



TEST REPORT

APPLICANT : Sonim Technologies, Inc.

PRODUCT NAME : Mobile Hotspot

MODEL NAME : H500B

BRAND NAME : Sonim

FCC ID : WYPH500B

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 96

RECEIPT DATE : 2023-11-01

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Change History		
Version	Date	Reason for change
1.0	2024-02-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Sonim Technologies, Inc.
Applicant Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer:	Sonim Technologies, Inc.
Manufacturer Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Hotspot	
Hardware Version:	V1.0	
Software Version:	H50.0-01-5.4.0-11.08.00	
IMEI:	001080003320240	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
SA Band:	n2, n5, n7, n12, n13, n14, n25, n26, n29(RX), n30, n38, n41, n48, n66, n71, n77, n78	
Power Class:	PC2:	n41, n77, n78
	PC3:	n2, n5, n7, n12, n13, n14, n25, n26, n30, n38, n41, n48, n66, n71, n77, n78
EN-DC Band:	n2	DC_5A_n2, DC_7A_n2, DC_12A_n2, DC_13A_n2, DC_66A_n2, DC_71A_n2
	n5	DC_2A_n5, DC_48A_n5, DC_66A_n5
	n7	DC_5A_n7, DC_66A_n7
	n12	DC_2A_n12, DC_5A_n12, DC_7A_n12, DC_48A_n12, DC_66A_n12, DC_71A_n12
	n25	DC_12A_n25, DC_48A_n25, DC_66A_n25
	n38	DC_4A_n38, DC_5A_n38, DC_66A_n38, DC_71A_n38
	n41	DC_2A_n41, DC_4A_n41, DC_5A_n41, DC_12A_n41, DC_66A_n41, DC_71A_n41,
	n66	DC_2A_n66, DC_5A_n66, DC_7A_n66, DC_12A_n66, DC_13A_n66, DC_48A_n66, DC_71A_n66



	n71	DC_2A_n71, DC_5A_n71, DC_7A_n71, DC_12A_n71, DC_66A_n71
	n77	DC_2A_n77, DC_5A_n77, DC_7A_n77, DC_13A_n77, DC_66A_n77, DC_71A_n77
	n78	DC_2A_n78, DC_5A_n78, DC_7A_n78, DC_12A_n78, DC_66A_n78, DC_71A_n78
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	n12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	n13	Tx: 777MHz-787MHz
		Rx: 746MHz-756MHz
	n14	Tx: 788MHz-798MHz
		Rx: 758MHz-768MHz
	n25	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1995MHz
	n26 (enabling bands)	Tx: 814MHz-824MHz
		Rx: 859MHz-869MHz
		Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n29(Rx)	Rx: 717MHz-728MHz
	n30	Tx: 2305MHz-2315MHz
		Rx: 2350MHz-2360MHz
	n38	Tx: 2570MHz-2620MHz
Rx: 2570MHz-2620MHz		
n41	Tx: 2496MHz-2690MHz	
	Rx: 2496MHz-2690MHz	
n48	Tx:3550 MHz–3700 MHz	
	Rx:3550 MHz–3700 MHz	
n66	Tx: 1710MHz-1780MHz	
	Rx: 2110MHz-2200MHz	
n71	Tx: 663MHz-698MHz	



		Rx: 617MHz-652MHz
	n77 : (enabling bands)	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
	n78: (enabling bands)	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n7	5MHz, 10MHz, 15MHz, 20MHz
	n12	5MHz, 10MHz, 15MHz
	n13	5MHz, 10MHz
	n14	5MHz, 10MHz
	n25	5MHz, 10MHz, 15MHz, 20MHz
	n26	5MHz, 10MHz, 15MHz, 20MHz
	n30	5MHz, 10MHz
	n38	20MHz, 30MHz, 40MHz
	n41	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n48	10MHz, 20MHz, 30MHz, 40MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz, 30MHz
	n71	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 60MHz, 80MHz, 100MHz
	n77	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 60MHz, 80MHz, 100MHz
n78	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	n2	ANT0: 2.40dBi, ANT1: 2.17dBi,
	n5	ANT4: -1.14dBi
	n7	ANT0: 0.35dBi
	n12	ANT4: -2.61dBi
	n13	ANT4: -2.58dBi
	n14	ANT4: -1.80dBi
	n25	ANT0: 2.40dBi, ANT1: 2.17dBi,
	n26	ANT4: -1.14dBi
	n30	ANT0: -2.08dBi
	n38	ANT0: 0.42dBi, ANT1: 0.94dBi,
	n41	ANT0: 0.74dBi, ANT1: 1.78dBi,
	n48	ANT2:-0.14dBi, ANT3:-0.03dBi,

	n66	ANT0: 1.29dBi, ANT1: 1.93dBi,
	n71	ANT4: -3.73dBi
	n77	ANT2:2.65 dBi, ANT3:2.31dBi,
	n78	ANT2:-0.07dBi, ANT3:-0.03dBi,
Accessory Information:	Battery :	
	Brand Name:	sonim
	Model No.:	BAT-06000-01S
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.
	AC Adapter :	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 0.5A
	Rated Output:	5V=3A or 9V=2A or 12V=1.5A
Manufacturer:	HUIZHOU PUAN ELECTRONICS CO.,LTD	

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: n41 and n77 supports both power class 2 and class 3. We have evaluated two power classes respectively by performing full test, for Conducted Output Power .we recorded the test result of two power classes separately, for other test items we only recorded the worst test result (Class 2) in this report.

Note 3: There is no test for SA n78 due to the band is completely covered by SA n77 and its power level setting also less than SA n77.

Note 4: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.



1.3. Maximum ERP/EIRP and Emission Designator

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.491	4M49G7D
	QPSK	23.50	25.90	0.389	4.496	4M50G7D
	16QAM	/	/	/	4.496	4M50W7D
	64QAM	/	/	/	4.481	4M48W7D
	256QAM	/	/	/	4.491	4M49W7D
	CP-QPSK	/	/	/	4.479	4M48G7D
10	PI/2 BPSK	/	/	/	8.927	8M93G7D
	QPSK	23.45	25.85	0.385	8.935	8M94G7D
	16QAM	/	/	/	8.951	8M95W7D
	64QAM	/	/	/	8.931	8M93W7D
	256QAM	/	/	/	8.934	8M93W7D
	CP-QPSK	/	/	/	9.297	9M30G7D
15	PI/2 BPSK	/	/	/	13.428	13M4G7D
	QPSK	23.51	25.91	0.390	13.450	13M5G7D
	16QAM	/	/	/	13.429	13M4W7D
	64QAM	/	/	/	13.461	13M5W7D
	256QAM	/	/	/	13.451	13M5W7D
	CP-QPSK	/	/	/	14.123	14M1G7D
20	PI/2 BPSK	23.56	25.96	0.394	17.887	17M9G7D
	QPSK	23.54	25.94	0.393	17.896	17M9G7D
	16QAM	22.43	24.83	0.304	17.904	17M9W7D
	64QAM	20.99	23.39	0.218	17.907	17M9W7D
	256QAM	18.78	21.18	0.131	17.866	17M9W7D
	CP-QPSK	/	/	/	18.927	18M9G7D



n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.491	4M49G7D
	QPSK	22.47	21.33	0.136	4.491	4M49G7D
	16QAM	/	/	/	4.488	4M49W7D
	64QAM	/	/	/	4.485	4M49W7D
	256QAM	/	/	/	4.479	4M48W7D
	CP-QPSK	/	/	/	4.486	4M49G7D
10	PI/2 BPSK	/	/	/	8.918	8M92G7D
	QPSK	22.42	21.28	0.134	8.916	8M92G7D
	16QAM	/	/	/	8.944	8M94W7D
	64QAM	/	/	/	8.927	8M93W7D
	256QAM	/	/	/	8.928	8M93W7D
	CP-QPSK	/	/	/	9.290	9M29G7D
15	PI/2 BPSK	/	/	/	13.396	13M4G7D
	QPSK	22.61	21.47	0.140	13.417	13M4G7D
	16QAM	/	/	/	13.426	13M4W7D
	64QAM	/	/	/	13.383	13M4W7D
	256QAM	/	/	/	13.408	13M4W7D
	CP-QPSK	/	/	/	14.095	14M1G7D
20	PI/2 BPSK	22.67	21.53	0.142	17.817	17M8G7D
	QPSK	22.65	21.51	0.142	17.806	17M8G7D
	16QAM	21.94	20.80	0.120	17.836	17M8W7D
	64QAM	20.39	19.25	0.084	17.830	17M8W7D
	256QAM	18.23	17.09	0.051	17.810	17M8W7D
	CP-QPSK	/	/	/	18.851	18M9G7D



n7						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.490	4M49G7D
	QPSK	22.73	23.08	0.203	4.510	4M51G7D
	16QAM	/	/	/	4.506	4M51W7D
	64QAM	/	/	/	4.486	4M49W7D
	256QAM	/	/	/	4.492	4M49W7D
	CP-QPSK	/	/	/	4.512	4M51G7D
10	PI/2 BPSK	/	/	/	8.934	8M93G7D
	QPSK	22.68	23.03	0.201	8.950	8M95G7D
	16QAM	/	/	/	8.950	8M95W7D
	64QAM	/	/	/	8.936	8M94W7D
	256QAM	/	/	/	8.936	8M94W7D
	CP-QPSK	/	/	/	9.350	9M35G7D
15	PI/2 BPSK	/	/	/	13.419	13M4G7D
	QPSK	22.77	23.12	0.205	13.450	13M5G7D
	16QAM	/	/	/	13.437	13M4W7D
	64QAM	/	/	/	13.412	13M4W7D
	256QAM	/	/	/	13.436	13M4W7D
	CP-QPSK	/	/	/	14.127	14M1G7D
20	PI/2 BPSK	22.97	23.32	0.215	17.880	17M9G7D
	QPSK	23.24	23.59	0.229	17.890	17M9G7D
	16QAM	21.55	21.90	0.155	17.894	17M9W7D
	64QAM	20.10	20.45	0.111	17.915	17M9W7D
	256QAM	17.96	18.31	0.068	17.859	17M9W7D
	CP-QPSK	/	/	/	18.954	19M0G7D



n12						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.499	4M50G7D
	QPSK	22.70	20.09	0.102	4.494	4M49G7D
	16QAM	/	/	/	4.494	4M49W7D
	64QAM	/	/	/	4.479	4M48W7D
	256QAM	/	/	/	4.490	4M49W7D
	CP-QPSK	/	/	/	4.481	4M48G7D
10	PI/2 BPSK	/	/	/	8.916	8M92G7D
	QPSK	22.70	20.09	0.102	8.913	8M91G7D
	16QAM	/	/	/	8.939	8M94W7D
	64QAM	/	/	/	8.921	8M92W7D
	256QAM	/	/	/	8.938	8M94W7D
	CP-QPSK	/	/	/	9.280	9M28G7D
15	PI/2 BPSK	22.85	20.24	0.106	13.402	13M4G7D
	QPSK	22.87	20.26	0.106	13.418	13M4G7D
	16QAM	21.81	19.20	0.083	13.412	13M4W7D
	64QAM	20.23	17.62	0.058	13.390	13M4W7D
	256QAM	18.04	15.43	0.035	13.425	13M4W7D
	CP-QPSK	/	/	/	14.083	14M1G7D

n13						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.484	4M48G7D
	QPSK	22.86	20.28	0.107	4.502	4M50G7D
	16QAM	/	/	/	4.496	4M50W7D
	64QAM	/	/	/	4.480	4M48W7D
	256QAM	/	/	/	4.480	4M48W7D
	CP-QPSK	/	/	/	4.493	4M49G7D
10	PI/2 BPSK	22.90	20.32	0.108	8.899	8M90G7D
	QPSK	22.84	20.26	0.106	8.897	8M90G7D
	16QAM	21.65	19.07	0.081	8.916	8M92W7D
	64QAM	20.33	17.75	0.060	8.889	8M89W7D
	256QAM	18.14	15.56	0.036	8.896	8M90W7D



	CP-QPSK	/	/	/	9.269	9M27G7D
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n14						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.487	4M49G7D
	QPSK	22.90	21.10	0.129	4.507	4M51G7D
	16QAM	/	/	/	4.486	4M49W7D
	64QAM	/	/	/	4.479	4M48W7D
	256QAM	/	/	/	4.475	4M48W7D
	CP-QPSK	/	/	/	4.484	4M48G7D
10	PI/2 BPSK	22.90	21.10	0.129	8.885	8M89G7D
	QPSK	22.88	21.08	0.128	8.889	8M89G7D
	16QAM	21.92	20.12	0.103	8.905	8M91W7D
	64QAM	20.36	18.56	0.072	8.877	8M88W7D
	256QAM	18.00	16.20	0.042	8.881	8M88W7D
	CP-QPSK	/	/	/	9.249	9M25G7D

n25						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.483	4M48G7D
	QPSK	23.25	25.65	0.367	4.500	4M50G7D
	16QAM	/	/	/	4.491	4M49W7D
	64QAM	/	/	/	4.478	4M48W7D
	256QAM	/	/	/	4.484	4M48W7D
	CP-QPSK	/	/	/	4.487	4M49G7D
10	PI/2 BPSK	/	/	/	8.920	8M92G7D
	QPSK	23.20	25.60	0.363	8.927	8M93G7D
	16QAM	/	/	/	8.949	8M95W7D
	64QAM	/	/	/	8.926	8M93W7D
	256QAM	/	/	/	8.937	8M94W7D
	CP-QPSK	/	/	/	9.292	9M29G7D
15	PI/2 BPSK	/	/	/	13.424	13M4G7D
	QPSK	23.61	26.01	0.399	13.450	13M5G7D
	16QAM	/	/	/	13.433	13M4W7D



	64QAM	/	/	/	13.401	13M4W7D
	256QAM	/	/	/	13.438	13M4W7D
	CP-QPSK	/	/	/	14.118	14M1G7D
20	PI/2 BPSK	23.54	25.94	0.393	17.868	17M9G7D
	QPSK	23.55	25.95	0.394	17.876	17M9G7D
	16QAM	22.40	24.80	0.302	17.898	17M9W7D
	64QAM	20.95	23.35	0.216	17.902	17M9W7D
	256QAM	18.77	21.17	0.131	17.853	17M9W7D
	CP-QPSK	/	/	/	18.915	18M9G7D

n26(814-824MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.488	4M49G7D
	QPSK	22.61	21.47	0.140	4.507	4M51G7D
	16QAM	/	/	/	4.490	4M49W7D
	64QAM	/	/	/	4.482	4M48W7D
	256QAM	/	/	/	4.483	4M48W7D
	CP-QPSK	/	/	/	4.478	4M48G7D
10	PI/2 BPSK	22.66	21.52	0.142	8.892	8M89G7D
	QPSK	22.62	21.48	0.141	8.896	8M90G7D
	16QAM	21.94	20.80	0.120	8.934	8M93W7D
	64QAM	20.36	19.22	0.084	8.900	8M90W7D
	256QAM	18.14	17.00	0.050	8.914	8M91W7D
	CP-QPSK	/	/	/	9.261	9M26G7D

n26(824-849MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	99% BW (MHz)	Emission Designator
	QPSK	22.56	21.42	0.139	4.491	4M49G7D
	16QAM	/	/	/	4.494	4M49G7D
	64QAM	/	/	/	4.486	4M49W7D
	256QAM	/	/	/	4.487	4M49W7D
	CP-QPSK	/	/	/	4.478	4M48W7D



10	PI/2 BPSK	/	/	/	4.483	4M48G7D
	QPSK	22.58	21.44	0.139	8.908	8M91G7D
	16QAM	/	/	/	8.924	8M92G7D
	64QAM	/	/	/	8.932	8M93W7D
	256QAM	/	/	/	8.914	8M91W7D
	CP-QPSK	/	/	/	8.930	8M93W7D
15	PI/2 BPSK	/	/	/	9.286	9M29G7D
	QPSK	22.78	21.64	0.146	13.399	13M4G7D
	16QAM	/	/	/	13.419	13M4G7D
	64QAM	/	/	/	13.422	13M4W7D
	256QAM	/	/	/	13.382	13M4W7D
	CP-QPSK	/	/	/	13.402	13M4W7D
20	PI/2 BPSK	22.78	21.64	0.146	14.085	14M1G7D
	QPSK	22.80	21.66	0.147	17.813	17M8G7D
	16QAM	22.11	20.97	0.125	17.816	17M8G7D
	64QAM	20.53	19.39	0.087	17.835	17M8W7D
	256QAM	18.34	17.20	0.052	17.849	17M9W7D
	CP-QPSK	/	/	/	17.810	17M8W7D

n30						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.494	4M49G7D
	QPSK	23.45	21.37	0.137	4.500	4M50G7D
	16QAM	/	/	/	4.495	4M50W7D
	64QAM	/	/	/	4.487	4M49W7D
	256QAM	/	/	/	4.486	4M49W7D
	CP-QPSK	/	/	/	4.481	4M48G7D
10	PI/2 BPSK	23.38	21.30	0.135	8.915	8M92G7D
	QPSK	23.54	21.46	0.140	8.916	8M92G7D
	16QAM	22.51	20.43	0.110	8.935	8M94W7D
	64QAM	21.12	19.04	0.080	8.923	8M92W7D
	256QAM	18.58	16.50	0.045	8.939	8M94W7D
	CP-QPSK	/	/	/	9.285	9M29G7D



n38						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.853	17M9G7D
	QPSK	23.37	24.31	0.270	17.840	17M8G7D
	16QAM	/	/	/	17.897	17M9W7D
	64QAM	/	/	/	17.871	17M9W7D
	256QAM	/	/	/	17.902	17M9W7D
	CP-QPSK	/	/	/	17.905	17M9G7D
30	PI/2 BPSK	/	/	/	26.809	26M8G7D
	QPSK	23.31	24.25	0.266	26.851	26M9G7D
	16QAM	/	/	/	26.855	26M9W7D
	64QAM	/	/	/	26.810	26M8W7D
	256QAM	/	/	/	26.835	26M8W7D
	CP-QPSK	/	/	/	26.855	26M9G7D
40	PI/2 BPSK	23.73	24.67	0.293	35.759	35M8G7D
	QPSK	23.79	24.73	0.297	35.765	35M8G7D
	16QAM	22.19	23.13	0.206	35.822	35M8W7D
	64QAM	20.70	21.64	0.146	35.807	35M8W7D
	256QAM	18.54	19.48	0.089	35.806	35M8W7D
	CP-QPSK	/	/	/	35.751	35M8G7D

n41(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.928	17M9G7D
	QPSK	26.26	28.04	0.637	17.916	17M9G7D
	16QAM	/	/	/	17.938	17M9W7D
	64QAM	/	/	/	17.887	17M9W7D
	256QAM	/	/	/	17.849	17M9W7D
	CP-QPSK	/	/	/	18.032	18M0G7D
30	PI/2 BPSK	/	/	/	26.885	26M9G7D
	QPSK	26.27	28.05	0.638	26.919	26M9G7D
	16QAM	/	/	/	26.914	26M9W7D
	64QAM	/	/	/	26.911	26M9W7D



	256QAM	/	/	/	26.877	26M9W7D
	CP-QPSK	/	/	/	26.977	27M0G7D
40	PI/2 BPSK	/	/	/	35.862	35M9G7D
	QPSK	26.24	28.02	0.634	35.979	36M0G7D
	16QAM	/	/	/	35.914	35M9W7D
	64QAM	/	/	/	35.944	35M9W7D
	256QAM	/	/	/	35.791	35M8W7D
	CP-QPSK	/	/	/	35.940	35M9G7D
	50	PI/2 BPSK	/	/	/	46.336
QPSK		26.14	27.92	0.619	46.403	46M4G7D
16QAM		/	/	/	46.102	46M1W7D
64QAM		/	/	/	46.048	46M1W7D
256QAM		/	/	/	45.821	45M8W7D
CP-QPSK		/	/	/	46.141	46M1G7D
60		PI/2 BPSK	/	/	/	58.234
	QPSK	26.01	27.79	0.601	58.514	58M5G7D
	16QAM	/	/	/	58.232	58M2W7D
	64QAM	/	/	/	58.211	58M2W7D
	256QAM	/	/	/	58.053	58M1W7D
	CP-QPSK	/	/	/	58.307	58M3G7D
	70	PI/2 BPSK	/	/	/	64.750
QPSK		25.85	27.63	0.579	64.810	64M8G7D
16QAM		/	/	/	64.562	64M6W7D
64QAM		/	/	/	64.551	64M6W7D
256QAM		/	/	/	64.346	64M4W7D
CP-QPSK		/	/	/	64.655	64M7G7D
80		PI/2 BPSK	/	/	/	77.547
	QPSK	25.80	27.58	0.573	77.854	77M9G7D
	16QAM	/	/	/	77.699	77M7W7D
	64QAM	/	/	/	77.458	77M5W7D
	256QAM	/	/	/	77.213	77M2W7D
	CP-QPSK	/	/	/	77.670	77M7G7D
	90	PI/2 BPSK	/	/	/	87.107
QPSK		25.76	27.54	0.568	87.353	87M4G7D
16QAM		/	/	/	87.389	87M4W7D
64QAM		/	/	/	87.142	87M1W7D
256QAM		/	/	/	86.829	86M8W7D



	CP-QPSK	/	/	/	87.459	87M5G7D
100	PI/2 BPSK	26.04	27.82	0.605	97.010	97M0G7D
	QPSK	26.05	27.83	0.607	97.243	97M2G7D
	16QAM	24.92	26.70	0.468	97.056	97M1W7D
	64QAM	23.46	25.24	0.334	96.845	96M9W7D
	256QAM	21.33	23.11	0.205	96.592	96M6W7D
	CP-QPSK	/	/	/	97.201	97M2G7D

n41(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	23.48	25.26	0.336	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	23.61	25.39	0.346	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	23.54	25.32	0.340	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	23.61	25.39	0.346	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/



	QPSK	23.48	25.26	0.336	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	23.24	25.02	0.318	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	CP-QPSK	/	/	/	/	/
	PI/2 BPSK	/	/	/	/	/
	QPSK	23.25	25.03	0.318	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
90	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
	PI/2 BPSK	/	/	/	/	/
	QPSK	23.29	25.07	0.321	/	/
	16QAM	/	/	/	/	/
100	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
	PI/2 BPSK	23.39	25.17	0.329	/	/
	QPSK	23.34	25.12	0.325	/	/

n48						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.593	8M59G7D
	QPSK	22.39	22.36	0.172	8.601	8M60G7D
	16QAM	/	/	/	8.637	8M64W7D



	64QAM	/	/	/	8.611	8M61W7D
	256QAM	/	/	/	8.604	8M60W7D
	CP-QPSK	/	/	/	8.582	8M58G7D
20	PI/2 BPSK	/	/	/	17.812	17M8G7D
	QPSK	22.94	22.91	0.195	17.821	17M8G7D
	16QAM	/	/	/	17.883	17M9W7D
	64QAM	/	/	/	17.840	17M8W7D
	256QAM	/	/	/	17.828	17M8W7D
	CP-QPSK	/	/	/	17.886	17M9G7D
	30	PI/2 BPSK	/	/	/	26.783
QPSK		22.78	22.75	0.188	26.841	26M8G7D
16QAM		/	/	/	26.817	26M8W7D
64QAM		/	/	/	26.815	26M8W7D
256QAM		/	/	/	26.830	26M8W7D
CP-QPSK		/	/	/	26.791	26M8G7D
40	PI/2 BPSK	22.97	22.94	0.197	35.741	35M7G7D
	QPSK	22.98	22.95	0.197	35.774	35M8G7D
	16QAM	21.91	21.88	0.154	35.803	35M8W7D
	64QAM	20.25	20.22	0.105	35.793	35M8W7D
	256QAM	18.33	18.30	0.068	35.742	35M7W7D
	CP-QPSK	/	/	/	35.712	35M7G7D

n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.492	4M49G7D
	QPSK	23.06	24.99	0.316	4.490	4M49G7D
	16QAM	/	/	/	4.498	4M50W7D
	64QAM	/	/	/	4.480	4M48W7D
	256QAM	/	/	/	4.484	4M48W7D
	CP-QPSK	/	/	/	4.481	4M48G7D
10	PI/2 BPSK	/	/	/	8.926	8M93G7D
	QPSK	22.90	24.83	0.304	8.931	8M93G7D
	16QAM	/	/	/	8.949	8M95W7D
	64QAM	/	/	/	8.933	8M93W7D
	256QAM	/	/	/	8.938	8M94W7D



	CP-QPSK	/	/	/	9.295	9M30G7D
15	PI/2 BPSK	/	/	/	13.429	13M4G7D
	QPSK	22.89	24.82	0.303	13.442	13M4G7D
	16QAM	/	/	/	13.435	13M4W7D
	64QAM	/	/	/	13.408	13M4W7D
	256QAM	/	/	/	13.440	13M4W7D
	CP-QPSK	/	/	/	14.126	14M1G7D
20	PI/2 BPSK	/	/	/	17.920	17M9G7D
	QPSK	22.95	24.88	0.308	17.884	17M9G7D
	16QAM	/	/	/	17.915	17M9W7D
	64QAM	/	/	/	17.907	17M9W7D
	256QAM	/	/	/	17.875	17M9W7D
	CP-QPSK	/	/	/	18.921	18M9G7D
30	PI/2 BPSK	22.83	24.76	0.299	28.631	28M6G7D
	QPSK	22.99	24.92	0.310	28.576	28M6G7D
	16QAM	21.96	23.89	0.245	28.608	28M6W7D
	64QAM	20.51	22.44	0.175	28.552	28M6W7D
	256QAM	17.98	19.91	0.098	28.584	28M6W7D
	CP-QPSK	/	/	/	28.570	28M6G7D

n71						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.483	4M48G7D
	QPSK	22.71	18.98	0.079	4.490	4M49G7D
	16QAM	/	/	/	4.488	4M49W7D
	64QAM	/	/	/	4.474	4M47W7D
	256QAM	/	/	/	4.492	4M49W7D
	CP-QPSK	/	/	/	4.479	4M48G7D
10	PI/2 BPSK	/	/	/	8.913	8M91G7D
	QPSK	22.68	18.95	0.079	8.914	8M91G7D
	16QAM	/	/	/	8.937	8M94W7D
	64QAM	/	/	/	8.918	8M92W7D
	256QAM	/	/	/	8.930	8M93W7D
	CP-QPSK	/	/	/	9.284	9M28G7D
15	PI/2 BPSK	/	/	/	13.423	13M4G7D



	QPSK	22.78	19.05	0.080	13.416	13M4G7D
	16QAM	/	/	/	13.436	13M4W7D
	64QAM	/	/	/	13.397	13M4W7D
	256QAM	/	/	/	13.423	13M4W7D
	CP-QPSK	/	/	/	14.099	14M1G7D
20	PI/2 BPSK	22.81	19.08	0.081	17.843	17M8G7D
	QPSK	22.83	19.10	0.081	17.854	17M9G7D
	16QAM	21.80	18.07	0.064	17.851	17M9W7D
	64QAM	20.56	16.83	0.048	17.887	17M9W7D
	256QAM	17.36	13.63	0.023	17.832	17M8W7D
	CP-QPSK	/	/	/	18.888	18M9G7D

n77(3450-3550MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.826	17M8G7D
	QPSK	26.97	29.62	0.916	17.803	17M8G7D
	16QAM	/	/	/	17.885	17M9W7D
	64QAM	/	/	/	17.845	17M9W7D
	256QAM	/	/	/	17.819	17M8W7D
	CP-QPSK	/	/	/	17.865	17M9G7D
30	PI/2 BPSK	/	/	/	26.778	26M8G7D
	QPSK	27.11	29.76	0.946	26.829	26M8G7D
	16QAM	/	/	/	26.819	26M8W7D
	64QAM	/	/	/	26.810	26M8W7D
	256QAM	/	/	/	26.876	26M9W7D
	CP-QPSK	/	/	/	26.802	26M8G7D
40	PI/2 BPSK	/	/	/	35.702	35M7G7D
	QPSK	27.04	29.69	0.931	35.747	35M8G7D
	16QAM	/	/	/	35.788	35M8W7D
	64QAM	/	/	/	35.786	35M8W7D
	256QAM	/	/	/	35.753	35M8W7D
	CP-QPSK	/	/	/	35.715	35M7G7D
60	PI/2 BPSK	/	/	/	57.807	57M8G7D
	QPSK	26.57	29.22	0.836	57.777	57M8G7D
	16QAM	/	/	/	57.840	57M8W7D



	64QAM	/	/	/	57.816	57M8W7D
	256QAM	/	/	/	57.876	57M9W7D
	CP-QPSK	/	/	/	57.818	57M8G7D
80	PI/2 BPSK	/	/	/	76.972	77M0G7D
	QPSK	26.20	28.85	0.767	77.112	77M1G7D
	16QAM	/	/	/	77.156	77M2W7D
	64QAM	/	/	/	77.071	77M1W7D
	256QAM	/	/	/	77.049	77M1W7D
	CP-QPSK	/	/	/	77.148	77M2G7D
	100	PI/2 BPSK	26.77	29.42	0.875	96.177
QPSK		26.75	29.40	0.871	96.193	96M2G7D
16QAM		25.11	27.76	0.597	96.255	96M3W7D
64QAM		23.46	26.11	0.408	96.101	96M1W7D
256QAM		21.37	24.02	0.252	96.239	96M2W7D
CP-QPSK		/	/	/	96.265	96M3G7D

n77(3450-3550MHz)(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	23.98	26.63	0.460	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	24.24	26.89	0.489	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	24.07	26.72	0.470	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/



	CP-QPSK	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	23.58	26.23	0.420	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	23.24	25.89	0.388	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
100	PI/2 BPSK	23.90	26.55	0.452	/	/
	QPSK	23.81	26.46	0.443	/	/
	16QAM	23.10	25.75	0.376	/	/
	64QAM	23.00	25.65	0.367	/	/
	256QAM	21.34	23.99	0.251	/	/
	CP-QPSK	/	/	/	/	/

n77(3700-3980MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.832	17M8G7D
	QPSK	27.13	29.78	0.951	17.839	17M8G7D
	16QAM	/	/	/	17.859	17M9W7D
	64QAM	/	/	/	17.820	17M8W7D
	256QAM	/	/	/	17.821	17M8W7D
	CP-QPSK	/	/	/	17.901	17M9G7D
30	PI/2 BPSK	/	/	/	26.800	26M8G7D
	QPSK	27.19	29.84	0.964	26.804	26M8G7D
	16QAM	/	/	/	26.798	26M8W7D
	64QAM	/	/	/	26.786	26M8W7D
	256QAM	/	/	/	26.800	26M8W7D
	CP-QPSK	/	/	/	26.841	26M8G7D
40	PI/2 BPSK	/	/	/	35.742	35M7G7D



	QPSK	27.12	29.77	0.948	35.770	35M8G7D
	16QAM	/	/	/	35.751	35M8W7D
	64QAM	/	/	/	35.783	35M8W7D
	256QAM	/	/	/	35.717	35M7W7D
	CP-QPSK	/	/	/	35.735	35M7G7D
60	PI/2 BPSK	/	/	/	57.874	57M9G7D
	QPSK	26.82	29.47	0.885	57.815	57M8G7D
	16QAM	/	/	/	57.881	57M9W7D
	64QAM	/	/	/	57.864	57M9W7D
	256QAM	/	/	/	57.852	57M9W7D
	CP-QPSK	/	/	/	57.814	57M8G7D
80	PI/2 BPSK	/	/	/	77.056	77M1G7D
	QPSK	26.71	29.36	0.863	77.191	77M2G7D
	16QAM	/	/	/	77.224	77M2W7D
	64QAM	/	/	/	77.036	77M0W7D
	256QAM	/	/	/	77.047	77M1W7D
	CP-QPSK	/	/	/	77.167	77M2G7D
100	PI/2 BPSK	26.88	29.53	0.897	96.306	96M3G7D
	QPSK	26.93	29.58	0.908	96.371	96M4G7D
	16QAM	25.50	28.15	0.653	96.509	96M5W7D
	64QAM	23.80	26.45	0.442	96.400	96M4W7D
	256QAM	21.92	24.57	0.286	96.330	96M3W7D
	CP-QPSK	/	/	/	96.334	96M3G7D

n77(3700-3980MHz)(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	24.10	26.75	0.473	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	24.15	26.80	0.479	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/



	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	24.19	26.84	0.483	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	24.01	26.66	0.463	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	23.77	26.42	0.439	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	23.95	26.60	0.457	/	/
	QPSK	23.90	26.55	0.452	/	/
	16QAM	23.66	26.31	0.428	/	/
	64QAM	23.60	26.25	0.422	/	/
	256QAM	/	/	/	/	/

n78(3450-3550MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	27.05	27.02	0.504	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	27.19	27.16	0.520	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/



	QPSK	27.15	27.12	0.515	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	26.64	26.61	0.458	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	26.64	26.61	0.458	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	26.54	26.51	0.448	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	26.26	26.23	0.420	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	26.15	26.12	0.409	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	26.80	26.77	0.475	/	/
	QPSK	26.83	26.80	0.479	/	/
	16QAM	25.06	25.03	0.318	/	/
	64QAM	23.55	23.52	0.225	/	/
	256QAM	21.54	21.51	0.142	/	/

n78(3450-3550MHz)(PC3)



Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	24.10	24.07	0.255	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	24.16	24.13	0.259	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	24.09	24.06	0.255	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	23.66	23.63	0.231	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	23.66	23.63	0.231	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	23.53	23.50	0.224	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	23.38	23.35	0.216	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/



	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	23.19	23.16	0.207	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	23.85	23.82	0.241	/	/
	QPSK	23.78	23.75	0.237	/	/
	16QAM	23.06	23.03	0.201	/	/
	64QAM	23.04	23.01	0.200	/	/
	256QAM	21.44	21.41	0.138	/	/

n78(3700-3800MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	27.10	27.07	0.509	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	27.25	27.22	0.527	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	27.36	27.33	0.541	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	26.91	26.88	0.488	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/



	QPSK	26.77	26.74	0.472	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	26.60	26.57	0.454	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	26.56	26.53	0.450	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	26.58	26.55	0.452	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	26.70	26.67	0.465	/	/
	QPSK	26.71	26.68	0.466	/	/
	16QAM	25.27	25.24	0.334	/	/
	64QAM	23.65	23.62	0.230	/	/
	256QAM	21.77	21.74	0.149	/	/

n78(3700-3800MHz)(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	24.09	24.06	0.255	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	24.26	24.23	0.265	/	/
	16QAM	/	/	/	/	/



	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	24.38	24.35	0.272	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	23.95	23.92	0.247	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	23.75	23.72	0.236	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	23.54	23.51	0.224	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	23.59	23.56	0.227	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	23.55	23.52	0.225	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	23.68	23.65	0.232	/	/
	QPSK	23.69	23.66	0.232	/	/
	16QAM	23.55	23.52	0.225	/	/
	64QAM	23.45	23.42	0.220	/	/
	256QAM	21.76	21.73	0.149	/	/



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27, Part 90 and Part96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	Miscellaneous Wireless Communications Services
6	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

n2 & n25			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



n5& n26(824-849MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm	PASS

n7 & n38 & n41			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(m)(4)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n12			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n13			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(c)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n14			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.542(a) (7)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §90.543(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.543(f)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.543(c)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A

n26(814-824MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.635(b)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §90.691(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.691(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.691(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A



n30			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	ERP ≤250mW	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n48			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41(b)	Refer to section 2.1	PASS
Peak-Average Ratio	§96.39(g)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §96.41(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §96.41(e)	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §96.41(e)	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n66			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP \leq 1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit \leq 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	\leq -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	\leq -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n71			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP \leq 3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	\leq -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	\leq -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n77(3450~3550MHz) & n78(3450~3550MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP ≤ 1W	PASS
Peak-Average Ratio	§27.50(K)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(l)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n77(3700~3980MHz) & n78(3700~3800MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(n)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



Test detailed items/section required by FCC rules and results are as below:

Test Item	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and ERP/EIRP	Li Huaijie	PASS	Nodeviation
Occupied Bandwidth	Li Huaijie	PASS	Nodeviation
Frequency Stability	Li Huaijie	PASS	Nodeviation
Peak to Average Radio	Li Huaijie	PASS	Nodeviation
Conducted Spurious Emissions	Li Huaijie	PASS	Nodeviation
Band Edge	Li Huaijie	PASS	Nodeviation
Radiated Spurious Emissions	Yang Lian	PASS	Nodeviation
<p>Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.</p> <p>Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.</p> <p>Note 3: The declared of product specification for EUT presented in the report are provided by manufacturer and the test laboratory is not responsible for the accuracy of the information.</p> <p>Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.</p>			

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60



2. Summary Test Results And Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for n2, n25, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

According to FCC section 27.50 (d)(4) for n66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 22.913 (a)(5) for n5, n26(824-849MHz), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for n7, n38, n41, mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50(c)(10) for n12, n71, Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to FCC section 27.50 (b)(10)for n13, Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts E.R.P.

According to FCC section 90.542 (a)(7)for n14, Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

According to FCC section 90.635(b) for n26 (814-824MHz), the maximum output power of the transmitter for mobile stations is 100 watts.

According to FCC section 27.50 (a)(3)for n30, Mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average E.I.R.P. must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth.

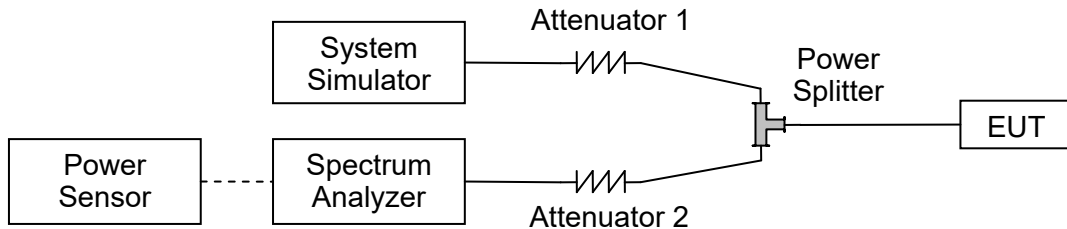
According to FCC section 96.41(b) for n48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. Paragraph

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

According to FCC section 27.50(j)(3) for n77(3700-3980MHz), n78(3700-3800MHz), mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.



2.1.4. Conducted Output Power

n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.51	23.35	23.06
20		1	53	23.50	23.20	23.12
20		1	104	23.41	23.11	23.05
20		50	1	23.06	22.88	22.70
20		50	25	23.56	23.32	23.18
20		50	50	23.02	22.75	22.62
20		100	0	23.08	22.82	22.67
20	DFT-s-OFDM QPSK	1	1	23.47	23.35	23.09
20		1	53	23.50	23.34	23.17
20		1	104	23.38	23.12	23.02
20		50	1	22.57	22.33	22.16
20		50	25	23.54	23.33	23.12
20		50	50	22.54	22.28	22.10
20		100	0	22.58	22.35	22.14
20	DFT-s-OFDM 16QAM	1	1	22.43	22.33	22.04
20	DFT-s-OFDM 64QAM	1	1	20.99	20.84	20.60
20	DFT-s-OFDM 256QAM	1	1	18.78	18.65	18.38
20	CP-OFDM QPSK	1	1	21.97	21.80	21.57
20	CP-OFDM 16QAM	1	1	21.45	21.30	21.05
20	CP-OFDM 64QAM	1	1	19.78	19.63	19.43
20	CP-OFDM 256QAM	1	1	16.78	16.62	16.39
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.51	23.36	23.15
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.45	23.36	23.03
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.50	23.34	22.96



n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.62	22.59	22.57
20		1	53	22.59	22.56	22.55
20		1	104	22.45	22.42	22.40
20		50	1	22.43	22.42	22.42
20		50	25	22.64	22.67	22.66
20		50	50	22.33	22.29	22.29
20		100	0	22.38	22.40	22.39
20	DFT-s-OFDM QPSK	1	1	22.56	22.64	22.61
20		1	53	22.59	22.62	22.65
20		1	104	22.48	22.46	22.55
20		50	1	21.99	21.94	21.90
20		50	25	22.65	22.64	22.61
20		50	50	21.82	21.82	21.80
20		100	0	21.88	21.91	21.86
20	DFT-s-OFDM 16QAM	1	1	21.89	21.85	21.94
20	DFT-s-OFDM 64QAM	1	1	20.28	20.26	20.39
20	DFT-s-OFDM 256QAM	1	1	18.11	18.09	18.23
20	CP-OFDM QPSK	1	1	21.31	21.33	21.45
20	CP-OFDM 16QAM	1	1	20.83	20.78	20.88
20	CP-OFDM 64QAM	1	1	18.95	18.92	19.03
20	CP-OFDM 256QAM	1	1	16.13	16.13	16.20
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.60	22.54	22.61
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.41	22.42	22.42
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.45	22.45	22.47



n7						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	22.48	22.21	22.57
20		1	53	22.47	22.38	22.68
20		1	104	22.30	22.62	22.97
20		50	1	22.00	22.02	22.33
20		50	25	22.58	22.56	22.95
20		50	50	21.95	22.05	22.55
20		100	0	22.06	22.05	22.40
20	DFT-s-OFDM QPSK	1	1	22.48	22.72	22.91
20		1	53	22.61	22.76	23.19
20		1	104	22.71	22.83	23.24
20		50	1	21.53	21.51	21.82
20		50	25	22.61	22.60	22.97
20		50	50	21.50	21.59	22.09
20		100	0	21.59	21.56	21.98
20	DFT-s-OFDM 16QAM	1	1	21.40	21.12	21.55
20	DFT-s-OFDM 64QAM	1	1	19.95	19.86	20.10
20	DFT-s-OFDM 256QAM	1	1	17.79	17.70	17.96
20	CP-OFDM QPSK	1	1	21.03	20.95	21.15
20	CP-OFDM 16QAM	1	1	20.48	20.32	20.58
20	CP-OFDM 64QAM	1	1	18.90	18.97	19.01
20	CP-OFDM 256QAM	1	1	15.78	15.64	15.92
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	22.54	22.38	22.77
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	22.33	22.24	22.68
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM QPSK	1	1	22.65	22.26	22.73



n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.72	22.76	22.76
15		1	39	22.76	22.79	22.76
15		1	77	22.72	22.70	22.65
15		36	1	22.33	22.33	22.32
15		36	18	22.85	22.82	22.80
15		36	37	22.26	22.28	22.26
15		75	0	22.32	22.37	22.37
15	DFT-s-OFDM QPSK	1	1	22.76	22.75	22.73
15		1	39	22.80	22.77	22.80
15		1	77	22.62	22.68	22.68
15		36	1	21.81	21.83	21.81
15		36	18	22.84	22.84	22.87
15		36	37	21.80	21.80	21.76
15	75	0	21.83	21.83	21.85	
15	DFT-s-OFDM 16QAM	1	1	21.80	21.81	21.80
15	DFT-s-OFDM 64QAM	1	1	20.23	20.21	20.23
15	DFT-s-OFDM 256QAM	1	1	18.04	18.01	18.02
15	CP-OFDM QPSK	1	1	21.17	21.16	21.15
15	CP-OFDM 16QAM	1	1	20.72	20.71	20.70
15	CP-OFDM 64QAM	1	1	18.82	18.82	18.79
15	CP-OFDM 256QAM	1	1	15.77	15.77	15.73
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.68	22.70	22.63
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.60	22.55



n13						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	156400	/
Frequency (MHz)				/	782	/
10	DFT-s-OFDM PI/2 BPSK	1	1	/	22.83	/
10		1	26	/	22.71	/
10		1	50	/	22.90	/
10		25	1	/	22.33	/
10		25	12	/	22.88	/
10		25	25	/	22.46	/
10		50	0	/	22.42	/
10	DFT-s-OFDM QPSK	1	1	/	22.77	/
10		1	26	/	22.75	/
10		1	50	/	22.84	/
10		25	1	/	21.87	/
10		25	12	/	22.84	/
10		25	25	/	21.88	/
10		50	0	/	21.83	/
10	DFT-s-OFDM 16QAM	1	1	/	21.65	/
10	DFT-s-OFDM 64QAM	1	1	/	20.33	/
10	DFT-s-OFDM 256QAM	1	1	/	18.14	/
10	CP-OFDM QPSK	1	1	/	21.24	/
10	CP-OFDM 16QAM	1	1	/	20.71	/
10	CP-OFDM 64QAM	1	1	/	19.29	/
10	CP-OFDM 256QAM	1	1	/	15.95	/
Channel				155900	156400	156900
Frequency (MHz)				779.5	782	784.5
5	DFT-s-OFDM QPSK	1	1	22.75	22.86	22.70



n14						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	158600	/
Frequency (MHz)				/	793	/
10	DFT-s-OFDM PI/2 BPSK	1	1	/	22.90	/
10		1	26	/	22.71	/
10		1	50	/	22.65	/
10		25	1	/	22.30	/
10		25	12	/	22.85	/
10		25	25	/	22.30	/
10		50	0	/	22.36	/
10	DFT-s-OFDM QPSK	1	1	/	22.88	/
10		1	26	/	22.73	/
10		1	50	/	22.66	/
10		25	1	/	21.83	/
10		25	12	/	22.77	/
10		25	25	/	21.75	/
10		50	0	/	21.78	/
10	DFT-s-OFDM 16QAM	1	1	/	21.92	/
10	DFT-s-OFDM 64QAM	1	1	/	20.36	/
10	DFT-s-OFDM 256QAM	1	1	/	18.00	/
10	CP-OFDM QPSK	1	1	/	21.31	/
10	CP-OFDM 16QAM	1	1	/	20.82	/
10	CP-OFDM 64QAM	1	1	/	18.95	/
10	CP-OFDM 256QAM	1	1	/	16.00	/
Channel				158100	158600	159100
Frequency (MHz)				790.5	793	795.5
5	DFT-s-OFDM QPSK	1	1	22.90	22.83	22.76



n25						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM PI/2 BPSK	1	1	23.43	23.29	23.05
20		1	53	23.42	23.20	23.04
20		1	104	23.36	23.06	23.00
20		50	1	22.98	22.77	22.58
20		50	25	23.54	23.29	23.11
20		50	50	22.94	22.72	22.62
20		100	0	23.01	22.77	22.60
20	DFT-s-OFDM QPSK	1	1	23.55	23.23	23.01
20		1	53	23.53	23.14	23.04
20		1	104	23.35	23.16	23.06
20		50	1	22.53	22.34	22.14
20		50	25	23.51	23.31	23.14
20		50	50	22.47	22.21	22.17
20		100	0	22.54	22.33	22.16
20	DFT-s-OFDM 16QAM	1	1	22.40	22.24	22.03
20	DFT-s-OFDM 64QAM	1	1	20.95	20.76	20.57
20	DFT-s-OFDM 256QAM	1	1	18.77	18.64	18.36
20	CP-OFDM QPSK	1	1	21.91	21.76	21.50
20	CP-OFDM 16QAM	1	1	21.39	21.22	20.95
20	CP-OFDM 64QAM	1	1	19.75	19.56	19.32
20	CP-OFDM 256QAM	1	1	16.78	16.57	16.37
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.61	23.29	23.00
Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.20	23.07	22.77
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.25	23.21	22.77



n26(814-824MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	163800	/
Frequency (MHz)				/	819	/
10	DFT-s-OFDM PI/2 BPSK	1	1	/	22.65	/
10		1	26	/	22.63	/
10		1	50	/	22.53	/
10		25	1	/	22.43	/
10		25	12	/	22.66	/
10		25	25	/	22.38	/
10		50	0	/	22.43	/
10	DFT-s-OFDM QPSK	1	1	/	22.62	/
10		1	26	/	22.61	/
10		1	50	/	22.57	/
10		25	1	/	21.93	/
10		25	12	/	22.61	/
10		25	25	/	21.88	/
10		50	0	/	21.91	/
10	DFT-s-OFDM 16QAM	1	1	/	21.94	/
10	DFT-s-OFDM 64QAM	1	1	/	20.36	/
10	DFT-s-OFDM 256QAM	1	1	/	18.14	/
10	CP-OFDM QPSK	1	1	/	21.30	/
10	CP-OFDM 16QAM	1	1	/	20.83	/
10	CP-OFDM 64QAM	1	1	/	18.96	/
10	CP-OFDM 256QAM	1	1	/	16.15	/
Channel				163300	163800	164300
Frequency (MHz)				816.5	819	821.5
5	DFT-s-OFDM QPSK	1	1	22.61	22.60	22.58



n26(824-849MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.72	22.70
20		1	53	22.75	22.71	22.70
20		1	104	22.61	22.68	22.61
20		50	1	22.54	22.58	22.57
20		50	25	22.78	22.76	22.73
20		50	50	22.54	22.47	22.53
20		100	0	22.54	22.56	22.53
20	DFT-s-OFDM QPSK	1	1	22.75	22.72	22.71
20		1	53	22.77	22.71	22.71
20		1	104	22.58	22.67	22.59
20		50	1	22.11	22.08	22.07
20		50	25	22.80	22.78	22.70
20		50	50	22.00	21.97	22.05
20		100	0	22.06	22.06	22.03
20	DFT-s-OFDM 16QAM	1	1	22.00	22.02	22.11
20	DFT-s-OFDM 64QAM	1	1	20.44	20.42	20.53
20	DFT-s-OFDM 256QAM	1	1	18.27	18.24	18.34
20	CP-OFDM QPSK	1	1	21.43	21.41	21.56
20	CP-OFDM 16QAM	1	1	20.94	20.94	21.01
20	CP-OFDM 64QAM	1	1	19.11	19.08	19.16
20	CP-OFDM 256QAM	1	1	16.29	16.28	16.34
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.74	22.78	22.71
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.55	22.58	22.58
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.56	22.56	22.49



n30						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	462000	/
Frequency (MHz)				/	2310	/
10	DFT-s-OFDM PI/2 BPSK	1	1	/	23.34	/
10		1	26	/	23.38	/
10		1	50	/	23.24	/
10		25	1	/	22.90	/
10		25	12	/	23.34	/
10		25	25	/	22.80	/
10		50	0	/	22.87	/
10	DFT-s-OFDM QPSK	1	1	/	23.54	/
10		1	26	/	23.48	/
10		1	50	/	23.40	/
10		25	1	/	22.37	/
10		25	12	/	23.35	/
10		25	25	/	22.32	/
10		50	0	/	22.38	/
10	DFT-s-OFDM 16QAM	1	1	/	22.51	/
10	DFT-s-OFDM 64QAM	1	1	/	21.12	/
10	DFT-s-OFDM 256QAM	1	1	/	18.58	/
10	CP-OFDM QPSK	1	1	/	22.01	/
10	CP-OFDM 16QAM	1	1	/	21.49	/
10	CP-OFDM 64QAM	1	1	/	20.08	/
10	CP-OFDM 256QAM	1	1	/	16.82	/
Channel				461500	462000	462500
Frequency (MHz)				2307.5	2310	2312.5
5	DFT-s-OFDM QPSK	1	1	23.19	23.45	22.44



n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.95	23.18
40		1	53	23.20	23.28	23.51
40		1	104	23.60	23.69	23.73
40		50	1	22.66	22.68	22.84
40		50	25	23.26	23.35	23.55
40		50	50	22.95	22.97	23.12
40		100	0	22.79	22.85	22.97
40	DFT-s-OFDM QPSK	1	1	22.88	22.93	23.15
40		1	53	23.17	23.27	23.53
40		1	104	23.55	23.66	23.79
40		50	1	22.10	22.15	22.33
40		50	25	23.23	23.32	23.51
40		50	50	22.43	22.52	22.63
40		100	0	22.27	22.35	22.45
40	DFT-s-OFDM 16QAM	1	1	21.90	22.00	22.19
40	DFT-s-OFDM 64QAM	1	1	20.36	20.47	20.70
40	DFT-s-OFDM 256QAM	1	1	18.41	18.33	18.54
40	CP-OFDM QPSK	1	1	21.39	21.36	21.67
40	CP-OFDM 16QAM	1	1	20.93	20.94	21.20
40	CP-OFDM 64QAM	1	1	19.46	19.57	19.84
40	CP-OFDM 256QAM	1	1	16.46	16.36	16.64
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	22.71	23.06	23.31
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	22.82	23.05	23.37



n41						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	25.84	24.58	25.31
100		1	136	25.55	25.37	25.30
100		1	271	26.04	25.30	25.00
100		135	1	25.25	24.83	24.93
100		135	67	25.68	25.44	25.36
100		135	136	25.25	24.94	24.72
100		270	0	25.24	24.87	24.83
100	DFT-s-OFDM QPSK	1	1	25.98	24.39	25.39
100		1	136	25.68	25.33	25.34
100		1	271	26.05	25.11	24.98
100		135	1	24.74	24.31	24.43
100		135	67	25.68	25.44	25.40
100		135	136	24.78	24.42	24.19
100		270	0	24.75	24.34	24.32
100	DFT-s-OFDM 16QAM	1	1	24.92	23.99	24.40
100	DFT-s-OFDM 64QAM	1	1	23.46	22.81	22.83
100	DFT-s-OFDM 256QAM	1	1	21.33	20.60	20.64
100	CP-OFDM QPSK	1	1	24.31	23.64	23.83
100	CP-OFDM 16QAM	1	1	23.79	23.01	23.15
100	CP-OFDM 64QAM	1	1	22.61	21.89	21.92
100	CP-OFDM 256QAM	1	1	19.25	18.66	18.67
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.76	24.53	25.50
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.80	24.54	25.48
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	25.85	24.72	25.27
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	26.01	24.97	25.65
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.14	25.40	25.70
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	26.24	25.60	25.74



Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.27	25.59	25.72
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	26.26	25.69	25.50

n41(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.98	23.19	23.20
100		1	136	22.55	23.26	23.21
100		1	271	23.10	23.19	22.89
100		135	1	22.75	23.24	23.39
100		135	67	22.65	23.34	23.34
100		135	136	22.70	23.34	23.11
100		270	0	22.73	23.29	23.22
100	DFT-s-OFDM QPSK	1	1	22.96	23.15	23.22
100		1	136	22.53	23.30	23.13
100		1	271	23.04	23.20	22.93
100		135	1	22.70	23.24	23.33
100		135	67	22.59	23.34	23.31
100		135	136	22.72	23.33	23.07
100	270	0	22.74	23.25	23.24	
100	DFT-s-OFDM 16QAM	1	1	23.02	23.25	23.29
100	DFT-s-OFDM 64QAM	1	1	22.99	22.64	22.76
100	DFT-s-OFDM 256QAM	1	1	21.33	20.59	20.58
100	CP-OFDM QPSK	1	1	22.88	23.23	23.23
100	CP-OFDM 16QAM	1	1	22.92	23.08	23.10
100	CP-OFDM 64QAM	1	1	22.56	21.99	21.88
100	CP-OFDM 256QAM	1	1	19.44	18.64	18.68
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.80	23.04	23.29
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.87	23.09	23.25
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	23.00	23.13	23.24
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98



60	DFT-s-OFDM QPSK	1	1	22.99	23.32	23.48
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	23.21	23.42	23.61
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	23.24	23.53	23.54
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	23.23	23.50	23.61
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	23.06	23.48	23.43

n48 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	22.97	22.97	22.66
40		1	53	22.92	22.88	22.56
40		1	104	22.90	22.84	22.65
40		50	1	22.45	22.43	22.17
40		50	25	22.97	22.84	22.65
40		50	50	22.44	22.29	22.10
40		100	0	22.38	22.38	22.13
40	DFT-s-OFDM QPSK	1	1	22.94	22.98	22.66
40		1	53	22.91	22.80	22.58
40		1	104	22.89	22.84	22.65
40		50	1	21.92	21.93	21.69
40		50	25	22.92	22.84	22.64
40		50	50	21.92	21.75	21.63
40		100	0	21.92	21.83	21.66
40	DFT-s-OFDM 16QAM	1	1	21.84	21.91	21.62
40	DFT-s-OFDM 64QAM	1	1	20.17	20.25	19.94
40	DFT-s-OFDM 256QAM	1	1	18.33	18.33	18.07
40	CP-OFDM QPSK	1	1	21.54	21.49	21.18
40	CP-OFDM 16QAM	1	1	20.98	20.99	20.67
40	CP-OFDM 64QAM	1	1	19.51	19.39	19.07
40	CP-OFDM 256QAM	1	1	16.40	16.40	16.12
Channel				637668	641666	645666
Frequency (MHz)				3565.02	3624.99	3684.99
30	DFT-s-OFDM QPSK	1	1	22.70	22.76	22.78



Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM QPSK	1	1	22.94	22.85	22.60
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	22.30	22.39	22.32

n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.77	22.77
30		1	80	22.66	22.76	22.82
30		1	158	22.72	22.74	22.76
30		80	1	22.33	22.31	22.35
30		80	40	22.78	22.81	22.83
30		80	80	22.32	22.40	22.40
30		160	0	22.26	22.31	22.40
30		DFT-s-OFDM QPSK	1	1	22.95	22.84
30	1		80	22.83	22.82	22.76
30	1		158	22.95	22.97	22.84
30	80		1	21.80	21.77	21.81
30	80		40	22.76	22.77	22.89
30	80		80	21.87	21.94	21.86
30	160	0	21.79	21.86	21.86	
30	DFT-s-OFDM 16QAM	1	1	21.94	21.90	21.96
30	DFT-s-OFDM 64QAM	1	1	20.49	20.43	20.51
30	DFT-s-OFDM 256QAM	1	1	17.98	16.54	16.61
30	CP-OFDM QPSK	1	1	21.33	21.33	21.46
30	CP-OFDM 16QAM	1	1	20.83	20.83	20.86
30	CP-OFDM 64QAM	1	1	19.35	19.37	19.49
30	CP-OFDM 256QAM	1	1	16.00	16.34	16.37
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.95	22.88	22.69
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.89	22.80	22.68
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.85	22.90	22.68
Channel				342500	349000	355500



Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.06	22.63	22.83

n71						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.65	22.77	22.35
20		1	53	22.69	22.74	22.62
20		1	104	22.73	22.70	22.66
20		50	1	22.25	22.18	22.25
20		50	25	22.74	22.81	22.67
20		50	50	22.32	22.15	22.24
20		100	0	22.25	22.26	22.16
20		DFT-s-OFDM QPSK	1	1	22.70	22.82
20	1		53	22.77	22.73	22.69
20	1		104	22.70	22.63	22.68
20	50		1	21.67	21.76	21.71
20	50		25	22.82	22.78	22.68
20	50		50	21.78	21.74	21.67
20	100		0	21.73	21.77	21.75
20	DFT-s-OFDM 16QAM		1	1	21.74	21.80
20	DFT-s-OFDM 64QAM	1	1	20.36	20.56	20.53
20	DFT-s-OFDM 256QAM	1	1	17.12	17.20	17.36
20	CP-OFDM QPSK	1	1	21.20	21.28	21.30
20	CP-OFDM 16QAM	1	1	20.72	20.69	20.79
20	CP-OFDM 64QAM	1	1	19.23	19.36	19.36
20	CP-OFDM 256QAM	1	1	15.32	15.46	15.49
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.70	22.78	22.76
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.68	22.65	22.68
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.71	22.50	22.67



n77(3450-3550MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	26.02	/
100		1	136	/	26.45	/
100		1	271	/	26.77	/
100		135	1	/	25.78	/
100		135	67	/	26.42	/
100		135	136	/	26.15	/
100		270	0	/	25.97	/
100	DFT-s-OFDM QPSK	1	1	/	25.99	/
100		1	136	/	26.40	/
100		1	271	/	26.75	/
100		135	1	/	25.27	/
100		135	67	/	26.47	/
100		135	136	/	25.67	/
100		270	0	/	25.41	/
100	DFT-s-OFDM 16QAM	1	1	/	25.11	/
100	DFT-s-OFDM 64QAM	1	1	/	23.46	/
100	DFT-s-OFDM 256QAM	1	1	/	21.37	/
100	CP-OFDM QPSK	1	1	/	24.43	/
100	CP-OFDM 16QAM	1	1	/	24.01	/
100	CP-OFDM 64QAM	1	1	/	22.59	/
100	CP-OFDM 256QAM	1	1	/	19.44	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.99	26.06	26.20
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.15	26.28	26.57
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.52	26.66	27.04
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.33	26.81	27.11
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.32	26.56	26.97



n77(3450-3550MHz)(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.01	/
100		1	136	/	23.44	/
100		1	271	/	23.90	/
100		135	1	/	23.27	/
100		135	67	/	23.46	/
100		135	136	/	23.65	/
100		270	0	/	23.43	/
100		DFT-s-OFDM QPSK	1	1	/	22.94
100	1		136	/	23.36	/
100	1		271	/	23.81	/
100	135		1	/	23.24	/
100	135		67	/	23.40	/
100	135		136	/	23.61	/
100	270		0	/	23.38	/
100	DFT-s-OFDM 16QAM		1	1	/	23.10
100	DFT-s-OFDM 64QAM	1	1	/	23.00	/
100	DFT-s-OFDM 256QAM	1	1	/	21.34	/
100	CP-OFDM QPSK	1	1	/	22.96	/
100	CP-OFDM 16QAM	1	1	/	23.01	/
100	CP-OFDM 64QAM	1	1	/	22.52	/
100	CP-OFDM 256QAM	1	1	/	19.40	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	22.89	23.00	23.24
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.56	23.40	23.58
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.43	23.74	24.07
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.38	23.84	24.24
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.29	23.69	23.98



n77(3700-3980MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	26.46	26.45	26.59
100		1	136	26.68	26.62	26.78
100		1	271	26.58	26.55	26.77
100		135	1	26.13	26.15	26.33
100		135	67	26.76	26.64	26.88
100		135	136	26.17	26.14	26.39
100		270	0	26.18	26.20	26.33
100	DFT-s-OFDM QPSK	1	1	26.45	26.49	26.67
100		1	136	26.68	26.63	26.93
100		1	271	26.58	26.69	26.79
100		135	1	25.62	25.56	25.80
100		135	67	26.73	26.65	26.89
100		135	136	25.65	25.66	25.85
100		270	0	25.67	25.67	25.84
100	DFT-s-OFDM 16QAM	1	1	25.35	25.36	25.50
100	DFT-s-OFDM 64QAM	1	1	23.79	23.80	23.72
100	DFT-s-OFDM 256QAM	1	1	21.83	21.85	21.92
100	CP-OFDM QPSK	1	1	24.91	25.01	25.08
100	CP-OFDM 16QAM	1	1	24.46	24.51	24.55
100	CP-OFDM 64QAM	1	1	22.87	22.95	23.11
100	CP-OFDM 256QAM	1	1	19.92	19.92	20.04
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.39	26.46	26.71
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.59	26.67	26.82
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	27.12	27.05	26.92
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.85	26.98	27.19
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.83	26.97	27.13



n77(3700-3980MHz)(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	23.56	23.50	23.57
100		1	136	23.72	23.72	23.87
100		1	271	23.53	23.61	23.86
100		135	1	23.69	23.64	23.80
100		135	67	23.76	23.63	23.87
100		135	136	23.65	23.68	23.95
100		270	0	23.67	23.69	23.85
100	DFT-s-OFDM QPSK	1	1	23.52	23.52	23.53
100		1	136	23.73	23.69	23.87
100		1	271	23.54	23.65	23.84
100		135	1	23.62	23.66	23.77
100		135	67	23.72	23.64	23.88
100		135	136	23.65	23.64	23.90
100		270	0	23.66	23.68	23.79
100	DFT-s-OFDM 16QAM	1	1	23.62	23.66	23.63
100	DFT-s-OFDM 64QAM	1	1	23.60	23.52	23.60
100	DFT-s-OFDM 256QAM	1	1	21.92	21.86	21.95
100	CP-OFDM QPSK	1	1	23.50	23.52	23.59
100	CP-OFDM 16QAM	1	1	23.54	23.52	23.55
100	CP-OFDM 64QAM	1	1	23.18	23.11	23.11
100	CP-OFDM 256QAM	1	1	20.02	19.94	20.01
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	23.58	23.53	23.77
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	23.69	23.68	24.01
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	24.19	24.08	24.06
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	23.91	24.02	24.15
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	23.88	23.93	24.10



n78(3450-3550MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	26.02	/
100		1	136	/	26.57	/
100		1	271	/	26.80	/
100		135	1	/	25.87	/
100		135	67	/	26.66	/
100		135	136	/	26.20	/
100		270	0	/	26.07	/
100	DFT-s-OFDM QPSK	1	1	/	26.00	/
100		1	136	/	26.58	/
100		1	271	/	26.83	/
100		135	1	/	25.39	/
100		135	67	/	26.62	/
100		135	136	/	25.72	/
100		270	0	/	25.55	/
100	DFT-s-OFDM 16QAM	1	1	/	25.06	/
100	DFT-s-OFDM 64QAM	1	1	/	23.55	/
100	DFT-s-OFDM 256QAM	1	1	/	21.54	/
100	CP-OFDM QPSK	1	1	/	24.60	/
100	CP-OFDM 16QAM	1	1	/	24.03	/
100	CP-OFDM 64QAM	1	1	/	22.64	/
100	CP-OFDM 256QAM	1	1	/	19.53	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	26.02	26.15	26.14
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.06	26.17	26.26
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	26.11	26.29	26.54
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.26	26.49	26.64
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	16.67	26.46	26.64
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98



40	DFT-s-OFDM QPSK	1	1	26.66	26.87	27.15
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.52	26.85	27.19
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.56	26.80	27.05

n78(3450-3550MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.04	/
100		1	136	/	23.62	/
100		1	271	/	23.85	/
100		135	1	/	23.33	/
100		135	67	/	23.58	/
100		135	136	/	23.65	/
100		270	0	/	23.55	/
100	DFT-s-OFDM QPSK	1	1	/	23.03	/
100		1	136	/	23.52	/
100		1	271	/	23.78	/
100		135	1	/	23.29	/
100		135	67	/	23.61	/
100		135	136	/	23.70	/
100	270	0	/	23.59	/	
100	DFT-s-OFDM 16QAM	1	1	/	23.06	/
100	DFT-s-OFDM 64QAM	1	1	/	23.04	/
100	DFT-s-OFDM 256QAM	1	1	/	21.44	/
100	CP-OFDM QPSK	1	1	/	22.99	/
100	CP-OFDM 16QAM	1	1	/	23.06	/
100	CP-OFDM 64QAM	1	1	/	22.65	/
100	CP-OFDM 256QAM	1	1	/	19.48	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	23.07	23.05	23.19
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.13	23.16	23.38
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	23.09	23.17	23.53
Channel				632000	633334	634666



Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.25	23.43	23.66
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	23.09	23.49	23.66
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.53	23.83	24.09
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.33	23.93	24.16
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.51	23.82	24.10

n78(3700-3800MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	26.46	/
100		1	136	/	26.68	/
100		1	271	/	26.56	/
100		135	1	/	26.14	/
100		135	67	/	26.70	/
100		135	136	/	26.18	/
100		270	0	/	26.18	/
100	DFT-s-OFDM QPSK	1	1	/	26.30	/
100		1	136	/	26.71	/
100		1	271	/	26.57	/
100		135	1	/	25.60	/
100		135	67	/	26.71	/
100		135	136	/	25.68	/
100		270	0	/	25.67	/
100	DFT-s-OFDM 16QAM	1	1	/	25.27	/
100	DFT-s-OFDM 64QAM	1	1	/	23.65	/
100	DFT-s-OFDM 256QAM	1	1	/	21.77	/
100	CP-OFDM QPSK	1	1	/	25.02	/
100	CP-OFDM 16QAM	1	1	/	24.40	/
100	CP-OFDM 64QAM	1	1	/	22.83	/
100	CP-OFDM 256QAM	1	1	/	19.84	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98



90	DFT-s-OFDM QPSK	1	1	26.37	26.44	26.58
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	26.38	26.46	26.56
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	26.44	26.60	26.49
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	26.52	26.60	26.77
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	26.53	26.63	26.91
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	27.01	27.13	27.36
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	26.80	27.01	27.25
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	26.82	26.99	27.10

n78(3700-3800MHz)(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.44	/
100		1	136	/	23.68	/
100		1	271	/	23.55	/
100		135	1	/	23.63	/
100		135	67	/	23.68	/
100		135	136	/	23.62	/
100		270	0	/	23.65	/
100		DFT-s-OFDM QPSK	1	1	/	23.38
100	1		136	/	23.68	/
100	1		271	/	23.47	/
100	135		1	/	23.60	/
100	135		67	/	23.69	/
100	135		136	/	23.59	/
100	270		0	/	23.65	/
100	DFT-s-OFDM 16QAM		1	1	/	23.55
100	DFT-s-OFDM 64QAM	1	1	/	23.45	/



100	DFT-s-OFDM 256QAM	1	1	/	21.76	/
100	CP-OFDM QPSK	1	1	/	23.41	/
100	CP-OFDM 16QAM	1	1	/	23.41	/
100	CP-OFDM 64QAM	1	1	/	22.98	/
100	CP-OFDM 256QAM	1	1	/	19.91	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	23.39	23.50	23.55
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	23.45	23.44	23.59
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	23.37	23.42	23.54
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	23.60	23.63	23.75
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	23.56	23.63	23.95
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.01	24.15	24.38
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	23.79	24.05	24.26
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	23.80	23.84	24.09



B5_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.47	23.52	23.48
20		1	53	23.55	23.52	23.47
20		1	104	23.56	23.50	23.40
20		50	1	23.21	23.11	23.10
20		50	25	23.73	23.65	23.64
20		50	50	23.14	23.17	23.10
20		100	0	23.21	23.15	23.05
20	DFT-s-OFDM QPSK	1	1	23.60	23.55	23.49
20		1	53	23.61	23.49	23.45
20		1	104	23.55	23.50	23.41
20		50	1	22.71	22.67	22.28
20		50	25	23.70	23.65	23.59
20		50	50	22.68	22.62	22.59
20		100	0	22.73	22.63	22.64
20	DFT-s-OFDM 16QAM	1	1	22.83	22.63	22.70
20	DFT-s-OFDM 64QAM	1	1	21.14	21.07	21.00
20	DFT-s-OFDM 256QAM	1	1	18.83	18.87	18.82
20	CP-OFDM QPSK	1	1	22.08	22.15	22.10
20	CP-OFDM 16QAM	1	1	21.82	21.84	21.78
20	CP-OFDM 64QAM	1	1	20.18	20.11	20.20
20	CP-OFDM 256QAM	1	1	16.93	16.84	16.87
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.60	23.70	23.61
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.45	23.50	23.47
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	19.71	23.50	23.26



B7_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.38	23.38	23.30
20		1	53	23.46	23.27	23.19
20		1	104	23.41	23.23	23.22
20		50	1	22.93	22.90	22.95
20		50	25	23.53	23.31	23.31
20		50	50	22.95	22.93	22.77
20		100	0	22.87	22.87	22.84
20		DFT-s-OFDM QPSK	1	1	23.40	23.33
20	1		53	23.40	23.29	23.21
20	1		104	23.44	23.23	23.24
20	50		1	22.35	22.44	22.36
20	50		25	23.36	23.42	23.37
20	50		50	22.45	22.38	22.36
20	100		0	22.39	22.42	22.46
20	DFT-s-OFDM 16QAM		1	1	22.30	22.49
20	DFT-s-OFDM 64QAM	1	1	21.17	20.94	20.79
20	DFT-s-OFDM 256QAM	1	1	18.56	18.61	18.57
20	CP-OFDM QPSK	1	1	21.87	21.95	21.86
20	CP-OFDM 16QAM	1	1	21.41	21.53	21.47
20	CP-OFDM 64QAM	1	1	19.79	19.83	19.80
20	CP-OFDM 256QAM	1	1	16.65	16.68	16.67
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.40	23.49	23.40
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.16	23.26	23.17
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.15	23.30	23.15



B12_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.65	23.59	23.60
20		1	53	23.65	23.52	23.52
20		1	104	23.63	23.50	23.42
20		50	1	23.23	23.11	23.11
20		50	25	23.72	23.66	23.70
20		50	50	23.24	23.18	23.05
20		100	0	23.17	23.17	23.09
20	DFT-s-OFDM QPSK	1	1	23.77	23.57	23.67
20		1	53	23.75	23.58	23.64
20		1	104	23.68	23.59	23.66
20		50	1	22.70	22.67	22.60
20		50	25	23.69	23.69	23.63
20		50	50	22.66	22.64	22.62
20		100	0	22.72	22.72	22.65
20	DFT-s-OFDM 16QAM	1	1	22.58	22.74	22.55
20	DFT-s-OFDM 64QAM	1	1	21.34	21.11	21.36
20	DFT-s-OFDM 256QAM	1	1	18.83	18.77	18.83
20	CP-OFDM QPSK	1	1	22.15	22.17	22.12
20	CP-OFDM 16QAM	1	1	21.90	21.86	21.84
20	CP-OFDM 64QAM	1	1	20.17	20.12	20.19
20	CP-OFDM 256QAM	1	1	16.90	16.86	16.84
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.78	23.67	23.56
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.62	23.52	23.63
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.50	23.47	23.32



B13_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.62	23.55	23.52
20		1	53	23.67	23.56	23.54
20		1	104	23.70	23.52	23.44
20		50	1	23.20	23.16	23.14
20		50	25	23.72	23.69	23.69
20		50	50	23.25	23.15	23.06
20		100	0	23.22	23.21	23.11
20	DFT-s-OFDM QPSK	1	1	23.72	23.60	23.61
20		1	53	23.71	23.55	23.50
20		1	104	23.82	23.54	23.45
20		50	1	22.74	22.71	22.33
20		50	25	23.74	23.64	23.62
20		50	50	22.70	22.68	22.64
20		100	0	22.76	22.68	22.58
20	DFT-s-OFDM 16QAM	1	1	22.63	22.76	22.70
20	DFT-s-OFDM 64QAM	1	1	21.40	21.15	21.13
20	DFT-s-OFDM 256QAM	1	1	18.85	18.81	18.77
20	CP-OFDM QPSK	1	1	22.09	22.21	22.11
20	CP-OFDM 16QAM	1	1	21.97	21.78	21.87
20	CP-OFDM 64QAM	1	1	20.22	20.17	20.22
20	CP-OFDM 256QAM	1	1	16.86	16.91	16.86
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.81	23.77	23.69
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.53	23.51	23.53
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.36	23.69	23.38



B66_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.35	23.46	23.39
20		1	53	23.50	23.40	23.28
20		1	104	23.50	23.37	23.28
20		50	1	23.09	22.98	22.90
20		50	25	23.62	23.44	23.31
20		50	50	23.03	23.12	22.83
20		100	0	23.15	23.01	23.02
20	DFT-s-OFDM QPSK	1	1	23.43	23.49	23.41
20		1	53	23.51	23.40	23.27
20		1	104	23.52	23.40	23.34
20		50	1	22.52	22.61	22.41
20		50	25	23.57	23.52	23.41
20		50	50	22.63	22.45	22.39
20		100	0	22.60	22.64	22.56
20	DFT-s-OFDM 16QAM	1	1	22.58	22.55	22.49
20	DFT-s-OFDM 64QAM	1	1	20.92	20.98	20.88
20	DFT-s-OFDM 256QAM	1	1	18.67	18.75	18.60
20	CP-OFDM QPSK	1	1	22.00	22.04	21.95
20	CP-OFDM 16QAM	1	1	21.56	21.67	21.50
20	CP-OFDM 64QAM	1	1	19.96	20.03	19.83
20	CP-OFDM 256QAM	1	1	16.80	16.87	16.78
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.56	23.62	23.42
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.40	23.49	23.41
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.32	23.42	23.50



B71_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.69	23.60	23.46
20		1	53	23.62	23.52	23.50
20		1	104	23.65	23.52	23.42
20		50	1	23.17	23.20	23.12
20		50	25	23.76	23.74	23.58
20		50	50	23.20	23.17	23.04
20		100	0	23.18	23.16	23.07
20	DFT-s-OFDM QPSK	1	1	23.69	23.51	23.60
20		1	53	23.68	23.63	23.65
20		1	104	23.62	23.88	23.43
20		50	1	22.70	22.67	22.76
20		50	25	23.70	23.70	23.67
20		50	50	22.67	22.64	22.61
20		100	0	22.74	22.65	22.66
20	DFT-s-OFDM 16QAM	1	1	22.69	22.70	22.63
20	DFT-s-OFDM 64QAM	1	1	21.25	21.27	21.24
20	DFT-s-OFDM 256QAM	1	1	19.25	19.29	19.26
20	CP-OFDM QPSK	1	1	22.27	22.16	22.08
20	CP-OFDM 16QAM	1	1	21.74	21.55	21.68
20	CP-OFDM 64QAM	1	1	20.28	20.17	20.18
20	CP-OFDM 256QAM	1	1	17.38	17.35	17.28
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.63	23.57	23.51
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.39	23.51	23.61
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.40	23.53	23.69



B2_n5 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	23.04	23.06	23.15
20		1	53	23.02	23.00	22.95
20		1	104	22.90	22.85	22.75
20		50	1	22.67	22.61	22.60
20		50	25	23.09	23.08	23.04
20		50	50	22.51	22.53	22.50
20		100	0	22.59	22.61	22.60
20	DFT-s-OFDM QPSK	1	1	23.02	23.03	23.11
20		1	53	23.03	22.96	22.96
20		1	104	22.85	22.81	22.72
20		50	1	22.14	22.17	22.10
20		50	25	23.08	23.09	23.03
20		50	50	22.04	22.02	22.02
20		100	0	22.10	22.12	22.11
20	DFT-s-OFDM 16QAM	1	1	22.16	22.04	22.17
20	DFT-s-OFDM 64QAM	1	1	20.63	20.40	20.50
20	DFT-s-OFDM 256QAM	1	1	18.65	18.81	18.91
20	CP-OFDM QPSK	1	1	21.55	21.57	21.60
20	CP-OFDM 16QAM	1	1	21.07	20.96	21.04
20	CP-OFDM 64QAM	1	1	19.63	19.68	19.75
20	CP-OFDM 256QAM	1	1	16.67	16.84	16.97
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.06	23.12	23.02
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.93	22.82	22.81
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.98	22.94	22.82



B48_n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.51	22.55	22.55
20		1	53	22.35	22.30	22.23
20		1	104	22.03	22.07	21.94
20		50	1	22.09	22.08	22.00
20		50	25	22.48	22.49	22.39
20		50	50	21.85	21.80	21.79
20		100	0	22.01	21.99	22.04
20	DFT-s-OFDM QPSK	1	1	22.60	22.58	22.53
20		1	53	22.29	22.40	22.27
20		1	104	22.13	22.05	22.01
20		50	1	21.68	21.61	21.49
20		50	25	22.49	22.43	22.38
20		50	50	21.32	21.34	21.28
20		100	0	21.46	21.47	21.39
20	DFT-s-OFDM 16QAM	1	1	21.54	21.57	21.64
20	DFT-s-OFDM 64QAM	1	1	20.04	20.12	19.98
20	DFT-s-OFDM 256QAM	1	1	18.20	18.25	17.79
20	CP-OFDM QPSK	1	1	21.11	21.15	21.13
20	CP-OFDM 16QAM	1	1	20.61	20.64	20.67
20	CP-OFDM 64QAM	1	1	19.12	19.20	18.99
20	CP-OFDM 256QAM	1	1	16.28	16.25	15.85
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.65	22.61	22.37
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.50	22.28	22.10
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.57	22.27	22.08



B66_n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	23.09	23.07	23.19
20		1	53	23.07	23.08	23.04
20		1	104	23.06	23.05	22.93
20		50	1	22.72	22.71	22.65
20		50	25	23.15	23.12	23.13
20		50	50	22.57	22.65	22.66
20		100	0	22.65	22.64	22.64
20	DFT-s-OFDM QPSK	1	1	23.11	23.08	23.16
20		1	53	23.11	23.04	23.03
20		1	104	23.05	23.01	22.68
20		50	1	22.22	22.23	22.17
20		50	25	23.18	23.14	23.10
20		50	50	22.12	22.17	22.15
20		100	0	22.18	22.16	22.17
20	DFT-s-OFDM 16QAM	1	1	22.19	22.16	22.22
20	DFT-s-OFDM 64QAM	1	1	20.55	20.49	20.55
20	DFT-s-OFDM 256QAM	1	1	18.86	18.86	18.95
20	CP-OFDM QPSK	1	1	21.59	21.60	21.70
20	CP-OFDM 16QAM	1	1	20.97	21.01	21.10
20	CP-OFDM 64QAM	1	1	19.71	19.72	19.79
20	CP-OFDM 256QAM	1	1	16.91	16.92	16.95
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.14	23.19	23.12
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.84	22.85	22.87
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.90	22.89	22.85



B2_n7						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	22.91	22.95	23.06
20		1	53	23.05	22.89	23.40
20		1	104	23.20	23.04	23.61
20		50	1	22.66	22.64	22.83
20		50	25	23.19	23.04	23.60
20		50	50	22.73	22.48	23.18
20		100	0	22.74	22.59	22.99
20	DFT-s-OFDM QPSK	1	1	22.84	22.88	22.98
20		1	53	23.01	22.85	23.32
20		1	104	23.05	23.04	23.57
20		50	1	22.07	22.03	22.33
20		50	25	23.23	21.32	23.54
20		50	50	22.22	22.05	22.58
20		100	0	22.15	22.04	22.53
20	DFT-s-OFDM 16QAM	1	1	22.15	22.12	22.34
20	DFT-s-OFDM 64QAM	1	1	20.56	20.81	20.87
20	DFT-s-OFDM 256QAM	1	1	18.60	18.47	18.81
20	CP-OFDM QPSK	1	1	21.49	21.43	21.61
20	CP-OFDM 16QAM	1	1	20.75	21.08	20.96
20	CP-OFDM 64QAM	1	1	19.69	19.85	19.75
20	CP-OFDM 256QAM	1	1	16.68	16.84	16.79
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	22.86	22.86	23.14
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	22.68	22.72	23.19
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.69	23.37



B5_n7						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.23	22.57	22.66
20		1	53	23.12	22.61	22.72
20		1	104	22.88	22.73	22.82
20		50	1	22.74	22.33	22.30
20		50	25	23.23	22.85	22.99
20		50	50	22.59	22.26	22.56
20		100	0	22.75	22.25	22.48
20	DFT-s-OFDM QPSK	1	1	23.40	22.65	22.63
20		1	53	23.31	22.58	22.84
20		1	104	23.16	22.71	22.97
20		50	1	22.28	21.81	21.97
20		50	25	23.30	22.81	22.99
20		50	50	22.11	21.73	22.10
20		100	0	22.28	21.84	22.00
20	DFT-s-OFDM 16QAM	1	1	22.23	21.95	21.92
20	DFT-s-OFDM 64QAM	1	1	20.85	20.02	20.28
20	DFT-s-OFDM 256QAM	1	1	18.50	17.91	17.96
20	CP-OFDM QPSK	1	1	21.84	21.12	21.28
20	CP-OFDM 16QAM	1	1	21.65	21.29	20.96
20	CP-OFDM 64QAM	1	1	19.89	19.47	19.62
20	CP-OFDM 256QAM	1	1	16.54	15.98	15.98
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.41	22.84	23.07
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.09	22.61	22.69
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM QPSK	1	1	23.22	22.52	22.70



B66_n7						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	22.83	22.94	23.08
20		1	53	22.96	22.91	23.43
20		1	104	23.12	21.40	23.71
20		50	1	22.47	22.65	22.93
20		50	25	23.10	23.04	23.55
20		50	50	22.69	22.47	23.08
20		100	0	22.56	22.60	23.08
20	DFT-s-OFDM QPSK	1	1	22.76	22.89	22.99
20		1	53	23.02	22.87	23.35
20		1	104	22.94	20.89	21.35
20		50	1	21.99	22.15	22.41
20		50	25	23.24	23.07	23.55
20		50	50	22.13	22.02	22.63
20		100	0	22.07	22.16	22.60
20	DFT-s-OFDM 16QAM	1	1	22.18	22.25	22.30
20	DFT-s-OFDM 64QAM	1	1	20.46	20.63	20.62
20	DFT-s-OFDM 256QAM	1	1	18.57	18.70	18.76
20	CP-OFDM QPSK	1	1	21.36	21.52	21.61
20	CP-OFDM 16QAM	1	1	20.68	20.82	20.96
20	CP-OFDM 64QAM	1	1	19.47	18.85	19.75
20	CP-OFDM 256QAM	1	1	16.42	16.68	16.82
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	22.75	22.87	23.18
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	22.70	22.72	23.23
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM QPSK	1	1	22.71	22.69	23.38



B2_n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.76	22.78
15		1	39	22.70	22.80	22.81
15		1	77	22.66	22.69	22.65
15		36	1	22.38	22.38	22.35
15		36	18	22.80	22.87	22.85
15		36	37	22.30	22.32	22.27
15		75	0	22.33	22.42	22.35
15	DFT-s-OFDM QPSK	1	1	22.80	22.81	22.74
15		1	39	22.75	22.85	22.75
15		1	77	22.68	22.69	22.59
15		36	1	21.84	21.86	21.86
15		36	18	22.79	22.86	22.87
15		36	37	21.84	21.80	21.80
15		75	0	21.78	21.89	21.86
15	DFT-s-OFDM 16QAM	1	1	21.97	21.91	21.81
15	DFT-s-OFDM 64QAM	1	1	20.40	20.37	20.15
15	DFT-s-OFDM 256QAM	1	1	18.45	18.47	18.61
15	CP-OFDM QPSK	1	1	21.30	21.32	21.25
15	CP-OFDM 16QAM	1	1	20.87	20.89	20.71
15	CP-OFDM 64QAM	1	1	19.39	19.35	19.40
15	CP-OFDM 256QAM	1	1	16.14	16.09	16.28
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.64	22.67	22.69
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.69	22.66	22.61



B7_n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.76	22.80
15		1	39	22.75	22.83	22.80
15		1	77	22.71	22.69	22.65
15		36	1	22.36	22.39	22.36
15		36	18	22.81	22.88	22.86
15		36	37	22.37	22.32	22.26
15		75	0	22.31	22.41	22.35
15	DFT-s-OFDM QPSK	1	1	22.82	22.75	22.77
15		1	39	22.75	22.82	22.78
15		1	77	22.71	22.64	22.59
15		36	1	21.90	21.83	21.85
15		36	18	22.78	22.86	22.89
15		36	37	21.84	21.83	21.78
15		75	0	21.78	21.92	21.90
15	DFT-s-OFDM 16QAM	1	1	21.91	21.80	21.83
15	DFT-s-OFDM 64QAM	1	1	20.42	20.15	20.14
15	DFT-s-OFDM 256QAM	1	1	18.49	18.62	18.62
15	CP-OFDM QPSK	1	1	21.31	21.38	21.35
15	CP-OFDM 16QAM	1	1	20.86	20.72	20.73
15	CP-OFDM 64QAM	1	1	19.46	19.43	19.41
15	CP-OFDM 256QAM	1	1	16.13	16.30	16.30
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.65	22.68	22.69
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.62	22.69	22.64



B48_n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.27	22.32	22.29
15		1	39	22.31	22.30	22.18
15		1	77	22.20	22.27	22.23
15		36	1	21.88	21.80	21.89
15		36	18	22.37	22.37	22.32
15		36	37	21.86	21.86	21.86
15		75	0	21.93	21.94	21.90
15	DFT-s-OFDM QPSK	1	1	22.31	22.28	22.31
15		1	39	22.44	22.29	22.26
15		1	77	22.30	22.22	22.24
15		36	1	21.38	21.31	21.30
15		36	18	22.39	22.38	22.34
15		36	37	21.36	21.36	21.29
15		75	0	21.42	21.34	21.41
15	DFT-s-OFDM 16QAM	1	1	21.33	21.27	21.42
15	DFT-s-OFDM 64QAM	1	1	20.04	19.69	19.79
15	DFT-s-OFDM 256QAM	1	1	17.44	17.52	17.57
15	CP-OFDM QPSK	1	1	20.98	20.86	20.87
15	CP-OFDM 16QAM	1	1	20.28	20.35	20.38
15	CP-OFDM 64QAM	1	1	18.59	18.64	18.74
15	CP-OFDM 256QAM	1	1	15.23	15.22	15.14
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.15	22.25	22.19
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.19	22.17	22.16



B66_n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.79	22.77
15		1	39	22.73	22.82	22.82
15		1	77	22.67	22.64	22.63
15		36	1	22.40	22.34	22.33
15		36	18	22.79	22.86	22.86
15		36	37	22.32	22.30	22.26
15		75	0	22.33	22.37	22.36
15	DFT-s-OFDM QPSK	1	1	22.83	22.77	22.76
15		1	39	22.78	22.82	22.78
15		1	77	22.71	22.62	22.60
15		36	1	21.86	21.86	21.84
15		36	18	22.79	22.86	22.85
15		36	37	21.85	21.81	21.78
15		75	0	21.81	21.90	21.90
15	DFT-s-OFDM 16QAM	1	1	21.92	21.86	21.79
15	DFT-s-OFDM 64QAM	1	1	20.42	20.21	20.17
15	DFT-s-OFDM 256QAM	1	1	18.49	18.64	18.62
15	CP-OFDM QPSK	1	1	21.33	21.31	21.27
15	CP-OFDM 16QAM	1	1	20.86	20.72	20.67
15	CP-OFDM 64QAM	1	1	19.42	19.45	19.44
15	CP-OFDM 256QAM	1	1	16.11	16.31	16.28
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.66	22.67	22.71
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.62	22.68	22.64



B12_n25						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM PI/2 BPSK	1	1	23.54	23.44	23.45
20		1	53	23.60	23.45	23.46
20		1	104	23.58	23.39	23.39
20		50	1	23.11	23.10	23.12
20		50	25	23.64	23.61	23.56
20		50	50	23.17	23.12	23.05
20		100	0	23.14	23.09	23.14
20	DFT-s-OFDM QPSK	1	1	23.68	23.48	23.49
20		1	53	23.67	23.46	23.45
20		1	104	23.63	23.42	23.40
20		50	1	22.60	22.58	22.57
20		50	25	23.68	23.65	23.62
20		50	50	22.66	22.53	22.60
20		100	0	22.72	22.66	22.74
20	DFT-s-OFDM 16QAM	1	1	22.55	22.58	22.68
20	DFT-s-OFDM 64QAM	1	1	21.33	21.01	21.07
20	DFT-s-OFDM 256QAM	1	1	18.66	18.72	18.76
20	CP-OFDM QPSK	1	1	21.96	22.08	22.07
20	CP-OFDM 16QAM	1	1	21.89	21.78	21.64
20	CP-OFDM 64QAM	1	1	20.18	20.07	20.07
20	CP-OFDM 256QAM	1	1	16.84	16.82	16.88
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.71	23.59	23.56
Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.42	23.44	23.20
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.42	23.45	23.12



B48_n25						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM PI/2 BPSK	1	1	23.49	23.43	23.53
20		1	53	23.64	23.43	23.46
20		1	104	23.55	23.41	23.40
20		50	1	23.11	23.13	23.13
20		50	25	23.68	23.56	23.57
20		50	50	23.19	23.07	23.05
20		100	0	23.18	23.12	23.14
20	DFT-s-OFDM QPSK	1	1	23.67	23.59	23.63
20		1	53	23.76	23.55	23.52
20		1	104	23.60	23.46	23.47
20		50	1	22.64	22.61	22.63
20		50	25	23.64	23.59	23.63
20		50	50	22.70	22.55	22.58
20		100	0	22.66	22.60	22.65
20	DFT-s-OFDM 16QAM	1	1	22.62	22.56	22.59
20	DFT-s-OFDM 64QAM	1	1	21.14	20.90	21.28
20	DFT-s-OFDM 256QAM	1	1	19.25	19.20	19.28
20	CP-OFDM QPSK	1	1	22.07	22.13	22.38
20	CP-OFDM 16QAM	1	1	21.63	21.56	21.64
20	CP-OFDM 64QAM	1	1	20.17	20.31	20.11
20	CP-OFDM 256QAM	1	1	17.44	17.21	17.16
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.57	23.57	23.46
Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.45	23.43	23.17
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.42	23.43	23.24



B66_n25						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM PI/2 BPSK	1	1	23.49	23.59	23.60
20		1	53	23.44	23.47	23.46
20		1	104	23.73	23.55	23.50
20		50	1	23.11	23.06	23.05
20		50	25	23.55	23.65	23.59
20		50	50	23.14	23.19	23.20
20		100	0	23.11	23.12	23.09
20	DFT-s-OFDM QPSK	1	1	23.64	23.60	23.59
20		1	53	23.58	23.45	23.51
20		1	104	23.79	23.50	23.50
20		50	1	22.57	22.63	22.66
20		50	25	23.56	23.64	23.69
20		50	50	22.69	22.62	22.65
20		100	0	22.59	22.66	22.69
20	DFT-s-OFDM 16QAM	1	1	22.51	22.67	22.75
20	DFT-s-OFDM 64QAM	1	1	21.27	21.13	21.07
20	DFT-s-OFDM 256QAM	1	1	18.75	18.86	18.82
20	CP-OFDM QPSK	1	1	22.07	22.16	22.15
20	CP-OFDM 16QAM	1	1	21.66	21.68	21.72
20	CP-OFDM 64QAM	1	1	20.02	20.19	20.11
20	CP-OFDM 256QAM	1	1	16.89	16.99	17.01
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.76	23.71	23.66
Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.50	23.58	23.67
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.45	23.53	23.47



B2_n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.61	23.73	23.81
40		1	53	23.75	23.87	23.85
40		1	104	21.83	24.02	23.91
40		50	1	23.50	23.45	23.41
40		50	25	23.93	24.05	24.04
40		50	50	22.32	23.51	23.58
40		100	0	23.58	23.59	23.51
40	DFT-s-OFDM QPSK	1	1	23.64	23.74	23.82
40		1	53	23.80	23.94	23.86
40		1	104	24.05	23.99	23.96
40		50	1	22.88	22.91	22.91
40		50	25	23.94	24.07	24.00
40		50	50	23.00	23.01	21.98
40		100	0	22.93	21.78	22.99
40	DFT-s-OFDM 16QAM	1	1	23.04	23.31	23.18
40	DFT-s-OFDM 64QAM	1	1	21.58	21.50	22.02
40	DFT-s-OFDM 256QAM	1	1	19.42	19.54	19.43
40	CP-OFDM QPSK	1	1	22.00	22.35	22.25
40	CP-OFDM 16QAM	1	1	21.88	21.99	22.29
40	CP-OFDM 64QAM	1	1	20.62	20.55	20.86
40	CP-OFDM 256QAM	1	1	17.43	17.52	17.46
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	23.59	23.80	23.92
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	23.50	23.77	23.87



B4_n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.56	23.73	23.77
40		1	53	23.75	23.90	23.88
40		1	104	24.07	24.01	23.91
40		50	1	23.49	23.39	23.56
40		50	25	23.94	24.03	23.99
40		50	50	23.49	23.53	22.37
40		100	0	23.61	23.52	23.65
40	DFT-s-OFDM QPSK	1	1	23.62	23.72	23.82
40		1	53	23.78	23.88	23.88
40		1	104	24.06	23.99	23.90
40		50	1	22.83	22.89	22.89
40		50	25	23.94	23.99	24.01
40		50	50	22.95	23.01	23.08
40		100	0	22.95	23.00	22.98
40	DFT-s-OFDM 16QAM	1	1	23.15	23.38	23.58
40	DFT-s-OFDM 64QAM	1	1	21.24	21.74	21.62
40	DFT-s-OFDM 256QAM	1	1	19.21	19.61	19.54
40	CP-OFDM QPSK	1	1	21.89	22.07	22.17
40	CP-OFDM 16QAM	1	1	21.90	21.95	22.14
40	CP-OFDM 64QAM	1	1	20.58	20.80	20.77
40	CP-OFDM 256QAM	1	1	17.46	17.69	17.67
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	23.58	23.79	23.95
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	23.49	23.81	23.87



B5_n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.08	23.27	23.43
40		1	53	23.54	23.66	23.71
40		1	104	23.96	23.94	23.95
40		50	1	22.86	23.04	23.11
40		50	25	23.58	23.74	23.81
40		50	50	23.25	23.25	23.44
40		100	0	23.11	23.23	23.27
40		DFT-s-OFDM QPSK	1	1	23.14	23.28
40	1		53	23.51	23.67	23.69
40	1		104	23.97	23.97	23.98
40	50		1	22.41	22.54	22.59
40	50		25	23.59	23.75	23.77
40	50		50	22.73	22.76	22.91
40	100		0	22.57	22.71	22.76
40	DFT-s-OFDM 16QAM		1	1	22.12	22.35
40	DFT-s-OFDM 64QAM	1	1	20.58	20.90	20.87
40	DFT-s-OFDM 256QAM	1	1	18.50	18.63	18.81
40	CP-OFDM QPSK	1	1	21.63	21.78	22.04
40	CP-OFDM 16QAM	1	1	21.26	21.54	21.65
40	CP-OFDM 64QAM	1	1	19.71	19.89	20.06
40	CP-OFDM 256QAM	1	1	16.49	16.67	16.89
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	23.12	23.40	23.69
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	23.00	23.48	23.70



B66_n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.60	23.71	23.73
40		1	53	23.76	23.87	23.84
40		1	104	24.05	21.89	23.89
40		50	1	23.31	23.58	23.37
40		50	25	23.94	24.03	22.16
40		50	50	23.50	22.31	23.71
40		100	0	23.43	23.64	23.48
40	DFT-s-OFDM QPSK	1	1	23.61	23.71	23.80
40		1	53	23.91	23.90	23.86
40		1	104	24.06	23.99	23.90
40		50	1	21.43	22.93	22.87
40		50	25	23.93	24.00	24.04
40		50	50	23.00	22.99	23.06
40		100	0	21.70	22.98	22.95
40	DFT-s-OFDM 16QAM	1	1	23.63	23.13	23.10
40	DFT-s-OFDM 64QAM	1	1	21.61	21.57	21.61
40	DFT-s-OFDM 256QAM	1	1	19.29	19.54	19.31
40	CP-OFDM QPSK	1	1	22.01	22.11	22.10
40	CP-OFDM 16QAM	1	1	21.89	21.93	21.76
40	CP-OFDM 64QAM	1	1	20.54	20.70	20.66
40	CP-OFDM 256QAM	1	1	17.25	17.51	17.74
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	23.58	23.78	23.95
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	23.48	23.82	23.88



B71_n38						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.14	23.27	23.47
40		1	53	23.51	23.69	23.74
40		1	104	23.95	23.96	23.98
40		50	1	22.94	23.06	23.16
40		50	25	23.65	23.80	23.83
40		50	50	23.25	23.27	23.46
40		100	0	23.10	23.25	23.31
40		DFT-s-OFDM QPSK	1	1	23.14	23.36
40	1		53	23.53	23.69	23.76
40	1		104	23.96	24.03	24.01
40	50		1	22.39	22.58	22.61
40	50		25	23.62	23.78	23.79
40	50		50	22.73	22.76	22.92
40	100		0	22.59	22.73	22.79
40	DFT-s-OFDM 16QAM	1	1	22.06	22.29	22.51
40	DFT-s-OFDM 64QAM	1	1	20.74	20.77	21.11
40	DFT-s-OFDM 256QAM	1	1	18.50	18.66	18.89
40	CP-OFDM QPSK	1	1	21.66	21.99	22.08
40	CP-OFDM 16QAM	1	1	21.26	21.46	21.59
40	CP-OFDM 64QAM	1	1	19.71	19.88	20.09
40	CP-OFDM 256QAM	1	1	16.53	16.68	16.88
Channel				517000	519000	521000
Frequency (MHz)				2585	2595	2605
30	DFT-s-OFDM QPSK	1	1	23.12	23.43	23.73
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	23.01	23.51	23.71



B2_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.58	23.88	23.93
100		1	136	23.02	23.89	23.24
100		1	271	23.43	23.31	22.90
100		135	1	22.35	23.43	23.29
100		135	67	23.14	24.03	23.47
100		135	136	22.77	23.26	22.56
100		270	0	22.58	23.52	23.04
100		DFT-s-OFDM QPSK	1	1	22.59	23.90
100	1		136	23.00	23.86	23.23
100	1		271	23.43	23.33	23.04
100	135		1	21.89	22.94	22.69
100	135		67	23.13	24.03	23.49
100	135		136	22.24	22.67	22.04
100	270		0	22.08	23.01	22.55
100	DFT-s-OFDM 16QAM		1	1	21.68	23.04
100	DFT-s-OFDM 64QAM	1	1	20.23	21.50	21.51
100	DFT-s-OFDM 256QAM	1	1	18.00	19.28	19.35
100	CP-OFDM QPSK	1	1	21.09	22.44	22.54
100	CP-OFDM 16QAM	1	1	20.80	22.06	22.23
100	CP-OFDM 64QAM	1	1	19.23	20.69	20.52
100	CP-OFDM 256QAM	1	1	15.99	17.22	17.30
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.51	23.71	23.78
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.57	23.78	23.79
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.57	23.96	23.71
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	22.03	23.47	22.93
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.75	23.63	23.07
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.56	24.41	23.54



Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.66	24.29	23.50
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.88	24.14	23.33

B4_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.57	23.81	23.89
100		1	136	22.99	23.90	23.18
100		1	271	23.44	23.27	23.10
100		135	1	22.27	23.44	23.20
100		135	67	23.14	24.02	22.61
100		135	136	22.76	23.24	22.60
100		270	0	22.55	23.45	23.04
100	DFT-s-OFDM QPSK	1	1	22.58	23.89	23.89
100		1	136	22.98	23.74	23.23
100		1	271	23.44	23.31	23.10
100		135	1	21.74	22.94	22.69
100		135	67	23.12	23.96	22.38
100		135	136	22.19	22.68	22.22
100		270	0	22.05	22.98	22.48
100	DFT-s-OFDM 16QAM	1	1	21.70	23.02	22.90
100	DFT-s-OFDM 64QAM	1	1	20.28	21.36	21.40
100	DFT-s-OFDM 256QAM	1	1	18.02	19.24	19.27
100	CP-OFDM QPSK	1	1	21.12	22.48	22.39
100	CP-OFDM 16QAM	1	1	20.77	21.90	22.38
100	CP-OFDM 64QAM	1	1	19.17	20.36	20.56
100	CP-OFDM 256QAM	1	1	16.01	17.50	17.22
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.51	23.78	23.88
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.55	23.82	23.80
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.59	23.88	23.68
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98



60	DFT-s-OFDM QPSK	1	1	22.06	24.10	23.64
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.30	24.26	23.58
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.98	24.41	23.45
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.89	24.29	23.48
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.88	24.18	23.38

B5_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.13	23.06	23.55
100		1	136	22.26	23.54	23.29
100		1	271	23.09	23.34	22.63
100		135	1	21.58	22.89	23.16
100		135	67	22.38	23.66	23.49
100		135	136	22.29	23.12	22.52
100		270	0	21.95	23.09	23.03
100		DFT-s-OFDM QPSK	1	1	22.03	23.11
100	1		136	22.24	23.55	23.33
100	1		271	23.10	23.36	22.72
100	135		1	21.04	22.41	22.65
100	135		67	22.40	23.62	23.46
100	135		136	21.77	22.61	22.06
100	270		0	21.45	22.59	22.52
100	DFT-s-OFDM 16QAM		1	1	21.02	22.16
100	DFT-s-OFDM 64QAM	1	1	19.76	20.78	21.26
100	DFT-s-OFDM 256QAM	1	1	17.47	18.50	19.01
100	CP-OFDM QPSK	1	1	20.53	21.42	22.05
100	CP-OFDM 16QAM	1	1	20.17	21.36	21.60
100	CP-OFDM 64QAM	1	1	18.71	19.82	20.25
100	CP-OFDM 256QAM	1	1	15.48	16.49	17.05
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.09	23.05	23.53
Channel				507204	518598	529998



Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.10	23.16	23.63
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.12	23.27	23.71
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	22.22	23.47	23.82
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.18	23.59	23.61
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.42	23.79	23.16
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.33	23.80	23.04
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.34	23.71	23.10

B12_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.15	23.07	23.59
100		1	136	22.31	23.58	23.27
100		1	271	23.16	23.36	22.75
100		135	1	21.64	22.93	23.19
100		135	67	22.43	23.68	23.52
100		135	136	22.33	23.17	22.53
100		270	0	21.92	23.12	23.06
100		DFT-s-OFDM QPSK	1	1	22.16	23.10
100	1		136	22.29	23.57	23.32
100	1		271	23.14	23.35	22.77
100	135		1	21.08	22.44	22.68
100	135		67	22.43	23.66	23.47
100	135		136	21.82	22.65	22.02
100	270		0	21.48	22.62	22.55
100	DFT-s-OFDM 16QAM		1	1	21.20	22.14
100	DFT-s-OFDM 64QAM	1	1	19.72	20.76	21.24
100	DFT-s-OFDM 256QAM	1	1	17.53	18.56	18.96
100	CP-OFDM QPSK	1	1	20.62	21.60	22.09



100	CP-OFDM 16QAM	1	1	20.18	21.16	21.74
100	CP-OFDM 64QAM	1	1	18.75	19.66	20.27
100	CP-OFDM 256QAM	1	1	15.63	16.49	17.09
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.08	23.08	23.57
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.14	23.22	23.68
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.15	23.30	23.66
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	22.18	23.47	23.81
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.23	23.60	23.60
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.16	23.45	23.62
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.15	23.45	23.34
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.35	23.74	23.10

B66_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.60	23.91	23.79
100		1	136	22.96	23.86	23.29
100		1	271	23.44	23.48	22.95
100		135	1	22.33	23.47	23.22
100		135	67	23.05	23.96	23.51
100		135	136	22.82	23.30	22.58
100		270	0	22.47	23.41	23.08
100		DFT-s-OFDM QPSK	1	1	22.58	23.95
100	1		136	22.94	23.81	23.28
100	1		271	23.37	23.43	22.93
100	135		1	21.77	23.01	22.71
100	135		67	23.02	23.94	23.50



100		135	136	22.25	22.65	22.10
100		270	0	22.12	22.97	22.66
100	DFT-s-OFDM 16QAM	1	1	21.55	22.81	22.85
100	DFT-s-OFDM 64QAM	1	1	19.14	21.37	20.48
100	DFT-s-OFDM 256QAM	1	1	17.96	19.33	19.19
100	CP-OFDM QPSK	1	1	21.14	22.53	22.37
100	CP-OFDM 16QAM	1	1	20.78	21.97	22.04
100	CP-OFDM 64QAM	1	1	19.47	20.51	20.75
100	CP-OFDM 256QAM	1	1	16.06	17.27	17.21
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.55	23.83	23.84
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.58	23.83	23.82
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.58	23.86	23.66
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	22.09	23.94	23.56
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.28	24.16	23.63
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.90	24.33	23.65
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.90	24.24	23.57
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.89	24.11	23.41

B71_n41 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.03	23.06	23.56
100		1	136	22.28	23.58	23.31
100		1	271	23.14	23.40	22.68
100		135	1	21.59	22.92	23.16
100		135	67	22.43	23.69	23.47



100		135	136	22.29	23.12	22.54
100		270	0	21.91	23.13	23.00
100	DFT-s-OFDM QPSK	1	1	22.05	23.12	23.58
100		1	136	22.28	23.54	23.28
100		1	271	23.13	23.41	22.72
100		135	1	21.04	22.44	22.66
100		135	67	22.42	23.66	23.48
100		135	136	21.79	22.62	22.04
100		270	0	21.42	22.63	22.56
100		DFT-s-OFDM 16QAM	1	1	21.07	22.21
100	DFT-s-OFDM 64QAM	1	1	19.69	20.82	21.26
100	DFT-s-OFDM 256QAM	1	1	17.43	18.51	18.99
100	CP-OFDM QPSK	1	1	20.52	21.58	22.07
100	CP-OFDM 16QAM	1	1	20.24	21.17	21.79
100	CP-OFDM 64QAM	1	1	18.71	19.81	20.27
100	CP-OFDM 256QAM	1	1	15.50	16.50	17.02
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	22.09	23.07	23.61
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	22.04	23.12	23.63
Channel				506202	518598	531000
Frequency (MHz)				2531.01	2592.99	2655
70	DFT-s-OFDM QPSK	1	1	22.04	23.25	23.68
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	22.15	23.47	23.80
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	22.23	23.58	23.63
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM QPSK	1	1	22.16	23.86	23.66
Channel				502200	518598	534996
Frequency (MHz)				2511	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	22.13	23.82	23.32
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	22.36	23.73	23.10



B2_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	23.18	23.22	23.20
30		1	80	23.28	23.34	23.13
30		1	158	23.26	23.07	23.06
30		80	1	22.94	22.94	22.77
30		80	40	23.37	23.42	23.21
30		80	80	22.96	22.85	22.83
30		160	0	22.99	22.98	22.86
30		DFT-s-OFDM QPSK	1	1	23.15	23.21
30	1		80	23.34	23.27	23.11
30	1		158	23.34	23.23	23.07
30	80		1	22.60	22.35	22.24
30	80		40	23.40	23.40	23.21
30	80		80	22.50	22.52	22.32
30	160		0	22.49	22.63	22.37
30	DFT-s-OFDM 16QAM	1	1	22.22	22.37	22.31
30	DFT-s-OFDM 64QAM	1	1	20.58	20.71	20.65
30	DFT-s-OFDM 256QAM	1	1	19.05	19.08	19.09
30	CP-OFDM QPSK	1	1	21.76	21.79	21.78
30	CP-OFDM 16QAM	1	1	21.09	21.10	21.11
30	CP-OFDM 64QAM	1	1	19.86	19.89	19.86
30	CP-OFDM 256QAM	1	1	16.97	17.15	17.05
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.14	23.28	23.05
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.14	23.26	22.97
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.57	23.12	22.96
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.08	23.08	22.94



B5_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.85	22.96	22.83
30		1	80	22.92	22.89	22.92
30		1	158	22.89	22.86	22.89
30		80	1	22.44	22.51	22.48
30		80	40	22.94	22.98	22.98
30		80	80	22.59	22.48	22.55
30		160	0	22.49	22.55	22.57
30	DFT-s-OFDM QPSK	1	1	22.78	22.82	22.77
30		1	80	22.88	22.88	22.88
30		1	158	22.83	22.84	22.88
30		80	1	21.92	21.98	21.95
30		80	40	22.96	23.01	23.03
30		80	80	22.09	21.99	22.02
30	160	0	22.02	22.05	22.05	
30	DFT-s-OFDM 16QAM	1	1	21.99	21.93	21.93
30	DFT-s-OFDM 64QAM	1	1	20.31	20.25	20.31
30	DFT-s-OFDM 256QAM	1	1	18.63	18.62	18.63
30	CP-OFDM QPSK	1	1	21.36	21.41	21.47
30	CP-OFDM 16QAM	1	1	20.72	20.73	20.77
30	CP-OFDM 64QAM	1	1	19.51	19.50	19.48
30	CP-OFDM 256QAM	1	1	16.62	16.64	16.43
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.75	22.34	22.30
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.77	22.55	22.60
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.70	22.67	22.73
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.04	22.65	22.71



B7_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	23.13	23.20	23.19
30		1	80	23.22	23.23	23.06
30		1	158	23.24	23.05	23.04
30		80	1	22.72	22.96	22.76
30		80	40	23.27	23.28	23.17
30		80	80	22.91	22.78	22.78
30		160	0	22.87	22.78	22.77
30		DFT-s-OFDM QPSK	1	1	23.11	23.13
30	1		80	23.17	23.11	23.07
30	1		158	23.18	23.00	23.01
30	80		1	22.36	21.38	22.18
30	80		40	23.38	23.33	23.14
30	80		80	22.36	22.27	22.23
30	160		0	22.37	22.24	22.20
30	DFT-s-OFDM 16QAM		1	1	22.28	22.33
30	DFT-s-OFDM 64QAM	1	1	20.70	20.78	20.58
30	DFT-s-OFDM 256QAM	1	1	18.98	19.03	19.03
30	CP-OFDM QPSK	1	1	21.72	21.75	21.74
30	CP-OFDM 16QAM	1	1	21.06	21.11	21.11
30	CP-OFDM 64QAM	1	1	19.81	19.85	19.83
30	CP-OFDM 256QAM	1	1	16.86	16.91	16.89
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.11	23.20	22.99
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.11	23.21	22.92
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.02	23.07	22.82
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.99	23.00	22.90



B12_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.86	22.86	22.83
30		1	80	22.87	22.92	22.93
30		1	158	22.84	22.85	22.92
30		80	1	22.39	22.50	22.48
30		80	40	22.98	22.88	23.02
30		80	80	22.49	22.45	22.54
30		160	0	22.52	22.44	22.58
30		DFT-s-OFDM QPSK	1	1	22.82	22.81
30	1		80	22.86	22.88	22.85
30	1		158	22.79	22.85	22.86
30	80		1	21.95	21.98	21.98
30	80		40	22.97	22.92	23.03
30	80		80	22.01	21.98	22.05
30	160		0	21.99	21.93	22.08
30	DFT-s-OFDM 16QAM	1	1	21.95	21.96	21.95
30	DFT-s-OFDM 64QAM	1	1	20.31	20.31	20.30
30	DFT-s-OFDM 256QAM	1	1	18.64	18.66	18.68
30	CP-OFDM QPSK	1	1	21.40	21.42	21.40
30	CP-OFDM 16QAM	1	1	20.73	20.72	20.74
30	CP-OFDM 64QAM	1	1	19.52	19.53	19.48
30	CP-OFDM 256QAM	1	1	16.62	16.63	16.45
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.81	22.83	22.74
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.80	22.79	22.73
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.69	22.70	22.71
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.74	22.68	22.71



B13_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.86	23.21	23.16
30		1	80	22.89	23.25	23.16
30		1	158	22.86	23.30	23.27
30		80	1	22.42	22.81	22.76
30		80	40	23.01	23.23	23.25
30		80	80	22.53	22.92	22.83
30		160	0	22.55	22.85	22.76
30		DFT-s-OFDM QPSK	1	1	22.77	23.25
30	1		80	22.90	23.28	23.26
30	1		158	22.82	23.21	23.26
30	80		1	21.96	22.32	22.17
30	80		40	22.96	23.26	23.40
30	80		80	21.96	22.32	22.35
30	160		0	22.02	22.29	22.29
30	DFT-s-OFDM 16QAM	1	1	21.98	22.32	22.46
30	DFT-s-OFDM 64QAM	1	1	20.32	20.87	21.02
30	DFT-s-OFDM 256QAM	1	1	18.65	18.84	18.79
30	CP-OFDM QPSK	1	1	21.43	21.75	21.69
30	CP-OFDM 16QAM	1	1	20.71	21.27	21.21
30	CP-OFDM 64QAM	1	1	19.48	19.82	18.96
30	CP-OFDM 256QAM	1	1	16.64	16.80	16.82
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.33	22.85	22.74
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.49	22.79	22.74
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.73	22.61	22.64
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.71	22.69	22.73



B48_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.69	22.70
30		1	80	22.91	22.60	22.65
30		1	158	22.97	22.79	22.63
30		80	1	22.51	22.21	22.01
30		80	40	22.98	22.70	22.67
30		80	80	22.67	22.08	22.20
30		160	0	22.53	22.15	22.09
30		DFT-s-OFDM QPSK	1	1	22.86	22.74
30	1		80	22.91	22.71	22.80
30	1		158	22.92	22.71	22.69
30	80		1	21.99	21.60	21.51
30	80		40	22.98	22.68	22.79
30	80		80	22.07	21.66	21.71
30	160		0	22.05	21.60	21.64
30	DFT-s-OFDM 16QAM	1	1	22.01	21.89	21.92
30	DFT-s-OFDM 64QAM	1	1	20.46	20.35	20.31
30	DFT-s-OFDM 256QAM	1	1	18.49	17.80	17.82
30	CP-OFDM QPSK	1	1	21.45	21.20	21.27
30	CP-OFDM 16QAM	1	1	21.08	20.73	20.76
30	CP-OFDM 64QAM	1	1	19.42	19.28	19.67
30	CP-OFDM 256QAM	1	1	16.47	15.81	15.91
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.84	22.91	22.87
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.84	22.89	22.84
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.70	22.71	22.84
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.74	22.76	22.83



B71_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	23.01	23.15	23.10
30		1	80	23.19	23.06	23.09
30		1	158	21.98	23.18	22.12
30		80	1	22.84	22.83	22.74
30		80	40	23.17	23.15	23.14
30		80	80	22.77	22.73	22.22
30		160	0	22.92	22.80	22.82
30		DFT-s-OFDM QPSK	1	1	22.99	23.07
30	1		80	23.12	23.05	23.03
30	1		158	23.09	22.99	23.03
30	80		1	22.20	22.17	22.11
30	80		40	23.24	23.17	23.16
30	80		80	22.24	22.25	22.31
30	160		0	22.18	22.22	22.20
30	DFT-s-OFDM 16QAM		1	1	22.16	22.20
30	DFT-s-OFDM 64QAM	1	1	20.49	20.62	20.58
30	DFT-s-OFDM 256QAM	1	1	18.84	18.88	18.93
30	CP-OFDM QPSK	1	1	21.54	21.67	21.69
30	CP-OFDM 16QAM	1	1	20.91	21.02	21.20
30	CP-OFDM 64QAM	1	1	19.67	19.75	19.73
30	CP-OFDM 256QAM	1	1	16.81	16.93	16.87
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.97	23.14	23.02
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.95	23.06	22.92
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.93	22.89	22.95
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.00	23.05	22.91



B2_n71 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.84	22.86	23.02
20		1	53	22.95	23.02	22.86
20		1	104	23.05	23.04	22.79
20		50	1	22.58	22.49	22.64
20		50	25	22.98	23.02	23.02
20		50	50	22.46	22.58	22.44
20		100	0	22.62	22.62	19.12
20	DFT-s-OFDM QPSK	1	1	22.77	22.89	23.01
20		1	53	22.96	23.01	22.83
20		1	104	22.98	22.92	22.88
20		50	1	21.92	22.02	22.13
20		50	25	22.98	23.02	22.88
20		50	50	21.97	21.96	21.89
20		100	0	22.01	22.04	22.09
20	DFT-s-OFDM 16QAM	1	1	21.82	21.88	22.28
20	DFT-s-OFDM 64QAM	1	1	20.18	20.18	20.33
20	DFT-s-OFDM 256QAM	1	1	18.08	18.23	18.38
20	CP-OFDM QPSK	1	1	21.38	21.41	21.57
20	CP-OFDM 16QAM	1	1	20.79	20.86	21.02
20	CP-OFDM 64QAM	1	1	19.45	19.49	20.05
20	CP-OFDM 256QAM	1	1	16.14	16.24	16.41
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.84	22.98	22.99
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.74	22.87	22.90
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.75	22.84	22.76



B7_n71 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.85	22.89	23.01
20		1	53	22.93	22.98	22.88
20		1	104	23.10	22.91	22.92
20		50	1	22.62	22.61	22.58
20		50	25	22.98	23.04	22.90
20		50	50	22.61	22.45	22.42
20		100	0	22.52	22.65	22.61
20	DFT-s-OFDM QPSK	1	1	22.77	22.84	23.01
20		1	53	23.10	22.96	22.86
20		1	104	22.95	22.98	22.88
20		50	1	22.08	21.98	21.99
20		50	25	23.09	22.99	22.90
20		50	50	21.95	22.11	22.07
20		100	0	18.94	22.32	22.13
20	DFT-s-OFDM 16QAM	1	1	22.04	21.83	22.06
20	DFT-s-OFDM 64QAM	1	1	20.12	17.44	17.62
20	DFT-s-OFDM 256QAM	1	1	18.06	18.23	18.40
20	CP-OFDM QPSK	1	1	21.33	21.39	21.52
20	CP-OFDM 16QAM	1	1	20.78	21.04	21.20
20	CP-OFDM 64QAM	1	1	19.76	19.48	19.66
20	CP-OFDM 256QAM	1	1	16.17	16.25	16.37
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.81	23.00	22.98
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.75	22.88	22.90
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.75	22.81	22.75



B66_n71 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.84	22.98
20		1	53	22.96	22.99	22.85
20		1	104	23.02	23.00	22.86
20		50	1	22.54	22.58	22.48
20		50	25	22.97	23.01	22.91
20		50	50	19.03	22.48	22.60
20		100	0	22.61	22.60	22.54
20	DFT-s-OFDM QPSK	1	1	22.80	22.86	23.01
20		1	53	22.89	22.98	22.87
20		1	104	22.94	22.89	22.77
20		50	1	21.88	22.01	21.96
20		50	25	23.00	23.02	22.87
20		50	50	21.99	21.92	21.91
20		100	0	21.98	22.04	21.92
20	DFT-s-OFDM 16QAM	1	1	21.80	21.82	22.03
20	DFT-s-OFDM 64QAM	1	1	20.14	20.20	20.29
20	DFT-s-OFDM 256QAM	1	1	18.10	18.21	18.36
20	CP-OFDM QPSK	1	1	21.29	21.37	21.51
20	CP-OFDM 16QAM	1	1	20.74	21.03	20.96
20	CP-OFDM 64QAM	1	1	19.39	19.46	19.64
20	CP-OFDM 256QAM	1	1	16.06	16.19	16.38
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.80	22.96	22.99
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.73	22.87	22.89
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.76	22.80	22.69



B2_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.04	/
100		1	136	/	23.08	/
100		1	271	/	23.12	/
100		135	1	/	22.62	/
100		135	67	/	23.17	/
100		135	136	/	22.33	/
100		270	0	/	22.61	/
100		DFT-s-OFDM QPSK	1	1	/	23.08
100	1		136	/	23.03	/
100	1		271	/	23.13	/
100	135		1	/	22.10	/
100	135		67	/	23.21	/
100	135		136	/	21.87	/
100	270		0	/	22.12	/
100	DFT-s-OFDM 16QAM		1	1	/	22.18
100	DFT-s-OFDM 64QAM	1	1	/	20.73	/
100	DFT-s-OFDM 256QAM	1	1	/	18.44	/
100	CP-OFDM QPSK	1	1	/	21.62	/
100	CP-OFDM 16QAM	1	1	/	21.22	/
100	CP-OFDM 64QAM	1	1	/	19.78	/
100	CP-OFDM 256QAM	1	1	/	16.57	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.08	23.15	23.16
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.22	23.30	23.33
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.58	23.65	23.54
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.52	23.58	23.27
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.40	23.57	23.10



B5_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.28	/
100		1	136	/	23.32	/
100		1	271	/	22.98	/
100		135	1	/	22.87	/
100		135	67	/	23.37	/
100		135	136	/	22.42	/
100		270	0	/	22.77	/
100	DFT-s-OFDM QPSK	1	1	/	23.29	/
100		1	136	/	23.26	/
100		1	271	/	22.90	/
100		135	1	/	22.24	/
100		135	67	/	23.32	/
100		135	136	/	21.94	/
100		270	0	/	22.25	/
100	DFT-s-OFDM 16QAM	1	1	/	22.36	/
100	DFT-s-OFDM 64QAM	1	1	/	20.80	/
100	DFT-s-OFDM 256QAM	1	1	/	18.68	/
100	CP-OFDM QPSK	1	1	/	21.83	/
100	CP-OFDM 16QAM	1	1	/	21.53	/
100	CP-OFDM 64QAM	1	1	/	19.90	/
100	CP-OFDM 256QAM	1	1	/	16.71	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.34	23.33	23.24
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.44	23.43	23.52
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.73	23.84	23.68
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.71	23.83	23.44
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.64	23.76	23.20



B7_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.04	/
100		1	136	/	23.08	/
100		1	271	/	23.03	/
100		135	1	/	22.64	/
100		135	67	/	23.19	/
100		135	136	/	22.37	/
100		270	0	/	22.59	/
100		DFT-s-OFDM QPSK	1	1	/	22.99
100	1		136	/	23.03	/
100	1		271	/	22.99	/
100	135		1	/	22.05	/
100	135		67	/	23.08	/
100	135		136	/	21.84	/
100	270		0	/	22.03	/
100	DFT-s-OFDM 16QAM		1	1	/	21.99
100	DFT-s-OFDM 64QAM	1	1	/	20.80	/
100	DFT-s-OFDM 256QAM	1	1	/	18.45	/
100	CP-OFDM QPSK	1	1	/	21.56	/
100	CP-OFDM 16QAM	1	1	/	21.26	/
100	CP-OFDM 64QAM	1	1	/	19.62	/
100	CP-OFDM 256QAM	1	1	/	16.53	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.10	23.06	23.00
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.21	23.27	23.24
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.57	23.59	23.33
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.50	23.55	23.20
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.43	23.47	23.05



B13_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.28	/
100		1	136	/	23.25	/
100		1	271	/	22.96	/
100		135	1	/	22.81	/
100		135	67	/	23.25	/
100		135	136	/	22.42	/
100		270	0	/	22.71	/
100	DFT-s-OFDM QPSK	1	1	/	23.25	/
100		1	136	/	23.26	/
100		1	271	/	22.83	/
100		135	1	/	22.24	/
100		135	67	/	23.33	/
100		135	136	/	21.89	/
100		270	0	/	22.23	/
100	DFT-s-OFDM 16QAM	1	1	/	22.32	/
100	DFT-s-OFDM 64QAM	1	1	/	20.78	/
100	DFT-s-OFDM 256QAM	1	1	/	18.68	/
100	CP-OFDM QPSK	1	1	/	21.80	/
100	CP-OFDM 16QAM	1	1	/	21.53	/
100	CP-OFDM 64QAM	1	1	/	19.85	/
100	CP-OFDM 256QAM	1	1	/	16.67	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.28	23.36	23.28
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.47	23.52	23.49
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.81	23.81	23.69
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.70	23.76	23.40
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.64	23.74	23.20



B66_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.03	/
100		1	136	/	23.09	/
100		1	271	/	23.03	/
100		135	1	/	22.64	/
100		135	67	/	23.22	/
100		135	136	/	22.41	/
100		270	0	/	22.65	/
100		DFT-s-OFDM QPSK	1	1	/	23.12
100	1		136	/	23.11	/
100	1		271	/	23.08	/
100	135		1	/	22.15	/
100	135		67	/	23.16	/
100	135		136	/	21.89	/
100	270		0	/	22.12	/
100	DFT-s-OFDM 16QAM		1	1	/	22.21
100	DFT-s-OFDM 64QAM	1	1	/	20.75	/
100	DFT-s-OFDM 256QAM	1	1	/	18.46	/
100	CP-OFDM QPSK	1	1	/	21.61	/
100	CP-OFDM 16QAM	1	1	/	21.33	/
100	CP-OFDM 64QAM	1	1	/	19.71	/
100	CP-OFDM 256QAM	1	1	/	16.61	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.07	23.07	23.07
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.21	23.23	23.32
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.59	23.57	22.84
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.59	23.57	23.23
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.47	23.54	23.15



B71_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.32	/
100		1	136	/	23.28	/
100		1	271	/	22.90	/
100		135	1	/	22.79	/
100		135	67	/	23.37	/
100		135	136	/	22.44	/
100		270	0	/	22.78	/
100	DFT-s-OFDM QPSK	1	1	/	23.34	/
100		1	136	/	23.24	/
100		1	271	/	22.89	/
100		135	1	/	22.28	/
100		135	67	/	23.33	/
100		135	136	/	21.86	/
100		270	0	/	22.30	/
100	DFT-s-OFDM 16QAM	1	1	/	22.32	/
100	DFT-s-OFDM 64QAM	1	1	/	20.86	/
100	DFT-s-OFDM 256QAM	1	1	/	18.69	/
100	CP-OFDM QPSK	1	1	/	21.84	/
100	CP-OFDM 16QAM	1	1	/	21.56	/
100	CP-OFDM 64QAM	1	1	/	19.91	/
100	CP-OFDM 256QAM	1	1	/	16.72	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.29	23.38	23.22
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.51	23.44	23.44
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.78	23.78	23.68
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.73	23.80	23.39
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.66	23.78	23.20



B2_n77(3700-3980MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	23.83	22.69	23.19
100		1	136	23.50	23.04	23.21
100		1	271	22.80	23.26	23.99
100		135	1	23.56	22.14	22.74
100		135	67	23.63	23.15	23.32
100		135	136	22.64	22.37	23.09
100		270	0	23.09	22.58	22.89
100		DFT-s-OFDM QPSK	1	1	23.85	22.61
100	1		136	23.50	23.13	23.14
100	1		271	22.75	23.22	23.98
100	135		1	23.05	21.65	22.23
100	135		67	23.61	23.11	23.27
100	135		136	22.02	21.88	22.61
100	270		0	22.58	22.09	22.38
100	DFT-s-OFDM 16QAM		1	1	22.97	21.70
100	DFT-s-OFDM 64QAM	1	1	21.44	20.34	20.78
100	DFT-s-OFDM 256QAM	1	1	19.21	18.03	18.54
100	CP-OFDM QPSK	1	1	22.40	21.15	21.77
100	CP-OFDM 16QAM	1	1	22.00	20.81	21.36
100	CP-OFDM 64QAM	1	1	20.49	19.24	19.80
100	CP-OFDM 256QAM	1	1	17.28	16.07	16.57
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	23.89	22.73	23.24
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	23.95	22.77	23.23
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	23.95	23.24	23.37
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	23.87	23.12	23.58
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	24.18	23.24	23.83



B5_n77(3650-3700MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				644668	645000	645334
Frequency (MHz)				3670.02	3675	3680.01
40	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.36	23.46
40		1	53	23.38	23.48	23.51
40		1	104	23.48	23.42	23.32
40		50	1	22.79	22.86	22.95
40		50	25	23.45	23.52	23.55
40		50	50	23.06	23.03	23.02
40		100	0	22.92	22.96	22.99
40	DFT-s-OFDM QPSK	1	1	23.28	23.34	23.44
40		1	53	23.38	23.46	23.48
40		1	104	23.57	23.37	23.28
40		50	1	22.26	22.34	22.45
40		50	25	23.42	23.50	23.48
40		50	50	22.52	22.50	22.37
40		100	0	22.42	22.45	22.44
40	DFT-s-OFDM 16QAM	1	1	22.20	22.32	22.51
40	DFT-s-OFDM 64QAM	1	1	20.93	20.86	21.09
40	DFT-s-OFDM 256QAM	1	1	18.77	18.80	18.85
40	CP-OFDM QPSK	1	1	21.82	21.90	21.97
40	CP-OFDM 16QAM	1	1	21.33	21.50	21.53
40	CP-OFDM 64QAM	1	1	19.90	19.96	20.04
40	CP-OFDM 256QAM	1	1	16.73	16.86	16.86
Channel				644334	645000	645666
Frequency (MHz)				3665.01	3675	3684.99
30	DFT-s-OFDM QPSK	1	1	23.05	23.28	23.43
Channel				644000	645000	646000
Frequency (MHz)				3660	3675	3690
20	DFT-s-OFDM QPSK	1	1	23.04	23.36	23.42