	1	1	16.63	16.55	16.54	18.3	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	16.85	16.68	16.55	18.3	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	16.54	16.63	16.58	18.3	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1902.5			
5	QPSK	1	1	16.65	16.58	16.65	18.3	0.0	

Reduced Power Mode for ECI 8&9&10									
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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)									
20	Pl2 BPSK	1	1	20.27	20.35	20.28	21.8	0.0	
20	Pl2 BPSK	1	53	20.32	20.29	20.39	21.8		
20	Pl2 BPSK	1	104	20.32	20.38	20.31	21.8		
20	Pl2 BPSK	50	0	20.36	20.28	20.27	21.8	0.0	
20	Pl2 BPSK	50	28	20.34	20.28	20.33	21.8	0.0	
20	Pl2 BPSK	50	56	20.37	20.42	20.37	21.8	0.0	
20	Pl2 BPSK	100	0	20.30	20.33	20.38	21.8		
20	QPSK	1	1	20.43	20.45	20.41	21.8	0.0	
20	QPSK	1	53	20.34	20.36	20.37	21.8		
20	QPSK	1	104	20.35	20.32	20.27	21.8		
20	QPSK	50	0	20.34	20.31	20.29	21.8	0.0	
20	QPSK	50	28	20.41	20.43	20.40	21.8	0.0	
20	QPSK	50	56	20.42	20.39	20.34	21.8	0.0	
20	QPSK	100	0	20.40	20.41	20.38	21.8		
20	16QAM	1	1	20.33	20.36	20.32	21.8	0.0	
20	64QAM	1	1	20.34	20.29	20.31	21.8	0.0	
20	256QAM	1	1	20.28	20.38	20.25	21.8	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	20.28	20.34	20.27	21.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	20.32	20.34	20.37	21.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1902.5			
5	QPSK	1	1	20.38	20.29	20.28	21.8	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 372000	Power Middle Ch. F. Freq. 376000	Power High Ch. F. Freq. 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)									
20	Pl2 BPSK	1	1	17.52	17.54	17.60	19.0	0.0	
20	Pl2 BPSK	1	53	17.61	17.59	17.53	19.0		
20	Pl2 BPSK	1	104	17.63	17.58	17.50	19.0		
20	Pl2 BPSK	50	0	17.61	17.56	17.52	19.0	0.0	
20	Pl2 BPSK	50	28	17.55	17.62	17.51	19.0	0.0	
20	Pl2 BPSK	50	56	17.62	17.63	17.52	19.0	0.0	
20	Pl2 BPSK	100	0	17.60	17.53	17.54	19.0		
20	QPSK	1	1	17.68	17.70	17.67	19.0	0.0	
20	QPSK	1	53	17.65	17.59	17.55	19.0		
20	QPSK	1	104	17.63	17.57	17.55	19.0		
20	QPSK	50	0	17.57	17.63	17.56	19.0	0.0	
20	QPSK	50	28	17.67	17.68	17.65	19.0	0.0	
20	QPSK	50	56	17.56	17.63	17.60	19.0	0.0	
20	QPSK	100	0	17.65	17.66	17.63	19.0		
20	16QAM	1	1	17.57	17.63	17.56	19.0	0.0	
20	64QAM	1	1	17.52	17.63	17.54	19.0	0.0	
20	256QAM	1	1	17.58	17.55	17.64	19.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	17.64	17.55	17.61	19.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	17.61	17.57	17.56	19.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1902.5			
5	QPSK	1	1	17.52	17.62	17.53	19.0	0.0	

n5_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838	25.0	0.0	
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	23.65	23.66	23.63			
20	PI2 BPSK	1	53	23.59	23.59	23.52			
20	PI2 BPSK	1	104	23.62	23.61	23.51	24.5	0.5	
20	PI2 BPSK	50	0	23.11	23.02	23.07			
20	PI2 BPSK	50	28	23.61	23.59	23.54			
20	PI2 BPSK	50	56	23.03	23.06	23.12			
20	PI2 BPSK	100	0	23.05	23.13	23.03	25.0	0.0	
20	QPSK	1	1	23.09	23.70	23.06			
20	QPSK	1	53	23.63	23.55	23.56			
20	QPSK	1	104	23.51	23.55	23.59			
20	QPSK	50	0	22.82	22.60	22.64	24.0	1.0	
20	QPSK	50	28	23.69	23.68	23.65			
20	QPSK	50	56	22.85	22.82	22.53			
20	QPSK	100	0	22.87	22.70	22.85			
20	16QAM	1	1	22.43	22.45	22.41	24.0	1.0	
20	64QAM	1	1	21.46	21.48	21.43			
20	256QAM	1	1	20.55	20.56	20.53			
Channel				165300	167300	169300			
Frequency (MHz)				831.5	836.5	841.5	25.0	0.0	
15	QPSK	1	1	23.55	23.67	23.52			
Channel				165300	167300	169300			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.61	23.56	23.59	25.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				838.5	836.5	846.5			
5	QPSK	1	1	23.53	23.62	23.60			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166500	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838	25.5	0.0	
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	23.95	23.98	23.95			
20	PI2 BPSK	1	53	23.96	24.00	23.98			
20	PI2 BPSK	1	104	23.95	23.99	23.98	25.0	0.5	
20	PI2 BPSK	50	0	23.46	23.49	23.48			
20	PI2 BPSK	50	28	23.91	23.97	23.93			
20	PI2 BPSK	50	56	23.31	23.37	23.35			
20	PI2 BPSK	100	0	23.41	23.44	23.43	25.0	0.5	
20	QPSK	1	1	24.09	24.07	24.02			
20	QPSK	1	53	24.03	24.06	24.00			
20	QPSK	1	104	24.03	24.05	24.01			
20	QPSK	50	0	22.97	23.01	23.00	24.5	1.0	
20	QPSK	50	28	23.97	24.01	24.00			
20	QPSK	50	56	22.86	22.82	22.90			
20	QPSK	100	0	22.95	22.98	22.97			
20	16QAM	1	1	22.73	22.74	22.73	24.5	1.0	
20	64QAM	1	1	21.79	21.85	21.83			
20	256QAM	1	1	20.91	20.93	20.92			
Channel				165300	167300	169300			
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0	
15	QPSK	1	1	23.99	23.93	23.90			
Channel				165300	167300	169300			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.00	24.02	23.88	25.5	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				838.5	836.5	846.5			
5	QPSK	1	1	23.98	23.93	23.88			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505500	Power Middle Ch. / Freq. 507500	Power High Ch. / Freq. 508000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545	16.0	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	14.72	14.77	14.70			
50	PI2 BPSK	1	156	14.71	14.68	14.69			
50	PI2 BPSK	1	288	14.73	14.73	14.69	16.0	0.0	
50	PI2 BPSK	136	0	14.71	14.78	14.69			
50	PI2 BPSK	136	68	14.77	14.78	14.67			
50	PI2 BPSK	136	136	14.73	14.80	14.75			
50	PI2 BPSK	270	0	14.80	14.78	14.79	16.0	0.0	
50	QPSK	1	1	14.83	14.85	14.81			
50	QPSK	1	136	14.79	14.73	14.69			
50	QPSK	1	288	14.80	14.80	14.78			
50	QPSK	136	0	14.69	14.78	14.75	16.0	0.0	
50	QPSK	136	68	14.81	14.83	14.80			
50	QPSK	136	136	14.88	14.89	14.71			
50	QPSK	270	0	14.80	14.81	14.78			
50	16QAM	1	1	14.72	14.75	14.79	16.0	0.0	
50	64QAM	1	1	14.70	14.71	14.72			
50	256QAM	1	1	14.67	14.68	14.72			
Channel				505500	507500	510000			
Frequency (MHz)				2520	2535	2550	16.0	0.0	
40	QPSK	1	1	14.67	14.71	14.79			
Channel				505500	507500	510000			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	14.68	14.78	14.69	16.0	0.0	
Channel				505500	507500	510000			
Frequency (MHz)				2510	2535	2560			
25	QPSK	1	1	14.73	14.78	14.76			
Channel				505500	507500	510000	16.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	14.69	14.71	14.69			
Channel				505500	507500	510000			
Frequency (MHz)				2507.5	2535	2562.5	16.0	0.0	
15	QPSK	1	1	14.73	14.72	14.79			
Channel				505500	507500	510000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	14.71	14.79	14.72	16.0	0.0	
Channel				505500	507500	510000			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	14.72	14.81	14.79			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)				2525	2535	2545			
50	Pl2 BPSK	1	1	20.53	20.64	20.59	21.5	0.0	
50	Pl2 BPSK	1	135	20.52	20.65	20.52			
50	Pl2 BPSK	1	268	20.64	20.53	20.61			
50	Pl2 BPSK	135	0	20.56	20.52	20.59	21.5	0.0	
50	Pl2 BPSK	135	68	20.63	20.58	20.53	21.5	0.0	
50	Pl2 BPSK	135	135	20.60	20.61	20.55	21.5	0.0	
50	Pl2 BPSK	270	0	20.55	20.64	20.50			
50	QPSK	1	1	20.67	20.68	20.65	21.5	0.0	
50	QPSK	1	135	20.59	20.59	20.55			
50	QPSK	1	268	20.55	20.54	20.55			
50	QPSK	135	0	20.50	20.58	20.52	21.5	0.0	
50	QPSK	135	68	20.65	20.66	20.63	21.5	0.0	
50	QPSK	135	135	20.61	20.59	20.61	21.5	0.0	
50	QPSK	270	0	20.63	20.65	20.61			
50	16QAM	1	1	20.50	20.57	20.58	21.5	0.0	
50	64QAM	1	1	20.52	20.65	20.59	21.5	0.0	
50	256QAM	1	1	20.59	20.61	20.53	21.5	0.0	
Channel				505000	507000	509000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5050	5055	5060			
40	QPSK	1	1	20.55	20.54	20.56	21.5	0.0	
Channel				507000	509000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5075	5080	5085			
30	QPSK	1	1	20.63	20.52	20.56	21.5	0.0	
Channel				509000	511000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5095	5100	5105			
25	QPSK	1	1	20.52	20.58	20.51	21.5	0.0	
Channel				510000	512000	514000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5105	5110	5115			
20	QPSK	1	1	20.60	20.55	20.60	21.5	0.0	
Channel				511500	513500	515500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5120	5125	5130			
15	QPSK	1	1	20.60	20.54	20.58	21.5	0.0	
Channel				513000	515000	517000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5135	5140	5145			
10	QPSK	1	1	20.57	20.64	20.51	21.5	0.0	
Channel				515000	517000	519000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5155	5160	5165			
5	QPSK	1	1	20.64	20.59	20.55	21.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 505000	Power Middle Ch. F. Freq. 507000	Power High Ch. F. Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)				2525	2535	2545			
50	Pl2 BPSK	1	1	16.20	16.08	16.09	17.5	0.0	
50	Pl2 BPSK	1	135	16.19	16.09	16.05			
50	Pl2 BPSK	1	268	16.07	16.18	16.15			
50	Pl2 BPSK	135	0	16.18	16.09	16.17	17.5	0.0	
50	Pl2 BPSK	135	68	16.12	16.14	16.12	17.5	0.0	
50	Pl2 BPSK	135	135	16.16	16.16	16.16	17.5	0.0	
50	Pl2 BPSK	270	0	16.11	16.09	16.13			
50	QPSK	1	1	16.23	16.25	16.21	17.5	0.0	
50	QPSK	1	135	16.14	16.12	16.17			
50	QPSK	1	268	16.16	16.16	16.15			
50	QPSK	135	0	16.10	16.21	16.18	17.5	0.0	
50	QPSK	135	68	16.21	16.23	16.20	17.5	0.0	
50	QPSK	135	135	16.19	16.09	16.17	17.5	0.0	
50	QPSK	270	0	16.20	16.21	16.18			
50	16QAM	1	1	16.14	16.19	16.13	17.5	0.0	
50	64QAM	1	1	16.09	16.14	16.19	17.5	0.0	
50	256QAM	1	1	16.14	16.12	16.19	17.5	0.0	
Channel				505000	507000	509000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5050	5055	5060			
40	QPSK	1	1	16.18	16.10	16.05	17.5	0.0	
Channel				507000	509000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5075	5080	5085			
30	QPSK	1	1	16.19	16.15	16.07	17.5	0.0	
Channel				509000	511000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5095	5100	5105			
25	QPSK	1	1	16.19	16.09	16.19	17.5	0.0	
Channel				510000	512000	514000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5105	5110	5115			
20	QPSK	1	1	16.12	16.22	16.05	17.5	0.0	
Channel				511500	513500	515500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5120	5125	5130			
15	QPSK	1	1	16.17	16.17	16.16	17.5	0.0	
Channel				513000	515000	517000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5135	5140	5145			
10	QPSK	1	1	16.06	16.19	16.17	17.5	0.0	
Channel				515000	517000	519000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5155	5160	5165			
5	QPSK	1	1	16.07	16.21	16.19	17.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 164800	Power Middle Ch. F. Freq. 166300	Power High Ch. F. Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				824	831.5	839			
Frequency (MHz)				824	831.5	839			
20	Pl2 BPSK	1	1	23.51	23.55	23.49	25.0	0.0	
20	Pl2 BPSK	1	83	23.51	23.55	23.49			
20	Pl2 BPSK	1	164	23.64	23.51	23.48			
20	Pl2 BPSK	50	0	23.13	23.14	23.12	24.5	0.5	
20	Pl2 BPSK	50	28	23.50	23.60	23.53	25.0	0.0	
20	Pl2 BPSK	50	86	23.14	23.06	23.09	24.5	0.5	
20	Pl2 BPSK	100	0	23.03	23.06	23.12			
20	QPSK	1	1	23.65	23.71	23.67	25.0	0.0	
20	QPSK	1	53	23.53	23.62	23.51			
20	QPSK	1	164	23.63	23.66	23.62			
20	QPSK	50	0	22.90	22.93	22.83	24.0	1.0	
20	QPSK	50	28	23.67	23.68	23.65	25.0	0.0	
20	QPSK	50	56	22.83	22.83	22.85	24.0	1.0	
20	QPSK	100	0	22.68	22.70	22.67			
20	16QAM	1	1	22.43	22.45	22.41	24.0	1.0	
20	64QAM	1	1	21.45	21.46	21.43	22.5	2.5	
20	256QAM	1	1	20.53	20.55	20.51	21.5	3.5	
Channel				164800	166300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.65	23.54	23.61	25.0	0.0	
Channel				166300	168300	170300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	831.5	844			
10	QPSK	1	1	23.65	23.64	23.55	25.0	0.0	
Channel				168300	169300	170300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				841.5	841.5	844.5			
5	QPSK	1	1	23.63	23.60	23.60	25.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16400	Power Middle Ch. / Freq. 16600	Power High Ch. / Freq. 16760	Tune-up limit (dBm)	MPR (dB)
Channel				834	831.5	836		
Frequency (MHz)								
20	P12 BPSK	1	1	23.94	23.97	23.92		
20	P12 BPSK	1	13	24.02	24.03	24.00	25.5	0.0
20	P12 BPSK	1	104	24.00	24.02	23.98		
20	P12 BPSK	50	0	23.54	23.56	23.51	25.0	0.5
20	P12 BPSK	50	28	24.03	24.04	23.98	25.5	0.0
20	P12 BPSK	50	56	23.48	23.53	23.45	25.0	0.5
20	P12 BPSK	100	0	23.50	23.54	23.48		
20	QPSK	1	1	24.04	24.08	24.04	25.5	0.0
20	QPSK	1	13	23.98	24.03	23.98		
20	QPSK	1	104	23.98	24.03	23.98		
20	QPSK	50	0	23.05	23.14	23.08	24.5	1.0
20	QPSK	50	28	24.02	24.05	24.02	25.5	0.0
20	QPSK	50	56	23.10	23.14	23.07	24.5	1.0
20	QPSK	100	0	23.05	23.10	23.08	24.5	1.0
20	16QAM	1	1	22.77	22.77	22.75	24.5	1.0
20	64QAM	1	1	21.87	21.87	21.84	23.0	2.5
20	256QAM	1	1	20.88	20.93	20.86	22.0	3.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	841.5		
15	QPSK	1	1	23.94	24.00	23.92	25.5	0.0
Channel				165300	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.94	23.91	23.90	25.5	0.0
Channel				165300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.99	23.93	23.97	25.5	0.0

n66_Ant 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350500	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1760		
Frequency (MHz)								
40	P12 BPSK	1	1	16.89	16.83	16.79		
40	P12 BPSK	1	108	16.81	16.79	16.87	18.3	0.0
40	P12 BPSK	1	214	16.90	16.91	16.87		
40	P12 BPSK	108	0	16.83	16.87	16.80	18.3	0.0
40	P12 BPSK	108	54	16.77	16.83	16.79	18.3	0.0
40	P12 BPSK	108	108	16.90	16.91	16.82	18.3	0.0
40	P12 BPSK	216	0	16.77	16.85	16.86		
40	QPSK	1	1	16.93	16.95	16.91		
40	QPSK	1	108	16.90	16.84	16.80	18.3	0.0
40	QPSK	1	214	16.82	16.91	16.81		
40	QPSK	108	0	16.89	16.85	16.81	18.3	0.0
40	QPSK	108	54	16.91	16.93	16.90	18.3	0.0
40	QPSK	108	108	16.77	16.89	16.88	18.3	0.0
40	QPSK	216	0	16.85	16.91	16.89	18.3	0.0
40	16QAM	1	1	16.76	16.81	16.79	18.3	0.0
40	64QAM	1	1	16.84	16.84	16.87	18.3	0.0
40	256QAM	1	1	16.86	16.86	16.85	18.3	0.0
Channel				345000	349000	350500		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.66	16.78	16.83	18.3	0.0
Channel				344000	349000	350500		
Frequency (MHz)				1725	1745	1765		
25	QPSK	1	1	16.69	16.68	16.69	18.3	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1725	1745	1770		
20	QPSK	1	1	16.85	16.91	16.76	18.3	0.0
Channel				343000	349000	354000		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.90	16.82	16.85	18.3	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.81	16.87	16.77	18.3	0.0
Channel				342500	349000	355000		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.85	16.91	16.76	18.3	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 350500	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1760		
Frequency (MHz)								
40	P12 BPSK	1	1	20.15	20.22	20.06		
40	P12 BPSK	1	108	20.10	20.10	20.11	21.3	0.0
40	P12 BPSK	1	214	20.08	20.18	20.12		
40	P12 BPSK	108	0	20.18	20.21	20.10	21.3	0.0
40	P12 BPSK	108	54	20.19	20.13	20.17	21.3	0.0
40	P12 BPSK	108	108	20.10	20.19	20.11	21.3	0.0
40	P12 BPSK	216	0	20.16	20.09	20.12		
40	QPSK	1	1	20.23	20.25	20.21	21.3	0.0
40	QPSK	1	108	20.19	20.19	20.09		
40	QPSK	1	214	20.13	20.11	20.10		
40	QPSK	108	0	20.17	20.22	20.07	21.3	0.0
40	QPSK	108	54	20.21	20.23	20.20	21.3	0.0
40	QPSK	108	108	20.11	20.11	20.11	21.3	0.0
40	QPSK	216	0	20.20	20.21	20.18		
40	16QAM	1	1	20.19	20.21	20.19	21.3	0.0
40	64QAM	1	1	20.07	20.09	20.11	21.3	0.0
40	256QAM	1	1	20.07	20.19	20.09	21.3	0.0
Channel				345000	349000	350500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.11	20.17	20.10	21.3	0.0
Channel				344000	349000	350500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1770		
25	QPSK	1	1	20.11	20.16	20.15	21.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.16	20.16	20.09	21.3	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.10	20.14	20.15	21.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.11	20.18	20.13	21.3	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.15	20.08	20.05	21.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq 346000	Power Middle Ch. Freq 349000	Power High Ch. Freq 350000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760	20.8	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.51	19.58	19.54		
40	PI2 BPSK	1	108	19.50	19.55	19.51	20.8	0.0
40	PI2 BPSK	1	214	19.52	19.56	19.57		
40	PI2 BPSK	108	0	19.46	19.57	19.47		
40	PI2 BPSK	108	54	19.51	19.61	19.55	20.8	0.0
40	PI2 BPSK	108	108	19.47	19.53	19.48		
40	PI2 BPSK	216	0	19.46	19.54	19.57		
40	QPSK	1	1	19.63	19.65	19.61	20.8	0.0
40	QPSK	1	108	19.53	19.59	19.57		
40	QPSK	1	214	19.46	19.62	19.47		
40	QPSK	108	0	19.47	19.50	19.58	20.8	0.0
40	QPSK	108	54	19.61	19.63	19.60		
40	QPSK	108	108	19.55	19.56	19.48		
40	QPSK	216	0	19.60	19.61	19.58	20.8	0.0
40	16QAM	1	1	19.52	19.55	19.51		
40	64QAM	1	1	19.53	19.59	19.54		
40	256QAM	1	1	19.60	19.54	19.48	20.8	0.0
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	20.8	0.0
30	QPSK	1	1	19.51	19.53	19.51		
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1760	20.8	0.0
25	QPSK	1	1	19.48	19.59	19.50		
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1718	1745	1773	20.8	0.0
20	QPSK	1	1	19.50	19.62	19.56		
Channel				343600	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	20.8	0.0
15	QPSK	1	1	19.52	19.49	19.47		
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	20.8	0.0
10	QPSK	1	1	19.55	19.50	19.48		
Channel				342500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	20.8	0.0
5	QPSK	1	1	19.59	19.60	19.46		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 519004	Power Middle Ch. / Freq 519000	Power High Ch. / Freq 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	14.53	14.62	14.52	16.3	0.0	
40	Pl2 BPSK	1	53	14.45	14.53	14.31			
40	Pl2 BPSK	1	104	14.40	14.44	14.43			
40	Pl2 BPSK	50	0	14.38	14.41	14.34	16.3	0.0	
40	Pl2 BPSK	50	28	14.41	14.44	14.44	16.3	0.0	
40	Pl2 BPSK	50	56	14.32	14.35	14.37	16.3	0.0	
40	Pl2 BPSK	100	0	14.41	14.34	14.31	16.3	0.0	
40	QPSK	1	1	14.64	14.66	14.61			
40	QPSK	1	53	14.59	14.62	14.46			
40	QPSK	1	104	14.50	14.52	14.51	16.3	0.0	
40	QPSK	50	0	14.42	14.49	14.39	16.3	0.0	
40	QPSK	50	28	14.53	14.57	14.53	16.3	0.0	
40	QPSK	50	56	14.45	14.48	14.47	16.3	0.0	
40	QPSK	100	0	14.46	14.42	14.40	16.3	0.0	
40	16QAM	1	1	14.54	14.53	14.53	16.3	0.0	
40	64QAM	1	1	14.52	14.52	14.51	16.3	0.0	
40	256QAM	1	1	14.51	14.61	14.52	16.3	0.0	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
Channel				2595.01	2595	2604.99			
30	QPSK	1	1	14.57	14.56	14.55	16.3	0.0	
Channel									
Frequency (MHz)				2592.5	2595	2607.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	14.51	14.60	14.50	16.3	0.0	
Channel									
Frequency (MHz)				5190.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.54	14.58	14.56	16.3	0.0	
Channel									
Frequency (MHz)				5195.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.55	14.56	14.54	16.3	0.0	
Channel									
Frequency (MHz)				5190.04	5190.00	5229.96	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.50	14.52	14.56	16.3	0.0	

n38_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 516004	Power Middle Ch. / Freq 516000	Power High Ch. / Freq 516996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	20.39	20.52	20.37	21.7	0.0	
40	Pl2 BPSK	1	53	20.41	20.47	20.38			
40	Pl2 BPSK	1	104	20.47	20.41	20.44			
40	Pl2 BPSK	50	0	20.37	20.52	20.46	21.7	0.0	
40	Pl2 BPSK	50	28	20.45	20.38	20.40	21.7	0.0	
40	Pl2 BPSK	50	56	20.48	20.52	20.42	21.7	0.0	
40	Pl2 BPSK	100	0	20.46	20.48	20.35	21.7	0.0	
40	QPSK	1	1	20.53	20.55	20.51			
40	QPSK	1	53	20.46	20.45	20.36			
40	QPSK	1	104	20.41	20.42	20.45	21.7	0.0	
40	QPSK	50	0	20.47	20.47	20.44	21.7	0.0	
40	QPSK	50	28	20.51	20.53	20.50	21.7	0.0	
40	QPSK	50	56	20.43	20.46	20.45	21.7	0.0	
40	QPSK	100	0	20.50	20.51	20.48	21.7	0.0	
40	16QAM	1	1	20.36	20.41	20.36	21.7	0.0	
40	64QAM	1	1	20.44	20.40	20.40	21.7	0.0	
40	256QAM	1	1	20.41	20.40	20.38	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.41	20.43	21.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.49	20.45	20.41	21.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.45	20.38	20.42	21.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.42	20.42	20.41	21.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.39	20.39	20.37	21.7	0.0	

n38_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				5190.02	5195.00	5199.98			
40	Pl2 BPSK	1	1	14.31	14.35	14.32	16.2	0.0	
40	Pl2 BPSK	1	53	14.29	14.28	14.20			
40	Pl2 BPSK	1	104	14.24	14.39	14.24			
40	Pl2 BPSK	50	0	14.24	14.21	14.21	16.2	0.0	
40	Pl2 BPSK	50	28	14.23	14.25	14.26	16.2	0.0	
40	Pl2 BPSK	50	56	14.26	14.25	14.25	16.2	0.0	
40	Pl2 BPSK	100	0	14.28	14.20	14.26	16.2	0.0	
40	QPSK	1	1	14.38	14.45	14.30	16.2	0.0	
40	QPSK	1	53	14.33	14.53	14.29			
40	QPSK	1	104	14.32	14.40	14.24			
40	QPSK	50	0	14.33	14.33	14.26	16.2	0.0	
40	QPSK	50	28	14.34	14.36	14.25	16.2	0.0	
40	QPSK	50	56	14.26	14.28	14.20	16.2	0.0	
40	QPSK	100	0	14.28	14.30	14.28	16.2	0.0	
40	16QAM	1	1	14.30	14.40	14.32	16.2	0.0	
40	64QAM	1	1	14.25	14.34	14.28	16.2	0.0	
40	256QAM	1	1	14.26	14.39	14.29	16.2	0.0	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
30	QPSK	1	1	14.26	14.31	14.32	16.2	0.0	
Channel									
Frequency (MHz)				2592.5	2595	2607.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	14.31	14.31	14.25	16.2	0.0	
Channel									
Frequency (MHz)				5190.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.24	14.32	14.26	16.2	0.0	
Channel									
Frequency (MHz)				5195.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.33	14.37	14.29	16.2	0.0	
Channel									
Frequency (MHz)				5190.04	5190.00	5229.96	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.27	14.34	14.25	16.2	0.0	

n41_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PQ2 BPSK	1	1	2546.01	2592.99	2640				
100	PQ2 BPSK	1	1	15.75	15.70	15.70				
100	PQ2 BPSK	1	137	15.56	15.64	15.62	17.0	0.0		
100	PQ2 BPSK	1	271	15.54	15.60	15.60				
100	PQ2 BPSK	135	0	15.53	15.50	15.46	17.0	0.0		
100	PQ2 BPSK	135	69	15.54	15.70	15.56	17.0	0.0		
100	PQ2 BPSK	135	135	15.53	15.65	15.56				
100	PQ2 BPSK	270	0	15.49	15.61	15.44	17.0	0.0		
100	QPSK	1	1	15.80	15.82	15.79				
100	QPSK	1	137	15.66	15.71	15.72	17.0	0.0		
100	QPSK	1	271	15.66	15.72	15.66				
100	QPSK	135	0	15.61	15.60	15.57	17.0	0.0		
100	QPSK	135	69	15.67	15.75	15.65	17.0	0.0		
100	QPSK	135	135	15.61	15.68	15.60				
100	QPSK	270	0	15.52	15.65	15.51	17.0	0.0		
100	16QAM	1	1	15.65	15.70	15.73	17.0	0.0		
100	64QAM	1	1	15.71	15.71	15.71	17.0	0.0		
100	256QAM	1	1	15.73	15.68	15.68	17.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.65	15.68	15.72	17.0	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.70204	15.69896	15.69998	Tune-up limit (dBm)	MPR (dB)		
								2536.02	2592.99	2649.99
80	QPSK	1	1	15.71	15.70	15.69	17.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.66200	15.69800	15.70100	Tune-up limit (dBm)	MPR (dB)		
								2526	2592.99	2609.98
60	QPSK	1	1	15.66	15.70	15.65	17.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.63002	15.69896	15.70400	Tune-up limit (dBm)	MPR (dB)		
								2520.01	2592.99	2604.99
50	QPSK	1	1	15.66	15.67	15.73	17.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.60020	15.69896	15.69896	Tune-up limit (dBm)	MPR (dB)		
								2511	2592.99	2574.98
40	QPSK	1	1	15.75	15.70	15.70	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.61204	15.69896	15.69896	Tune-up limit (dBm)	MPR (dB)		
								2406.02	2592.99	2579.99
30	QPSK	1	1	15.71	15.75	15.72	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.69002	15.69896	15.69896	Tune-up limit (dBm)	MPR (dB)		
								2404.01	2592.99	2584.99
20	QPSK	1	1	15.69	15.72	15.70	17.0	0.0		

n41_HPUE_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq	Power Ch. / Freq	Power Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	2546.01	2592.99	2640			
100	PQ2 BPSK	1	137	15.75	15.70	15.70			
100	PQ2 BPSK	1	271	15.56	15.64	15.62	17.0	0.0	
100	PQ2 BPSK	135	0	15.53	15.50	15.46	17.0	0.0	
100	PQ2 BPSK	135	69	15.54	15.70	15.56	17.0	0.0	
100	PQ2 BPSK	135	135	15.53	15.65	15.56	17.0	0.0	
100	PQ2 BPSK	270	0	15.49	15.61	15.44	17.0	0.0	
100	QPSK	1	1	15.80	15.82	15.79			
100	QPSK	1	137	15.68	15.71	15.72	17.0	0.0	
100	QPSK	1	271	15.66	15.72	15.66			
100	QPSK	135	0	15.61	15.60	15.57	17.0	0.0	
100	QPSK	135	69	15.67	15.75	15.65	17.0	0.0	
100	QPSK	135	135	15.61	15.66	15.60			
100	QPSK	270	0	15.52	15.66	15.51	17.0	0.0	
100	16QAM	1	1	15.65	15.70	15.73	17.0	0.0	
100	64QAM	1	1	15.71	15.71	15.71	17.0	0.0	
100	256QAM	1	1	15.73	15.68	15.68	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.65	15.68	15.72	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.71	15.70	15.69	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.66	15.70	15.65	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.66	15.67	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.66	15.69	15.69	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.71	15.70	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.71	15.75	15.72	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.74	15.77	15.67	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.69	15.72	15.70	17.0	0.0	

n41_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	2546.01	2592.99	2640			
100	PQ2 BPSK	1	137	20.80	20.78	20.65			
100	PQ2 BPSK	1	271	20.71	20.76	20.71	21.7	0.0	
100	PQ2 BPSK	135	0	20.76	20.81	20.72	21.7	0.0	
100	PQ2 BPSK	135	69	20.67	20.78	20.67	21.7	0.0	
100	PQ2 BPSK	135	135	20.75	20.80	20.67		21.7	0.0
100	PQ2 BPSK	270	0	20.69	20.81	20.67			
100	QPSK	1	1	20.83	20.85	20.81			
100	QPSK	1	137	20.74	20.73	20.79	21.7	0.0	
100	QPSK	1	271	20.86	20.72	20.89			
100	QPSK	135	0	20.67	20.71	20.76	21.7	0.0	
100	QPSK	135	69	20.81	20.83	20.80	21.7	0.0	
100	QPSK	135	135	20.66	20.68	20.78			
100	QPSK	270	0	20.80	20.81	20.78	21.7	0.0	
100	16QAM	1	1	20.77	20.70	20.71	21.7	0.0	
100	64QAM	1	1	20.77	20.68	20.74	21.7	0.0	
100	256QAM	1	1	20.68	20.79	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.79	20.74	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.67	20.73	20.68	21.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.68	20.77	20.71	21.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.69	20.88	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.89	20.81	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.70	20.11	20.79	21.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.69	20.75	20.77	21.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.52	20.92	20.89	21.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.66	20.77	20.68	21.7	0.0	

n41_HPUE_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	20.80	20.78	20.65		21.7	0.0
100	P12 BPSK	1	137	20.71	20.75	20.71			
100	P12 BPSK	1	271	20.75	20.68	20.74			
100	P12 BPSK	135	0	20.76	20.81	20.72	21.7	0.0	
100	P12 BPSK	135	69	20.67	20.78	20.67	21.7	0.0	
100	P12 BPSK	135	135	20.76	20.80	20.67	21.7	0.0	
100	P12 BPSK	270	0	20.69	20.81	20.67			
100	QPSK	1	1	20.83	20.85	20.81		21.7	0.0
100	QPSK	1	137	20.74	20.73	20.79			
100	QPSK	1	271	20.68	20.72	20.69			
100	QPSK	135	0	20.67	20.71	20.78	21.7	0.0	
100	QPSK	135	69	20.81	20.83	20.80	21.7	0.0	
100	QPSK	135	135	20.66	20.68	20.78	21.7	0.0	
100	QPSK	270	0	20.80	20.81	20.78			
100	16QAM	1	1	20.77	20.70	20.71	21.7	0.0	
100	64QAM	1	1	20.77	20.68	20.74	21.7	0.0	
100	256QAM	1	1	20.66	20.70	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.79	20.74	20.72	21.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.67	20.73	20.66	21.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.66	20.77	20.71	21.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.69	20.68	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.80	20.81	20.69	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.70	20.71	20.79	21.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.69	20.75	20.77	21.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.72	20.70	20.78	21.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.66	20.77	20.69	21.7	0.0	

n41_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	50.002	2592.99	53.000	26.68		
100	P12 BPSK	1	137	14.77	14.69	14.80			
100	P12 BPSK	1	271	14.70	14.66	14.61	16.2	0.0	
100	P12 BPSK	135	0	14.71	14.67	14.53	16.2	0.0	
100	P12 BPSK	135	69	14.56	14.64	14.68	16.2	0.0	
100	P12 BPSK	135	135	14.51	14.54	14.53	16.2	0.0	
100	P12 BPSK	270	0	14.48	14.60	14.46			
100	QPSK	1	1	50.001	2592.99	53.000	26.68		
100	QPSK	1	137	14.70	14.75	14.69	16.2	0.0	
100	QPSK	1	271	14.62	14.76	14.75			
100	QPSK	135	0	14.53	14.69	14.68	16.2	0.0	
100	QPSK	135	69	14.66	14.76	14.73	16.2	0.0	
100	QPSK	135	135	14.59	14.64	14.58	16.2	0.0	
100	QPSK	270	0	14.51	14.68	14.58			
100	16QAM	1	1	14.70	14.72	14.66	16.2	0.0	
100	64QAM	1	1	14.68	14.79	14.68	16.2	0.0	
100	256QAM	1	1	14.68	14.75	14.72	16.2	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
80	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
60	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
50	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
40	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
30	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
20	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
15	QPSK	1	1	50.004	2593.00	53.000	26.68		
Channel									
Frequency (MHz)									
10	QPSK	1	1	50.004	2593.00	53.000	26.68		

n41_HPUE_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	14.77	14.69	14.80		16.2	0.0
100	P12 BPSK	1	137	14.70	14.66	14.61			
100	P12 BPSK	1	271	14.50	14.74	14.74			
100	P12 BPSK	135	0	14.43	14.67	14.53	16.2	0.0	
100	P12 BPSK	135	69	14.56	14.64	14.68	16.2	0.0	
100	P12 BPSK	135	135	14.51	14.54	14.53	16.2	0.0	
100	P12 BPSK	270	0	14.48	14.60	14.46			
100	QPSK	1	1	14.77	14.64	14.81		16.2	0.0
100	QPSK	1	137	14.70	14.75	14.69			
100	QPSK	1	271	14.62	14.76	14.75			
100	QPSK	135	0	14.53	14.69	14.68	16.2	0.0	
100	QPSK	135	69	14.66	14.76	14.73	16.2	0.0	
100	QPSK	135	135	14.59	14.64	14.58	16.2	0.0	
100	QPSK	270	0	14.51	14.68	14.58			
100	16QAM	1	1	14.70	14.72	14.66	16.2	0.0	
100	64QAM	1	1	14.68	14.79	14.68	16.2	0.0	
100	256QAM	1	1	14.68	14.75	14.72	16.2	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.68	14.75	14.75	16.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.72	14.79	14.71	16.2	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.64	14.79	14.72	16.2	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.72	14.75	14.66	16.2	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.62	14.77	14.73	16.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.70	14.78	14.67	16.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.68	14.74	14.73	16.2	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.65	14.79	14.70	16.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.62	14.72	14.70	16.2	0.0	

Part270_n77_Ant_12									
Ref [MHz]	Modulation	File Size	File Offset	Low [Hex]	High [Hex]	High [Hex]	Channel range [MHz]	MPX [dB]	
100	QPSK	Channel		10.74	10.80	10.75			
100	QPSK	Channel	1	10.74	10.71	10.68	10.0	0.0	
100	QPSK	Channel	2	10.74	10.63	10.52	10.0	0.0	
100	QPSK	Channel	3	10.74	10.52	10.41	10.0	0.0	
100	QPSK	Channel	4	10.74	10.41	10.30	10.0	0.0	
100	QPSK	Channel	5	10.74	10.30	10.19	10.0	0.0	
100	QPSK	Channel	6	10.74	10.19	10.08	10.0	0.0	
100	QPSK	Channel	7	10.74	10.08	9.97	10.0	0.0	
100	QPSK	Channel	8	10.74	9.97	9.86	10.0	0.0	
100	QPSK	Channel	9	10.74	9.86	9.75	10.0	0.0	
100	QPSK	Channel	10	10.74	9.75	9.64	10.0	0.0	
100	QPSK	Channel	11	10.74	9.64	9.53	10.0	0.0	
100	QPSK	Channel	12	10.74	9.53	9.42	10.0	0.0	
100	QPSK	Channel	13	10.74	9.42	9.31	10.0	0.0	
100	QPSK	Channel	14	10.74	9.31	9.20	10.0	0.0	
100	QPSK	Channel	15	10.74	9.20	9.09	10.0	0.0	
100	QPSK	Channel	16	10.74	9.09	8.98	10.0	0.0	
100	QPSK	Channel	17	10.74	8.98	8.87	10.0	0.0	
100	QPSK	Channel	18	10.74	8.87	8.76	10.0	0.0	
100	QPSK	Channel	19	10.74	8.76	8.65	10.0	0.0	
100	QPSK	Channel	20	10.74	8.65	8.54	10.0	0.0	
100	QPSK	Channel	21	10.74	8.54	8.43	10.0	0.0	
100	QPSK	Channel	22	10.74	8.43	8.32	10.0	0.0	
100	QPSK	Channel	23	10.74	8.32	8.21	10.0	0.0	
100	QPSK	Channel	24	10.74	8.21	8.10	10.0	0.0	
100	QPSK	Channel	25	10.74	8.10	7.99	10.0	0.0	
100	QPSK	Channel	26	10.74	7.99	7.88	10.0	0.0	
100	QPSK	Channel	27	10.74	7.88	7.77	10.0	0.0	
100	QPSK	Channel	28	10.74	7.77	7.66	10.0	0.0	
100	QPSK	Channel	29	10.74	7.66	7.55	10.0	0.0	
100	QPSK	Channel	30	10.74	7.55	7.44	10.0	0.0	
100	QPSK	Channel	31	10.74	7.44	7.33	10.0	0.0	
100	QPSK	Channel	32	10.74	7.33	7.22	10.0	0.0	
100	QPSK	Channel	33	10.74	7.22	7.11	10.0	0.0	
100	QPSK	Channel	34	10.74	7.11	7.00	10.0	0.0	
100	QPSK	Channel	35	10.74	7.00	6.89	10.0	0.0	
100	QPSK	Channel	36	10.74	6.89	6.78	10.0	0.0	
100	QPSK	Channel	37	10.74	6.78	6.67	10.0	0.0	
100	QPSK	Channel	38	10.74	6.67	6.56	10.0	0.0	
100	QPSK	Channel	39	10.74	6.56	6.45	10.0	0.0	
100	QPSK	Channel	40	10.74	6.45	6.34	10.0	0.0	
100	QPSK	Channel	41	10.74	6.34	6.23	10.0	0.0	
100	QPSK	Channel	42	10.74	6.23	6.12	10.0	0.0	
100	QPSK	Channel	43	10.74	6.12	6.01	10.0	0.0	
100	QPSK	Channel	44	10.74	6.01	5.90	10.0	0.0	
100	QPSK	Channel	45	10.74	5.90	5.79	10.0	0.0	
100	QPSK	Channel	46	10.74	5.79	5.68	10.0	0.0	
100	QPSK	Channel	47	10.74	5.68	5.57	10.0	0.0	
100	QPSK	Channel	48	10.74	5.57	5.46	10.0	0.0	
100	QPSK	Channel	49	10.74	5.46	5.35	10.0	0.0	
100	QPSK	Channel	50	10.74	5.35	5.24	10.0	0.0	
100	QPSK	Channel	51	10.74	5.24	5.13	10.0	0.0	
100	QPSK	Channel	52	10.74	5.13	5.02	10.0	0.0	
100	QPSK	Channel	53	10.74	5.02	4.91	10.0	0.0	
100	QPSK	Channel	54	10.74	4.91	4.80	10.0	0.0	
100	QPSK	Channel	55	10.74	4.80	4.69	10.0	0.0	
100	QPSK	Channel	56	10.74	4.69	4.58	10.0	0.0	
100	QPSK	Channel	57	10.74	4.58	4.47	10.0	0.0	
100	QPSK	Channel	58	10.74	4.47	4.36	10.0	0.0	
100	QPSK	Channel	59	10.74	4.36	4.25	10.0	0.0	
100	QPSK	Channel	60	10.74	4.25	4.14	10.0	0.0	
100	QPSK	Channel	61	10.74	4.14	4.03	10.0	0.0	
100	QPSK	Channel	62	10.74	4.03	3.92	10.0	0.0	
100	QPSK	Channel	63	10.74	3.92	3.81	10.0	0.0	
100	QPSK	Channel	64	10.74	3.81	3.70	10.0	0.0	
100	QPSK	Channel	65	10.74	3.70	3.59	10.0	0.0	
100	QPSK	Channel	66	10.74	3.59	3.48	10.0	0.0	
100	QPSK	Channel	67	10.74	3.48	3.37	10.0	0.0	
100	QPSK	Channel	68	10.74	3.37	3.26	10.0	0.0	
100	QPSK	Channel	69	10.74	3.26	3.15	10.0	0.0	
100	QPSK	Channel	70	10.74	3.15	3.04	10.0	0.0	
100	QPSK	Channel	71	10.74	3.04	2.93	10.0	0.0	
100	QPSK	Channel	72	10.74	2.93	2.82	10.0	0.0	
100	QPSK	Channel	73	10.74	2.82	2.71	10.0	0.0	
100	QPSK	Channel	74	10.74	2.71	2.60	10.0	0.0	
100	QPSK	Channel	75	10.74	2.60	2.49	10.0	0.0	
100	QPSK	Channel	76	10.74	2.49	2.38	10.0	0.0	
100	QPSK	Channel	77	10.74	2.38	2.27	10.0	0.0	
100	QPSK	Channel	78	10.74	2.27	2.16	10.0	0.0	
100	QPSK	Channel	79	10.74	2.16	2.05	10.0	0.0	
100	QPSK	Channel	80	10.74	2.05	1.94	10.0	0.0	
100	QPSK	Channel	81	10.74	1.94	1.83	10.0	0.0	
100	QPSK	Channel	82	10.74	1.83	1.72	10.0	0.0	
100	QPSK	Channel	83	10.74	1.72	1.61	10.0	0.0	
100	QPSK	Channel	84	10.74	1.61	1.50	10.0	0.0	
100	QPSK	Channel	85	10.74	1.50	1.39	10.0	0.0	
100	QPSK	Channel	86	10.74	1.39	1.28	10.0	0.0	
100	QPSK	Channel	87	10.74	1.28	1.17	10.0	0.0	
100	QPSK	Channel	88	10.74	1.17	1.06	10.0	0.0	
100	QPSK	Channel	89	10.74	1.06	0.95	10.0	0.0	
100	QPSK	Channel	90	10.74	0.95	0.84	10.0	0.0	
100	QPSK	Channel	91	10.74	0.84	0.73	10.0	0.0	
100	QPSK	Channel	92	10.74	0.73	0.62	10.0	0.0	
100	QPSK	Channel	93	10.74	0.62	0.51	10.0	0.0	
100	QPSK	Channel	94	10.74	0.51	0.40	10.0	0.0	
100	QPSK	Channel	95	10.74	0.40	0.29	10.0	0.0	
100	QPSK	Channel	96	10.74	0.29	0.18	10.0	0.0	
100	QPSK	Channel	97	10.74	0.18	0.07	10.0	0.0	
100	QPSK	Channel	98	10.74	0.07	0.00	10.0	0.0	
100	QPSK	Channel	99	10.74	0.00	0.00	10.0	0.0	
100	QPSK	Channel	100	10.74	0.00	0.00	10.0	0.0	

Part27Q_n77_Ant 21									
Ref (MHz)	Modulation	RB Size	RB Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Time-up time (sec)	MPK (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	11.84					
100	PL2 BPSK	1	137	11.82					
100	PL2 BPSK	1	271	11.81					
100	PL2 BPSK	135	0	11.80					
100	PL2 BPSK	135	69	11.83					
100	PL2 BPSK	135	135	11.83					
100	PL2 BPSK	270	0	11.80					
100	QPSK	1	1	11.77					
100	QPSK	1	137	11.80					
100	QPSK	1	271	11.81					
100	QPSK	135	0	11.81					
100	QPSK	135	69	11.77					
100	QPSK	135	135	11.77					
100	QPSK	270	0	11.84					
100	16QAM	1	1	11.80					
100	16QAM	1	1	11.81					
100	256QAM	1	1	11.71					
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.60	11.60	11.60			
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.60	11.60	11.60			
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.62	11.68	11.68			
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.63	11.71	11.65			
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.62	11.72	11.67			
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.58	11.63	11.61			
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.62	11.68	11.67			
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.67	11.70	11.68			
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.68	11.69	11.70			
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.64	11.64	11.69			
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.66	11.68	11.69			

Part27Q_n77_Ant 21									
Ref (MHz)	Modulation	RB Size	RB Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Time-up time (sec)	MPK (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	11.81	11.81	11.81			
100	PL2 BPSK	1	137	11.38	11.39	11.40			
100	PL2 BPSK	1	271	11.40	11.41	11.34			
100	PL2 BPSK	135	0	11.32	11.40	11.34			
100	PL2 BPSK	135	69	11.34	11.60	11.32			
100	PL2 BPSK	135	135	11.30	11.30	11.30			
100	PL2 BPSK	270	0	11.32	11.40	11.27			
100	QPSK	1	1	11.42	11.50	11.44			
100	QPSK	1	137	11.42	11.53	11.47			
100	QPSK	135	0	11.38	11.40	11.34			
100	QPSK	135	69	11.30	11.50	11.34			
100	QPSK	135	135	11.34	11.40	11.30			
100	QPSK	270	0	11.38	11.40	11.34			
100	16QAM	1	1	11.40	11.51	11.40			
100	16QAM	1	1	11.35	11.35	11.40			
100	256QAM	1	1	11.52	11.56	11.48			
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.61	11.61	11.61			
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.61	11.61	11.61			
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.45	11.50	11.48			
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.45	11.56	11.48			
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.42	11.52	11.47			
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.42	11.57	11.48			
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.49	11.57	11.41			
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.49	11.49	11.41			
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.43	11.54	11.41			
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.52	11.50	11.42			

Part27Q_n77_Ant 23									
Ref (MHz)	Modulation	RB Size	RB Offset	Low Power Level P ₁ (dBm)	Mid Power Margin P ₂ (dBm)	High Power Margin P ₃ (dBm)	Time-up time (sec)	MPK (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	12.40					
100	PL2 BPSK	1	137	12.43			15.5		
100	PL2 BPSK	1	271	12.33					
100	PL2 BPSK	135	0	12.42			15.5	0.0	
100	PL2 BPSK	135	69	12.34					
100	PL2 BPSK	135	135	12.40			15.5	0.0	
100	PL2 BPSK	270	0	12.40					
100	QPSK	1	1	12.39					
100	QPSK	1	137	12.34			15.5	0.0	
100	QPSK	1	271	12.40					
100	QPSK	135	0	12.33					
100	QPSK	135	69	12.40			15.5	0.0	
100	QPSK	135	135	12.40					
100	QPSK	270	0	12.41			15.5	0.0	
100	16QAM	1	1	12.40					
100	16QAM	1	1	12.39			15.5	0.0	
100	256QAM	1	1	12.46			15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.40	12.40	12.40			
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.34	12.42	12.41			
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.38	12.39	12.37			
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.37	12.36	12.36			
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.41	12.39	12.40			
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.34	12.44	12.36			
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.40	12.40	12.43	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	12.43	12.39	12.38			
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.40	12.40	12.46	15.5	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	12.37	12.36	12.36	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.41	12.45	12.40	15.5	0.0	

Part270_n77_Ant 23									
Ref Band	Modulation	RB Size	RB Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Time-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	12.30	12.30	12.30			
100	PI2 BPSK	1	137	12.29	12.30	12.31	13.5	0.0	
100	PI2 BPSK	1	271	12.30	12.29	12.30			
100	PI2 BPSK	155	0	12.30	12.31	12.29	13.5	0.0	
100	PI2 BPSK	155	69	12.22	12.29	12.31	13.5	0.0	
100	PI2 BPSK	155	135	12.30	12.31	12.29			
100	PI2 BPSK	270	0	12.31	12.32	12.34	13.5	0.0	
100	QPSK	1	1	12.30	12.30	12.30			
100	QPSK	1	137	12.30	12.29	12.31	13.5	0.0	
100	QPSK	1	271	12.34	12.33	12.31			
100	QPSK	155	0	12.31	12.30	12.30	13.5	0.0	
100	QPSK	155	69	12.27	12.30	12.30			
100	QPSK	155	135	12.34	12.31	12.29			
100	QPSK	270	0	12.35	12.30	12.30	13.5	0.0	
100	16QAM	1	1	12.30	12.30	12.31	13.5	0.0	
100	16QAM	1	1	12.30	12.31	12.30	13.5	0.0	
100	256QAM	1	1	12.30	12.29	12.29	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.26	12.26	12.26	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.30	12.30	12.30	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.22	12.30	12.27	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.14	12.33	12.28	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.12	12.30	12.23	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.10	12.34	12.27	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.30	12.29	12.24	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.10	12.30	12.20	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.10	12.30	12.20	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.28	12.30	12.29	13.5	0.0	

Part27Q_n78_Ant 11									
Ref Band	Modulation	RB Size	RB Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Time-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.60					
100	PI2 BPSK	1	137	14.60			15.7	0.0	
100	PI2 BPSK	1	271	14.59					
100	PI2 BPSK	155	0	14.60			15.7	0.0	
100	PI2 BPSK	155	69	14.61			15.7	0.0	
100	PI2 BPSK	155	135	14.60			15.7	0.0	
100	PI2 BPSK	270	0	14.60			15.7	0.0	
100	QPSK	1	1	14.59					
100	QPSK	1	137	14.59			15.7	0.0	
100	QPSK	1	271	14.60					
100	QPSK	155	0	14.61			15.7	0.0	
100	QPSK	155	69	14.62			15.7	0.0	
100	QPSK	155	135	14.60			15.7	0.0	
100	QPSK	270	0	14.60			15.7	0.0	
100	16QAM	1	1	14.60			15.7	0.0	
100	16QAM	1	1	14.60			15.7	0.0	
100	256QAM	1	1	14.60			15.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.61	14.61	14.60	15.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.60	14.60	14.59	15.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.58	14.59	14.54	15.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.61	14.60	14.56	15.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.60	14.59	14.57	15.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.59	14.59	14.58	15.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.59	14.71	14.51	15.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.59	14.60	14.54	15.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.59	14.71	14.50	15.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.58	14.61	14.50	15.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.55	14.60	14.50	15.7	0.0	

Part27Q_n78_HPUE_Ant 11									
Ref Band	Modulation	RB Size	RB Offset	Low Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Time-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.60					
100	PI2 BPSK	1	137	14.60			15.7		
100	PI2 BPSK	1	271	14.59					
100	PI2 BPSK	155	0	14.60			15.7	0.0	
100	PI2 BPSK	155	69	14.61			15.7	0.0	
100	PI2 BPSK	155	135	14.60			15.7	0.0	
100	PI2 BPSK	270	0	14.60			15.7	0.0	
100	QPSK	1	1	14.59					
100	QPSK	1	137	14.59			15.7	0.0	
100	QPSK	1	271	14.60					
100	QPSK	155	0	14.61			15.7	0.0	
100	QPSK	155	69	14.62			15.7	0.0	
100	QPSK	155	135	14.60			15.7	0.0	
100	QPSK	270	0	14.60			15.7	0.0	
100	16QAM	1	1	14.60			15.7	0.0	
100	256QAM	1	1	14.60			15.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.61	14.61	14.60	15.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.60	14.60	14.59	15.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.58	14.59	14.54	15.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.61	14.60	14.56	15.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.60	14.59	14.55	15.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.57	14.58	14.53	15.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.59	14.59	14.54	15.7	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.60	14.60	14.54	15.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.60	14.59	14.51	15.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.60	14.59	14.45	15.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.61	14.59	14.50	15.7	0.0	

[illegible]

Part270_n78_Ant 12							
SW (MHz)	Modulation	RF Size	RF Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Turn-up time (min)
Channel							
Frequency (MHz)							
100	PLC BPSK	1	1	17.86			
100	PLC BPSK	1	137	18.08			19.5
100	PLC BPSK	1	271	18.02			
100	PLC BPSK	135	5	18.03			19.5
100	PLC BPSK	135	89	17.98			19.5
100	PLC BPSK	135	138	17.98			19.5
100	PLC BPSK	270	5	17.94			19.5
100	QPSK	1	1	18.11			
100	QPSK	1	137	18.08			19.5
100	QPSK	1	271	18.02			
100	QPSK	135	5	18.03			19.5
100	QPSK	135	89	18.04			19.5
100	QPSK	135	138	17.97			19.5
100	QPSK	270	5	18.02			19.5
100	16QAM	1	1	17.98			19.5
100	16QAM	1	1	17.95			19.5
100	256QAM	1	1	17.99			19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.62	17.62	17.62	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.91	18.04	18.09	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.66	18.02	17.66	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.62	18.02	17.62	19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.68	17.68	17.68	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.62	18.02	18.09	19.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.63	18.04	18.09	19.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.62	17.68	18.02	19.5

Part270_n78_HPUE_Ant 12							
SW (MHz)	Modulation	RF Size	RF Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Turn-up time (min)
Channel							
Frequency (MHz)							
100	PLC BPSK	1	1	17.86			
100	PLC BPSK	1	137	18.08			19.5
100	PLC BPSK	1	271	18.02			
100	PLC BPSK	135	5	18.03			19.5
100	PLC BPSK	135	89	17.98			19.5
100	PLC BPSK	135	138	17.98			19.5
100	PLC BPSK	270	5	17.94			19.5
100	QPSK	1	1	18.11			
100	QPSK	1	137	18.08			19.5
100	QPSK	1	271	18.02			
100	QPSK	135	5	18.03			19.5
100	QPSK	135	89	18.04			19.5
100	QPSK	135	138	17.97			19.5
100	QPSK	270	5	18.02			19.5
100	16QAM	1	1	17.98			19.5
100	16QAM	1	1	17.95			19.5
100	256QAM	1	1	17.99			19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.91	18.04	18.09	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.66	18.02	17.66	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.62	18.02	17.62	19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.68	17.68	17.68	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.62	18.02	18.09	19.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.69	17.69	17.69	19.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.63	18.04	18.09	19.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.62	17.68	18.02	19.5

Part270_n78_Ant 21							
SW (MHz)	Modulation	RF Size	RF Offset	Power Level P ₁ (dBm)	Power Margin P ₂ (dBm)	Power Margin P ₃ (dBm)	Turn-up time (min)
Channel							
Frequency (MHz)							
100	PLC BPSK	1	1	17.86			
100	PLC BPSK	1	137	18.08			13.5
100	PLC BPSK	1	271	18.02			
100	PLC BPSK	135	5	18.03			13.5
100	PLC BPSK	135	89	17.98			13.5
100	PLC BPSK	135	138	17.98			13.5
100	PLC BPSK	270	5	17.94			13.5
100	QPSK	1	1	18.11			
100	QPSK	1	137	18.08			13.5
100	QPSK	1	271	18.02			
100	QPSK	135	5	18.03			13.5
100	QPSK	135	89	18.04			13.5
100	QPSK	135	138	17.97			13.5
100	QPSK	270	5	18.02			13.5
100	16QAM	1	1	17.98			13.5
100	16QAM	1	1	17.95			13.5
100	256QAM	1	1	17.99			13.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.69	17.69	17.69	13.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.69	17.69	17.69	13.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.69	17.69	17.69	13.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.91	18.04	18.09	13.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.66	18.02	17.66	13.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.62	18.02	17.62	13.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.69	17.69	17.69	13.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.68	17.68	17.68	13.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.62	18.02	18.09	13.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.69	17.69	17.69	13.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.63	18.04	18.09	13.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.62	17.68	18.02	13.5

Part27Q_n78_HPUE_Ant 21									
SV Band	Modulation	RB Size	RB Offset	Power Level P _{max} (dBm)	Power Margin P _{max} (dBm)	Power Margin P _{max} (dBm)	Time-up time (sec)	MFR (dB)	
Frequency (MHz)									
100	PLC BPSK	1	1	12.08					
100	PLC BPSK	1	137	12.08					
100	PLC BPSK	1	271	12.12					
100	PLC BPSK	135	5	12.15					
100	PLC BPSK	135	89	11.98					
100	PLC BPSK	135	138	12.05					
100	PLC BPSK	270	5	11.98					
100	QPSK	1	1	12.05					
100	QPSK	1	137	12.05					
100	QPSK	1	271	12.05					
100	QPSK	135	5	12.08					
100	QPSK	135	89	12.12					
100	QPSK	135	138	12.05					
100	QPSK	270	5	12.10					
100	16QAM	1	1	12.02					
100	16QAM	1	1	11.97					
100	256QAM	1	1	12.10					
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.08	12.14	12.08	0.0		
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.11	12.08	12.08	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.12	12.11	12.14	0.0		
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.05	12.05	12.14	0.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.11	12.12	12.08	0.0		
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.14	12.15	12.10	0.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.05	12.13	12.14	0.0		

Part27O_n78_Ant 21									
SV Band	Modulation	RB Size	RB Offset	Power Level P _{max} (dBm)	Power Margin P _{max} (dBm)	Power Margin P _{max} (dBm)	Time-up time (sec)	MFR (dB)	
Frequency (MHz)									
100	PLC BPSK	1	1	11.98					
100	PLC BPSK	1	137	11.98					
100	PLC BPSK	1	271	12.03					
100	PLC BPSK	135	5	11.97					
100	PLC BPSK	135	89	11.98					
100	PLC BPSK	135	138	12.05					
100	PLC BPSK	270	5	11.89					
100	QPSK	1	1	11.95					
100	QPSK	1	137	11.95					
100	QPSK	1	271	11.99					
100	QPSK	135	5	11.98					
100	QPSK	135	89	12.04					
100	QPSK	135	138	11.95					
100	QPSK	270	5	11.98					
100	16QAM	1	1	12.01					
100	16QAM	1	1	11.97					
100	256QAM	1	1	11.98					
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.98	11.92	11.99	0.0		
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.93	11.98	12.03	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.93	11.94	11.94	0.0		
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.95	11.97	12.02	0.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.95	11.93	11.99	0.0		
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.00	11.97	12.05	0.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.92	11.91	11.95	0.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.95	11.97	12.01	0.0		

Part27O_n78_HPUE_Ant 21									
SV Band	Modulation	RB Size	RB Offset	Power Level P _{max} (dBm)	Power Margin P _{max} (dBm)	Power Margin P _{max} (dBm)	Time-up time (sec)	MFR (dB)	
Frequency (MHz)									
100	PLC BPSK	1	1	11.95					
100	PLC BPSK	1	137	11.95					
100	PLC BPSK	1	271	12.03					
100	PLC BPSK	135	5	11.97					
100	PLC BPSK	135	89	11.98					
100	PLC BPSK	135	138	12.05					
100	PLC BPSK	270	5	11.89					
100	QPSK	1	1	11.95					
100	QPSK	1	137	11.95					
100	QPSK	1	271	11.99					
100	QPSK	135	5	11.98					
100	QPSK	135	89	12.04					
100	QPSK	135	138	11.95					
100	QPSK	270	5	11.98					
100	16QAM	1	1	12.01					
100	16QAM	1	1	11.97					
100	256QAM	1	1	11.98					
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.05	12.05	12.05	0.0		
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.98	11.92	11.99	0.0		
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.93	11.98	12.03	0.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.93	11.94	11.94	0.0		
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.95	11.97	12.02	0.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.95	11.93	11.99	0.0		
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.00	11.97	12.05	0.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.92	11.91	11.95	0.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.95	11.97	12.01	0.0		

Part27Q_n78_Ant 23									
SV BWS	Modulation	RB Size	RB Offset	Low Power P _{max} (dBm)	Medium Power P _{max} (dBm)	High Power P _{max} (dBm)	Frequency MHz	MF _{max} (MHz)	
Channel									
100	Frequency (MHz)				14.63				
100	PUSCH-MPPE	1	137	14.66			16.5	0.0	
100	PUSCH-MPPE	1	211	14.62			16.5	0.0	
100	PUSCH-MPPE	139	0	14.68			16.5	0.0	
100	PUSCH-MPPE	139	138	14.62			16.5	0.0	
100	PUSCH-MPPE	139	136	14.64			16.5	0.0	
100	PUSCH-MPPE	270	0	14.61			16.5	0.0	
100	CRS			14.67					
100	CRS	1	137	14.69			16.5	0.0	
100	CRS	1	211	14.65			16.5	0.0	
100	CRS	139	0	14.74			16.5	0.0	
100	CRS	139	138	14.71			16.5	0.0	
100	CRS	139	136	14.74			16.5	0.0	
100	CRS	270	0	14.66			16.5	0.0	
100	CRS	270	138	14.72			16.5	0.0	
100	64QAM	1	1	14.66			16.5	0.0	
100	256QAM	1	1	14.68			16.5	0.0	
Channel									
80	Frequency (MHz)			63500	63510	63560			
80	CRS			3450	3456	3462	16.5	0.0	
Channel									
80	Frequency (MHz)			63568	63578	63628			
80	CRS			3458	3464	3470	16.5	0.0	
Channel									
70	Frequency (MHz)			63636	63646	63696			
70	CRS			14.81	14.76	14.78	16.5	0.0	
Channel									
80	Frequency (MHz)			63704	63714	63764			
80	CRS			24.06	14.87	14.77	16.5	0.0	
Channel									
50	Frequency (MHz)			63772	63782	63832			
50	CRS			14.79	14.71	14.74	16.5	0.0	
Channel									
40	Frequency (MHz)			63840	63850	63900			
40	CRS			14.83	14.73	14.74	16.5	0.0	
Channel									
30	Frequency (MHz)			63908	63918	63968			
30	CRS			14.86	14.72	14.76	16.5	0.0	
Channel									
25	Frequency (MHz)			63976	63986	64036			
25	CRS			14.81	14.79	14.74	16.5	0.0	
Channel									
20	Frequency (MHz)			64044	64054	64104			
20	CRS			14.87	14.71	14.72	16.5	0.0	
Channel									
15	Frequency (MHz)			64112	64122	64172			
15	CRS			14.87	14.69	14.74	16.5	0.0	
Channel									
10	Frequency (MHz)			64180	64190	64240			
10	CRS			14.65	14.61	14.64	16.5	0.0	

<WLAN 2.4GHz FCC>														
		Full Power		Head Standalone		Head Simultaneous		Body&Extremity&Hotspot Standalone&Simultaneous						
		Ant.22		Ant.22		Ant.22		Ant.22		Ant.22				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.70	17.80	15.70	17.80	14.10	16.00	15.70	17.80	99.64		
		6	2437	16.00	17.80	16.00	17.80	14.53	16.00	16.00	17.80			
		11	2462	15.90	17.80	15.90	17.80	14.35	16.00	15.90	17.80			
		12	2467	13.30	18.00	13.30	18.00	13.30	16.00	13.30	18.00			
		13	2472	12.40	14.00	12.40	14.00	12.40	14.00	12.40	14.00			
		14	2412	13.30	18.00	13.30	18.00	13.30	16.00	13.30	18.00			
	802.11g 6Mbps	2	2417	16.10	18.00	16.10	18.00	17.50	16.00	16.00	18.00	97.20		
		6	2437	17.20	18.00	17.20	18.00	17.50	16.00	16.00	18.00			
		10	2467	17.20	18.00	17.20	18.00	17.50	16.00	16.00	18.00			
		11	2465	12.90	14.50	12.90	14.50	13.90	16.00	14.50	14.50			
		12	2467	11.40	13.00	11.40	13.00	13.00	16.00	13.00	13.00			
		13	2472	8.70	10.00	8.70	10.00	10.00	16.00	10.00	10.00			
2.4GHz WLAN	802.11n-HT20 MCS0	1	2412	13.30	18.00	13.30	18.00	13.30	16.00	13.30	18.00	97.76		
		2	2417	16.10	18.00	16.10	18.00	17.50	16.00	16.00	18.00			
		6	2437	16.40	18.00	16.40	18.00	17.50	16.00	16.00	18.00			
		10	2467	16.10	18.00	16.10	18.00	17.50	16.00	16.00	18.00			
		11	2465	12.80	14.50	12.80	14.50	14.50	16.00	14.50	14.50			
		12	2467	11.40	13.00	11.40	13.00	13.00	16.00	13.00	13.00			
	802.11n-HT40 MCS0	3	2422	11.00	12.50	11.00	12.50	12.50	16.00	12.50	16.00	94.20		
		4	2427	13.00	14.50	13.00	14.50	14.50	16.00	14.50	14.50			
		5	2432	14.50	16.00	14.50	16.00	16.00	16.00	16.00	16.00			
		6	2437	15.40	17.00	15.40	17.00	17.00	16.00	16.00	16.00			
		7	2442	14.00	15.50	14.00	15.50	15.50	16.00	15.50	15.50			
		8	2447	13.00	14.50	13.00	14.50	14.50	16.00	14.50	14.50			
2.4GHz WLAN	802.11ac-VHT20 MCS0	1	2412	13.30	18.00	13.30	18.00	13.30	16.00	13.30	18.00	97.04		
		2	2417	16.00	18.00	16.00	18.00	17.50	16.00	16.00	18.00			
		6	2437	16.20	18.00	16.20	18.00	17.50	16.00	16.00	18.00			
		7	2442	14.00	15.50	14.00	15.50	15.50	16.00	15.50	15.50			
		8	2447	13.00	14.50	13.00	14.50	14.50	16.00	14.50	14.50			
		9	2452	11.90	13.50	11.90	13.50	13.50	16.00	13.50	13.50			
	802.11ac-VHT40 MCS0	10	2457	11.00	12.60	11.00	12.60	12.60	16.00	12.60	16.00	95.05		
		11	2462	6.80	8.50	6.80	8.50	8.50	16.00	8.50	8.50			
		1	2412	13.30	18.00	13.30	18.00	13.30	16.00	13.30	18.00			
		2	2417	16.00	18.00	16.00	18.00	17.50	16.00	16.00	18.00			
		6	2437	16.20	18.00	16.20	18.00	17.50	16.00	16.00	18.00			
		10	2457	16.00	18.00	16.00	18.00	17.50	16.00	16.00	18.00			
2.4GHz WLAN	802.11ac-VHT80 MCS0	11	2462	12.70	14.50	11.40	13.00	14.50	16.00	14.50	16.00	97.04		
		12	2467	11.30	13.00	10.00	11.50	13.00	16.00	13.00	13.00			
		13	2472	8.70	10.00	7.40	8.90	10.00	16.00	10.00	10.00			
		3	2422	10.80	12.50	9.50	11.00	12.50	16.00	12.50	12.50			
		4	2427	12.90	14.50	11.60	13.10	14.50	16.00	14.50	14.50			
		5	2432	14.30	16.00	13.00	14.50	16.00	16.00	16.00	16.00			
	802.11ac-VHT160 MCS0	6	2437	15.30	17.80	14.00	15.50	17.80	16.00	16.00	18.00	95.05		
		7	2442	13.90	15.50	12.60	14.10	15.50	16.00	15.50	15.50			
		8	2447	12.90	14.50	11.60	13.10	14.50	16.00	14.50	14.50			
		9	2452	11.90	13.50	10.60	12.10	13.50	16.00	13.50	13.50			
		10	2457	11.00	12.60	9.70	11.20	12.60	16.00	12.60	12.60			
		11	2462	6.80	8.50	5.50	7.00	8.50	16.00	8.50	8.50			
<WLAN 5GHz FCC>														
		Full Power		Head Standalone		Head Simultaneous		Body&Extremity&Hotspot Standalone		Body&Extremity&Hotspot Simultaneous				
		Ant.22		Ant.22		Ant.22		Ant.22		Ant.22				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.2GHz WLAN	802.11a 6Mbps	52	5260	16.22	18.00	16.60	18.00	14.90	16.00	16.00	18.00	97.20		
		56	5280	16.12	18.00	16.60	18.00	14.90	16.00	16.00	18.00			
		60	5300	16.30	18.00	16.60	18.00	14.90	16.00	16.00	18.00			
		64	5320	16.60	18.00	16.60	18.00	14.90	16.00	16.00	18.00			
		52	5260	16.11	18.00	16.60	18.00	14.90	16.00	16.00	18.00			
		56	5280	16.32	18.00	16.60	18.00	14.90	16.00	16.00	18.00			
	802.11n-HT20 MCS0	56	5280	16.52	18.00	16.60	18.00	15.08	16.00	16.00	18.00	97.01		
		60	5300	16.57	18.00	16.60	18.00	15.08	16.00	16.00	18.00			
		64	5320	16.80	18.00	16.60	18.00	15.08	16.00	16.00	18.00			
		52	5260	16.05	18.00	16.60	18.00	15.08	16.00	16.00	18.00			
		56	5280	16.30	18.00	16.60	18.00	15.08	16.00	16.00	18.00			
		60	5300	16.57	18.00	16.60	18.00	15.08	16.00	16.00	18.00			
802.11n-HT40 MCS0	54	5270	17.05	19.00	14.64	16.60	12.08	14.50	16.17	18.00	14.14	16.00	95.59	
	62	5310	16.34	18.00	10.34	12.00	10.34	12.00	10.34	12.00	10.34	12.00		
	56	5280	16.52	18.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00		
	58	5290	16.07	18.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00		
	60	5300	16.53	18.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00		
	64	5320	16.90	18.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00		
802.11ac-VHT20 MCS0	54	5270	17.22	19.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00	97.04	
	56	5280	16.53	18.00	16.60	18.00	14.90	16.00	16.00	18.00	16.00	18.00		
	58	5290	9.37	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	86.11		
	5.8GHz WLAN	802.11a 6Mbps	100	5000	10.51	12.50	12.50	12.50	12.50	12.50	12.50	12.50	97.20	
			118	5580	16.11	18.00	17.50	18.00	16.50	18.00	16.00	18.00		
			128	5600	16.10	18.00	17.50	18.00	16.50	18.00	16.00	18.00		
132			5660	16.08	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
140			5700	12.04	14.00	14.00	14.00	14.00	14.00	14.00	14.00			
144			5720	16.10	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
802.11n-HT20 MCS0		100	5000	10.52	12.50	12.50	12.50	12.50	12.50	12.50	12.50	97.01		
		118	5580	16.07	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
		128	5600	16.09	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
		132	5660	16.04	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
		140	5700	12.06	14.00	14.00	14.00	14.00	14.00	14.00	14.00			
		144	5720	16.14	18.00	17.50	18.00	16.50	18.00	16.00	18.00			
802.11n-HT40 MCS0	102	5510	9.52	11.50	11.50	11.50	9.52	11.50	11.50	11.50	95.59			
	110	5550	17.14	19.00	11.50	12.50	15.65	17.50	17.50	17.50		Not Required		
	128	5630	17.32	19.00	11.50	12.50	15.51	17.50	17.50	17.50		Not Required		
	136	5670	13.13	15.00	15.00	15.00	13.13	15.00	15.00	15.00				
	142	5710	17.52	19.00	11.50	12.50	15.65	17.50	17.50	17.50				
	100	5000	10.51	12.50	12.50	12.50	12.50	12.50	12.50	12.50				
802.11ac-VHT20 MCS0	118	5580	16.03	18.00	17.50	18.00	16.50	18.00	16.00	18.00	97.04			
	124	5620	16.00	18.00	17.50	18.00	16.50	18.00	16.00	18.00				
	132	5660	16.02	18.00	17.50	18.00	16.50	18.00	16.00	18.00				
	140	5700	12.01	14.00	14.00	14.00	14.00	14.00	14.00	14.00				
	144	5720	16.11	18.00	17.50	18.00	16.50	18.00	16.00	18.00				
	100	5000	9.51	11.50	11.50	11.50	9.51	11.50	11.50	11.50				
802.11ac-VHT40 MCS0	110	5550	17.12	19.00	11.50	12.50	15.50	17.50	17.50	17.50	95.59			
	128	5630	17.50	19.00	11.50	12.50	15.50	17.50	17.50	17.50				
	136	5670	13.01	15.00	15.00	15.00	13.01	15.00	15.00	15.00				
	142	5710	17.02	19.00	11.50	12.50	15.50	17.50	17.50	17.50				
	100	5000	9.55	11.50	9.55	11.50	11.50	9.55	11.50	11.50				
	122	5602	14.67	16.50	14.67	16.50	14.67	16.50	14.67	16.50				
5.8GHz WLAN	802.11n-HT80 MCS0	138	5690	16.63	18.50	15.60	17.50	14.68	16.50	17.50	14.14	16.00	86.11	
		138	5690	16.63	18.50	15.60	17.50	14.68	16.50	17.50	14.14	16.00		
		802.11ac-VHT80 MCS0	148	5745	18.05	20.00	17.50	18.00	18.00	18.00	18.00	18.00		97.20
			157	5785	18.09	20.00	17.50	18.00	18.00	18.00	18.00	18.00		
			166	5825	18.11	20.00	17.50	18.00	18.00	18.00	18.00	18.00		
			169	5745	17.71	19.00	Not Required	17.50	18.00	18.00	18.00	18.00		
	157		5785	17.69	19.00	Not Required	17.50	18.00	18.00	18.00	18.00			
	169		5745	17.60	19.00	Not Required	17.50	18.00	18.00	18.00	18.00			
	802.11ac-VHT20 MCS0	151	5755	17.58	19.00	15.64	17.50	18.61	19.00	Not Required	18.00	95.59		
		169	5745	17.58	19.00	15.64	17.50	18.61	19.00	Not Required	18.			

<Bluetooth FCC>						
	Mode	Channel	Frequency (MHz)	Default/Ful		Duty Cycle %
				Art 22		
				Average power (dBm)	Turn-Up Limit	
Bluetooth	BR / EDR 1Mbps	0	2402	10.10	11.50	76.60
		39	2441	10.30	11.50	
		78	2480	10.10	11.50	
	BR / EDR 2Mbps	0	2402	7.30	9.00	76.80
		39	2441	7.50	9.00	
		78	2480	7.30	9.00	
	BR / EDR 3Mbps	0	2402	7.20	9.00	76.86
		39	2441	7.20	9.00	
		78	2480	7.50	9.00	
	LE 1Mbps	0	2402	5.10	7.00	61.29
		19	2440	5.80	7.00	
		39	2480	5.30	7.00	
	LE 2Mbps	1	2402	5.10	7.00	32.26
		19	2440	5.70	7.00	
		38	2480	5.30	7.00	
	LE 125Kbps	0	2402	5.20	7.00	82.40
		19	2440	5.90	7.00	
		39	2480	5.40	7.00	
	LE 500Kbps	0	2402	5.10	7.00	56.68
		19	2440	5.80	7.00	
		39	2480	5.30	7.00	