



REPORT No.: SZ25060339S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.



Full Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251	128		189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.08	32.13	32.10	33.00	23.08	23.13	23.10	24.00	
GPRS 1 Tx slot	32.10	32.16	32.12	33.00	23.10	23.16	23.12	24.00	
GPRS 2 Tx slots	29.02	29.16	29.15	30.00	23.02	23.16	23.15	24.00	
GPRS 3 Tx slots	26.74	26.81	26.78	28.00	22.48	22.55	22.52	23.74	
GPRS 4 Tx slots	24.52	24.60	24.62	25.50	21.52	21.60	21.62	22.50	
EDGE 1 Tx slot	27.05	27.03	27.00	28.00	18.05	18.03	18.00	19.00	
EDGE 2 Tx slots	24.64	24.62	24.59	25.50	18.64	18.62	18.59	19.50	
EDGE 3 Tx slots	22.41	22.40	22.38	23.50	18.15	18.14	18.12	19.24	
EDGE 4 Tx slots	20.55	20.51	20.49	21.50	17.55	17.51	17.49	18.50	
Mode		Max.	32.16			Max.	23.16		
Attenuator	Cable Loss : 0.6								
Date	7/7								

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810	512		661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	30.32	30.28	30.25	31.00	21.32	21.28	21.25	22.00	
GPRS 1 Tx slot	30.35	30.30	30.26	31.00	21.35	21.30	21.26	22.00	
GPRS 2 Tx slots	28.89	28.91	28.87	30.00	22.89	22.91	22.87	24.00	
GPRS 3 Tx slots	26.52	26.59	26.50	27.50	22.26	22.33	22.24	23.24	
GPRS 4 Tx slots	25.33	25.40	25.31	26.50	22.33	22.40	22.31	23.50	
EDGE 1 Tx slot	26.52	26.46	26.42	27.50	17.52	17.46	17.42	18.50	
EDGE 2 Tx slots	24.61	24.59	24.55	25.50	18.61	18.59	18.55	19.50	
EDGE 3 Tx slots	23.48	23.44	23.41	24.50	19.22	19.18	19.15	20.24	
EDGE 4 Tx slots	21.61	21.58	21.53	22.50	18.61	18.58	18.53	19.50	
Mode		Max.	30.35			Max.	22.91		
Attenuator	Cable Loss : 0.8								
Date	7/7								

Band		WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	Frequency (MHz)
		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.97	23.01	22.99	24.00
Attenuator		Cable Loss			0.6
Mode		Max.	23.01		
Date	7/7				

Band 2 (1900MHz Band) (dBm) Part 24E									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	23.09	23.11	23.08	24		
20	QPSK	1	49	23.00	23.05	23.03			
20	QPSK	1	99	22.80	22.86	22.78			
20	QPSK	50	0	22.22	22.25	22.22			
20	QPSK	50	24	22.08	22.16	22.14	23		
20	QPSK	50	50	22.03	22.05	22.01			
20	QPSK	100	0	22.17	22.21	22.19			
20	16QAM	1	0	22.35	22.38	22.37			
20	16QAM	1	49	22.27	22.33	22.31	23		
20	16QAM	1	99	21.96	22.06	22.01			
20	16QAM	50	0	21.14	21.22	21.13			
20	16QAM	50	24	21.11	21.13	21.07			
20	16QAM	50	50	20.97	21.03	21.02	22		
20	16QAM	100	0	21.05	21.14	21.04			
20	64QAM	1	0	21.18	21.21	21.12			
20	64QAM	1	49	21.11	21.16	21.09			
20	64QAM	1	99	20.95	21.04	21.02	22		
20	64QAM	50	0	20.24	20.25	20.22			
20	64QAM	50	24	20.06	20.13	20.10			
20	64QAM	50	50	19.93	20.03	19.96			
20	64QAM	100	0	20.14	20.17	20.10	21		
Channel				18875	18900	19125			
Frequency (MHz)				1887.5	1880	1902.5			
15	QPSK	1	0	23.05	23.08	23.06	24		
15	QPSK	1	37	22.92	23.03	23.00			
15	QPSK	1	74	22.73	22.82	22.73			
15	QPSK	36	0	22.19	22.23	22.21			
15	QPSK	36	20	21.98	22.15	22.11	23		
15	QPSK	36	39	22.01	21.95	21.93			
15	QPSK	75	0	22.14	22.12	22.13			
15	16QAM	1	0	22.31	22.30	22.31			
15	16QAM	1	37	22.19	22.30	22.30	23		
15	16QAM	1	74	21.94	21.99	21.94			
15	16QAM	36	0	21.10	21.15	21.10			
15	16QAM	36	20	21.06	21.05	21.03			
15	16QAM	36	39	20.89	21.02	21.00	22		
15	16QAM	75	0	21.03	21.06	21.03			
15	64QAM	1	0	21.12	21.13	21.08			
15	64QAM	1	37	21.01	21.13	21.06			
15	64QAM	1	74	20.93	21.00	20.93	21		
15	64QAM	36	0	20.19	20.20	20.16			
15	64QAM	36	20	20.00	20.08	20.07			
15	64QAM	36	39	19.92	19.94	19.88			
15	64QAM	75	0	20.07	20.09	20.05	Tune-up limit (dBm)		
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	23.03	23.05	23.01	24		
10	QPSK	1	25	22.90	23.04	23.02			
10	QPSK	1	49	22.70	22.78	22.68			
10	QPSK	25	0	22.14	22.18	22.14			
10	QPSK	25	12	22.03	22.08	22.11	23		
10	QPSK	25	25	21.94	22.03	21.90			
10	QPSK	50	0	22.14	22.14	22.10			
10	16QAM	1	0	22.28	22.35	22.29			
10	16QAM	1	25	22.26	22.32	22.22	23		
10	16QAM	1	49	21.87	21.97	21.91			
10	16QAM	25	0	21.12	21.21	21.07			
10	16QAM	25	12	21.10	21.11	21.04			
10	16QAM	25	25	20.95	21.01	20.96	22		
10	16QAM	50	0	20.95	21.08	21.01			
10	64QAM	1	0	21.14	21.14	21.02			
10	64QAM	1	25	21.06	21.07	21.04			
10	64QAM	1	49	20.94	20.96	20.95	22		
10	64QAM	25	0	20.23	20.18	20.13			
10	64QAM	25	12	20.02	20.11	20.05			
10	64QAM	25	25	19.90	19.95	19.95			
10	64QAM	50	0	20.04	20.12	20.01	21		
Channel				18625	18900	19175			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	23.03	23.03	22.99	24		
5	QPSK	1	12	22.90	23.00	22.94			
5	QPSK	1	24	22.76	22.82	22.77			
5	QPSK	12	0	22.18	22.22	22.20			
5	QPSK	12	7	22.03	22.13	22.04	23		
5	QPSK	12	13	22.02	22.03	21.97			
5	QPSK	25	0	22.10	22.15	22.10			
5	16QAM	1	0	22.30	22.31	22.36			
5	16QAM	1	12	22.21	22.24	22.24	23		
5	16QAM	1	24	21.87	22.00	21.96			
5	16QAM	12	0	21.05	21.18	21.12			
5	16QAM	12	7	21.09	21.12	21.06			
5	16QAM	12	13	20.87	21.00	20.96	22		
5	16QAM	25	0	20.99	21.05	21.00			
5	64QAM	1	0	21.17	21.11	21.07			
5	64QAM	1	12	21.02	21.10	21.06			
5	64QAM	1	24	20.88	21.02	21.01	22		
5	64QAM	12	0	20.21	20.15	20.20			
5	64QAM	12	7	20.04	20.09	20.03			
5	64QAM	12	13	19.87	19.98	19.94			
5	64QAM	25	0	20.09	20.16	20.08	21		
Channel				18815	18900	19185			
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	23.08	23.07	22.99	24		
3	QPSK	1	8	22.97	22.98	23.00			
3	QPSK	1	14	22.70	22.82	22.68			
3	QPSK	8	0	22.20	22.21	22.16			
3	QPSK	8	4	22.03	22.13	22.12	23		
3	QPSK	8	7	22.02	21.95	21.95			
3	QPSK	15	0	22.10	22.18	22.15			

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	23.24	23.26	23.23	24	
20	QPSK	1	49	23.13	23.17	23.12		
20	QPSK	1	99	23.05	23.12	23.08		
20	QPSK	50	0	22.20	22.28	22.27		
20	QPSK	50	24	22.17	22.24	22.20	23	
20	QPSK	50	50	22.19	22.26	22.21		
20	QPSK	100	0	22.19	22.23	22.17		
20	16QAM	1	0	22.62	22.66	22.61		
20	16QAM	1	49	22.46	22.49	22.42	23	
20	16QAM	1	99	22.58	22.59	22.57		
20	16QAM	50	0	21.17	21.23	21.13		
20	16QAM	50	24	21.28	21.29	21.25		
20	16QAM	50	50	21.26	21.35	21.30	22	
20	16QAM	100	0	21.23	21.28	21.18		
20	64QAM	1	0	21.49	21.58	21.48		
20	64QAM	1	49	21.45	21.48	21.39		
20	64QAM	1	99	21.34	21.44	21.35	22	
20	64QAM	50	0	20.19	20.26	20.24		
20	64QAM	50	24	20.15	20.23	20.14		
20	64QAM	50	50	20.24	20.25	20.15		
20	64QAM	100	0	20.22	20.26	20.18	21	
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		Tune-up limit (dBm)
15	QPSK	1	0	23.21	23.16	23.21		24
15	QPSK	1	37	23.05	23.09	23.08		
15	QPSK	1	74	22.97	23.04	23.00		
15	QPSK	38	0	22.12	22.19	22.18		
15	QPSK	38	20	22.13	22.23	22.11	23	
15	QPSK	38	39	22.16	22.20	22.13		
15	QPSK	75	0	22.18	22.13	22.13		
15	16QAM	1	0	22.61	22.57	22.53		
15	16QAM	1	37	22.40	22.44	22.36	23	
15	16QAM	1	74	22.51	22.55	22.56		
15	16QAM	38	0	21.10	21.15	21.06		
15	16QAM	38	20	21.19	21.22	21.22		
15	16QAM	38	39	21.21	21.34	21.28	22	
15	16QAM	75	0	21.20	21.21	21.08		
15	64QAM	1	0	21.45	21.51	21.46		
15	64QAM	1	37	21.44	21.42	21.36		
15	64QAM	1	74	21.26	21.38	21.26	22	
15	64QAM	38	0	20.13	20.24	20.19		
15	64QAM	38	20	20.09	20.17	20.09		
15	64QAM	38	39	20.16	20.17	20.06		
15	64QAM	75	0	20.14	20.21	20.15	21	
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		Tune-up limit (dBm)
10	QPSK	1	0	23.17	23.16	23.17		24
10	QPSK	1	25	23.10	23.12	23.07		
10	QPSK	1	49	23.04	23.02	22.99		
10	QPSK	25	0	22.19	22.19	22.22		
10	QPSK	25	12	22.13	22.21	22.13	23	
10	QPSK	25	25	22.17	22.24	22.11		
10	QPSK	50	0	22.09	22.13	22.13		
10	16QAM	1	0	22.52	22.65	22.58		
10	16QAM	1	25	22.43	22.43	22.41	23	
10	16QAM	1	49	22.57	22.49	22.47		
10	16QAM	25	0	21.11	21.21	21.11		
10	16QAM	25	12	21.19	21.19	21.18		
10	16QAM	25	25	21.18	21.28	21.29	22	
10	16QAM	50	0	21.17	21.19	21.15		
10	64QAM	1	0	21.40	21.53	21.46		
10	64QAM	1	25	21.44	21.41	21.35		
10	64QAM	1	49	21.27	21.42	21.32	22	
10	64QAM	25	0	20.12	20.20	20.20		
10	64QAM	25	12	20.11	20.13	20.07		
10	64QAM	25	25	20.21	20.23	20.05		
10	64QAM	50	0	20.18	20.23	20.09	21	
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		Tune-up limit (dBm)
5	QPSK	1	0	23.14	23.17	23.21		24
5	QPSK	1	12	23.04	23.15	23.07		
5	QPSK	1	24	23.04	23.09	23.03		
5	QPSK	12	0	22.15	22.23	22.24		
5	QPSK	12	7	22.12	22.21	22.10	23	
5	QPSK	12	13	22.13	22.23	22.20		
5	QPSK	25	0	22.14	22.22	22.10		
5	16QAM	1	0	22.58	22.65	22.54		
5	16QAM	1	12	22.38	22.42	22.32	23	
5	16QAM	1	24	22.51	22.56	22.55		
5	16QAM	12	0	21.09	21.22	21.05		
5	16QAM	12	7	21.21	21.25	21.23		
5	16QAM	12	13	21.16	21.30	21.28	22	
5	16QAM	25	0	21.21	21.26	21.12		
5	64QAM	1	0	21.42	21.56	21.38		
5	64QAM	1	12	21.37	21.47	21.33		
5	64QAM	1	24	21.30	21.37	21.29	22	
5	64QAM	12	0	20.09	20.23	20.22		
5	64QAM	12	7	20.08	20.19	20.07		
5	64QAM	12	13	20.19	20.19	20.06		
5	64QAM	25	0	20.16	20.24	20.16	21	
Channel				19965	20175	20385		
Frequency (MHz)				1711.5	1732.5	1753.5		Tune-up limit (dBm)
3	QPSK	1	0	23.15	23.16	23.21		24
3	QPSK	1	8	23.12	23.15	23.07		
3	QPSK	1	14	23.04	23.02	23.02		
3	QPSK	8	0	22.10	22.20	22.20		
3	QPSK	8	4	22.07	22.21	22.13	23	
3	QPSK	8	7	22.09	22.17	22.11		
3	QPSK	15	0	22.12	22.22	22.14		

3	16QAM	1	0	22.26	22.31	22.29	23
3	16QAM	1	8	22.26	22.23	22.24	
3	16QAM	1	14	21.93	21.99	21.96	
3	16QAM	8	0	21.06	21.18	21.08	22
3	16QAM	8	4	21.09	21.10	21.01	
3	16QAM	8	7	20.89	21.02	20.97	
3	16QAM	15	0	21.01	21.06	20.96	22
3	64QAM	1	0	21.10	21.14	21.05	
3	64QAM	1	8	21.03	21.13	21.07	
3	64QAM	1	14	20.94	21.01	20.95	21
3	64QAM	8	0	20.15	20.24	20.14	
3	64QAM	8	4	19.98	20.11	20.09	
3	64QAM	8	7	19.85	19.96	19.87	21
3	64QAM	15	0	20.05	20.07	20.09	
Channel				1860.7	1890.0	1919.3	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.02	23.01	23.00	
1.4	QPSK	1	3	22.92	22.98	23.00	24
1.4	QPSK	1	5	22.73	22.83	22.76	
1.4	QPSK	3	0	22.94	23.00	22.98	
1.4	QPSK	3	1	22.81	22.91	22.86	23
1.4	QPSK	3	3	22.73	22.84	22.78	
1.4	QPSK	6	0	22.14	22.16	22.15	
1.4	16QAM	1	0	22.32	22.36	22.32	23
1.4	16QAM	1	3	22.26	22.24	22.30	
1.4	16QAM	1	5	21.90	21.98	21.95	
1.4	16QAM	3	0	21.87	21.93	21.89	22
1.4	16QAM	3	1	21.89	21.83	21.79	
1.4	16QAM	3	3	21.74	21.78	21.74	
1.4	16QAM	6	0	21.02	21.10	20.99	22
1.4	64QAM	1	0	21.17	21.18	21.04	
1.4	64QAM	1	3	21.05	21.10	21.00	
1.4	64QAM	1	5	20.93	20.94	21.00	21
1.4	64QAM	3	0	20.99	21.02	21.01	
1.4	64QAM	3	1	20.79	20.91	20.89	
1.4	64QAM	3	3	20.71	20.77	20.71	21
1.4	64QAM	6	0	20.13	20.10	20.08	
1.4	64QAM	6	0	20.13	20.10	20.08	

3	16QAM	1	0	22.58	22.65	22.52	23
3	16QAM	1	8	22.40	22.42	22.36	
3	16QAM	1	14	22.48	22.53	22.56	
3	16QAM	8	0	21.12	21.16	21.07	22
3	16QAM	8	4	21.27	21.22	21.16	
3	16QAM	8	7	21.18	21.31	21.24	
3	16QAM	15	0	21.21	21.25	21.17	22
3	64QAM	1	0	21.47	21.55	21.41	
3	64QAM	1	8	21.44	21.45	21.31	
3	64QAM	1	14	21.31	21.42	21.32	21
3	64QAM	8	0	20.18	20.25	20.17	
3	64QAM	8	4	20.06	20.16	20.12	
3	64QAM	8	7	20.16	20.21	20.05	21
3	64QAM	15	0	20.16	20.23	20.11	
Channel				1996.7	2017.5	2039.3	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.15	23.18	23.19	
1.4	QPSK	1	3	23.10	23.07	23.03	24
1.4	QPSK	1	5	23.01	23.07	23.04	
1.4	QPSK	3	0	22.91	23.07	23.05	
1.4	QPSK	3	1	22.91	22.98	22.98	23
1.4	QPSK	3	3	22.95	22.99	22.94	
1.4	QPSK	6	0	22.17	22.14	22.12	
1.4	16QAM	1	0	22.58	22.61	22.59	23
1.4	16QAM	1	3	22.41	22.44	22.40	
1.4	16QAM	1	5	22.52	22.57	22.50	
1.4	16QAM	3	0	21.94	21.99	21.85	22
1.4	16QAM	3	1	21.98	22.00	21.97	
1.4	16QAM	3	3	21.97	22.14	22.00	
1.4	16QAM	6	0	21.13	21.24	21.17	22
1.4	64QAM	1	0	21.44	21.48	21.40	
1.4	64QAM	1	3	21.44	21.38	21.31	
1.4	64QAM	1	5	21.33	21.42	21.25	22
1.4	64QAM	3	0	20.92	21.01	20.95	
1.4	64QAM	3	1	20.87	21.02	20.85	
1.4	64QAM	3	3	21.01	21.01	20.93	21
1.4	64QAM	6	0	20.20	20.22	20.11	
1.4	64QAM	6	0	20.20	20.22	20.11	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.20	23.22	23.18	24		
10	QPSK	1	25	23.16	23.17	23.10			
10	QPSK	1	49	23.10	23.15	23.12			
10	QPSK	25	0	22.18	22.26	22.25			
10	QPSK	25	12	22.20	22.25	22.16	23		
10	QPSK	25	25	22.21	22.22	22.19			
10	QPSK	50	0	22.21	22.24	22.20			
10	16QAM	1	0	22.47	22.57	22.48			
10	16QAM	1	25	22.49	22.52	22.47	23		
10	16QAM	1	49	22.49	22.55	22.51			
10	16QAM	25	0	21.21	21.29	21.25			
10	16QAM	25	12	21.18	21.25	21.15			
10	16QAM	25	25	21.24	21.27	21.24	22		
10	16QAM	50	0	21.14	21.24	21.23			
10	64QAM	1	0	21.41	21.48	21.43			
10	64QAM	1	25	21.38	21.44	21.36			
10	64QAM	1	49	21.39	21.41	21.32	22		
10	64QAM	25	0	20.27	20.29	20.25			
10	64QAM	25	12	20.17	20.27	20.19			
10	64QAM	25	25	20.18	20.25	20.15			
10	64QAM	50	0	20.20	20.22	20.18	21		
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.19	23.13	23.16	24		
5	QPSK	1	12	23.15	23.12	23.00			
5	QPSK	1	24	23.06	23.10	23.07			
5	QPSK	12	0	22.12	22.20	22.23			
5	QPSK	12	7	22.17	22.18	22.09	23		
5	QPSK	12	13	22.17	22.13	22.09			
5	QPSK	25	0	22.17	22.20	22.15			
5	16QAM	1	0	22.45	22.50	22.41			
5	16QAM	1	12	22.41	22.49	22.42	23		
5	16QAM	1	24	22.45	22.47	22.49			
5	16QAM	12	0	21.15	21.20	21.23			
5	16QAM	12	7	21.14	21.20	21.10			
5	16QAM	12	13	21.21	21.24	21.23	22		
5	16QAM	25	0	21.04	21.16	21.13			
5	64QAM	1	0	21.39	21.38	21.34			
5	64QAM	1	12	21.29	21.35	21.35			
5	64QAM	1	24	21.36	21.33	21.22	22		
5	64QAM	12	0	20.22	20.19	20.16			
5	64QAM	12	7	20.09	20.18	20.10			
5	64QAM	12	13	20.16	20.18	20.07			
5	64QAM	25	0	20.16	20.17	20.13	21		
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.16	23.13	23.17	24		
3	QPSK	1	8	23.09	23.16	23.01			
3	QPSK	1	14	23.03	23.14	23.02			
3	QPSK	8	0	22.14	22.21	22.22			
3	QPSK	8	4	22.14	22.22	22.10	23		
3	QPSK	8	7	22.20	22.12	22.11			
3	QPSK	15	0	22.20	22.18	22.14			
3	16QAM	1	0	22.41	22.47	22.41			
3	16QAM	1	8	22.40	22.50	22.38	23		
3	16QAM	1	14	22.44	22.48	22.47			
3	16QAM	8	0	21.20	21.25	21.17			
3	16QAM	8	4	21.14	21.20	21.14			
3	16QAM	8	7	21.15	21.26	21.23	22		
3	16QAM	15	0	21.13	21.18	21.22			
3	64QAM	1	0	21.37	21.45	21.34			
3	64QAM	1	8	21.30	21.40	21.35			
3	64QAM	1	14	21.33	21.33	21.29	22		
3	64QAM	8	0	20.17	20.23	20.16			
3	64QAM	8	4	20.10	20.22	20.18			
3	64QAM	8	7	20.15	20.20	20.13			
3	64QAM	15	0	20.13	20.20	20.11	21		
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.15	23.16	23.09	24		
1.4	QPSK	1	3	23.09	23.13	23.07			
1.4	QPSK	1	5	23.09	23.09	23.04			
1.4	QPSK	3	0	22.95	22.98	23.01			
1.4	QPSK	3	1	22.99	22.95	22.88	23		
1.4	QPSK	3	3	22.94	22.97	22.91			
1.4	QPSK	6	0	22.19	22.22	22.16			
1.4	16QAM	1	0	22.43	22.55	22.38			
1.4	16QAM	1	3	22.39	22.43	22.38	23		
1.4	16QAM	1	5	22.47	22.49	22.45			
1.4	16QAM	3	0	21.93	22.01	21.98			
1.4	16QAM	3	1	21.88	21.95	21.90			
1.4	16QAM	3	3	22.00	22.01	22.03	22		
1.4	16QAM	6	0	21.09	21.20	21.18			
1.4	64QAM	1	0	21.38	21.46	21.37			
1.4	64QAM	1	3	21.32	21.41	21.34			
1.4	64QAM	1	5	21.38	21.39	21.22	22		
1.4	64QAM	3	0	21.04	21.06	21.00			
1.4	64QAM	3	1	20.94	21.05	20.98			
1.4	64QAM	3	3	20.94	21.00	20.92			
1.4	64QAM	6	0	20.13	20.14	20.16	21		

Band 7 (2600MHz Band) (dBm) Part 27								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.15	23.17	23.13	24	
20	QPSK	1	49	23.03	23.13	23.10		
20	QPSK	1	99	23.07	23.11	23.08		
20	QPSK	50	0	22.19	22.22	22.19		
20	QPSK	50	24	22.17	22.19	22.14	23	
20	QPSK	50	50	22.10	22.17	22.15		
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	0	22.21	22.30	22.22		
20	16QAM	1	49	22.24	22.27	22.23	23	
20	16QAM	1	99	22.23	22.26	22.22		
20	16QAM	50	0	21.23	21.26	21.16		
20	16QAM	50	24	21.19	21.24	21.15		
20	16QAM	50	50	21.15	21.23	21.15	22	
20	16QAM	100	0	21.18	21.25	21.23		
20	64QAM	1	0	21.19	21.28	21.19		
20	64QAM	1	49	21.20	21.24	21.14		
20	64QAM	1	99	21.29	21.30	21.27	22	
20	64QAM	50	0	20.26	20.33	20.29		
20	64QAM	50	24	20.20	20.29	20.27		
20	64QAM	50	50	20.25	20.30	20.24		
20	64QAM	100	0	20.28	20.32	20.30	21	
Channel				20825	21100	21375		Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.07	23.08	23.11	24	
15	QPSK	1	37	22.95	23.09	23.09		
15	QPSK	1	74	23.05	23.01	22.99		
15	QPSK	36	0	22.18	22.21	22.16		
15	QPSK	36	20	22.14	22.17	22.05	23	
15	QPSK	36	39	22.04	22.15	22.11		
15	QPSK	75	0	22.14	22.19	22.05		
15	16QAM	1	0	22.13	22.29	22.21		
15	16QAM	1	37	22.20	22.25	22.17	23	
15	16QAM	1	74	22.14	22.24	22.21		
15	16QAM	36	0	21.22	21.18	21.13		
15	16QAM	36	20	21.16	21.19	21.09		
15	16QAM	36	39	21.07	21.21	21.12	22	
15	16QAM	75	0	21.17	21.18	21.13		
15	64QAM	1	0	21.13	21.19	21.17		
15	64QAM	1	37	21.16	21.22	21.09		
15	64QAM	1	74	21.26	21.24	21.23	22	
15	64QAM	36	0	20.18	20.32	20.22		
15	64QAM	36	20	20.18	20.26	20.26		
15	64QAM	36	39	20.18	20.24	20.22		
15	64QAM	75	0	20.27	20.25	20.20	21	
Channel				20800	21100	21400		Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.12	23.09	23.09	24	
10	QPSK	1	25	22.97	23.03	23.04		
10	QPSK	1	49	23.05	23.04	23.06		
10	QPSK	25	0	22.13	22.16	22.16		
10	QPSK	25	12	22.15	22.17	22.13	23	
10	QPSK	25	25	22.04	22.11	22.13		
10	QPSK	50	0	22.11	22.15	22.08		
10	16QAM	1	0	22.12	22.25	22.14		
10	16QAM	1	25	22.19	22.26	22.19	23	
10	16QAM	1	49	22.17	22.20	22.12		
10	16QAM	25	0	21.13	21.23	21.15		
10	16QAM	25	12	21.09	21.14	21.12		
10	16QAM	25	25	21.06	21.13	21.07	22	
10	16QAM	50	0	21.11	21.15	21.13		
10	64QAM	1	0	21.18	21.26	21.14		
10	64QAM	1	25	21.18	21.18	21.09		
10	64QAM	1	49	21.22	21.23	21.19	22	
10	64QAM	25	0	20.19	20.23	20.20		
10	64QAM	25	12	20.15	20.20	20.19		
10	64QAM	25	25	20.23	20.29	20.22		
10	64QAM	50	0	20.23	20.22	20.21	21	
Channel				20775	21100	21425		Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.07	23.13	23.07	24	
5	QPSK	1	12	22.94	23.09	23.03		
5	QPSK	1	24	23.05	23.01	23.03		
5	QPSK	12	0	22.09	22.17	22.16		
5	QPSK	12	7	22.15	22.15	22.04	23	
5	QPSK	12	13	22.02	22.13	22.08		
5	QPSK	25	0	22.13	22.18	22.09		
5	16QAM	1	0	22.20	22.28	22.16		
5	16QAM	1	12	22.17	22.20	22.13	23	
5	16QAM	1	24	22.19	22.18	22.20		
5	16QAM	12	0	21.18	21.24	21.13		
5	16QAM	12	7	21.17	21.19	21.13		
5	16QAM	12	13	21.12	21.16	21.10	22	
5	16QAM	25	0	21.17	21.16	21.16		
5	64QAM	1	0	21.15	21.25	21.11		
5	64QAM	1	12	21.10	21.22	21.12		
5	64QAM	1	24	21.21	21.29	21.18	22	
5	64QAM	12	0	20.20	20.24	20.26		
5	64QAM	12	7	20.12	20.20	20.26		
5	64QAM	12	13	20.20	20.20	20.14		
5	64QAM	25	0	20.20	20.25	20.28	21	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		
Frequency (MHz)					822.5		
15	QPSK	1	0		23.85		24.5
15	QPSK	1	37		23.81		
15	QPSK	1	74		23.64		
15	QPSK	36	0		22.89		
15	QPSK	36	20		22.80		23.5
15	QPSK	36	39		22.85		
15	QPSK	75	0		22.88		
15	16QAM	1	0		23.10		
15	16QAM	1	37		23.09		23.5
15	16QAM	1	74		22.99		
15	16QAM	36	0		22.94		
15	16QAM	36	20		22.90		
15	16QAM	36	39		22.85		22.5
15	16QAM	75	0		22.90		
15	64QAM	1	0		22.02		
15	64QAM	1	37		21.98		
15	64QAM	1	74		22.00		22.5
15	64QAM	36	0		20.91		
15	64QAM	36	20		20.84		
15	64QAM	36	39		20.82		
15	64QAM	75	0		20.88		
Channel				23900	23925	23950	
Frequency (MHz)				820	822.5	825	Tune-up limit (dBm)
10	QPSK	1	0	23.82	23.72	23.75	24.5
10	QPSK	1	25	23.69	23.67	23.73	
10	QPSK	1	49	23.60	23.65	23.62	
10	QPSK	25	0	22.84	22.81	22.82	
10	QPSK	25	12	22.78	22.84	22.77	23.5
10	QPSK	25	25	22.86	22.87	22.80	
10	QPSK	50	0	22.82	22.77	22.84	
10	16QAM	1	0	22.95	23.05	23.04	
10	16QAM	1	25	22.99	23.07	22.93	23.5
10	16QAM	1	49	22.91	22.89	22.96	
10	16QAM	25	0	22.81	22.80	22.86	
10	16QAM	25	12	22.79	22.86	22.89	
10	16QAM	25	25	22.77	22.85	22.83	22.5
10	16QAM	50	0	22.85	22.86	22.74	
10	64QAM	1	0	21.93	21.95	21.92	
10	64QAM	1	25	21.97	21.95	21.93	
10	64QAM	1	49	21.94	21.84	21.94	21.5
10	64QAM	25	0	20.90	20.83	20.86	
10	64QAM	25	12	20.91	20.79	20.86	
10	64QAM	25	25	20.80	20.76	20.82	
10	64QAM	50	0	20.84	20.86	20.79	
Channel				23875	23925	23975	
Frequency (MHz)				817.5	822.5	827.5	Tune-up limit (dBm)
5	QPSK	1	0	23.75	23.78	23.72	24.50
5	QPSK	1	12	23.72	23.72	23.67	
5	QPSK	1	24	23.62	23.65	23.67	
5	QPSK	12	0	22.80	22.82	22.81	
5	QPSK	12	7	22.81	22.80	22.79	23.5
5	QPSK	12	13	22.81	22.83	22.81	
5	QPSK	25	0	22.74	22.80	22.91	
5	16QAM	1	0	22.92	22.99	23.06	
5	16QAM	1	12	22.94	23.06	22.92	23.5
5	16QAM	1	24	22.97	22.90	23.00	
5	16QAM	12	0	22.85	22.81	22.86	
5	16QAM	12	7	22.82	22.93	22.88	
5	16QAM	12	13	22.76	22.83	22.86	22.5
5	16QAM	25	0	22.82	22.79	22.76	
5	64QAM	1	0	21.93	21.93	21.95	
5	64QAM	1	12	21.98	22.00	21.98	
5	64QAM	1	24	21.93	21.89	21.94	21.5
5	64QAM	12	0	20.89	20.81	20.85	
5	64QAM	12	7	20.86	20.75	20.83	
5	64QAM	12	13	20.76	20.77	20.83	
5	64QAM	25	0	20.87	20.91	20.78	

Band 38(only on channel required) (dBm)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.44	23.47	23.46			
20	QPSK	1	49	23.41	23.45	23.39			
20	QPSK	1	99	23.36	23.42	23.38			
20	QPSK	50	0	22.46	22.55	22.48			
20	QPSK	50	24	22.44	22.48	22.41			
20	QPSK	50	50	22.44	22.45	22.42			
20	QPSK	100	0	22.41	22.50	22.40			
20	16QAM	1	0	22.45	22.52	22.43			
20	16QAM	1	49	22.39	22.49	22.41			
20	16QAM	1	99	22.43	22.51	22.44			
20	16QAM	50	0	21.59	21.60	21.52			
20	16QAM	50	24	21.48	21.57	21.50			
20	16QAM	50	50	21.49	21.55	21.53			
20	16QAM	100	0	21.46	21.56	21.50			
20	64QAM	1	0	21.56	21.58	21.48			
20	64QAM	1	49	21.48	21.56	21.54			
20	64QAM	1	99	21.46	21.54	21.46			
20	64QAM	50	0	20.61	20.63	20.62			
20	64QAM	50	24	20.50	20.58	20.55			
20	64QAM	50	50	20.52	20.55	20.49			
20	64QAM	100	0	20.58	20.60	20.58			
Channel				37825	38000	38175	Tune-up limit (dBm)		
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.35	23.39	23.37			
15	QPSK	1	37	23.40	23.41	23.36			
15	QPSK	1	74	23.26	23.32	23.28			
15	QPSK	36	0	22.36	22.46	22.47			
15	QPSK	36	20	22.36	22.41	22.33			
15	QPSK	36	39	22.37	22.38	22.37			
15	QPSK	75	0	22.35	22.41	22.35			
15	16QAM	1	0	22.36	22.48	22.35			
15	16QAM	1	37	22.37	22.42	22.40			
15	16QAM	1	74	22.34	22.43	22.42			
15	16QAM	36	0	21.52	21.55	21.43			
15	16QAM	36	20	21.45	21.50	21.45			
15	16QAM	36	39	21.40	21.47	21.48			
15	16QAM	75	0	21.37	21.46	21.48			
15	64QAM	1	0	21.51	21.57	21.44			
15	64QAM	1	37	21.40	21.55	21.45			
15	64QAM	1	74	21.42	21.44	21.39			
15	64QAM	36	0	20.59	20.60	20.60			
15	64QAM	36	20	20.42	20.53	20.48			
15	64QAM	36	39	20.43	20.45	20.40			
15	64QAM	75	0	20.53	20.59	20.53			
Channel				37800	38000	38200	Tune-up limit (dBm)		
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.37	23.37	23.43			
10	QPSK	1	25	23.34	23.36	23.29			
10	QPSK	1	49	23.29	23.39	23.30			
10	QPSK	25	0	22.45	22.52	22.40			
10	QPSK	25	12	22.42	22.44	22.32			
10	QPSK	25	25	22.39	22.42	22.34			
10	QPSK	50	0	22.31	22.48	22.36			
10	16QAM	1	0	22.40	22.49	22.33			
10	16QAM	1	25	22.30	22.41	22.40			
10	16QAM	1	49	22.42	22.45	22.34			
10	16QAM	25	0	21.51	21.57	21.49			
10	16QAM	25	12	21.43	21.52	21.49			
10	16QAM	25	25	21.41	21.54	21.47			
10	16QAM	50	0	21.41	21.51	21.42			
10	64QAM	1	0	21.54	21.48	21.45			
10	64QAM	1	25	21.39	21.49	21.49			
10	64QAM	1	49	21.42	21.53	21.45			
10	64QAM	25	0	20.57	20.62	20.52			
10	64QAM	25	12	20.43	20.51	20.51			
10	64QAM	25	25	20.44	20.54	20.48			
10	64QAM	50	0	20.54	20.50	20.49			
Channel				37775	38000	38225	Tune-up limit (dBm)		
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.41	23.40	23.36			
5	QPSK	1	12	23.35	23.36	23.30			
5	QPSK	1	24	23.26	23.34	23.29			
5	QPSK	12	0	22.37	22.49	22.39			
5	QPSK	12	7	22.37	22.43	22.32			
5	QPSK	12	13	22.41	22.39	22.34			
5	QPSK	25	0	22.33	22.49	22.36			
5	16QAM	1	0	22.43	22.50	22.41			
5	16QAM	1	12	22.37	22.43	22.37			
5	16QAM	1	24	22.41	22.43	22.42			
5	16QAM	12	0	21.55	21.55	21.49			
5	16QAM	12	7	21.43	21.50	21.46			
5	16QAM	12	13	21.42	21.49	21.51			
5	16QAM	25	0	21.39	21.55	21.41			
5	64QAM	1	0	21.46	21.49	21.42			
5	64QAM	1	12	21.44	21.48	21.51			
5	64QAM	1	24	21.37	21.50	21.45			
5	64QAM	12	0	20.59	20.53	20.61			
5	64QAM	12	7	20.41	20.54	20.50			
5	64QAM	12	13	20.51	20.46	20.41			
5	64QAM	25	0	20.54	20.50	20.53			

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				38750	38750	38750			
Frequency (MHz)				2310	2310	2310			
10	QPSK	1	0	23.66	23.66	23.66			
10	QPSK	1	25	23.61	23.61	23.61			
10	QPSK	1	49	23.62	23.62	23.62			
10	QPSK	25	0	22.73	22.73	22.73			
10	QPSK	25	12	22.63	22.63	22.63			
10	QPSK	25	25	22.70	22.70	22.70			
10	QPSK	50	0	22.71	22.71	22.71			
10	16QAM	1	0	22.71	22.71	22.71			
10	16QAM	1	25	22.69	22.69	22.69			
10	16QAM	1	49	22.70	22.70	22.70			
10	16QAM	25	0	21.81	21.81	21.81			
10	16QAM	25	12	21.76	21.76	21.76			
10	16QAM	25	25	21.78	21.78	21.78			
10	16QAM	50	0	21.78	21.78	21.78			
10	64QAM	1	0	21.74	21.74	21.74			
10	64QAM	1	25	21.70	21.70	21.70			
10	64QAM	1	49	21.69	21.69	21.69			
10	64QAM	25	0	20.68	20.68	20.68			
10	64QAM	25	12	20.66	20.66	20.66			
10	64QAM	25	25	20.66	20.66	20.66			
10	64QAM	50	0	20.64	20.64	20.64			
Channel				38725	38750	38775	Tune-up limit (dBm)		
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	23.53	23.57	23.55			
5	QPSK	1	12	23.54	23.45	23.55			
5	QPSK	1	24	23.55	23.61	23.58			
5	QPSK	12	0	22.67	22.59	22.61			
5	QPSK	12	7	22.61	22.59	22.58			
5	QPSK	12	13	22.65	22.61	22.65			

Band 40 (2.3G Band-2) (dBm)							
Part 27D-2 2350MHz ~ 2360MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			Tune-up limit (dBm)
Frequency (MHz)				2355			
10	QPSK	1	0		23.60		24.5
10	QPSK	1	25		23.56		
10	QPSK	1	49		23.57		
10	QPSK	25	0		22.69		23.5
10	QPSK	25	12		22.66		
10	QPSK	25	25		22.63		
10	QPSK	50	0		22.65		23.5
10	16QAM	1	0		22.70		
10	16QAM	1	25		22.72		
10	16QAM	1	49		22.60		22.5
10	16QAM	25	0		21.71		
10	16QAM	25	12		21.73		
10	16QAM	25	25		21.67		22.5
10	16QAM	50	0		21.67		
10	64QAM	1	0		21.61		
10	64QAM	1	25		21.71		22.5
10	64QAM	1	49		21.60		
10	64QAM	25	0		20.65		
10	64QAM	25	12		20.68		21.5
10	64QAM	25	25		20.64		
10	64QAM	50	0		20.67		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	23.59	23.59	23.61	24.5
5	QPSK	1	12	23.55	23.54	23.52	
5	QPSK	1	24	23.52	23.54	23.56	
5	QPSK	12	0	22.67	22.64	22.57	23.5
5	QPSK	12	7	22.57	22.59	22.52	
5	QPSK	12	13	22.59	22.64	22.72	
5	QPSK	25	0	22.66	22.62	22.66	23.5
5	16QAM	1	0	22.66	22.59	22.74	
5	16QAM	1	12	22.67	22.64	22.64	
5	16QAM	1	24	22.69	22.70	22.59	22.5
5	16QAM	12	0	21.67	21.82	21.71	
5	16QAM	12	7	21.71	21.65	21.69	
5	16QAM	12	13	21.70	21.64	21.70	22.5
5	16QAM	25	0	21.75	21.70	21.70	
5	64QAM	1	0	21.66	21.67	21.65	
5	64QAM	1	12	21.64	21.59	21.67	22.5
5	64QAM	1	24	21.55	21.64	21.55	
5	64QAM	12	0	20.64	20.64	20.69	
5	64QAM	12	7	20.59	20.66	20.67	21.5
5	64QAM	12	13	20.59	20.63	20.60	
5	64QAM	25	0	20.64	20.58	20.59	

Band 41 (2496~2690MHz) (dBm)(PC2)											
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Mid-Low Channel	Mid-High Channel	High Channel	Turn-up limit (dBm)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.67	25.68	25.76	25.85	25.46	26.5		
20	QPSK	1	49	25.70	25.71	25.75	25.87	25.45			
20	QPSK	1	99	25.64	25.69	25.73	25.80	25.40			
20	QPSK	80	0	24.74	24.80	24.77	24.65	24.56			
20	QPSK	50	24	24.67	24.64	24.67	24.63	24.57	25.5		
20	QPSK	50	50	24.67	24.63	24.73	24.58	24.42			
20	QPSK	100	0	24.63	24.68	24.76	24.61	24.47			
20	16QAM	1	0	24.77	24.71	24.67	24.67	24.58			
20	16QAM	1	49	24.65	24.66	24.84	24.66	24.48	25.5		
20	16QAM	1	99	24.76	24.67	24.79	24.63	24.48			
20	16QAM	50	0	23.65	23.70	23.74	23.66	23.46			
20	16QAM	50	24	23.67	23.69	23.77	23.59	23.45			
20	16QAM	50	50	23.67	23.67	23.76	23.55	23.38	24.5		
20	16QAM	100	0	23.68	23.57	23.77	23.62	23.53			
20	64QAM	1	0	23.81	23.75	23.92	23.74	23.58			
20	64QAM	1	49	23.75	23.77	23.84	23.72	23.58			
20	64QAM	1	99	23.66	23.72	23.86	23.63	23.48	24.5		
20	64QAM	50	0	22.69	22.70	22.78	22.66	22.55			
20	64QAM	50	24	22.67	22.65	22.73	22.60	22.42			
20	64QAM	50	50	22.67	22.66	22.74	22.58	22.52			
20	64QAM	100	0	22.69	22.63	22.75	22.55	22.36	23.5		
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.59	25.64	25.67	25.58	25.45	26.5		
15	QPSK	1	37	25.60	25.67	25.71	25.53	25.36			
15	QPSK	1	74	25.57	25.67	25.67	25.50	25.36			
15	QPSK	36	0	24.65	24.61	24.70	24.57	24.48			
15	QPSK	36	20	24.60	24.58	24.62	24.56	24.48	25.5		
15	QPSK	36	39	24.57	24.53	24.74	24.40	24.34			
15	QPSK	75	0	24.61	24.62	24.74	24.55	24.45			
15	16QAM	1	0	24.76	24.61	24.84	24.62	24.52			
15	16QAM	1	74	24.63	24.58	24.78	24.58	24.49	25.5		
15	16QAM	1	74	24.73	24.65	24.71	24.54	24.39			
15	16QAM	36	0	23.56	23.84	23.69	23.59	23.43			
15	16QAM	36	20	23.60	23.84	23.69	23.54	23.44			
15	16QAM	36	39	23.66	23.59	23.66	23.45	23.33	24.5		
15	16QAM	75	0	23.67	23.47	23.76	23.60	23.51			
15	64QAM	1	0	23.72	23.86	23.84	23.71	23.52			
15	64QAM	1	74	23.73	23.73	23.79	23.69	23.57			
15	64QAM	1	74	23.63	23.71	23.84	23.59	23.40	24.5		
15	64QAM	36	0	22.68	22.67	22.75	22.62	22.48			
15	64QAM	36	20	22.64	22.63	22.66	22.52	22.35			
15	64QAM	36	39	22.61	22.56	22.70	22.58	22.47			
15	64QAM	75	0	22.60	22.53	22.70	22.46	22.27	23.5		
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.58	25.60	25.70	25.60	25.39	26.5		
10	QPSK	1	25	25.61	25.68	25.73	25.55	25.40			
10	QPSK	1	49	25.56	25.68	25.67	25.59	25.33			
10	QPSK	36	0	24.70	24.61	24.71	24.55	24.47			
10	QPSK	25	12	24.65	24.57	24.62	24.54	24.49	25.5		
10	QPSK	25	25	24.63	24.55	24.71	24.51	24.40			
10	QPSK	80	0	24.56	24.63	24.68	24.56	24.44			
10	16QAM	1	0	24.75	24.65	24.83	24.62	24.52			
10	16QAM	1	25	24.69	24.62	24.77	24.65	24.51	25.5		
10	16QAM	1	49	24.73	24.61	24.74	24.55	24.45			
10	16QAM	25	0	23.55	23.63	23.84	23.63	23.41			
10	16QAM	25	12	23.66	23.85	23.67	23.56	23.39			
10	16QAM	25	25	23.64	23.66	23.68	23.47	23.33	24.5		
10	16QAM	80	0	23.60	23.51	23.69	23.54	23.43			
10	64QAM	1	0	23.79	23.68	23.84	23.67	23.53			
10	64QAM	1	25	23.74	23.72	23.83	23.67	23.57			
10	64QAM	1	49	23.57	23.66	23.83	23.58	23.44	23.5		
10	64QAM	25	0	22.67	22.66	22.70	22.62	22.45			
10	64QAM	25	12	22.61	22.62	22.72	22.54	22.37			
10	64QAM	25	25	22.65	22.61	22.70	22.62	22.48			
10	64QAM	50	0	22.62	22.60	22.67	22.49	22.35	23.5		
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.58	25.64	25.74	25.61	25.37	26.5		
5	QPSK	1	12	25.60	25.68	25.70	25.56	25.37			
5	QPSK	1	24	25.60	25.61	25.69	25.58	25.39			
5	QPSK	12	0	24.71	24.60	24.71	24.60	24.48			
5	QPSK	12	7	24.64	24.59	24.62	24.55	24.56	25.5		
5	QPSK	12	13	24.64	24.58	24.63	24.52	24.38			
5	QPSK	24	0	24.57	24.60	24.68	24.51	24.48			
5	16QAM	1	0	24.69	24.69	24.78	24.67	24.60			
5	16QAM	1	12	24.61	24.57	24.79	24.62	24.56	25.5		
5	16QAM	1	24	24.71	24.61	24.76	24.59	24.45			
5	16QAM	12	0	23.56	23.61	23.84	23.63	23.44			
5	16QAM	12	7	23.60	23.65	23.67	23.55	23.42			
5	16QAM	12	13	23.62	23.57	23.66	23.54	23.33	24.5		
5	16QAM	25	0	23.61	23.58	23.73	23.61	23.47			
5	64QAM	1	0	23.73	23.74	23.83	23.64	23.56			
5	64QAM	1	12	23.70	23.55	23.80	23.63	23.48			
5	64QAM	12	0	22.59	22.67	22.80	22.58	22.37	24.5		
5	64QAM	12	7	22.62	22.60	22.72	22.58	22.52			
5	64QAM	12	7	22.59	22.55	22.67	22.54	22.38			
5	64QAM	12	13	22.65	22.63	22.69	22.67	22.50			
5	64QAM	24	0	22.62	22.58	22.74	22.47	22.31	23.5		

Band 41 (2496~2690MHz) (dBm)(PC3)											
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Mid-Low Channel	Mid-High Channel	High Channel	Turn-up limit (dBm)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.86	22.90	23.01	22.94	22.80	24		
20	QPSK	1	49	22.72	22.79	22.89	22.85	22.78			
20	QPSK	1	99	22.73	22.81	22.96	22.79	22.70			
20	QPSK	80	0	21.99	22.05	22.12	22.00	21.82			
20	QPSK	50	24	21.98	22.03	22.05	21.94	21.84	23		
20	QPSK	50	50	21.90	21.86	22.03	21.89	21.88			
20	QPSK	100	0	21.79	21.94	21.94	21.88	21.84			
20	16QAM	1	0	21.87	22.04	22.13	21.96	21.91			
20	16QAM	1	49	21.95	21.93	22.05	21.94	21.88	23		
20	16QAM	1	99	21.88	21.93	22.08	21.80	21.93			
20	16QAM	50	0	20.74	20.78	20.93	20.79	20.77			
20	16QAM	50	24	20.72	20.80	20.89	20.77	20.71			
20	16QAM	50	50	20.73	20.78	20.91	20.76	20.71	22		
20	16QAM	100	0	20.70	20.81	20.88	20.80	20.76			
20	64QAM	1	0	20.88	20.96	21.00	20.84	20.86			
20	64QAM	1	49	20.87	20.95	21.02	20.85	20.84			
20	64QAM	1	99	20.84	20.90	21.02	20.86	20.77	22		
20	64QAM	50	0	19.80	19.80	19.99	19.71	19.79			
20	64QAM	50	24	19.84	19.87	19.96	19.71	19.79			
20	64QAM	50	50	19.73	19.84	19.95	19.77	19.73			
20	64QAM	100	0	19.76	19.86	19.88	19.79	19.76	21		
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.79	22.82	22.93	22.87	22.73	24		
15	QPSK	1	24	22.86	22.76	22.79	22.79	22.72	24		
15	QPSK	1	74	22.86	22.71	22.91	22.75	22.65			
15	QPSK	36	0	21.80	21.91	21.95	21.88	21.79			
15	QPSK	36	20	21.83	21.89	21.87	21.74	21.81			
15	QPSK	36	49	21.89	21.79	21.78	21.65	21.62	23		
15	QPSK	75	0	21.74	21.84	21.88	21.84	21.81			
15	16QAM	1	0	21.88	22.03	22.03	21.88	21.87			
15	16QAM	1	37	21.89	21.88	21.99	21.86	21.85			
15	16QAM	1	84	21.84	21.84	21.94	21.71	21.60	22		
15	16QAM	36	0	20.71	20.75	20.91	20.72	20.68			
15	16QAM	36	20	20.84	20.71	20.68	20.76	20.61			
15	16QAM	36	49	20.89	20.75	20.90	20.68	20.61			
15	64QAM	75	0	20.65	20.75	20.87	20.67	20.74	22		
15	64QAM	1	0	20.85	20.91	20.92	20.82	20.81			
15	64QAM	1	37	20.81	20.92	20.96	20.78	20.77			
15	64QAM	1	74	20.81	20.83	20.93	20.78	20.75			
15	64QAM	36	0	19.76	19.79	19.99	19.69	19.77	21		
15	64QAM	36	20	19.78	19.77	19.87	19.67	19.78			
15	64QAM	36	49	19.86	19.81	19.91	19.68	19.66			
15	64QAM	75	0	19.71	19.79	19.85	19.72	19.73			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.76	22.81	22.94	22.91	22.79	24		
10	QPSK	1	26	22.85	22.73	22.87	22.77	22.76	24		
10	QPSK	1	49	22.86	22.72	22.88	22.69	22.66			
10	QPSK	15	0	21.85	21.86	22.00	21.82	21.72			
10	QPSK	25	12	21.82	21.92	21.98	21.79	21.76			
10	QPSK	25	26	21.89	21.82	21.97	21.85	21.81	23		
10	QPSK	50	0	21.77	21.92	21.92	21.85	21.81			
10	16QAM	1	0	21.83	22.01	22.01	21.87	21.81			
10	16QAM	1	20	21.88	21.86	21.98	21.90	21.82			
10	16QAM	1	49	21.81	21.89	21.98	21.70	21.83	23		
10	16QAM	25	17	20.71	20.70	20.92	20.77	20.73			
10	16QAM	25	12	20.75	20.76	20.84	20.72	20.64			
10	16QAM	25	26	20.66	20.74	20.84	20.72	20.64			
10	16QAM	50	0	20.63	20.74	20.86	20.78	20.71	22		
10	16QAM	1	0	20.87	20.84	20.93	20.77	20.71			
10	16QAM	1	26	20.83	20.86	20.97	20.84	20.80			
10	64QAM	1	49	20.77	20.81	20.96	20.81	20.67			
10	64QAM	25	0	19.76	19.78	19.98	19.67	19.71	21		
10	64QAM	25	12	19.76	19.77	19.95	19.70	19.75			
10	64QAM	25	26	19.67	19.78	19.94	19.74	19.63			
10	64QAM	50	0	19.69	19.76	19.90	19.72	19.68			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.85	22.82	22.96	22.90	22.75	24		
5	QPSK	1	12	22.88	22.74	22.90	22.80	22.73	24		
5	QPSK	1	24	22.71	22.80	22.83	22.73	22.60			
5	QPSK	12	0	21.86	21.85	22.01	21.87	21.79			
5	QPSK	12	13	21.87	21.79	22.01	21.82	21.85			
5	QPSK	25	0	21.77	21.87	21.88	21.80	21.76	23		
5	16QAM	1	0	21.84	21.98	22.05	21.88	21.88			
5	16QAM	1	12	21.87	21.91	22.01	21.91	21.81			
5	16QAM	1	24	21.85	21.89	22.04	21.79	21.86			
5	16QAM	12	0	20.68	20.74	20.90	20.72	20.68	22		
5	16QAM	12	11	20.72	20.72	20.88	20.70	20.70			
5	16QAM	12	13	20.65	20.70	20.81	20.75	20.62			
5	16QAM	25	0	20.84	20.74	20.82	20.74	20.73			
5	64QAM	1	0	20.88	20.95	20.90	20.80	20.81	22		
5	64QAM	1	12	20.90	20.89	20.99	20.82	20.75			
5	64QAM	1	24	20.75	20.85	20.99	20.81	20.75			
5	64QAM	12	0	19.76	19.76	19.95	19.65	19.74			
5	64QAM	12	8	19.80	19.84	19.94	19.68	19.74	21		
5	64QAM	12	13	19.86	19.80	19.95	19.74	19.67			
5	64QAM	25	0	19.78	19.81	19.88	19.68	19.73			
5	64QAM	25	12	19.78	19.81	19.88	19.68	19.73			

**2.4GHz WLAN ANT 1**

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	17.68	18.50	19.00	98.62
		CH 6	2437	17.96	19.00	19.00	
		CH 11	2462	17.86	18.50	19.00	
	802.11g 6Mbps	CH 1	2412	16.07	17.00	18.00	98.38
		CH 6	2437	16.35	17.00	18.00	
		CH 11	2462	16.29	17.00	18.00	
	802.11n-HT20 MCS0	CH 1	2412	16.76	17.50	18.00	98.17
		CH 6	2437	17.02	18.00	18.00	
		CH 11	2462	16.82	17.50	18.00	
	802.11n-HT40 MCS0	CH 3	2422	16.91	18.00	18.00	95.00
		CH 6	2437	17.31	18.00	18.00	
		CH 9	2452	16.67	17.50	18.00	

5.2GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	17.42	18.50	20.00	97.96
		CH 44	5220	17.81	18.50	20.00	
		CH 48	5240	17.76	18.50	20.00	
	802.11n-HT20 MCS0	CH 36	5180	16.35	17.00	19.00	97.96
		CH 44	5220	16.64	17.50	19.00	
		CH 48	5240	16.47	17.50	19.00	
	802.11n-HT40 MCS0	CH 38	5190	17.33	18.00	18.00	95.92
		CH 46	5230	17.56	18.50	18.00	
		CH 48	5240	17.50	18.00	19.00	
	802.11ac-VHT20 MCS0	CH 36	5180	16.49	17.50	19.00	97.96
		CH 44	5220	16.80	17.50	19.00	
		CH 48	5240	16.61	17.50	19.00	
	802.11ac-VHT40 MCS0	CH 38	5190	16.30	17.00	17.00	95.92
		CH 46	5230	16.42	17.50	17.00	
		CH 42	5210	16.60	17.50	18.00	

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	16.69	17.50	19.00	97.96
		CH 60	5300	17.12	18.00	19.00	
		CH 64	5320	17.02	18.00	19.00	
	802.11n-HT20 MCS0	CH 52	5260	17.24	18.00	19.00	97.96
		CH 60	5300	17.56	18.50	19.00	
		CH 64	5320	17.42	18.50	19.00	
	802.11n-HT40 MCS0	CH 54	5270	16.86	17.50	17.00	95.92
		CH 62	5310	17.07	18.00	17.00	
		CH 52	5260	17.35	18.00	19.00	
	802.11ac-VHT20 MCS0	CH 60	5300	17.61	18.50	19.00	97.96
		CH 64	5320	17.59	18.50	19.00	
		CH 54	5270	16.94	18.00	17.00	
	802.11ac-VHT40 MCS0	CH 62	5310	17.06	18.00	17.00	95.92
		CH 58	5290	17.48	18.50	18.00	
		CH 58	5290	17.48	18.50	18.00	

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	16.23	17.00	18.00	97.96
		CH 120	5600	16.56	17.50	18.00	
		CH 144	5720	17.68	18.50	18.00	
	802.11n-HT20 MCS0	CH 100	5500	16.47	17.50	18.00	97.96
		CH 120	5600	16.87	17.50	18.00	
		CH 144	5720	17.96	19.00	18.00	
	802.11n-HT40 MCS0	CH 102	5510	17.20	18.00	17.00	95.92
		CH 126	5630	17.26	18.00	17.00	
		CH 142	5710	16.58	19.50	17.00	
	802.11ac-VHT20 MCS0	CH 100	5500	16.56	17.50	18.00	97.96
		CH 120	5600	16.86	17.50	18.00	
		CH 144	5720	18.01	19.00	18.00	
	802.11ac-VHT40 MCS0	CH 102	5510	17.23	18.00	17.00	95.92
		CH 126	5630	17.31	18.00	17.00	
		CH 142	5710	16.89	19.50	17.00	
	802.11ac-VHT80 MCS0	CH 106	5530	16.73	17.50	17.00	95.00
		CH 122	5610	17.49	18.50	17.00	
		CH 138	5690	18.07	19.00	17.00	

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	17.67	18.50	18.00	97.96
		CH 157	5785	17.25	18.00	18.00	
		CH 165	5825	16.58	17.50	18.00	
	802.11n-HT20 MCS0	CH 149	5745	17.96	19.00	18.00	97.96
		CH 157	5785	17.41	18.50	18.00	
		CH 165	5825	16.75	17.50	18.00	
	802.11n-HT40 MCS0	CH 151	5755	17.34	18.00	16.00	95.92
		CH 159	5795	16.56	17.50	16.00	
		CH 149	5745	16.71	17.50	17.00	
	802.11ac-VHT20 MCS0	CH 157	5785	16.08	17.00	17.00	97.96
		CH 165	5825	15.50	16.50	17.00	
		CH 151	5755	17.35	18.00	16.00	
	802.11ac-VHT40 MCS0	CH 159	5795	16.56	17.50	16.00	95.92
		CH 155	5775	17.46	18.50	17.00	
		CH 155	5775	17.46	18.50	17.00	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	6.97	10.00	6.60	8.00	6.92	8.00
	CH 36	2441	7.91	9.00	4.72	6.00	4.93	6.00
	CH 76	2489	7.07	8.00	3.95	5.00	4.29	5.00
Duty Cycle %			77.91		77.07		77.12	

Mode	Channel	Frequency (MHz)	1Mbps	
			Average power (dBm)	Tune-up Limit
LE	CH 00	2402	5.25	6.00
	CH 19	2440	4.96	6.00
	CH 39	2480	5.84	7.00
Duty Cycle %			62.96	

2CC LTE Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/R B/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_2C	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	23.02	24.00
	CA_7C	7	20	21152	2540.2	QPSK/1#0	7	20	21350	2560	23.02	24.00
	CA_2A-4A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	23.05	24.00
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	23.11	24.00
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	23.04	24.00
	CA_5A-5A	5	10	20450	829	QPSK/1#0	5	10	20600	844	23.15	24.00
	CA_5A-7A	5	10	20450	829	QPSK/1#0	7	20	21350	2560	23.04	24.00
	CA_2A-2A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	23.17	24.00
	CA_4A-4A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	23.22	24.00
	CA_7A-7A	7	20	20850	2510	QPSK/1#0	7	20	21350	2560	23.09	24.00
	CA_41A-41A	41	20	39750	2506	QPSK/1#0	41	20	41490	2680	23.03	24.00

Reduced Power Level 1

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	16.17	17.00	16.50	97.96
		CH 157	5785	15.75	16.50	16.50	
		CH 165	5825	15.08	16.00	16.50	
	802.11n-HT20 MCS0	CH 149	5745	16.48	17.50	16.50	97.96
		CH 157	5785	15.91	17.00	16.50	
		CH 165	5825	15.25	16.00	16.50	
	802.11n-HT40 MCS0	CH 151	5755	15.84	16.50	14.50	95.92
		CH 159	5795	15.06	16.00	14.50	
	802.11ac-VHT20 MCS0	CH 149	5745	15.21	16.00	15.50	97.96
		CH 157	5785	14.58	15.50	15.50	
		CH 165	5825	14.00	15.00	15.50	
	802.11ac-VHT40 MCS0	CH 151	5755	15.85	16.50	14.50	95.92
		CH 159	5795	15.06	16.00	14.50	
	802.11ac-VHT80 MCS0	CH 155	5775	15.96	17.00	15.50	92.00

Reduced Power Level 2

5.2GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	15.42	16.50	18.00	97.96
		CH 44	5220	15.81	16.50	18.00	
		CH 48	5240	15.76	16.50	18.00	
	802.11n-HT20 MCS0	CH 36	5180	14.35	15.00	17.00	97.96
		CH 44	5220	14.64	15.50	17.00	
		CH 48	5240	14.47	15.50	17.00	
	802.11n-HT40 MCS0	CH 38	5190	15.33	16.00	16.00	95.92
		CH 46	5230	15.56	16.50	16.00	
	802.11ac-VHT20 MCS0	CH 36	5180	14.49	15.50	17.00	97.96
		CH 44	5220	14.80	15.50	17.00	
		CH 48	5240	14.61	15.50	17.00	
	802.11ac-VHT40 MCS0	CH 38	5190	14.30	15.00	15.00	95.92
		CH 46	5230	14.42	15.50	15.00	
	802.11ac-VHT80 MCS0	CH 42	5210	14.60	15.50	16.00	92.00

5.3GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	14.69	15.50	17.00	97.96
		CH 60	5300	15.12	16.00	17.00	
		CH 64	5320	15.02	16.00	17.00	
	802.11n-HT20 MCS0	CH 52	5260	15.24	16.00	17.00	97.96
		CH 60	5300	15.56	16.50	17.00	
		CH 64	5320	15.42	16.50	17.00	
	802.11n-HT40 MCS0	CH 54	5270	14.86	15.50	15.00	95.92
		CH 62	5310	15.07	16.00	15.00	
	802.11ac-VHT20 MCS0	CH 52	5260	15.35	16.00	17.00	97.96
		CH 60	5300	15.61	16.50	17.00	
		CH 64	5320	15.59	16.50	17.00	
	802.11ac-VHT40 MCS0	CH 54	5270	14.94	16.00	15.00	95.92
		CH 62	5310	15.06	16.00	15.00	
	802.11ac-VHT80 MCS0	CH 58	5290	15.48	16.50	16.00	92.00

5.5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	11.73	12.50	13.50	97.96
		CH 120	5600	12.06	13.00	13.50	
		CH 144	5720	13.18	14.00	13.50	
	802.11n-HT20 MCS0	CH 100	5500	11.97	13.00	13.50	97.96
		CH 120	5600	12.37	13.00	13.50	
		CH 144	5720	13.46	14.50	13.50	
	802.11n-HT40 MCS0	CH 102	5510	12.70	13.50	12.50	95.92
		CH 126	5630	12.76	13.50	12.50	
		CH 142	5710	14.08	15.00	12.50	
	802.11ac-VHT20 MCS0	CH 100	5500	12.06	13.00	13.50	97.96
		CH 120	5600	12.36	13.00	13.50	
		CH 144	5720	13.51	14.50	13.50	
	802.11ac-VHT40 MCS0	CH 102	5510	12.73	13.50	12.50	95.92
		CH 126	5630	12.81	13.50	12.50	
		CH 142	5710	14.09	15.00	12.50	
802.11ac-VHT80 MCS0	CH 106	5530	12.23	13.00	12.50	95.00	
	CH 122	5610	12.99	14.00	12.50		
	CH 138	5690	13.57	14.50	12.50		

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	13.17	14.00	13.50	97.96
		CH 157	5785	12.75	13.50	13.50	
		CH 165	5825	12.08	13.00	13.50	
	802.11n-HT20 MCS0	CH 149	5745	13.48	14.50	13.50	97.96
		CH 157	5785	12.91	14.00	13.50	
		CH 165	5825	12.25	13.00	13.50	
	802.11n-HT40 MCS0	CH 151	5755	12.84	13.50	11.50	95.92
		CH 159	5795	12.06	13.00	11.50	
	802.11ac-VHT20 MCS0	CH 149	5745	12.21	13.00	12.50	97.96
		CH 157	5785	11.58	12.50	12.50	
		CH 165	5825	11.00	12.00	12.50	
	802.11ac-VHT40 MCS0	CH 151	5755	12.85	13.50	11.50	95.92
		CH 159	5795	12.06	13.00	11.50	
802.11ac-VHT80 MCS0	CH 155	5775	12.96	14.00	12.50	92.00	