



1 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

1.1 GSM Mode

GSM 850 Full Power ANT0&1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	33.50	32.92	32.83	33.00	9.03	24.47	23.89	23.80	23.97
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.50	32.90	33.15	32.97	9.03	24.47	23.87	24.12	23.94
	2 Tx Slots	30.50	29.51	29.72	29.51	6.02	23.98	23.49	23.70	23.49
	3 Tx Slots	29.50	28.64	28.37	28.19	4.26	24.74	24.38	24.11	23.93
	4 Tx Slots	28.00	27.14	27.02	27.21	3.01	24.49	24.13	24.01	24.20
EGPRS (8PSK)	1 Tx Slot	27.00	25.90	25.88	25.75	9.03	16.97	16.87	16.85	16.72
	2 Tx Slots	25.50	24.73	24.31	24.30	6.02	18.98	18.71	18.29	18.28
	3 Tx Slots	23.00	22.34	22.39	21.90	4.26	18.74	18.08	18.13	17.64
	4 Tx Slots	21.00	20.17	20.38	20.30	3.01	17.49	17.16	17.37	17.29

Notes:1. The worst-case configuration and mode for SAR testing is determined to be as follows:

2. Standalone: GSM 850 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.

GSM 1900 Full Power ANT0&1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.50	29.63	29.50	29.53	9.03	21.47	20.60	20.47	20.50
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	29.59	29.52	29.89	9.03	21.47	20.56	20.49	20.86
	2 Tx Slots	28.00	26.83	27.10	27.11	6.02	21.48	20.81	21.08	21.09
	3 Tx Slots	26.50	25.63	25.59	25.92	4.26	22.24	21.37	21.33	21.66
	4 Tx Slots	24.50	23.96	23.93	23.96	3.01	21.49	20.95	20.92	20.95
EGPRS (8PSK)	1 Tx Slot	26.00	24.94	24.99	25.25	9.03	16.97	15.91	15.96	16.22
	2 Tx Slots	24.00	23.30	23.28	23.51	6.02	17.98	17.28	17.26	17.49
	3 Tx Slots	21.50	20.57	20.70	20.89	4.26	17.24	16.31	16.44	16.63
	4 Tx Slots	20.50	19.32	19.47	19.71	3.01	17.49	16.31	16.46	16.70
Notes:1.The worst-case configuration and mode for SAR testing is determined to be as follows: 2. Standalone: GSM 900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

GSM 1900 ANT1 Level 1		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	28.00	27.15	27.23	27.55	9.03	18.97	18.12	18.20	18.52
GPRS/ EGPRS (GMSK)	1 Tx Slot	28.00	27.37	27.48	27.74	9.03	18.97	18.34	18.45	18.71
	2 Tx Slots	24.00	23.52	23.58	23.53	6.02	17.98	17.50	17.56	17.51
	3 Tx Slots	23.00	22.50	22.60	22.50	4.26	18.74	18.24	18.34	18.24
	4 Tx Slots	21.00	20.70	19.57	20.66	3.01	17.99	17.69	16.56	17.65
EGPRS (8PSK)	1 Tx Slot	26.00	25.51	25.61	25.67	9.03	16.97	16.48	16.58	16.64
	2 Tx Slots	24.00	23.42	23.45	23.35	6.02	17.98	17.40	17.43	17.33
	3 Tx Slots	21.00	20.81	20.91	20.97	4.26	16.74	16.55	16.65	16.71
	4 Tx Slots	20.00	19.49	18.45	19.79	3.01	16.99	16.48	15.44	16.78
Notes: 1.The worst-case configuration and mode for SAR testing is determined to be as follows: 2. Standalone: GSM 900 GMSK (GPRS) mode with 1 time slots for Max power, based on the output power measurements above.										

GSM 1900 ANT1 Level 2&3		Burst-Averaged output power(dBm)				Division Factors	Frame-Averaged output power(dBm)			
		Tune-up	Channel/Frenqucy(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	26.50	26.03	26.08	26.03	9.03	17.47	17.00	17.05	17.00
GPRS/ EGPRS (GMSK)	1 Tx Slot	26.50	26.23	26.30	26.22	9.03	17.47	17.20	17.27	17.19
	2 Tx Slots	23.00	21.91	22.41	22.34	6.02	16.98	15.89	16.39	16.32
	3 Tx Slots	21.50	20.87	20.92	20.85	4.26	17.24	16.61	16.66	16.59
	4 Tx Slots	20.00	19.24	18.03	19.64	3.01	16.99	16.23	15.02	16.63
EGPRS (8PSK)	1 Tx Slot	26.00	25.49	25.54	25.61	9.03	16.97	16.46	16.51	16.58
	2 Tx Slots	23.00	22.84	22.91	22.72	6.02	16.98	16.82	16.89	16.70
	3 Tx Slots	21.00	20.90	20.92	20.88	4.26	16.74	16.64	16.66	16.62
	4 Tx Slots	20.00	19.65	18.61	19.76	3.01	16.99	16.64	15.60	16.75
Notes:1.The worst-case configuration and mode for SAR testing is determined to be as follows: 2. Standalone: GSM 900 GMSK (GPRS) mode with 1 time slots for Max power, based on the output power measurements above.										

1.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

WCDMA		Band II(dBm) Full Power ANT0&1				Band II(dBm) ANT1 Level 1			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	23.81	23.90	23.99	24.00	18.61	18.67	18.63	19.00
HSDPA	Sub 1	22.80	22.93	22.99	23.50	18.20	18.31	18.17	18.50
	Sub 2	22.85	22.89	23.01	23.50	18.23	18.28	18.29	18.50
	Sub 3	22.32	22.40	22.52	23.00	17.19	17.27	17.12	18.00
	Sub 4	22.32	22.41	22.46	23.00	17.41	17.26	17.17	18.00
HSUPA	Sub 1	22.77	22.96	23.04	23.50	18.41	18.30	18.45	19.00
	Sub 2	19.84	19.95	20.00	20.50	15.65	15.74	15.75	16.00
	Sub 3	20.83	20.90	21.05	21.50	16.90	16.77	16.69	17.00
	Sub 4	19.86	19.94	20.01	20.50	15.81	15.79	15.69	16.00
	Sub 5	22.74	22.90	22.98	23.50	18.27	18.31	18.26	19.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA		Band II(dBm) ANT1 Level 2&3				Band II(dBm) ANT0&1 Level 5&6			
Tx Channel		9262	9400	9538	Tune-up	9262	9400	9538	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1852.4	1880	1907.6	Limit
RMC	12.2kbps	17.60	17.68	17.64	18.00	21.78	21.80	21.78	22.00
HSDPA	Sub 1	17.43	17.30	17.30	17.50	21.24	21.31	21.38	21.50
	Sub 2	17.27	17.26	17.38	17.50	21.21	21.29	21.26	21.50
	Sub 3	16.15	16.21	16.21	16.50	20.30	20.25	20.30	21.00
	Sub 4	16.23	16.22	16.27	16.50	20.36	20.28	20.25	21.00
HSUPA	Sub 1	17.05	17.20	17.34	17.50	19.85	19.71	19.72	20.00
	Sub 2	14.69	14.81	14.83	15.00	17.48	17.35	17.34	18.00
	Sub 3	15.66	15.74	15.75	16.00	18.14	18.24	18.19	19.00
	Sub 4	14.82	14.77	14.68	15.00	17.34	17.24	17.38	18.00
	Sub 5	17.29	17.25	17.33	17.50	19.84	19.81	19.71	20.00

Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".



WCDMA		Band IV(dBm) Full Power ANT0				Band IV(dBm) ANT1 Level 1			
Tx Channel		1312	1413	1513	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	24.30	24.27	24.16	24.50	17.54	17.57	17.49	18.50
HSDPA	Sub 1	22.87	22.81	22.79	23.50	16.71	16.61	16.72	17.00
	Sub 2	22.87	22.87	22.80	23.50	16.70	16.70	16.65	17.00
	Sub 3	22.36	22.37	22.27	23.00	16.13	16.03	16.22	17.00
	Sub 4	22.25	22.71	22.25	23.00	16.13	16.00	16.09	17.00
HSUPA	Sub 1	22.29	22.31	22.27	23.00	16.61	16.71	16.73	17.00
	Sub 2	20.37	20.34	20.18	21.00	14.60	14.74	14.70	15.00
	Sub 3	21.34	21.29	21.24	21.50	14.01	14.13	13.98	15.00
	Sub 4	20.34	20.36	20.32	21.00	14.03	14.01	13.93	15.00
	Sub 5	22.38	22.35	22.28	23.00	16.85	16.71	16.56	17.00
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".									

WCDMA		Band IV(dBm) ANT1 Level 2&3				Band IV(dBm) ANT0&1 Level 4			
Tx Channel		1312	1413	1513	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1712.4	1732.6	1752.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	15.97	16.01	16.00	17.00	21.62	21.61	21.54	22.00
HSDPA	Sub 1	15.16	15.15	15.26	16.00	20.08	20.13	20.02	21.00
	Sub 2	15.19	15.04	15.09	16.00	20.27	20.16	20.22	21.00
	Sub 3	14.61	14.51	14.54	15.50	19.55	19.58	19.73	20.00
	Sub 4	14.59	14.67	14.55	15.50	19.37	19.37	19.31	20.00
HSUPA	Sub 1	15.32	15.25	15.34	16.00	20.31	20.18	20.29	21.00
	Sub 2	13.25	13.19	13.13	14.00	18.19	18.05	18.16	19.00
	Sub 3	12.77	12.73	12.63	13.50	17.69	17.65	17.52	18.50
	Sub 4	12.45	12.41	12.27	13.50	17.99	18.12	18.24	18.50
	Sub 5	15.22	15.16	15.27	16.00	20.06	20.15	20.26	21.00
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".									

WCDMA		Band IV(dBm) ANT0&1 Level 5&6			
Tx Channel		1312	1413	1513	Tune-up Limit
Frequency(MHz)		1712.4	1732.6	1752.6	
RMC	12.2kbps	20.62	20.61	20.56	21.50
HSDPA	Sub 1	20.16	20.13	20.28	21.00
	Sub 2	20.11	20.07	19.95	21.00
	Sub 3	19.28	19.15	19.28	20.00
	Sub 4	18.96	19.07	19.14	20.00
HSUPA	Sub 1	19.54	19.66	19.76	20.00
	Sub 2	17.64	17.63	17.72	18.00
	Sub 3	17.09	17.07	16.92	18.00
	Sub 4	17.12	17.02	16.98	18.00
	Sub 5	19.51	19.65	19.62	20.00
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA		Band V(dBm) Full Power ANT0&1			
Tx Channel		4132	4183	4233	Tune-up Limit
Frequency(MHz)		826.4	836.6	846.6	
RMC	12.2kbps	23.77	23.75	23.68	25.00
HSDPA	Sub 1	22.77	22.75	22.68	23.50
	Sub 2	22.80	22.74	22.66	23.50
	Sub 3	22.26	22.20	22.15	23.00
	Sub 4	22.24	22.22	22.15	23.00
HSUPA	Sub 1	22.70	22.81	22.68	23.50
	Sub 2	20.85	20.82	20.70	21.50
	Sub 3	21.76	21.82	21.64	22.50
	Sub 4	20.78	20.82	20.73	21.50
	Sub 5	22.77	22.76	22.70	23.50
Note: 1.Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

1.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

LTE FDD Band 2 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.17	23.21	22.68	24.00
		1	2	23.24	23.27	22.57	24.00
		1	5	23.19	23.24	22.41	24.00
		3	0	23.21	23.21	22.10	24.00
		3	2	23.27	23.26	21.86	24.00
		3	3	23.20	23.25	21.57	24.00
		6	0	22.30	22.30	20.80	23.00
	16QAM	1	0	22.40	22.79	21.05	23.00
		1	2	22.46	22.76	20.93	23.00
		1	5	22.43	22.72	20.84	23.00
		3	0	22.33	22.52	21.22	23.00
		3	2	22.43	22.53	21.29	23.00
		3	3	22.40	22.48	21.14	23.00
		6	0	21.44	21.26	20.71	22.00
	64QAM	1	0	21.33	21.19	21.28	22.00
		1	2	21.20	21.46	20.82	22.00
		1	5	21.39	21.51	21.01	22.00
		3	0	21.21	21.23	21.33	22.00
		3	2	21.08	21.50	20.86	22.00
		3	3	21.45	21.44	21.20	22.00
		6	0	20.47	20.50	20.36	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.26	23.28	23.35	24.00
		1	7	23.36	23.40	22.92	24.00



		1	14	23.30	23.38	22.53	24.00
		8	0	22.36	22.38	22.26	23.00
		8	4	22.43	22.46	21.69	23.00
		8	7	22.35	22.39	21.35	23.00
		15	0	22.36	22.37	21.76	23.00
	16QAM	1	0	22.37	22.77	22.21	23.00
		1	7	22.41	22.88	21.74	23.00
		1	14	22.35	22.84	21.42	23.00
		8	0	21.50	21.46	21.48	22.00
		8	4	21.52	21.49	21.45	22.00
		8	7	21.47	21.50	21.05	22.00
		15	0	21.43	21.37	21.19	22.00
	64QAM	1	0	21.45	21.40	21.30	22.00
		1	7	21.29	21.45	20.95	22.00
		1	14	21.30	21.31	20.98	22.00
		8	0	20.41	20.39	20.45	21.00
		8	4	20.55	20.55	20.45	21.00
		8	7	20.40	20.58	20.45	21.00
		15	0	20.47	20.41	20.53	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.04	23.33	23.41	24.00
		1	13	23.37	23.40	23.33	24.00
		1	24	23.21	23.41	22.68	24.00
		12	0	22.39	22.36	22.40	23.00
		12	6	22.42	22.43	22.47	23.00
		12	13	22.42	22.46	21.66	23.00
		25	0	22.38	22.33	22.50	23.00
	16QAM	1	0	22.59	22.87	22.58	23.00
		1	13	22.64	22.97	22.64	23.00
		1	24	22.60	22.99	21.98	23.00
		12	0	21.44	21.49	21.51	22.00
		12	6	21.47	21.59	21.54	22.00
		12	13	21.47	21.57	21.41	22.00
		25	0	21.40	21.40	21.42	22.00
	64QAM	1	0	21.20	21.37	21.48	22.00
		1	13	21.13	21.50	20.72	22.00
		1	24	21.20	21.26	21.08	22.00
		12	0	20.38	20.37	20.35	21.00
		12	6	20.47	20.25	20.61	21.00
		12	13	20.55	20.42	20.55	21.00
		25	0	20.39	20.30	20.55	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up



				18650/1855	18900/1880	19150/1905	Limit
10MHz	QPSK	1	0	23.35	23.31	23.21	24.00
		1	25	23.26	23.32	23.38	24.00
		1	49	23.30	23.35	23.04	24.00
		25	0	22.43	22.32	22.36	23.00
		25	13	22.41	22.37	22.41	23.00
		25	25	22.36	22.50	22.51	23.00
		50	0	22.38	22.37	22.41	23.00
	16QAM	1	0	22.40	22.76	22.43	23.00
		1	25	22.24	22.82	22.37	23.00
		1	49	22.26	22.81	22.39	23.00
		25	0	21.42	21.42	21.46	22.00
		25	13	21.46	21.45	21.49	22.00
		25	25	21.41	21.52	21.61	22.00
		50	0	21.39	21.40	21.43	22.00
	64QAM	1	0	21.19	21.45	21.39	22.00
		1	25	21.30	21.31	20.85	22.00
		1	49	21.27	21.35	21.07	22.00
		25	0	20.17	20.35	20.37	21.00
		25	13	20.52	20.39	20.56	21.00
		25	25	20.43	20.54	20.47	21.00
		50	0	20.46	20.36	20.44	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.30	23.33	22.90	24.00
		1	38	23.28	23.30	23.38	24.00
		1	74	22.96	23.33	23.10	24.00
		36	0	22.31	22.36	22.26	23.00
		36	18	22.42	22.42	22.51	23.00
		36	39	22.41	22.48	22.49	23.00
		75	0	22.40	22.32	22.41	23.00
	16QAM	1	0	22.23	22.83	22.43	23.00
		1	38	22.33	22.77	22.91	23.00
		1	74	22.43	22.78	22.69	23.00
		36	0	21.29	21.40	21.20	22.00
		36	18	21.44	21.45	21.49	22.00
		36	39	21.39	21.50	21.48	22.00
		75	0	21.39	21.41	21.42	22.00
	64QAM	1	0	21.27	21.23	21.44	22.00
		1	38	21.08	21.26	20.84	22.00
		1	74	21.19	21.46	20.97	22.00
		36	0	20.33	20.42	20.34	21.00
		36	18	20.29	20.49	20.44	21.00



		36	39	20.30	20.41	20.34	21.00
		75	0	20.33	20.40	20.37	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	23.32	23.33	23.39	24.00
		1	50	23.15	23.36	22.82	24.00
		1	99	23.30	23.38	23.08	24.00
		50	0	22.32	22.38	22.34	23.00
		50	25	22.43	22.40	22.47	23.00
		50	50	22.42	22.47	22.48	23.00
		100	0	22.42	22.36	22.40	23.00
	16QAM	1	0	22.90	22.85	22.87	23.00
		1	50	22.86	22.92	22.68	23.00
		1	99	22.89	22.78	22.83	23.00
		50	0	21.36	21.39	21.35	22.00
		50	25	21.46	21.46	21.49	22.00
		50	50	21.47	21.50	21.46	22.00
		100	0	21.45	21.40	21.40	22.00
	64QAM	1	0	21.17	21.30	21.24	22.00
		1	50	21.15	21.29	20.68	22.00
		1	99	21.15	21.29	21.11	22.00
		50	0	20.17	20.45	20.48	21.00
		50	25	20.53	20.39	20.40	21.00
		50	50	20.33	20.35	20.61	21.00
		100	0	20.34	20.42	20.35	21.00

LTE FDD Band 2 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	18.20	18.23	17.89	19.00
		1	2	18.05	18.14	17.86	19.00
		1	5	17.97	18.23	17.82	19.00
		3	0	18.14	18.11	18.06	19.00
		3	2	18.14	18.18	18.15	19.00
		3	3	18.22	18.30	18.14	19.00
		6	0	18.33	17.98	18.04	19.00
	16QAM	1	0	18.02	18.25	18.15	19.00
		1	2	18.03	18.19	18.03	19.00
		1	5	18.06	18.02	17.87	19.00
		3	0	18.09	17.99	18.16	19.00
		3	2	18.39	18.18	17.95	19.00
		3	3	18.38	18.32	18.09	19.00



	64QAM	6	0	18.10	18.18	18.01	19.00
		1	0	17.92	18.11	18.00	19.00
		1	2	18.21	18.12	17.81	19.00
		1	5	17.95	17.97	18.00	19.00
		3	0	18.31	18.10	17.97	19.00
		3	2	18.40	18.04	18.21	19.00
		3	3	18.10	18.12	18.14	19.00
		6	0	18.31	18.21	18.04	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	18.05	18.17	17.96	19.00
		1	7	18.00	17.98	18.05	19.00
		1	14	18.15	18.11	17.99	19.00
		8	0	18.12	18.19	17.97	19.00
		8	4	18.07	17.97	18.06	19.00
		8	7	18.31	18.23	18.18	19.00
		15	0	18.33	18.21	18.05	19.00
	16QAM	1	0	18.10	18.30	17.97	19.00
		1	7	17.97	17.99	18.04	19.00
		1	14	18.13	18.09	17.95	19.00
		8	0	18.20	18.07	18.14	19.00
		8	4	18.26	18.04	18.10	19.00
		8	7	18.34	18.13	18.03	19.00
		15	0	18.11	17.93	18.05	19.00
	64QAM	1	0	18.02	18.15	17.86	19.00
		1	7	18.06	18.23	17.86	19.00
		1	14	18.15	17.85	17.98	19.00
		8	0	18.11	18.07	17.93	19.00
		8	4	18.17	18.19	18.28	19.00
		8	7	18.15	18.20	18.14	19.00
		15	0	18.20	18.22	18.20	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	17.93	18.05	18.02	19.00
		1	13	18.19	18.07	17.92	19.00
		1	24	18.11	18.18	17.94	19.00
		12	0	18.00	18.08	18.09	19.00
		12	6	18.29	17.97	18.14	19.00
		12	13	18.33	18.09	18.27	19.00
		25	0	18.15	18.18	18.14	19.00
	16QAM	1	0	18.20	18.27	18.07	19.00
		1	13	18.06	18.24	17.85	19.00
		1	24	18.11	18.07	17.85	19.00



		12	0	18.11	18.10	18.26	19.00
		12	6	18.43	18.14	18.18	19.00
		12	13	18.28	18.26	18.30	19.00
		25	0	18.29	17.97	18.09	19.00
	64QAM	1	0	18.07	18.06	17.79	19.00
		1	13	17.99	18.11	17.83	19.00
		1	24	18.19	17.92	17.94	19.00
		12	0	18.20	18.15	17.88	19.00
		12	6	18.39	18.11	18.25	19.00
		12	13	18.07	18.13	18.08	19.00
		25	0	18.21	18.39	18.14	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.22	18.26	17.93	19.00
		1	25	18.13	17.97	17.90	19.00
		1	49	18.26	18.20	17.84	19.00
		25	0	17.92	18.17	17.93	19.00
		25	13	18.08	18.07	17.95	19.00
		25	25	18.28	18.30	18.15	19.00
		50	0	18.21	18.24	18.01	19.00
	16QAM	1	0	18.18	18.17	17.97	19.00
		1	25	17.87	17.98	17.94	19.00
		1	49	18.00	18.05	17.75	19.00
		25	0	18.17	18.14	17.98	19.00
		25	13	18.33	18.19	17.97	19.00
		25	25	18.40	18.24	18.07	19.00
		50	0	18.13	18.03	17.93	19.00
	64QAM	1	0	17.86	18.02	17.96	19.00
		1	25	17.95	18.14	18.00	19.00
		1	49	18.04	18.06	17.99	19.00
		25	0	18.22	18.31	17.88	19.00
		25	13	18.22	18.14	18.11	19.00
		25	25	18.04	18.13	18.08	19.00
		50	0	18.19	18.27	18.05	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	18.01	17.98	18.01	19.00
		1	38	18.05	17.89	17.99	19.00
		1	74	18.16	18.15	17.98	19.00
		36	0	18.17	17.97	17.98	19.00
		36	18	18.30	17.97	18.05	19.00
		36	39	18.13	18.22	18.19	19.00
		75	0	18.12	18.06	18.03	19.00



	16QAM	1	0	18.04	18.08	18.14	19.00
		1	38	17.98	18.04	18.03	19.00
		1	74	18.07	18.10	17.76	19.00
		36	0	18.30	18.26	17.97	19.00
		36	18	18.35	18.12	17.94	19.00
		36	39	18.18	18.05	18.28	19.00
		75	0	18.19	18.15	17.99	19.00
	64QAM	1	0	18.08	17.92	18.07	19.00
		1	38	18.13	18.16	18.00	19.00
		1	74	17.98	17.87	17.91	19.00
		36	0	18.26	18.13	17.88	19.00
		36	18	18.27	18.18	18.27	19.00
		36	39	17.94	18.31	18.21	19.00
		75	0	18.10	18.15	17.95	19.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.08	18.12	18.00	19.00
		1	50	18.07	18.02	17.94	19.00
		1	99	18.12	18.08	17.95	19.00
		50	0	18.06	18.11	18.06	19.00
		50	25	18.20	18.08	18.09	19.00
		50	50	18.21	18.19	18.16	19.00
		100	0	18.18	18.11	18.08	19.00
	16QAM	1	0	18.08	18.21	18.08	19.00
		1	50	17.93	18.09	17.96	19.00
		1	99	18.08	18.03	17.81	19.00
		50	0	18.15	18.14	18.11	19.00
		50	25	18.30	18.18	18.08	19.00
		50	50	18.28	18.18	18.17	19.00
		100	0	18.17	18.04	17.96	19.00
	64QAM	1	0	17.96	18.05	17.92	19.00
		1	50	18.06	18.17	17.85	19.00
		1	99	18.08	17.96	17.88	19.00
		50	0	18.20	18.17	18.02	19.00
		50	25	18.25	18.18	18.21	19.00
		50	50	18.07	18.22	18.13	19.00
		100	0	18.23	18.25	18.05	19.00



LTE FDD Band 2 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	17.03	17.21	16.91	18.00
		1	2	17.18	17.18	17.02	18.00
		1	5	17.08	17.15	17.19	18.00
		3	0	16.95	17.03	17.15	18.00
		3	2	17.09	17.13	17.01	18.00
		3	3	17.22	17.07	17.29	18.00
		6	0	17.24	17.07	16.98	18.00
	16QAM	1	0	17.05	16.93	16.95	18.00
		1	2	17.25	17.07	16.73	18.00
		1	5	17.14	17.03	17.01	18.00
		3	0	16.94	17.04	17.24	18.00
		3	2	17.10	17.22	17.00	18.00
		3	3	17.12	17.38	17.28	18.00
		6	0	17.21	16.81	17.19	18.00
	64QAM	1	0	16.87	17.05	17.00	18.00
		1	2	17.04	16.96	16.86	18.00
		1	5	17.11	17.10	17.16	18.00
		3	0	17.07	17.20	17.30	18.00
		3	2	17.23	17.15	16.91	18.00
		3	3	17.05	17.41	17.23	18.00
		6	0	17.13	17.10	17.02	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	17.02	17.19	17.01	18.00
		1	7	17.14	16.89	16.79	18.00
		1	14	17.08	17.15	17.12	18.00
		8	0	17.20	17.09	16.94	18.00
		8	4	17.32	16.97	17.07	18.00
		8	7	17.05	17.24	17.27	18.00
		15	0	17.27	17.17	17.13	18.00
	16QAM	1	0	17.12	17.15	17.12	18.00
		1	7	17.04	16.95	16.66	18.00
		1	14	17.19	17.05	17.06	18.00
		8	0	16.91	17.08	17.25	18.00
		8	4	17.26	17.09	17.12	18.00
		8	7	17.21	17.42	17.24	18.00
		15	0	17.26	16.84	17.20	18.00
	64QAM	1	0	16.82	17.08	16.98	18.00



		1	7	17.14	17.03	17.07	18.00
		1	14	17.18	17.24	17.05	18.00
		8	0	17.17	17.33	17.09	18.00
		8	4	17.13	17.04	16.80	18.00
		8	7	17.19	17.34	17.25	18.00
		15	0	17.03	17.20	17.11	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	16.97	17.14	16.88	18.00
		1	13	16.97	17.14	17.00	18.00
		1	24	17.07	16.96	16.97	18.00
		12	0	17.02	16.96	17.07	18.00
		12	6	17.29	17.09	17.07	18.00
		12	13	17.27	17.24	17.16	18.00
		25	0	17.07	16.94	17.13	18.00
	16QAM	1	0	17.11	17.08	16.99	18.00
		1	13	17.09	16.86	16.70	18.00
		1	24	17.18	17.10	16.88	18.00
		12	0	16.97	17.02	17.09	18.00
		12	6	17.03	17.09	17.09	18.00
		12	13	17.09	17.44	17.23	18.00
		25	0	17.12	16.95	17.24	18.00
	64QAM	1	0	16.91	16.90	16.90	18.00
		1	13	17.07	16.84	16.87	18.00
		1	24	17.18	17.11	17.01	18.00
		12	0	16.94	17.10	17.28	18.00
		12	6	17.27	16.95	17.05	18.00
		12	13	17.09	17.18	17.22	18.00
		25	0	17.05	17.11	16.88	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	16.97	17.20	17.16	18.00
		1	25	16.95	16.99	16.87	18.00
		1	49	16.97	17.20	17.19	18.00
		25	0	17.24	16.98	17.04	18.00
		25	13	17.13	17.25	17.07	18.00
		25	25	17.08	17.15	17.00	18.00
		50	0	17.15	17.10	17.04	18.00
	16QAM	1	0	17.19	17.07	17.06	18.00
		1	25	17.22	17.00	16.69	18.00
		1	49	17.30	17.04	16.85	18.00
		25	0	16.92	17.01	17.24	18.00
		25	13	17.32	17.04	17.08	18.00



		25	25	17.17	17.48	17.17	18.00
		50	0	17.20	17.09	17.05	18.00
	64QAM	1	0	16.98	16.82	17.11	18.00
		1	25	17.04	16.98	16.90	18.00
		1	49	17.23	17.17	17.26	18.00
		25	0	17.11	17.24	17.16	18.00
		25	13	17.03	17.10	17.00	18.00
		25	25	17.15	17.36	17.04	18.00
		50	0	17.25	17.23	16.90	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	16.93	17.10	16.95	18.00
		1	38	17.13	16.97	16.99	18.00
		1	74	17.07	17.13	16.95	18.00
		36	0	17.10	17.13	17.05	18.00
		36	18	17.32	17.23	17.07	18.00
		36	39	17.18	17.33	17.08	18.00
		75	0	17.35	17.16	17.05	18.00
	16QAM	1	0	17.20	17.03	16.99	18.00
		1	38	17.11	16.92	16.84	18.00
		1	74	17.09	16.97	16.84	18.00
		36	0	17.09	17.13	17.26	18.00
		36	18	17.22	17.20	16.99	18.00
		36	39	17.12	17.25	17.14	18.00
		75	0	17.18	17.00	17.09	18.00
	64QAM	1	0	16.90	16.90	17.18	18.00
		1	38	17.03	17.04	17.05	18.00
		1	74	17.08	17.08	17.21	18.00
		36	0	17.18	17.06	17.31	18.00
		36	18	17.18	17.01	16.97	18.00
		36	39	17.17	17.32	17.22	18.00
		75	0	17.25	17.08	17.14	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	17.08	17.09	17.03	18.00
		1	50	17.03	17.03	16.89	18.00
		1	99	17.09	17.07	17.04	18.00
		50	0	17.09	17.08	17.05	18.00
		50	25	17.17	17.10	17.07	18.00
		50	50	17.17	17.20	17.14	18.00
		100	0	17.22	17.08	17.09	18.00
	16QAM	1	0	17.11	17.00	16.97	18.00
		1	50	17.16	16.98	16.81	18.00



		1	99	17.15	17.09	16.93	18.00
		50	0	17.00	17.12	17.13	18.00
		50	25	17.18	17.17	17.10	18.00
		50	50	17.21	17.33	17.16	18.00
		100	0	17.20	16.95	17.12	18.00
	64QAM	1	0	16.95	16.97	17.05	18.00
		1	50	17.10	16.95	16.98	18.00
		1	99	17.17	17.09	17.12	18.00
		50	0	17.07	17.19	17.19	18.00
		50	25	17.13	17.01	16.92	18.00
		50	50	17.11	17.29	17.16	18.00
		100	0	17.11	17.13	17.02	18.00

LTE FDD Band 2 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.00	21.25	21.04	22.00
		1	2	21.13	20.94	21.04	22.00
		1	5	21.21	20.98	20.84	22.00
		3	0	21.18	21.11	21.04	22.00
		3	2	21.14	21.07	21.05	22.00
		3	3	21.22	21.37	21.29	22.00
		6	0	21.21	20.99	21.19	22.00
	16QAM	1	0	21.15	21.28	21.11	22.00
		1	2	21.34	21.10	21.16	22.00
		1	5	21.27	20.97	20.92	22.00
		3	0	20.83	21.16	21.02	22.00
		3	2	21.06	21.17	20.89	22.00
		3	3	21.17	21.19	21.10	22.00
		6	0	21.26	20.86	20.92	22.00
	64QAM	1	0	21.20	21.13	21.21	22.00
		1	2	20.91	21.29	20.93	22.00
		1	5	21.20	21.01	20.89	22.00
		3	0	19.84	20.36	20.12	21.00
		3	2	20.43	20.01	20.23	21.00
		3	3	20.06	20.11	20.38	21.00
		6	0	20.15	20.28	20.37	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.09	21.20	20.99	22.00
		1	7	20.97	20.96	20.88	22.00
		1	14	21.08	21.02	20.99	22.00



		8	0	21.10	21.07	21.15	22.00
		8	4	21.31	21.03	21.02	22.00
		8	7	21.23	21.09	21.18	22.00
		15	0	21.12	20.94	21.08	22.00
	16QAM	1	0	21.29	21.12	20.91	22.00
		1	7	21.19	21.23	21.11	22.00
		1	14	21.15	21.18	21.13	22.00
		8	0	21.05	21.24	20.89	22.00
		8	4	21.08	21.22	21.14	22.00
		8	7	21.25	21.32	21.18	22.00
		15	0	21.23	21.00	20.92	22.00
	64QAM	1	0	21.17	21.30	21.20	22.00
		1	7	20.91	21.08	21.17	22.00
		1	14	21.14	21.04	20.91	22.00
		8	0	19.90	20.29	20.35	21.00
		8	4	20.19	20.23	20.29	21.00
		8	7	20.28	20.29	20.51	21.00
		15	0	20.11	20.29	20.29	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.12	21.13	21.14	22.00
		1	13	20.90	21.14	21.10	22.00
		1	24	21.27	21.13	20.96	22.00
		12	0	21.12	21.13	21.09	22.00
		12	6	21.17	21.29	21.19	22.00
		12	13	21.10	21.17	21.23	22.00
		25	0	21.08	21.18	21.13	22.00
	16QAM	1	0	21.33	21.40	21.13	22.00
		1	13	21.24	21.37	21.21	22.00
		1	24	21.33	20.95	21.13	22.00
		12	0	20.85	21.35	21.02	22.00
		12	6	21.14	21.02	21.04	22.00
		12	13	21.06	21.14	21.26	22.00
		25	0	21.33	21.07	20.78	22.00
	64QAM	1	0	21.22	21.06	21.21	22.00
		1	13	20.86	21.36	20.99	22.00
		1	24	21.04	21.16	20.95	22.00
		12	0	20.06	20.36	20.31	21.00
		12	6	20.31	20.03	20.27	21.00
		12	13	20.35	20.14	20.35	21.00
		25	0	20.04	20.12	20.29	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18650/1855	18900/1880	19150/1905	



10MHz	QPSK	1	0	21.01	21.18	21.10	22.00
		1	25	21.06	21.17	21.14	22.00
		1	49	21.10	21.01	21.10	22.00
		25	0	21.10	21.21	21.07	22.00
		25	13	21.20	21.13	21.04	22.00
		25	25	21.28	21.37	21.03	22.00
		50	0	21.35	21.20	21.22	22.00
	16QAM	1	0	21.15	21.29	20.90	22.00
		1	25	21.29	21.34	21.23	22.00
		1	49	21.38	21.03	21.00	22.00
		25	0	21.05	21.14	20.92	22.00
		25	13	20.96	21.04	20.93	22.00
		25	25	21.31	21.10	21.10	22.00
		50	0	21.18	20.99	20.96	22.00
	64QAM	1	0	21.06	21.17	21.06	22.00
		1	25	20.85	21.24	21.12	22.00
		1	49	21.09	20.97	20.97	22.00
		25	0	19.84	20.24	20.26	21.00
		25	13	20.22	20.00	20.33	21.00
		25	25	20.35	20.27	20.43	21.00
		50	0	20.33	20.06	20.39	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.23	21.16	20.97	22.00
		1	38	21.11	20.95	20.85	22.00
		1	74	21.15	21.25	20.87	22.00
		36	0	21.20	21.26	21.09	22.00
		36	18	21.25	21.24	21.18	22.00
		36	39	21.20	21.13	21.08	22.00
		75	0	21.28	20.96	21.21	22.00
	16QAM	1	0	21.18	21.38	20.95	22.00
		1	38	21.31	21.16	21.09	22.00
		1	74	21.22	21.16	21.10	22.00
		36	0	20.92	21.32	20.99	22.00
		36	18	20.99	20.99	21.13	22.00
		36	39	21.03	21.10	21.18	22.00
		75	0	21.34	21.04	21.02	22.00
	64QAM	1	0	21.29	21.32	21.05	22.00
		1	38	21.13	21.25	21.04	22.00
		1	74	21.13	21.04	20.77	22.00
		36	0	19.78	20.20	20.16	21.00
		36	18	20.16	20.17	20.24	21.00
		36	39	20.07	20.37	20.47	21.00



		75	0	20.32	20.21	20.32	21.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.13	21.11	21.05	22.00
		1	50	21.05	21.09	20.99	22.00
		1	99	21.13	21.12	20.98	22.00
		50	0	21.10	21.12	21.04	22.00
		50	25	21.20	21.14	21.13	22.00
		50	50	21.23	21.22	21.17	22.00
		100	0	21.20	21.09	21.07	22.00
	16QAM	1	0	21.19	21.25	21.05	22.00
		1	50	21.20	21.24	21.08	22.00
		1	99	21.24	21.10	21.04	22.00
		50	0	20.95	21.25	20.97	22.00
		50	25	21.08	21.14	21.02	22.00
		50	50	21.16	21.23	21.15	22.00
		100	0	21.30	20.97	20.93	22.00
	64QAM	1	0	21.20	21.17	21.13	22.00
		1	50	20.98	21.21	21.04	22.00
		1	99	21.19	21.11	20.85	22.00
		50	0	19.92	20.27	20.25	21.00
		50	25	20.30	20.14	20.29	21.00
		50	50	20.20	20.22	20.44	21.00
		100	0	20.19	20.17	20.25	21.00

LTE FDD Band 4 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	24.21	24.15	24.03	24.50
		1	2	24.26	24.24	24.14	24.50
		1	5	24.21	24.19	24.07	24.50
		3	0	24.22	24.13	24.02	24.50
		3	2	24.24	24.19	24.11	24.50
		3	3	24.23	24.15	24.08	24.50
		6	0	23.26	23.31	23.14	23.50
	16QAM	1	0	23.37	23.61	23.15	24.00
		1	2	23.47	23.66	23.22	24.00
		1	5	23.42	23.59	23.18	24.00
		3	0	23.29	23.45	23.27	24.00
		3	2	23.37	23.46	23.33	24.00
		3	3	23.29	23.42	23.29	24.00
		6	0	22.44	22.20	22.34	23.00



	64QAM	1	0	22.22	22.02	21.90	23.00
		1	2	22.27	22.34	22.10	23.00
		1	5	22.06	22.07	21.98	23.00
		3	0	22.07	22.26	22.04	23.00
		3	2	22.21	22.11	22.25	23.00
		3	3	22.27	22.13	21.94	23.00
		6	0	21.21	21.26	20.99	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	24.25	24.22	24.13	24.50
		1	7	24.34	24.29	24.16	24.50
		1	14	24.23	24.27	24.14	24.50
		8	0	23.34	23.29	23.15	23.50
		8	4	23.32	23.37	23.22	23.50
		8	7	23.29	23.37	23.19	23.50
		15	0	23.32	23.26	23.19	23.50
	16QAM	1	0	23.24	23.61	23.23	24.00
		1	7	23.31	23.71	23.27	24.00
		1	14	23.29	23.65	23.26	24.00
		8	0	22.45	22.35	22.25	23.00
		8	4	22.48	22.45	22.30	23.00
		8	7	22.43	22.43	22.26	23.00
		15	0	22.34	22.37	22.19	23.00
	64QAM	1	0	22.26	22.11	22.24	23.00
		1	7	22.32	22.25	22.12	23.00
		1	14	22.26	22.23	22.02	23.00
		8	0	21.30	21.18	21.15	22.00
		8	4	21.17	21.35	21.21	22.00
		8	7	21.30	21.51	21.32	22.00
		15	0	21.26	21.39	21.24	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	24.18	24.20	24.14	24.50
		1	13	24.28	24.25	24.13	24.50
		1	24	24.22	24.30	24.13	24.50
		12	0	23.27	23.23	23.16	23.50
		12	6	23.33	23.35	23.27	23.50
		12	13	23.28	23.34	23.25	23.50
		25	0	23.30	23.28	23.20	23.50
	16QAM	1	0	23.47	23.73	23.43	24.00
		1	13	23.50	23.88	23.39	24.00
		1	24	23.53	23.84	23.34	24.00
		12	0	22.35	22.38	22.26	23.00



		12	6	22.41	22.52	22.32	23.00
		12	13	22.38	22.45	22.27	23.00
		25	0	22.35	22.35	22.15	23.00
	64QAM	1	0	22.32	22.24	22.20	23.00
		1	13	22.26	22.35	22.24	23.00
		1	24	22.08	22.33	22.16	23.00
		12	0	21.30	21.38	21.04	22.00
		12	6	21.20	21.38	21.35	22.00
		12	13	21.27	21.48	21.11	22.00
		25	0	21.28	21.14	21.15	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	24.24	24.16	24.11	24.50
		1	25	24.16	24.20	24.10	24.50
		1	49	24.30	24.20	24.09	24.50
		25	0	23.30	23.15	23.11	23.50
		25	13	23.34	23.26	23.15	23.50
		25	25	23.29	23.25	23.24	23.50
		50	0	23.31	23.22	23.12	23.50
	16QAM	1	0	23.35	23.64	23.16	24.00
		1	25	23.17	23.60	23.12	24.00
		1	49	23.30	23.63	23.12	24.00
		25	0	22.32	22.23	22.19	23.00
		25	13	22.33	22.31	22.26	23.00
		25	25	22.33	22.29	22.28	23.00
		50	0	22.28	22.24	22.15	23.00
	64QAM	1	0	22.18	22.09	22.03	23.00
		1	25	22.49	22.31	22.15	23.00
		1	49	22.26	22.33	22.24	23.00
		25	0	21.45	21.43	21.16	22.00
		25	13	21.46	21.52	21.33	22.00
		25	25	21.42	21.23	21.12	22.00
		50	0	21.37	21.30	21.07	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	24.22	24.31	24.21	24.50
		1	38	24.13	24.11	24.03	24.50
		1	74	24.18	24.08	23.98	24.50
		36	0	23.23	23.27	23.17	23.50
		36	18	23.30	23.20	23.13	23.50
		36	39	23.24	23.20	23.17	23.50
		75	0	23.27	23.17	23.06	23.50
	16QAM	1	0	23.34	23.70	23.63	24.00



		1	38	23.18	23.56	23.59	24.00
		1	74	23.26	23.55	23.57	24.00
		36	0	22.21	22.31	22.17	23.00
		36	18	22.28	22.28	22.12	23.00
		36	39	22.26	22.28	22.12	23.00
		75	0	22.28	22.22	22.11	23.00
	64QAM	1	0	22.16	22.16	22.02	23.00
		1	38	22.49	22.41	22.14	23.00
		1	74	22.16	22.16	22.16	23.00
		36	0	21.21	21.42	21.30	22.00
		36	18	21.24	21.51	21.23	22.00
		36	39	21.28	21.22	21.18	22.00
		75	0	21.22	21.23	21.23	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	24.38	24.36	24.15	24.50
		1	50	24.11	24.16	23.95	24.50
		1	99	24.19	24.20	23.96	24.50
		50	0	23.35	23.27	23.15	23.50
		50	25	23.32	23.19	23.19	23.50
		50	50	23.22	23.20	23.10	23.50
		100	0	23.33	23.18	23.17	23.50
	16QAM	1	0	24.00	23.83	23.62	24.00
		1	50	23.67	23.60	23.41	24.00
		1	99	23.74	23.66	23.46	24.00
		50	0	22.30	22.31	22.15	23.00
		50	25	22.34	22.23	22.14	23.00
		50	50	22.26	22.24	22.09	23.00
		100	0	22.38	22.20	22.22	23.00
	64QAM	1	0	22.10	22.35	22.26	23.00
		1	50	22.29	22.15	22.26	23.00
		1	99	22.32	22.28	22.05	23.00
		50	0	21.48	21.22	21.06	22.00
		50	25	21.28	21.40	21.22	22.00
		50	50	21.39	21.26	21.26	22.00
		100	0	21.40	21.21	21.19	22.00

LTE FDD Band 4 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	16.93	17.26	16.89	18.00
		1	2	16.94	17.01	16.81	18.00
		1	5	17.06	17.09	16.79	18.00
		3	0	17.16	17.16	16.93	18.00
		3	2	17.23	16.98	16.86	18.00
		3	3	17.16	17.12	17.05	18.00
		6	0	17.11	16.94	17.10	18.00
	16QAM	1	0	17.29	17.46	16.84	18.00
		1	2	16.67	16.90	16.94	18.00
		1	5	16.91	17.27	16.73	18.00
		3	0	16.87	17.30	17.09	18.00
		3	2	17.07	17.26	16.78	18.00
		3	3	17.04	17.07	16.96	18.00
		6	0	17.03	17.08	17.06	18.00
	64QAM	1	0	16.89	17.09	16.94	18.00
		1	2	16.89	17.01	16.88	18.00
		1	5	16.80	17.02	16.84	18.00
		3	0	17.05	17.18	17.13	18.00
		3	2	16.97	17.09	17.02	18.00
		3	3	17.31	16.87	16.74	18.00
		6	0	16.93	17.22	16.94	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.95	17.26	16.93	18.00
		1	7	16.94	17.02	16.84	18.00
		1	14	16.93	16.97	16.89	18.00
		8	0	17.00	16.96	16.98	18.00
		8	4	17.19	17.14	16.85	18.00
		8	7	17.20	17.04	16.86	18.00
		15	0	17.18	17.15	16.91	18.00
	16QAM	1	0	17.29	17.32	16.96	18.00
		1	7	16.87	16.90	16.88	18.00
		1	14	17.03	17.01	16.73	18.00
		8	0	17.01	17.32	17.02	18.00
		8	4	16.95	17.08	16.87	18.00
		8	7	17.23	17.00	16.83	18.00
		15	0	17.17	17.04	17.10	18.00
	64QAM	1	0	17.02	17.10	17.15	18.00



		1	7	16.66	16.95	16.95	18.00
		1	14	16.96	16.94	16.90	18.00
		8	0	17.07	17.10	17.10	18.00
		8	4	16.96	17.07	17.01	18.00
		8	7	17.38	16.89	17.02	18.00
		15	0	16.89	17.29	16.80	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	17.10	17.18	17.15	18.00
		1	13	16.80	16.97	16.96	18.00
		1	24	17.13	17.05	16.76	18.00
		12	0	17.08	17.15	16.96	18.00
		12	6	17.06	17.15	16.90	18.00
		12	13	17.23	17.22	16.95	18.00
		25	0	17.09	16.97	17.13	18.00
	16QAM	1	0	17.30	17.24	16.88	18.00
		1	13	16.91	16.95	16.84	18.00
		1	24	17.07	17.01	16.61	18.00
		12	0	16.99	17.26	17.25	18.00
		12	6	16.97	17.29	16.95	18.00
		12	13	17.14	17.07	16.92	18.00
		25	0	17.29	17.10	17.16	18.00
	64QAM	1	0	17.03	17.24	16.92	18.00
		1	13	16.77	16.95	16.86	18.00
		1	24	17.06	17.14	16.85	18.00
		12	0	17.02	17.35	16.99	18.00
		12	6	16.99	16.98	17.07	18.00
		12	13	17.14	17.05	16.91	18.00
		25	0	17.00	17.09	17.04	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	16.96	17.24	16.98	18.00
		1	25	16.86	17.09	16.78	18.00
		1	49	17.03	16.97	16.83	18.00
		25	0	17.16	17.21	16.92	18.00
		25	13	17.19	17.02	17.10	18.00
		25	25	17.04	17.21	16.88	18.00
		50	0	17.18	17.14	16.87	18.00
	16QAM	1	0	17.23	17.26	16.82	18.00
		1	25	16.68	16.90	16.80	18.00
		1	49	16.89	17.24	16.71	18.00
		25	0	16.92	17.24	17.09	18.00
		25	13	17.04	17.29	17.05	18.00



		25	25	17.28	17.03	16.98	18.00
		50	0	17.00	17.07	17.11	18.00
	64QAM	1	0	16.90	17.24	16.99	18.00
		1	25	16.77	16.82	16.87	18.00
		1	49	17.01	17.16	17.00	18.00
		25	0	17.24	17.28	16.91	18.00
		25	13	17.10	17.15	17.20	18.00
		25	25	17.17	16.85	16.98	18.00
		50	0	16.96	17.19	17.03	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	16.97	17.15	17.04	18.00
		1	38	16.85	17.05	16.95	18.00
		1	74	17.10	17.06	17.01	18.00
		36	0	17.20	16.99	17.18	18.00
		36	18	17.10	17.05	17.03	18.00
		36	39	16.98	17.05	17.09	18.00
		75	0	17.06	16.90	17.07	18.00
	16QAM	1	0	17.10	17.37	17.06	18.00
		1	38	16.67	16.99	16.90	18.00
		1	74	17.07	17.07	16.83	18.00
		36	0	16.95	17.24	16.96	18.00
		36	18	16.94	17.06	16.85	18.00
		36	39	17.30	17.00	16.86	18.00
		75	0	17.07	17.11	16.98	18.00
	64QAM	1	0	16.94	17.08	16.97	18.00
		1	38	16.89	16.80	16.80	18.00
		1	74	17.05	16.90	16.82	18.00
		36	0	17.23	17.34	16.93	18.00
		36	18	17.04	17.28	17.16	18.00
		36	39	17.31	17.13	17.02	18.00
		75	0	17.15	17.12	16.82	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	17.06	17.21	17.03	18.00
		1	50	16.89	16.97	16.85	18.00
		1	99	17.02	17.04	16.90	18.00
		50	0	17.05	17.10	17.04	18.00
		50	25	17.11	17.04	16.99	18.00
		50	50	17.09	17.09	17.01	18.00
		100	0	17.17	17.03	17.00	18.00
	16QAM	1	0	17.16	17.34	16.93	18.00
		1	50	16.79	16.98	16.87	18.00



		1	99	17.03	17.12	16.76	18.00
		50	0	17.00	17.18	17.11	18.00
		50	25	17.07	17.16	16.91	18.00
		50	50	17.16	17.04	16.88	18.00
		100	0	17.15	17.17	17.12	18.00
	64QAM	1	0	16.96	17.21	17.00	18.00
		1	50	16.78	16.95	16.93	18.00
		1	99	16.92	17.03	16.91	18.00
		50	0	17.10	17.24	16.98	18.00
		50	25	16.99	17.13	17.12	18.00
		50	50	17.24	17.00	16.87	18.00
		100	0	17.04	17.17	16.92	18.00

LTE FDD Band 4 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	15.62	15.62	15.50	16.50
		1	2	15.40	15.59	15.35	16.50
		1	5	15.53	15.61	15.26	16.50
		3	0	15.56	15.78	15.73	16.50
		3	2	15.58	15.53	15.61	16.50
		3	3	15.60	15.51	15.44	16.50
		6	0	15.53	15.54	15.46	16.50
	16QAM	1	0	15.65	15.79	15.31	16.50
		1	2	15.37	15.35	15.31	16.50
		1	5	15.47	15.68	15.51	16.50
		3	0	15.75	15.61	15.69	16.50
		3	2	15.43	15.66	15.58	16.50
		3	3	15.50	15.61	15.67	16.50
		6	0	15.51	15.27	15.68	16.50
	64QAM	1	0	15.41	15.51	15.24	16.50
		1	2	15.28	15.45	15.12	16.50
		1	5	15.67	15.31	15.33	16.50
		3	0	15.73	15.83	15.72	16.50
		3	2	15.63	15.80	15.28	16.50
		3	3	15.55	15.82	15.35	16.50
		6	0	15.72	15.52	15.52	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	15.50	15.45	15.50	16.50
		1	7	15.39	15.43	15.17	16.50
		1	14	15.71	15.67	15.43	16.50



		8	0	15.58	15.59	15.60	16.50
		8	4	15.62	15.69	15.44	16.50
		8	7	15.62	15.62	15.53	16.50
		15	0	15.58	15.66	15.57	16.50
	16QAM	1	0	15.64	15.64	15.43	16.50
		1	7	15.26	15.51	15.15	16.50
		1	14	15.54	15.78	15.38	16.50
		8	0	15.54	15.65	15.71	16.50
		8	4	15.46	15.65	15.32	16.50
		8	7	15.52	15.66	15.50	16.50
		15	0	15.55	15.54	15.54	16.50
	64QAM	1	0	15.38	15.50	15.46	16.50
		1	7	15.41	15.62	15.22	16.50
		1	14	15.66	15.55	15.32	16.50
		8	0	15.72	15.76	15.63	16.50
		8	4	15.57	15.87	15.44	16.50
		8	7	15.77	15.71	15.52	16.50
		15	0	15.81	15.52	15.49	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	15.62	15.69	15.57	16.50
		1	13	15.57	15.57	15.33	16.50
		1	24	15.55	15.69	15.53	16.50
		12	0	15.80	15.59	15.69	16.50
		12	6	15.54	15.64	15.44	16.50
		12	13	15.68	15.52	15.61	16.50
		25	0	15.58	15.66	15.51	16.50
	16QAM	1	0	15.78	15.66	15.49	16.50
		1	13	15.44	15.36	15.15	16.50
		1	24	15.46	15.71	15.47	16.50
		12	0	15.67	15.81	15.55	16.50
		12	6	15.66	15.49	15.39	16.50
		12	13	15.57	15.74	15.47	16.50
		25	0	15.66	15.38	15.71	16.50
	64QAM	1	0	15.65	15.63	15.35	16.50
		1	13	15.15	15.63	15.32	16.50
		1	24	15.61	15.29	15.25	16.50
		12	0	15.67	15.78	15.56	16.50
		12	6	15.69	15.76	15.33	16.50
		12	13	15.59	15.67	15.55	16.50
		25	0	15.73	15.50	15.72	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	



10MHz	QPSK	1	0	15.65	15.52	15.42	16.50
		1	25	15.42	15.36	15.43	16.50
		1	49	15.42	15.52	15.34	16.50
		25	0	15.69	15.61	15.70	16.50
		25	13	15.64	15.52	15.58	16.50
		25	25	15.57	15.48	15.42	16.50
		50	0	15.51	15.44	15.60	16.50
	16QAM	1	0	15.75	15.69	15.56	16.50
		1	25	15.53	15.59	15.31	16.50
		1	49	15.63	15.81	15.59	16.50
		25	0	15.57	15.57	15.46	16.50
		25	13	15.64	15.59	15.52	16.50
		25	25	15.42	15.55	15.64	16.50
		50	0	15.58	15.52	15.55	16.50
	64QAM	1	0	15.59	15.58	15.54	16.50
		1	25	15.43	15.55	15.19	16.50
		1	49	15.62	15.35	15.49	16.50
		25	0	15.74	15.68	15.76	16.50
		25	13	15.66	15.63	15.30	16.50
		25	25	15.72	15.80	15.43	16.50
		50	0	15.71	15.49	15.54	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	15.66	15.68	15.44	16.50
		1	38	15.48	15.54	15.25	16.50
		1	74	15.70	15.63	15.44	16.50
		36	0	15.74	15.50	15.63	16.50
		36	18	15.70	15.73	15.40	16.50
		36	39	15.49	15.45	15.52	16.50
		75	0	15.61	15.52	15.58	16.50
	16QAM	1	0	15.63	15.77	15.51	16.50
		1	38	15.42	15.59	15.24	16.50
		1	74	15.41	15.57	15.59	16.50
		36	0	15.64	15.74	15.46	16.50
		36	18	15.54	15.60	15.59	16.50
		36	39	15.68	15.84	15.57	16.50
		75	0	15.69	15.50	15.70	16.50
	64QAM	1	0	15.59	15.77	15.35	16.50
		1	38	15.39	15.59	15.22	16.50
		1	74	15.58	15.53	15.22	16.50
		36	0	15.81	15.79	15.72	16.50
		36	18	15.64	15.76	15.57	16.50
		36	39	15.74	15.82	15.39	16.50



		75	0	15.74	15.55	15.51	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	15.65	15.60	15.50	16.50
		1	50	15.42	15.48	15.28	16.50
		1	99	15.57	15.56	15.38	16.50
		50	0	15.65	15.65	15.61	16.50
		50	25	15.68	15.59	15.53	16.50
		50	50	15.60	15.59	15.53	16.50
		100	0	15.66	15.56	15.49	16.50
	16QAM	1	0	15.67	15.69	15.41	16.50
		1	50	15.38	15.47	15.29	16.50
		1	99	15.51	15.70	15.53	16.50
		50	0	15.65	15.66	15.58	16.50
		50	25	15.55	15.57	15.45	16.50
		50	50	15.55	15.69	15.59	16.50
		100	0	15.65	15.42	15.56	16.50
	64QAM	1	0	15.51	15.64	15.39	16.50
		1	50	15.30	15.55	15.17	16.50
		1	99	15.61	15.44	15.36	16.50
		50	0	15.76	15.68	15.69	16.50
		50	25	15.69	15.74	15.42	16.50
		50	50	15.66	15.72	15.49	16.50
		100	0	15.77	15.47	15.60	16.50

LTE FDD Band 4 ANT0&1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.78	21.63	21.60	22.00
		1	2	21.72	21.90	21.57	22.00
		1	5	21.77	21.81	21.84	22.00
		3	0	21.91	21.60	21.54	22.00
		3	2	21.88	21.98	21.89	22.00
		3	3	21.77	21.75	21.74	22.00
		6	0	21.75	21.47	21.38	22.00
	16QAM	1	0	21.99	21.58	21.79	22.00
		1	2	21.74	21.89	21.65	22.00
		1	5	21.68	21.77	21.51	22.00
		3	0	21.75	21.98	21.50	22.00
		3	2	21.94	21.77	21.74	22.00
		3	3	21.68	21.60	21.47	22.00
		6	0	21.95	21.42	21.56	22.00



	64QAM	1	0	21.79	21.55	21.65	22.00
		1	2	21.83	21.68	21.63	22.00
		1	5	21.83	21.77	21.64	22.00
		3	0	21.58	21.67	21.68	22.00
		3	2	21.87	21.94	21.75	22.00
		3	3	21.81	21.62	21.55	22.00
		6	0	21.73	21.69	21.53	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.90	21.76	21.85	22.00
		1	7	21.92	21.81	21.59	22.00
		1	14	21.65	21.78	21.78	22.00
		8	0	21.70	21.86	21.77	22.00
		8	4	21.83	21.94	21.67	22.00
		8	7	21.59	21.83	21.67	22.00
		15	0	21.69	21.57	21.63	22.00
	16QAM	1	0	21.83	21.69	21.75	22.00
		1	7	21.67	21.63	21.73	22.00
		1	14	21.92	21.74	21.65	22.00
		8	0	21.89	21.90	21.56	22.00
		8	4	21.95	21.77	21.84	22.00
		8	7	21.68	21.73	21.50	22.00
		15	0	21.79	21.56	21.59	22.00
	64QAM	1	0	21.98	21.61	21.83	22.00
		1	7	21.90	21.86	21.60	22.00
		1	14	21.92	21.64	21.52	22.00
		8	0	21.53	21.54	21.70	22.00
		8	4	21.81	21.80	21.91	22.00
		8	7	21.68	21.89	21.63	22.00
		15	0	21.67	21.53	21.56	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.65	21.82	21.73	22.00
		1	13	21.90	21.89	21.63	22.00
		1	24	21.67	21.66	21.64	22.00
		12	0	21.83	21.90	21.78	22.00
		12	6	21.88	21.75	21.86	22.00
		12	13	21.78	21.92	21.63	22.00
		25	0	21.76	21.73	21.39	22.00
	16QAM	1	0	21.76	21.64	21.78	22.00
		1	13	21.77	21.82	21.57	22.00
		1	24	21.67	21.72	21.63	22.00
		12	0	21.93	21.84	21.60	22.00



		12	6	21.98	21.82	21.65	22.00
		12	13	21.59	21.56	21.69	22.00
		25	0	21.79	21.38	21.54	22.00
	64QAM	1	0	21.77	21.77	21.72	22.00
		1	13	21.69	21.92	21.62	22.00
		1	24	21.73	21.60	21.69	22.00
		12	0	21.68	21.81	21.72	22.00
		12	6	21.93	21.84	21.77	22.00
		12	13	21.72	21.72	21.78	22.00
		25	0	21.71	21.78	21.64	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.71	21.86	21.71	22.00
		1	25	21.73	21.69	21.67	22.00
		1	49	21.69	21.92	21.74	22.00
		25	0	21.67	21.69	21.71	22.00
		25	13	21.86	21.94	21.87	22.00
		25	25	21.61	21.79	21.69	22.00
		50	0	21.70	21.61	21.38	22.00
	16QAM	1	0	21.99	21.80	21.62	22.00
		1	25	21.77	21.64	21.47	22.00
		1	49	21.74	21.96	21.54	22.00
		25	0	21.88	21.80	21.70	22.00
		25	13	21.94	21.96	21.69	22.00
		25	25	21.67	21.79	21.49	22.00
		50	0	21.92	21.52	21.76	22.00
	64QAM	1	0	21.89	21.63	21.65	22.00
		1	25	21.63	21.77	21.54	22.00
		1	49	21.88	21.89	21.44	22.00
		25	0	21.57	21.55	21.76	22.00
		25	13	21.76	21.75	21.89	22.00
		25	25	21.76	21.88	21.56	22.00
		50	0	21.59	21.75	21.66	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.91	21.73	21.80	22.00
		1	38	21.63	21.76	21.71	22.00
		1	74	21.77	21.69	21.78	22.00
		36	0	21.68	21.83	21.62	22.00
		36	18	21.89	21.70	21.88	22.00
		36	39	21.82	21.80	21.67	22.00
		75	0	21.74	21.54	21.64	22.00
	16QAM	1	0	21.75	21.77	21.58	22.00



		1	38	21.60	21.79	21.44	22.00
		1	74	21.72	21.98	21.64	22.00
		36	0	21.81	21.84	21.62	22.00
		36	18	21.95	21.85	21.69	22.00
		36	39	21.78	21.54	21.46	22.00
		75	0	21.82	21.59	21.70	22.00
		1	0	21.90	21.67	21.59	22.00
	64QAM	1	38	21.72	21.80	21.68	22.00
		1	74	21.76	21.68	21.53	22.00
		36	0	21.73	21.77	21.79	22.00
		36	18	21.87	21.99	21.73	22.00
		36	39	21.57	21.72	21.66	22.00
		75	0	21.77	21.66	21.44	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.77	21.78	21.73	22.00
		1	50	21.78	21.76	21.69	22.00
		1	99	21.75	21.81	21.69	22.00
		50	0	21.81	21.75	21.67	22.00
		50	25	21.85	21.85	21.74	22.00
		50	50	21.71	21.77	21.64	22.00
		100	0	21.80	21.61	21.52	22.00
	16QAM	1	0	21.87	21.68	21.64	22.00
		1	50	21.68	21.76	21.58	22.00
		1	99	21.79	21.86	21.66	22.00
		50	0	21.90	21.89	21.65	22.00
		50	25	21.97	21.90	21.78	22.00
		50	50	21.74	21.65	21.60	22.00
		100	0	21.89	21.47	21.64	22.00
	64QAM	1	0	21.88	21.63	21.73	22.00
		1	50	21.75	21.79	21.60	22.00
		1	99	21.81	21.74	21.59	22.00
		50	0	21.66	21.69	21.71	22.00
		50	25	21.86	21.86	21.87	22.00
		50	50	21.68	21.74	21.65	22.00
		100	0	21.69	21.64	21.53	22.00

LTE FDD Band 4 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	20.94	21.22	20.99	21.50
		1	2	20.74	20.92	20.86	21.50
		1	5	21.11	20.99	20.83	21.50
		3	0	21.15	21.21	21.03	21.50
		3	2	21.06	20.90	21.01	21.50
		3	3	21.04	21.09	20.91	21.50
		6	0	21.06	21.06	21.02	21.50
	16QAM	1	0	21.22	21.27	21.05	21.50
		1	2	20.83	21.20	21.12	21.50
		1	5	20.95	21.15	21.10	21.50
		3	0	21.17	21.18	21.08	21.50
		3	2	21.09	21.14	21.13	21.50
		3	3	21.14	20.94	20.87	21.50
		6	0	21.27	20.91	20.94	21.50
	64QAM	1	0	21.03	21.22	21.24	21.50
		1	2	20.86	20.69	20.70	21.50
		1	5	20.96	20.82	20.84	21.50
		3	0	20.98	21.36	21.04	21.50
		3	2	20.85	21.07	21.08	21.50
		3	3	20.99	21.09	20.88	21.50
		6	0	21.05	21.08	20.95	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	20.92	21.17	21.13	21.50
		1	7	20.91	20.94	20.98	21.50
		1	14	20.85	21.22	20.92	21.50
		8	0	21.15	21.03	21.00	21.50
		8	4	21.09	21.12	21.11	21.50
		8	7	21.07	21.14	21.09	21.50
		15	0	21.02	21.18	21.11	21.50
	16QAM	1	0	21.01	21.23	21.28	21.50
		1	7	20.91	20.94	20.97	21.50
		1	14	21.09	21.27	20.88	21.50
		8	0	21.10	21.24	21.02	21.50
		8	4	21.16	21.11	21.00	21.50
		8	7	20.90	20.92	20.99	21.50
		15	0	21.13	21.21	21.05	21.50
	64QAM	1	0	21.03	21.38	21.08	21.50



		1	7	20.78	20.92	20.70	21.50
		1	14	20.99	20.97	20.85	21.50
		8	0	20.84	21.25	20.99	21.50
		8	4	20.96	21.03	21.04	21.50
		8	7	21.05	21.10	20.93	21.50
		15	0	21.12	21.01	21.11	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.07	21.18	20.90	21.50
		1	13	21.03	20.91	20.77	21.50
		1	24	21.12	20.92	20.81	21.50
		12	0	21.06	20.93	20.93	21.50
		12	6	21.14	21.14	21.05	21.50
		12	13	21.13	21.12	21.01	21.50
		25	0	21.24	20.99	21.11	21.50
	16QAM	1	0	21.03	21.30	21.24	21.50
		1	13	20.95	20.95	20.84	21.50
		1	24	21.15	21.19	20.97	21.50
		12	0	21.02	21.36	21.12	21.50
		12	6	21.16	21.27	21.18	21.50
		12	13	21.05	20.96	20.93	21.50
		25	0	21.11	21.17	20.92	21.50
	64QAM	1	0	21.06	21.20	21.03	21.50
		1	13	20.74	20.88	20.86	21.50
		1	24	20.96	20.81	20.90	21.50
		12	0	20.95	21.11	20.93	21.50
		12	6	20.99	21.19	21.02	21.50
		12	13	20.99	21.07	20.99	21.50
		25	0	21.08	20.90	20.90	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.19	21.12	21.08	21.50
		1	25	20.95	20.87	20.70	21.50
		1	49	20.92	21.12	21.00	21.50
		25	0	20.89	21.00	21.10	21.50
		25	13	21.21	20.96	20.84	21.50
		25	25	21.06	21.06	21.02	21.50
		50	0	21.21	20.99	20.87	21.50
	16QAM	1	0	20.98	21.34	21.25	21.50
		1	25	20.83	20.94	21.09	21.50
		1	49	20.93	21.36	20.84	21.50
		25	0	21.23	21.12	21.10	21.50
		25	13	20.97	21.26	20.98	21.50



		25	25	20.95	21.06	20.99	21.50
		50	0	21.09	21.10	21.04	21.50
	64QAM	1	0	21.07	21.36	21.22	21.50
		1	25	20.88	20.96	20.69	21.50
		1	49	20.84	21.05	20.82	21.50
		25	0	21.04	21.16	20.96	21.50
		25	13	20.93	21.19	21.08	21.50
		25	25	21.16	20.94	20.81	21.50
		50	0	21.19	20.89	21.15	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	20.94	21.16	20.90	21.50
		1	38	20.98	21.06	20.71	21.50
		1	74	20.89	20.95	20.92	21.50
		36	0	21.16	21.07	20.92	21.50
		36	18	21.20	21.19	20.93	21.50
		36	39	21.13	20.98	21.17	21.50
		75	0	21.24	21.04	21.13	21.50
	16QAM	1	0	21.00	21.13	21.17	21.50
		1	38	20.96	21.17	21.00	21.50
		1	74	21.10	21.16	20.80	21.50
		36	0	21.20	21.36	21.10	21.50
		36	18	21.02	21.13	21.00	21.50
		36	39	20.91	21.02	20.85	21.50
		75	0	21.16	21.10	21.02	21.50
	64QAM	1	0	20.99	21.39	21.10	21.50
		1	38	20.81	20.91	20.81	21.50
		1	74	20.82	20.97	20.67	21.50
		36	0	20.97	21.26	20.82	21.50
		36	18	21.08	21.19	20.85	21.50
		36	39	21.12	21.03	21.01	21.50
		75	0	21.03	20.96	20.88	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.04	21.18	21.01	21.50
		1	50	20.88	20.92	20.83	21.50
		1	99	21.00	21.07	20.89	21.50
		50	0	21.02	21.08	21.04	21.50
		50	25	21.09	21.05	20.98	21.50
		50	50	21.05	21.09	21.03	21.50
		100	0	21.09	21.05	21.00	21.50
	16QAM	1	0	21.08	21.27	21.14	21.50
		1	50	20.97	21.07	20.98	21.50



		1	99	21.07	21.21	20.95	21.50
		50	0	21.10	21.23	21.12	21.50
		50	25	21.04	21.16	21.05	21.50
		50	50	20.99	20.98	20.92	21.50
		100	0	21.18	21.06	20.96	21.50
	64QAM	1	0	20.95	21.31	21.13	21.50
		1	50	20.74	20.83	20.75	21.50
		1	99	20.93	20.93	20.80	21.50
		50	0	20.90	21.23	20.92	21.50
		50	25	21.00	21.14	20.95	21.50
		50	50	21.02	21.02	20.90	21.50
		100	0	21.16	20.94	21.01	21.50

LTE FDD Band 5 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.88	23.81	23.74	24.80
		1	2	23.90	23.92	23.78	24.80
		1	5	23.79	23.88	23.71	24.80
		3	0	23.88	23.82	23.77	24.80
		3	2	23.89	23.91	23.83	24.80
		3	3	23.81	23.82	23.73	24.80
		6	0	22.93	22.90	22.85	23.80
	16QAM	1	0	23.05	23.28	22.85	23.80
		1	2	23.09	23.31	22.90	23.80
		1	5	23.00	23.28	22.82	23.80
		3	0	22.97	23.08	22.97	23.80
		3	2	23.02	23.17	23.05	23.80
		3	3	22.97	23.09	23.00	23.80
		6	0	22.09	21.83	21.97	22.80
	64QAM	1	0	21.99	21.94	21.82	22.80
		1	2	21.91	21.99	21.87	22.80
		1	5	21.74	21.81	21.79	22.80
		3	0	21.82	21.74	21.83	22.80
		3	2	21.74	21.87	21.94	22.80
		3	3	21.75	21.86	21.62	22.80
		6	0	20.81	20.92	20.76	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.02	23.92	23.89	24.80
		1	7	23.96	23.96	23.94	24.80
		1	14	23.83	23.93	23.79	24.80



		8	0	23.01	23.00	22.94	23.80
		8	4	23.03	23.03	22.92	23.80
		8	7	22.99	23.00	22.88	23.80
		15	0	23.02	23.00	22.94	23.80
	16QAM	1	0	22.97	23.38	22.97	23.80
		1	7	22.95	23.40	22.94	23.80
		1	14	22.84	23.32	22.85	23.80
		8	0	22.16	22.10	22.01	22.80
		8	4	22.13	22.13	22.03	22.80
		8	7	22.08	22.04	21.93	22.80
		15	0	22.06	22.01	21.89	22.80
	64QAM	1	0	21.96	21.86	21.83	22.80
		1	7	22.01	22.08	21.97	22.80
		1	14	21.68	22.05	21.76	22.80
		8	0	20.95	21.01	21.01	21.80
		8	4	21.05	21.04	20.85	21.80
		8	7	20.96	21.14	21.00	21.80
		15	0	21.16	21.06	20.90	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.06	24.03	23.89	24.80
		1	13	23.91	24.00	23.88	24.80
		1	24	23.87	23.95	23.85	24.80
		12	0	23.06	23.02	22.92	23.80
		12	6	22.98	22.98	22.90	23.80
		12	13	22.99	23.00	22.91	23.80
		25	0	23.01	22.96	22.93	23.80
	16QAM	1	0	23.24	23.59	23.21	23.80
		1	13	23.19	23.62	23.13	23.80
		1	24	23.17	23.54	23.17	23.80
		12	0	22.12	22.18	22.00	22.80
		12	6	22.13	22.11	21.96	22.80
		12	13	22.05	22.12	21.95	22.80
		25	0	22.05	22.02	21.86	22.80
	64QAM	1	0	22.02	21.82	22.00	22.80
		1	13	21.94	21.97	22.08	22.80
		1	24	21.76	22.00	21.75	22.80
		12	0	21.09	20.92	21.02	21.80
		12	6	21.00	20.91	20.82	21.80
		12	13	21.14	21.00	21.02	21.80
		25	0	20.87	21.09	21.09	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20450/829	20525/836.5	20600/844	



10MHz	QPSK	1	0	23.98	23.91	23.85	24.80
		1	25	23.94	23.87	23.82	24.80
		1	49	23.99	23.80	23.81	24.80
		25	0	23.02	22.97	22.93	23.80
		25	13	23.01	23.01	22.97	23.80
		25	25	23.02	23.02	22.91	23.80
		50	0	23.04	22.97	22.91	23.80
	16QAM	1	0	23.04	22.94	23.31	23.80
		1	25	22.92	23.00	23.28	23.80
		1	49	22.96	22.97	23.25	23.80
		25	0	22.09	22.06	21.94	22.80
		25	13	22.19	22.04	22.04	22.80
		25	25	22.10	22.05	22.00	22.80
		50	0	22.07	21.98	21.94	22.80
	64QAM	1	0	22.07	21.77	21.88	22.80
		1	25	21.92	21.93	22.04	22.80
		1	49	21.73	21.94	21.73	22.80
		25	0	21.03	20.95	20.98	21.80
		25	13	21.02	21.04	20.83	21.80
		25	25	20.90	21.02	20.98	21.80
		50	0	21.10	21.15	21.05	21.80

LTE FDD Band 7 Full Power ANT0				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	23.15	23.24	23.24	24.30
		1	13	23.11	23.14	23.12	24.30
		1	24	23.03	23.18	22.97	24.30
		12	0	22.10	22.11	22.04	23.30
		12	6	22.17	22.26	22.04	23.30
		12	13	22.14	22.26	22.13	23.30
		25	0	22.16	22.19	22.02	23.30
	16QAM	1	0	22.40	22.61	22.17	23.30
		1	13	22.34	22.72	22.23	23.30
		1	24	22.28	22.73	22.14	23.30
		12	0	21.27	21.31	21.13	22.30
		12	6	21.29	21.45	21.14	22.30
		12	13	21.27	21.41	21.18	22.30
		25	0	21.23	21.27	21.11	22.30
	64QAM	1	0	21.02	21.22	21.16	22.30
		1	13	21.06	21.21	21.00	22.30
		1	24	20.88	21.17	21.08	22.30



		12	0	20.07	20.20	19.93	21.30
		12	6	20.29	20.17	19.93	21.30
		12	13	20.20	20.34	20.28	21.30
		25	0	20.12	20.34	20.10	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	23.17	23.15	23.05	24.30
		1	25	23.06	23.03	22.95	24.30
		1	49	22.97	22.99	22.90	24.30
		25	0	22.05	22.03	21.90	23.30
		25	13	22.17	22.07	22.02	23.30
		25	25	22.12	22.19	21.97	23.30
		50	0	22.14	22.06	21.91	23.30
	16QAM	1	0	21.93	22.42	21.94	23.30
		1	25	22.03	22.44	21.93	23.30
		1	49	22.05	22.48	21.99	23.30
		25	0	21.06	21.13	21.06	22.30
		25	13	21.14	21.15	21.19	22.30
		25	25	21.16	21.23	21.10	22.30
		50	0	21.06	21.14	20.94	22.30
	64QAM	1	0	21.01	21.20	21.31	22.30
		1	25	21.00	21.13	21.08	22.30
		1	49	21.02	21.10	21.10	22.30
		25	0	20.19	20.14	19.90	21.30
		25	13	20.03	20.11	20.08	21.30
		25	25	20.29	20.15	20.19	21.30
		50	0	20.27	20.21	20.13	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	23.42	23.33	23.15	24.30
		1	38	23.20	23.17	23.12	24.30
		1	74	23.06	23.12	23.04	24.30
		36	0	22.20	22.13	21.97	23.30
		36	18	22.22	22.23	22.10	23.30
		36	39	22.21	22.28	22.10	23.30
		75	0	22.19	22.26	22.08	23.30
	16QAM	1	0	22.12	22.58	22.49	23.30
		1	38	22.18	22.54	22.63	23.30
		1	74	22.12	22.60	22.49	23.30
		36	0	21.18	21.18	21.17	22.30
		36	18	21.20	21.26	21.25	22.30
		36	39	21.21	21.26	21.23	22.30
		75	0	21.17	21.23	21.18	22.30



	64QAM	1	0	21.14	21.11	21.33	22.30
		1	38	21.09	21.23	21.21	22.30
		1	74	21.12	21.13	20.87	22.30
		36	0	20.10	20.04	20.00	21.30
		36	18	20.07	20.24	20.17	21.30
		36	39	20.24	20.21	20.21	21.30
		75	0	20.14	20.29	20.00	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	23.39	23.29	23.08	24.30
		1	50	23.11	23.22	23.02	24.30
		1	99	23.02	23.18	22.99	24.30
		50	0	22.08	22.11	21.99	23.30
		50	25	22.14	22.17	22.18	23.30
		50	50	22.07	22.20	22.10	23.30
		100	0	22.06	22.17	22.13	23.30
	16QAM	1	0	22.66	22.60	22.52	23.30
		1	50	22.60	22.63	22.47	23.30
		1	99	22.58	22.65	22.45	23.30
		50	0	21.06	21.13	21.02	22.30
		50	25	21.15	21.15	21.15	22.30
		50	50	21.11	21.18	21.13	22.30
		100	0	21.09	21.12	21.13	22.30
	64QAM	1	0	21.00	21.20	21.24	22.30
		1	50	20.96	21.10	21.24	22.30
		1	99	20.88	21.23	20.83	22.30
		50	0	20.05	20.25	19.97	21.30
		50	25	20.28	20.28	20.07	21.30
		50	50	20.24	20.40	20.13	21.30
		100	0	20.10	20.17	20.10	21.30

LTE FDD Band 7 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	16.82	16.60	16.49	17.80
		1	13	16.79	16.75	16.68	17.80
		1	24	16.82	16.83	16.70	17.80
		12	0	16.75	16.78	16.83	17.80
		12	6	17.00	16.91	17.03	17.80
		12	13	16.87	16.78	16.84	17.80
		25	0	16.72	16.82	16.94	17.80
	16QAM	1	0	16.89	16.56	16.68	17.80



		1	13	16.54	16.81	16.61	17.80
		1	24	16.86	17.02	16.48	17.80
		12	0	17.04	16.61	16.79	17.80
		12	6	16.83	16.84	17.06	17.80
		12	13	16.97	16.83	16.86	17.80
		25	0	16.65	16.69	16.89	17.80
	64QAM	1	0	16.77	16.67	16.48	17.80
		1	13	16.43	17.03	16.68	17.80
		1	24	16.75	16.84	16.91	17.80
		12	0	16.64	16.69	16.86	17.80
		12	6	16.91	16.78	16.77	17.80
		12	13	16.86	16.54	17.04	17.80
		25	0	16.94	16.76	16.85	17.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	16.78	16.74	16.79	17.80
		1	25	16.61	16.72	16.71	17.80
		1	49	16.93	16.85	16.78	17.80
		25	0	16.85	16.73	16.74	17.80
		25	13	16.93	16.90	16.87	17.80
		25	25	16.76	16.75	16.85	17.80
		50	0	16.74	16.64	16.72	17.80
	16QAM	1	0	16.78	16.63	16.59	17.80
		1	25	16.75	16.85	16.51	17.80
		1	49	16.84	16.99	16.66	17.80
		25	0	16.80	16.82	16.72	17.80
		25	13	16.68	16.63	16.90	17.80
		25	25	17.02	16.68	17.00	17.80
		50	0	16.74	16.87	16.80	17.80
	64QAM	1	0	16.72	16.71	16.60	17.80
		1	25	16.70	17.01	16.69	17.80
		1	49	16.77	16.79	16.84	17.80
		25	0	16.80	16.58	16.60	17.80
		25	13	16.77	16.90	16.79	17.80
		25	25	16.86	16.61	16.86	17.80
		50	0	16.99	16.90	16.77	17.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	16.88	16.76	16.73	17.80
		1	38	16.70	16.83	16.78	17.80
		1	74	16.84	16.80	16.65	17.80
		36	0	16.86	16.74	16.62	17.80
		36	18	16.73	16.91	17.02	17.80



		36	39	16.93	16.91	16.95	17.80
		75	0	16.85	16.85	16.72	17.80
	16QAM	1	0	16.73	16.58	16.73	17.80
		1	38	16.64	16.75	16.53	17.80
		1	74	16.96	16.94	16.70	17.80
		36	0	16.96	16.74	16.99	17.80
		36	18	16.68	16.64	16.97	17.80
		36	39	17.08	16.70	16.89	17.80
		75	0	16.79	16.62	16.67	17.80
	64QAM	1	0	16.60	16.57	16.44	17.80
		1	38	16.58	16.87	16.67	17.80
		1	74	16.70	16.73	16.94	17.80
		36	0	16.64	16.84	16.69	17.80
		36	18	16.95	16.85	16.85	17.80
		36	39	16.86	16.65	16.97	17.80
		75	0	16.78	16.82	16.88	17.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.73	16.72	16.64	17.80
		1	50	16.67	16.76	16.63	17.80
		1	99	16.78	16.79	16.69	17.80
		50	0	16.84	16.78	16.74	17.80
		50	25	16.85	16.82	16.89	17.80
		50	50	16.83	16.81	16.87	17.80
		100	0	16.81	16.77	16.87	17.80
	16QAM	1	0	16.87	16.65	16.62	17.80
		1	50	16.66	16.74	16.49	17.80
		1	99	16.88	16.88	16.55	17.80
		50	0	16.90	16.68	16.85	17.80
		50	25	16.77	16.76	17.02	17.80
		50	50	16.97	16.76	16.93	17.80
		100	0	16.69	16.73	16.75	17.80
	64QAM	1	0	16.74	16.57	16.56	17.80
		1	50	16.56	16.91	16.76	17.80
		1	99	16.68	16.83	16.82	17.80
		50	0	16.79	16.71	16.75	17.80
		50	25	16.84	16.78	16.81	17.80
		50	50	16.80	16.69	16.92	17.80
		100	0	16.86	16.91	16.91	17.80

LTE FDD Band 7 ANT1 Level 2&3	Conducted Power(dBm)	Tune-up Limit
----------------------------------	----------------------	---------------



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	15.71	15.87	15.44	16.80
		1	13	15.53	15.64	15.64	16.80
		1	24	15.55	15.84	15.89	16.80
		12	0	15.89	15.82	15.80	16.80
		12	6	15.85	15.83	15.75	16.80
		12	13	15.82	15.84	15.75	16.80
		25	0	15.70	15.68	15.85	16.80
	16QAM	1	0	15.77	15.90	15.46	16.80
		1	13	15.78	15.60	15.68	16.80
		1	24	15.60	15.92	15.73	16.80
		12	0	15.88	15.80	15.68	16.80
		12	6	16.13	15.85	15.87	16.80
		12	13	15.75	15.85	15.81	16.80
		25	0	15.52	15.57	15.95	16.80
	64QAM	1	0	15.72	15.71	15.36	16.80
		1	13	15.68	15.78	15.61	16.80
		1	24	15.52	15.81	15.92	16.80
		12	0	15.98	15.82	15.60	16.80
		12	6	15.73	15.66	15.90	16.80
		12	13	15.72	15.97	15.89	16.80
		25	0	15.73	15.99	15.89	16.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	15.55	15.84	15.62	16.80
		1	25	15.51	15.58	15.62	16.80
		1	49	15.60	15.89	15.80	16.80
		25	0	15.79	15.91	15.69	16.80
		25	13	15.81	15.66	15.89	16.80
		25	25	15.77	15.71	15.82	16.80
		50	0	15.70	15.68	15.74	16.80
	16QAM	1	0	15.74	16.02	15.44	16.80
		1	25	15.66	15.77	15.50	16.80
		1	49	15.68	15.98	15.59	16.80
		25	0	15.89	15.88	15.62	16.80
		25	13	15.87	15.78	15.86	16.80
		25	25	15.80	15.73	15.65	16.80
		50	0	15.55	15.74	15.99	16.80
	64QAM	1	0	15.85	15.76	15.40	16.80
		1	25	15.68	15.59	15.84	16.80
		1	49	15.70	15.61	16.01	16.80
		25	0	15.80	15.70	15.53	16.80



		25	13	15.79	15.54	15.85	16.80
		25	25	15.79	16.04	15.82	16.80
		50	0	15.75	15.84	15.84	16.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	15.77	15.76	15.49	16.80
		1	38	15.65	15.70	15.74	16.80
		1	74	15.54	15.72	15.83	16.80
		36	0	15.73	15.69	15.73	16.80
		36	18	15.80	15.67	15.86	16.80
		36	39	15.79	15.94	15.94	16.80
		75	0	15.79	15.61	15.72	16.80
	16QAM	1	0	15.53	15.92	15.55	16.80
		1	38	15.82	15.53	15.64	16.80
		1	74	15.56	15.94	15.73	16.80
		36	0	15.85	15.75	15.60	16.80
		36	18	16.00	15.89	15.88	16.80
		36	39	15.58	15.74	15.59	16.80
		75	0	15.57	15.73	15.81	16.80
	64QAM	1	0	15.81	15.73	15.50	16.80
		1	38	15.61	15.62	15.77	16.80
		1	74	15.55	15.75	15.97	16.80
		36	0	15.94	15.67	15.69	16.80
		36	18	15.62	15.66	15.88	16.80
		36	39	15.72	16.02	15.96	16.80
		75	0	15.51	16.02	15.89	16.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	15.62	15.75	15.59	16.80
		1	50	15.60	15.66	15.69	16.80
		1	99	15.59	15.76	15.74	16.80
		50	0	15.78	15.76	15.71	16.80
		50	25	15.83	15.77	15.83	16.80
		50	50	15.78	15.80	15.85	16.80
		100	0	15.75	15.74	15.83	16.80
	16QAM	1	0	15.62	15.87	15.58	16.80
		1	50	15.69	15.68	15.65	16.80
		1	99	15.54	15.84	15.66	16.80
		50	0	15.75	15.74	15.74	16.80
		50	25	15.98	15.88	15.93	16.80
		50	50	15.66	15.81	15.73	16.80
		100	0	15.62	15.71	15.91	16.80
	64QAM	1	0	15.76	15.70	15.45	16.80



		1	50	15.62	15.73	15.70	16.80
		1	99	15.58	15.76	15.86	16.80
		50	0	15.90	15.76	15.65	16.80
		50	25	15.72	15.65	15.90	16.80
		50	50	15.87	15.91	15.95	16.80
		100	0	15.62	15.88	15.96	16.80

LTE FDD Band 7 ANT1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.31	19.27	19.32	20.30
		1	13	19.36	19.38	19.38	20.30
		1	24	19.36	19.35	19.30	20.30
		12	0	19.45	19.37	19.45	20.30
		12	6	19.43	19.45	19.42	20.30
		12	13	19.46	19.46	19.44	20.30
		25	0	19.45	19.41	19.48	20.30
	16QAM	1	0	19.84	19.51	19.60	20.30
		1	13	19.92	19.59	19.57	20.30
		1	24	19.92	19.56	19.57	20.30
		12	0	19.60	19.44	19.54	20.30
		12	6	19.57	19.46	19.48	20.30
		12	13	19.56	19.49	19.50	20.30
		25	0	19.47	19.36	19.45	20.30
	64QAM	1	0	19.19	19.19	19.28	20.30
		1	13	19.18	19.40	19.04	20.30
		1	24	19.34	19.43	19.38	20.30
		12	0	19.25	19.46	19.45	20.30
		12	6	19.45	19.37	19.43	20.30
		12	13	19.39	19.49	19.42	20.30
		25	0	19.39	19.32	19.57	20.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.27	19.27	19.35	20.30
		1	25	19.31	19.34	19.35	20.30
		1	49	19.31	19.32	19.36	20.30
		25	0	19.44	19.39	19.32	20.30
		25	13	19.46	19.37	19.49	20.30
		25	25	19.44	19.45	19.45	20.30
		50	0	19.42	19.42	19.37	20.30
	16QAM	1	0	19.40	19.75	19.40	20.30
		1	25	19.27	19.74	19.33	20.30



		1	49	19.32	19.76	19.38	20.30
		25	0	19.46	19.43	19.48	20.30
		25	13	19.45	19.42	19.55	20.30
		25	25	19.47	19.50	19.60	20.30
		50	0	19.45	19.38	19.42	20.30
	64QAM	1	0	19.36	19.02	19.26	20.30
		1	25	19.37	19.19	19.16	20.30
		1	49	19.24	19.47	19.34	20.30
		25	0	19.34	19.34	19.28	20.30
		25	13	19.57	19.48	19.34	20.30
		25	25	19.50	19.54	19.42	20.30
		50	0	19.38	19.42	19.39	20.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.23	19.29	19.30	20.30
		1	38	19.27	19.32	19.34	20.30
		1	74	19.29	19.32	19.34	20.30
		36	0	19.35	19.34	19.33	20.30
		36	18	19.41	19.35	19.38	20.30
		36	39	19.35	19.44	19.43	20.30
		75	0	19.34	19.34	19.34	20.30
	16QAM	1	0	19.41	19.69	19.66	20.30
		1	38	19.38	19.77	19.83	20.30
		1	74	19.33	19.78	19.77	20.30
		36	0	19.39	19.41	19.36	20.30
		36	18	19.43	19.40	19.38	20.30
		36	39	19.39	19.48	19.44	20.30
		75	0	19.36	19.34	19.35	20.30
	64QAM	1	0	19.44	19.26	19.23	20.30
		1	38	19.19	19.38	19.07	20.30
		1	74	19.44	19.27	19.24	20.30
		36	0	19.34	19.49	19.41	20.30
		36	18	19.48	19.49	19.58	20.30
		36	39	19.35	19.37	19.43	20.30
		75	0	19.53	19.44	19.48	20.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.34	19.11	19.20	20.30
		1	50	19.23	19.33	19.17	20.30
		1	99	19.34	19.39	19.26	20.30
		50	0	19.39	19.34	19.32	20.30
		50	25	19.43	19.37	19.43	20.30
		50	50	19.40	19.40	19.44	20.30



		100	0	19.41	19.32	19.42	20.30
	16QAM	1	0	19.99	20.22	19.79	20.30
		1	50	19.85	19.90	19.80	20.30
		1	99	20.00	20.01	19.79	20.30
		50	0	19.43	19.39	19.37	20.30
		50	25	19.44	19.35	19.47	20.30
		50	50	19.41	19.42	19.42	20.30
		100	0	19.46	19.38	19.42	20.30
	64QAM	1	0	19.48	19.23	19.32	20.30
		1	50	19.26	19.29	19.03	20.30
		1	99	19.40	19.30	19.14	20.30
		50	0	19.36	19.45	19.23	20.30
		50	25	19.43	19.32	19.57	20.30
		50	50	19.29	19.51	19.55	20.30
		100	0	19.49	19.30	19.27	20.30

LTE FDD Band 7 ANT1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	18.49	18.65	18.79	19.80
		1	13	18.51	18.78	18.83	19.80
		1	24	18.44	18.59	18.66	19.80
		12	0	18.71	18.91	18.74	19.80
		12	6	18.73	18.73	18.96	19.80
		12	13	18.87	18.93	18.73	19.80
		25	0	18.82	18.77	18.77	19.80
	16QAM	1	0	18.50	18.60	18.82	19.80
		1	13	18.49	18.64	18.64	19.80
		1	24	18.79	18.59	18.94	19.80
		12	0	18.81	18.80	18.91	19.80
		12	6	18.93	18.66	18.64	19.80
		12	13	18.66	18.64	18.88	19.80
		25	0	18.78	18.66	18.83	19.80
	64QAM	1	0	18.48	18.79	18.74	19.80
		1	13	18.63	18.53	18.71	19.80
		1	24	18.50	18.66	18.66	19.80
		12	0	18.76	18.61	18.86	19.80
		12	6	18.70	18.78	18.91	19.80
		12	13	18.61	18.59	18.94	19.80
		25	0	18.79	18.68	18.91	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	



10MHz	QPSK	1	0	18.68	18.83	18.71	19.80
		1	25	18.60	18.67	18.81	19.80
		1	49	18.70	18.69	18.70	19.80
		25	0	18.75	18.66	18.73	19.80
		25	13	18.69	18.93	18.72	19.80
		25	25	18.90	18.70	18.80	19.80
		50	0	18.68	18.81	18.74	19.80
	16QAM	1	0	18.74	18.66	18.72	19.80
		1	25	18.51	18.73	18.70	19.80
		1	49	18.66	18.66	18.82	19.80
		25	0	18.84	18.78	19.04	19.80
		25	13	18.80	18.87	18.68	19.80
		25	25	18.58	18.91	19.03	19.80
		50	0	18.64	18.73	18.88	19.80
	64QAM	1	0	18.47	18.58	18.87	19.80
		1	25	18.72	18.55	18.80	19.80
		1	49	18.48	18.77	18.86	19.80
		25	0	18.79	18.59	18.77	19.80
		25	13	18.81	18.86	18.93	19.80
		25	25	18.71	18.67	18.72	19.80
		50	0	19.04	18.71	18.88	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	18.58	18.68	18.52	19.80
		1	38	18.66	18.55	18.57	19.80
		1	74	18.66	18.69	18.70	19.80
		36	0	18.85	18.71	18.90	19.80
		36	18	18.88	18.92	18.82	19.80
		36	39	18.70	18.83	18.76	19.80
		75	0	18.96	18.69	18.70	19.80
	16QAM	1	0	18.76	18.88	18.69	19.80
		1	38	18.44	18.59	18.75	19.80
		1	74	18.66	18.71	18.74	19.80
		36	0	18.90	18.92	18.81	19.80
		36	18	18.87	18.86	18.58	19.80
		36	39	18.57	18.87	18.91	19.80
		75	0	18.85	18.80	18.83	19.80
	64QAM	1	0	18.54	18.80	18.76	19.80
		1	38	18.47	18.75	18.73	19.80
		1	74	18.58	18.70	18.93	19.80
		36	0	18.77	18.53	18.76	19.80
		36	18	18.54	18.79	18.70	19.80
		36	39	18.73	18.78	18.75	19.80



		75	0	18.99	18.65	18.94	19.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	18.62	18.76	18.64	19.80
		1	50	18.57	18.68	18.69	19.80
		1	99	18.59	18.73	18.74	19.80
		50	0	18.82	18.78	18.76	19.80
		50	25	18.82	18.78	18.84	19.80
		50	50	18.80	18.83	18.84	19.80
		100	0	18.83	18.74	18.84	19.80
	16QAM	1	0	18.61	18.73	18.71	19.80
		1	50	18.43	18.61	18.61	19.80
		1	99	18.74	18.63	18.80	19.80
		50	0	18.89	18.83	18.89	19.80
		50	25	18.88	18.80	18.72	19.80
		50	50	18.65	18.76	18.97	19.80
		100	0	18.72	18.66	18.81	19.80
	64QAM	1	0	18.59	18.69	18.79	19.80
		1	50	18.62	18.64	18.69	19.80
		1	99	18.45	18.78	18.79	19.80
		50	0	18.67	18.63	18.81	19.80
		50	25	18.68	18.77	18.78	19.80
		50	50	18.68	18.72	18.82	19.80
		100	0	18.89	18.60	18.92	19.80

LTE FDD Band 7 ANT0 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.85	21.84	21.87	22.80
		1	13	22.06	21.68	21.80	22.80
		1	24	21.91	21.81	21.89	22.80
		12	0	22.13	21.78	21.71	22.80
		12	6	22.03	21.83	22.00	22.80
		12	13	21.84	21.85	21.76	22.80
		25	0	22.14	21.93	21.85	22.80
	16QAM	1	0	21.77	21.93	21.82	22.80
		1	13	21.93	21.82	21.72	22.80
		1	24	21.91	21.91	21.84	22.80
		12	0	21.07	21.03	21.01	22.30
		12	6	21.30	21.16	20.93	22.30
		12	13	21.16	21.05	21.16	22.30
		25	0	21.08	21.18	21.08	22.30



	64QAM	1	0	21.07	21.06	21.38	22.30
		1	13	20.99	21.19	21.09	22.30
		1	24	20.74	21.29	20.78	22.30
		12	0	20.06	20.26	19.97	21.30
		12	6	20.36	20.23	19.94	21.30
		12	13	20.19	20.34	20.25	21.30
		25	0	20.09	19.92	19.95	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.09	21.93	21.86	22.80
		1	25	22.06	21.93	21.73	22.80
		1	49	22.00	21.78	21.85	22.80
		25	0	22.02	21.88	21.74	22.80
		25	13	21.98	21.96	21.82	22.80
		25	25	21.98	21.91	21.86	22.80
		50	0	21.94	21.95	21.91	22.80
	16QAM	1	0	21.78	21.88	22.02	22.80
		1	25	21.88	21.97	21.90	22.80
		1	49	21.80	21.66	21.79	22.80
		25	0	20.98	21.17	20.86	22.30
		25	13	21.38	21.13	21.09	22.30
		25	25	21.11	21.32	21.30	22.30
		50	0	20.91	21.39	21.15	22.30
	64QAM	1	0	20.99	21.05	21.38	22.30
		1	25	21.14	21.15	21.02	22.30
		1	49	20.78	21.50	20.85	22.30
		25	0	20.11	20.13	19.90	21.30
		25	13	20.20	20.48	19.92	21.30
		25	25	20.16	20.58	20.30	21.30
		50	0	20.20	20.10	19.97	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.08	21.94	21.92	22.80
		1	38	22.03	21.84	21.79	22.80
		1	74	22.10	21.76	21.96	22.80
		36	0	21.94	21.92	21.95	22.80
		36	18	22.03	21.94	22.01	22.80
		36	39	21.92	22.02	22.03	22.80
		75	0	21.99	21.83	21.92	22.80
	16QAM	1	0	21.78	21.80	22.02	22.80
		1	38	22.10	21.84	21.82	22.80
		1	74	21.84	21.92	21.83	22.80
		36	0	21.11	21.22	20.90	22.30



		36	18	21.22	21.25	20.96	22.30
		36	39	21.34	21.27	21.32	22.30
		75	0	20.91	21.38	20.95	22.30
	64QAM	1	0	20.86	21.26	21.18	22.30
		1	38	21.13	21.01	21.18	22.30
		1	74	20.91	21.21	20.81	22.30
		36	0	20.01	20.13	19.89	21.30
		36	18	20.34	20.46	20.08	21.30
		36	39	20.26	20.51	20.32	21.30
		75	0	20.15	20.15	20.04	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.95	21.83	21.84	22.80
		1	50	21.93	21.79	21.78	22.80
		1	99	21.95	21.72	21.83	22.80
		50	0	22.00	21.92	21.80	22.80
		50	25	22.01	21.91	21.91	22.80
		50	50	21.98	21.91	21.88	22.80
		100	0	21.99	21.87	21.89	22.80
	16QAM	1	0	21.81	21.94	21.92	22.80
		1	50	22.01	21.87	21.87	22.80
		1	99	21.87	21.77	21.91	22.80
		50	0	21.13	21.07	20.88	22.30
		50	25	21.23	21.10	21.06	22.30
		50	50	21.23	21.18	21.18	22.30
		100	0	20.96	21.27	21.02	22.30
	64QAM	1	0	20.98	21.13	21.24	22.30
		1	50	21.03	21.13	21.15	22.30
		1	99	20.81	21.36	20.82	22.30
		50	0	20.05	20.23	19.98	21.30
		50	25	20.23	20.35	19.93	21.30
		50	50	20.29	20.49	20.18	21.30
		100	0	20.16	20.05	20.10	21.30

LTE FDD Band 7 ANT0 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.55	21.36	21.33	21.80
		1	13	21.38	21.32	21.36	21.80
		1	24	21.42	21.51	21.26	21.80
		12	0	21.51	21.42	21.44	21.80
		12	6	21.61	21.44	21.59	21.80
		12	13	21.43	21.31	21.27	21.80
		25	0	21.62	21.46	21.32	21.80
	16QAM	1	0	21.22	21.48	21.16	21.80
		1	13	21.39	21.44	21.25	21.80
		1	24	21.47	21.57	21.35	21.80
		12	0	21.61	21.17	21.50	21.80
		12	6	21.39	21.36	21.54	21.80
		12	13	21.67	21.52	21.27	21.80
		25	0	21.55	21.51	21.69	21.80
	64QAM	1	0	21.53	21.30	21.30	21.80
		1	13	21.59	21.23	21.06	21.80
		1	24	21.48	21.42	21.17	21.80
		12	0	19.99	20.08	20.12	21.30
		12	6	20.20	20.10	20.10	21.30
		12	13	20.30	20.31	20.21	21.30
		25	0	19.96	20.06	19.86	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.48	21.43	21.15	21.80
		1	25	21.56	21.25	21.13	21.80
		1	49	21.54	21.26	21.06	21.80
		25	0	21.45	21.39	21.47	21.80
		25	13	21.62	21.34	21.34	21.80
		25	25	21.47	21.37	21.29	21.80
		50	0	21.53	21.26	21.41	21.80
	16QAM	1	0	21.33	21.58	21.18	21.80
		1	25	21.60	21.52	21.13	21.80
		1	49	21.33	21.56	21.29	21.80
		25	0	21.49	21.38	21.42	21.80
		25	13	21.47	21.43	21.47	21.80
		25	25	21.70	21.62	21.24	21.80
		50	0	21.52	21.28	21.60	21.80
	64QAM	1	0	21.37	21.23	21.19	21.80



		1	25	21.49	21.11	21.18	21.80
		1	49	21.45	21.48	20.96	21.80
		25	0	20.00	19.95	20.17	21.30
		25	13	20.26	20.21	20.02	21.30
		25	25	20.35	20.26	20.18	21.30
		50	0	20.07	20.27	19.95	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.58	21.45	21.09	21.80
		1	38	21.52	21.46	21.15	21.80
		1	74	21.27	21.37	21.10	21.80
		36	0	21.66	21.31	21.35	21.80
		36	18	21.64	21.35	21.53	21.80
		36	39	21.62	21.33	21.39	21.80
		75	0	21.45	21.48	21.53	21.80
	16QAM	1	0	21.38	21.40	21.19	21.80
		1	38	21.65	21.68	21.20	21.80
		1	74	21.48	21.50	21.13	21.80
		36	0	21.46	21.30	21.58	21.80
		36	18	21.44	21.48	21.51	21.80
		36	39	21.51	21.59	21.20	21.80
		75	0	21.35	21.37	21.45	21.80
	64QAM	1	0	21.36	21.37	21.11	21.80
		1	38	21.40	21.27	21.17	21.80
		1	74	21.69	21.30	20.96	21.80
		36	0	20.25	20.09	20.24	21.30
		36	18	20.37	20.05	20.12	21.30
		36	39	20.42	20.51	20.12	21.30
		75	0	20.09	20.18	20.10	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.45	21.47	21.19	21.80
		1	50	21.41	21.39	21.24	21.80
		1	99	21.42	21.39	21.18	21.80
		50	0	21.52	21.41	21.38	21.80
		50	25	21.53	21.40	21.44	21.80
		50	50	21.52	21.46	21.40	21.80
		100	0	21.54	21.37	21.40	21.80
	16QAM	1	0	21.37	21.48	21.16	21.80
		1	50	21.51	21.53	21.27	21.80
		1	99	21.34	21.53	21.28	21.80
		50	0	21.55	21.32	21.44	21.80
		50	25	21.38	21.46	21.44	21.80



		50	50	21.65	21.48	21.32	21.80
		100	0	21.46	21.41	21.55	21.80
	64QAM	1	0	21.38	21.35	21.17	21.80
		1	50	21.53	21.25	21.16	21.80
		1	99	21.55	21.45	21.11	21.80
		50	0	20.11	19.94	20.15	21.30
		50	25	20.22	20.16	20.13	21.30
		50	50	20.29	20.36	20.09	21.30
		100	0	20.09	20.16	20.00	21.30

LTE FDD Band 12 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.70	23.64	23.61	24.80
		1	2	23.72	23.70	23.64	24.80
		1	5	23.61	23.68	23.55	24.80
		3	0	23.67	23.65	23.64	24.80
		3	2	23.71	23.72	23.67	24.80
		3	3	23.61	23.70	23.65	24.80
		6	0	22.74	22.72	22.69	23.80
	16QAM	1	0	22.89	23.11	22.72	23.80
		1	2	22.95	23.17	22.73	23.80
		1	5	22.87	23.13	22.68	23.80
		3	0	22.84	22.93	22.85	23.80
		3	2	22.84	23.02	22.86	23.80
		3	3	22.83	22.94	22.80	23.80
		6	0	21.92	21.63	21.88	22.80
	64QAM	1	0	21.65	21.63	21.75	22.80
		1	2	21.75	21.69	21.53	22.80
		1	5	21.62	21.58	21.64	22.80
		3	0	21.77	21.50	21.77	22.80
		3	2	21.81	21.74	21.71	22.80
		3	3	21.47	21.81	21.60	22.80
		6	0	20.89	20.80	20.55	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.83	23.84	23.72	24.80
		1	7	23.79	23.79	23.72	24.80
		1	14	23.70	23.73	23.63	24.80
		8	0	22.89	22.91	22.73	23.80
		8	4	22.87	22.90	22.81	23.80



		8	7	22.81	22.85	22.73	23.80
		15	0	22.88	22.84	22.78	23.80
	16QAM	1	0	22.87	23.25	22.83	23.80
		1	7	22.80	23.27	22.82	23.80
		1	14	22.69	23.22	22.73	23.80
		8	0	21.96	21.94	21.82	22.80
		8	4	21.95	21.95	21.89	22.80
		8	7	21.88	21.93	21.83	22.80
		15	0	21.90	21.88	21.72	22.80
	64QAM	1	0	21.97	21.80	21.85	22.80
		1	7	21.82	21.72	21.58	22.80
		1	14	21.58	21.81	21.73	22.80
		8	0	20.87	21.05	20.65	21.80
		8	4	20.74	20.86	20.88	21.80
		8	7	20.89	20.77	20.69	21.80
		15	0	20.96	20.77	20.67	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.91	23.86	23.74	24.80
		1	13	23.80	23.79	23.74	24.80
		1	24	23.70	23.76	23.73	24.80
		12	0	22.92	22.86	22.81	23.80
		12	6	22.85	22.92	22.84	23.80
		12	13	22.83	22.87	22.77	23.80
		25	0	22.84	22.82	22.79	23.80
	16QAM	1	0	23.12	23.39	22.97	23.80
		1	13	23.05	23.38	22.94	23.80
		1	24	22.97	23.35	22.87	23.80
		12	0	21.98	22.05	21.92	22.80
		12	6	21.93	22.08	21.92	22.80
		12	13	21.88	21.99	21.85	22.80
		25	0	21.87	21.93	21.74	22.80
	64QAM	1	0	21.91	21.93	21.67	22.80
		1	13	21.79	21.76	21.69	22.80
		1	24	21.78	21.59	21.51	22.80
		12	0	20.99	20.91	20.78	21.80
		12	6	20.81	20.93	20.77	21.80
		12	13	20.86	20.86	20.85	21.80
		25	0	20.93	20.83	20.75	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.83	23.76	23.86	24.80
		1	25	23.63	23.73	23.76	24.80



		1	49	23.66	23.64	23.66	24.80
		25	0	22.88	22.94	22.85	23.80
		25	13	22.93	22.85	22.92	23.80
		25	25	22.91	22.85	22.85	23.80
		50	0	22.92	22.86	22.93	23.80
	16QAM	1	0	22.81	23.19	22.89	23.80
		1	25	22.68	23.23	22.75	23.80
		1	49	22.70	23.13	22.73	23.80
		25	0	21.93	21.92	21.96	22.80
		25	13	21.95	21.96	22.00	22.80
		25	25	21.88	21.91	21.93	22.80
		50	0	21.92	21.89	21.95	22.80
	64QAM	1	0	21.76	21.91	21.60	22.80
		1	25	21.70	21.82	21.82	22.80
		1	49	21.71	21.84	21.53	22.80
		25	0	20.78	20.96	20.60	21.80
		25	13	20.75	20.99	20.83	21.80
		25	25	20.92	20.83	20.75	21.80
		50	0	20.77	20.86	20.72	21.80

LTE FDD Band 12 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	22.05	22.05	21.99	22.30
		1	2	22.12	22.14	22.01	22.30
		1	5	21.98	22.08	21.93	22.30
		3	0	22.05	21.98	22.04	22.30
		3	2	22.04	22.15	22.06	22.30
		3	3	22.00	22.06	22.00	22.30
		6	0	22.12	22.11	22.08	22.30
	16QAM	1	0	22.03	21.76	21.81	22.30
		1	2	21.80	21.89	21.97	22.30
		1	5	21.73	21.93	21.80	22.30
		3	0	21.92	21.81	21.86	22.30
		3	2	21.76	21.87	21.81	22.30
		3	3	21.84	21.81	21.77	22.30
		6	0	21.79	21.49	21.72	22.30
	64QAM	1	0	21.70	21.76	21.67	22.30
		1	2	21.61	21.61	21.58	22.30
		1	5	21.72	21.52	21.73	22.30
		3	0	21.91	21.52	21.82	22.30
		3	2	21.73	21.83	21.79	22.30



		3	3	21.41	21.86	21.66	22.30
		6	0	21.03	20.81	20.52	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	22.20	22.17	22.16	22.30
		1	7	22.16	22.19	22.11	22.30
		1	14	22.07	22.05	22.04	22.30
		8	0	22.23	22.17	22.09	22.30
		8	4	22.21	22.20	22.18	22.30
		8	7	22.17	22.15	22.07	22.30
		15	0	22.23	22.11	22.12	22.30
	16QAM	1	0	21.93	21.82	21.95	22.30
		1	7	21.78	21.76	21.91	22.30
		1	14	21.89	21.73	21.90	22.30
		8	0	21.86	21.75	21.64	22.30
		8	4	21.83	21.78	21.73	22.30
		8	7	21.78	21.75	21.64	22.30
		15	0	21.75	21.68	21.55	22.30
	64QAM	1	0	21.80	21.71	21.89	22.30
		1	7	21.69	21.54	21.56	22.30
		1	14	21.56	21.68	21.62	22.30
		8	0	21.67	21.35	21.78	22.30
		8	4	21.88	21.78	21.69	22.30
		8	7	21.57	21.84	21.75	22.30
		15	0	20.82	20.66	20.41	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	22.13	22.16	22.09	22.30
		1	13	22.13	22.12	22.14	22.30
		1	24	22.08	22.13	22.05	22.30
		12	0	22.22	22.16	22.15	22.30
		12	6	22.21	22.14	22.21	22.30
		12	13	22.14	22.13	22.13	22.30
		25	0	22.19	22.17	22.15	22.30
	16QAM	1	0	21.96	21.74	21.83	22.30
		1	13	21.86	21.84	21.96	22.30
		1	24	21.87	21.84	21.93	22.30
		12	0	21.85	21.84	21.71	22.30
		12	6	21.80	21.82	21.76	22.30
		12	13	21.76	21.85	21.69	22.30
		25	0	21.74	21.77	21.59	22.30
	64QAM	1	0	21.55	21.71	21.75	22.30
		1	13	21.73	21.74	21.63	22.30



		1	24	21.76	21.51	21.59	22.30
		12	0	21.70	21.42	21.92	22.30
		12	6	21.74	21.89	21.84	22.30
		12	13	21.47	21.77	21.53	22.30
		25	0	21.03	20.89	20.67	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	22.17	22.04	22.11	22.30
		1	25	22.01	22.02	22.09	22.30
		1	49	22.03	22.03	22.05	22.30
		25	0	22.19	22.20	22.20	22.30
		25	13	22.18	22.16	22.14	22.30
		25	25	22.18	22.20	22.18	22.30
		50	0	22.23	22.15	22.20	22.30
	16QAM	1	0	22.00	21.77	21.91	22.30
		1	25	21.86	21.73	21.80	22.30
		1	49	21.86	21.92	21.80	22.30
		25	0	21.73	21.74	21.74	22.30
		25	13	21.75	21.71	21.74	22.30
		25	25	21.78	21.78	21.76	22.30
		50	0	21.71	21.69	21.67	22.30
	64QAM	1	0	21.78	21.71	21.63	22.30
		1	25	21.83	21.74	21.45	22.30
		1	49	21.75	21.57	21.68	22.30
		25	0	21.66	21.36	21.62	22.30
		25	13	21.78	21.70	21.65	22.30
		25	25	21.45	21.72	21.58	22.30
		50	0	20.91	20.65	20.56	21.80

LTE FDD Band 17 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	23.78	23.81	23.78	24.80
		1	13	23.87	23.88	23.82	24.80
		1	24	23.81	23.87	23.78	24.80
		12	0	22.86	22.89	22.79	23.80
		12	6	22.92	22.85	22.83	23.80
		12	13	22.91	22.92	22.85	23.80
		25	0	22.89	22.83	22.81	23.80
	16QAM	1	0	23.04	23.36	23.02	23.80
		1	13	23.10	23.48	23.03	23.80



		1	24	23.07	23.49	23.05	23.80
		12	0	21.98	21.98	21.90	22.80
		12	6	21.99	21.99	21.87	22.80
		12	13	21.97	22.02	21.88	22.80
		25	0	21.95	21.94	21.78	22.80
	64QAM	1	0	21.65	21.81	21.73	22.80
		1	13	21.90	21.84	21.72	22.80
		1	24	21.86	21.78	21.72	22.80
		12	0	20.89	20.92	20.87	21.80
		12	6	20.84	20.73	20.96	21.80
		12	13	20.96	20.82	20.89	21.80
		25	0	20.80	20.94	20.88	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	23.84	23.78	23.82	24.80
		1	25	23.82	23.81	23.81	24.80
		1	49	23.73	23.67	23.75	24.80
		25	0	22.83	22.84	22.85	23.80
		25	13	22.96	22.84	22.90	23.80
		25	25	22.89	22.94	22.90	23.80
		50	0	22.92	22.84	22.84	23.80
	16QAM	1	0	22.81	23.21	22.91	23.80
		1	25	22.74	23.25	22.83	23.80
		1	49	22.76	23.23	22.75	23.80
		25	0	21.88	21.89	21.92	22.80
		25	13	21.97	21.87	22.05	22.80
		25	25	21.95	21.92	21.96	22.80
		50	0	21.89	21.86	21.86	22.80
	64QAM	1	0	21.89	21.87	21.66	22.80
		1	25	21.84	21.74	21.91	22.80
		1	49	21.78	21.93	21.82	22.80
		25	0	20.96	20.77	20.79	21.80
		25	13	20.83	20.78	20.73	21.80
		25	25	20.79	20.86	20.87	21.80
		50	0	20.92	20.87	20.79	21.80

LTE FDD Band 17 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	21.97	22.08	22.13	22.30
		1	13	22.09	22.06	22.14	22.30
		1	24	21.90	21.89	22.00	22.30



		12	0	22.06	22.21	22.13	22.30
		12	6	22.24	22.12	22.02	22.30
		12	13	22.05	22.14	22.09	22.30
		25	0	22.23	22.10	22.08	22.30
	16QAM	1	0	22.04	22.01	22.14	22.30
		1	13	22.23	21.76	21.97	22.30
		1	24	21.87	21.88	22.13	22.30
		12	0	22.12	22.08	22.20	22.30
		12	6	22.21	22.07	22.21	22.30
		12	13	22.17	22.21	21.94	22.30
		25	0	22.15	22.10	22.19	22.30
	64QAM	1	0	21.92	22.02	22.12	22.30
		1	13	22.27	22.14	22.06	22.30
		1	24	22.05	22.04	22.02	22.30
		12	0	21.02	20.60	20.71	21.80
		12	6	20.65	20.85	20.82	21.80
		12	13	20.69	20.96	21.05	21.80
		25	0	21.04	20.95	20.90	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	22.04	22.00	22.07	22.30
		1	25	22.07	22.00	22.08	22.30
		1	49	21.99	22.00	22.06	22.30
		25	0	22.10	22.09	22.09	22.30
		25	13	22.20	22.16	22.12	22.30
		25	25	22.19	22.19	22.18	22.30
		50	0	22.19	22.11	22.15	22.30
	16QAM	1	0	22.15	22.11	22.22	22.30
		1	25	22.18	21.85	22.04	22.30
		1	49	21.92	22.02	22.21	22.30
		25	0	22.10	22.00	22.22	22.30
		25	13	22.12	22.22	22.14	22.30
		25	25	22.17	22.15	22.06	22.30
		50	0	22.07	22.02	22.22	22.30
	64QAM	1	0	22.03	21.88	22.11	22.30
		1	25	22.21	22.10	22.13	22.30
		1	49	22.03	21.89	21.95	22.30
		25	0	20.98	20.70	20.73	21.80
		25	13	20.69	20.81	20.84	21.80
		25	25	20.74	20.83	20.97	21.80
		50	0	21.03	20.87	20.90	21.80



LTE FDD Band 26 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	23.95	23.86	23.78	24.80
		1	2	24.01	23.94	23.76	24.80
		1	5	23.90	23.88	23.72	24.80
		3	0	23.98	23.86	23.77	24.80
		3	2	23.99	23.94	23.73	24.80
		3	3	23.92	23.86	23.70	24.80
		6	0	23.02	22.90	22.78	23.80
	16QAM	1	0	23.45	22.94	22.97	23.80
		1	2	23.47	23.05	22.94	23.80
		1	5	23.38	22.99	22.92	23.80
		3	0	23.22	23.10	22.90	23.80
		3	2	23.22	23.20	22.87	23.80
		3	3	23.20	23.11	22.82	23.80
		6	0	21.98	22.12	21.93	22.80
	64QAM	1	0	21.97	21.80	21.76	22.80
		1	2	21.91	22.04	21.88	22.80
		1	5	22.03	21.80	21.87	22.80
		3	0	22.13	21.90	21.66	22.80
		3	2	21.91	22.00	21.75	22.80
		3	3	21.83	21.84	21.75	22.80
		6	0	20.92	20.86	20.85	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	24.09	23.93	23.89	24.80
		1	7	24.10	24.05	23.91	24.80
		1	14	23.95	23.97	23.83	24.80
		8	0	23.15	23.04	22.93	23.80
		8	4	23.09	23.05	22.90	23.80
		8	7	23.07	23.02	22.84	23.80
		15	0	23.08	23.02	22.93	23.80
	16QAM	1	0	23.08	23.39	22.96	23.80
		1	7	23.09	23.45	22.96	23.80
		1	14	22.94	23.44	22.86	23.80
		8	0	22.22	22.13	21.96	22.80
		8	4	22.24	22.18	21.96	22.80
		8	7	22.20	22.12	21.93	22.80
		15	0	22.14	22.05	21.86	22.80
	64QAM	1	0	22.18	22.03	21.76	22.80
1		7	22.22	22.15	21.94	22.80	



		1	14	22.04	21.96	21.96	22.80
		8	0	21.01	21.14	20.84	21.80
		8	4	21.00	21.10	20.75	21.80
		8	7	21.19	20.91	20.73	21.80
		15	0	21.19	21.08	20.94	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	24.13	23.97	23.97	24.80
		1	13	24.04	24.03	23.94	24.80
		1	24	23.92	23.99	23.84	24.80
		12	0	23.19	23.01	22.98	23.80
		12	6	23.12	23.04	22.95	23.80
		12	13	23.01	23.02	22.86	23.80
		25	0	23.08	22.99	22.89	23.80
	16QAM	1	0	23.34	23.58	23.15	23.80
		1	13	23.32	23.65	23.13	23.80
		1	24	23.16	23.56	23.12	23.80
		12	0	22.26	22.17	22.05	22.80
		12	6	22.18	22.24	22.02	22.80
		12	13	22.12	22.15	21.94	22.80
		25	0	22.17	22.08	21.89	22.80
	64QAM	1	0	22.07	22.01	22.01	22.80
		1	13	21.96	22.11	21.80	22.80
		1	24	21.80	22.11	21.78	22.80
		12	0	21.30	20.90	20.85	21.80
		12	6	21.00	20.96	21.00	21.80
		12	13	21.16	20.97	20.79	21.80
		25	0	21.23	20.96	20.96	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26750/820	26865/831.5	26990/844	
10MHz	QPSK	1	0	24.11	24.02	23.91	24.80
		1	25	23.95	23.96	23.87	24.80
		1	49	23.91	23.88	23.88	24.80
		25	0	23.13	23.01	22.91	23.80
		25	13	23.11	23.00	22.94	23.80
		25	25	23.02	23.00	22.89	23.80
		50	0	23.08	22.98	22.89	23.80
	16QAM	1	0	23.10	23.46	23.00	23.80
		1	25	22.92	23.36	22.89	23.80
		1	49	22.88	23.35	22.83	23.80
		25	0	22.17	22.11	21.99	22.80
		25	13	22.06	22.06	21.98	22.80
		25	25	22.06	22.03	22.01	22.80



	64QAM	50	0	22.05	22.02	21.90	22.80
		1	0	21.99	21.92	21.91	22.80
		1	25	22.14	21.92	21.91	22.80
		1	49	21.94	22.04	21.82	22.80
		25	0	21.22	21.09	20.82	21.80
		25	13	21.01	21.09	20.84	21.80
		25	25	21.15	21.00	20.98	21.80
		50	0	21.19	20.91	20.84	21.80
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				26775/822.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	23.98	23.92	23.86	24.80
		1	38	23.86	23.86	23.74	24.80
		1	74	23.88	23.79	23.70	24.80
		36	0	23.03	23.02	22.88	23.80
		36	18	23.03	22.97	22.93	23.80
		36	39	22.93	22.97	22.91	23.80
		75	0	23.01	22.93	22.90	23.80
	16QAM	1	0	23.02	23.40	23.37	23.80
		1	38	22.87	23.29	23.30	23.80
		1	74	22.94	23.28	22.56	23.80
		36	0	22.02	22.05	21.89	22.80
		36	18	22.05	22.01	21.91	22.80
		36	39	21.96	21.99	21.85	22.80
		75	0	22.02	21.98	21.90	22.80
	64QAM	1	0	22.24	22.04	21.74	22.80
		1	38	22.10	22.00	22.05	22.80
		1	74	22.03	21.91	21.73	22.80
		36	0	21.06	20.99	20.84	21.80
		36	18	20.96	21.16	20.89	21.80
		36	39	21.02	21.07	20.83	21.80
		75	0	21.22	20.97	20.95	21.80

LTE TDD Band 38 Full Power ANT0&1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.97	24.03	24.21	24.50
		1	13	24.02	24.02	24.11	24.50
		1	24	23.95	24.00	24.03	24.50
		12	0	23.11	23.05	23.08	23.50
		12	6	23.07	23.15	23.10	23.50
		12	13	23.05	23.06	23.14	23.50
		25	0	23.13	23.08	23.10	23.50



	16QAM	1	0	23.23	23.23	23.53	24.00
		1	13	23.21	23.33	23.53	24.00
		1	24	23.19	23.24	23.51	24.00
		12	0	22.17	22.08	22.29	23.00
		12	6	22.19	22.09	22.27	23.00
		12	13	22.10	22.13	22.31	23.00
		25	0	22.11	22.19	22.17	23.00
	64QAM	1	0	21.95	22.10	22.26	23.00
		1	13	21.97	21.93	22.24	23.00
		1	24	21.94	21.88	22.02	23.00
		12	0	21.12	21.06	21.23	22.00
		12	6	21.19	21.16	21.18	22.00
		12	13	21.02	21.03	20.99	22.00
		25	0	21.11	21.02	21.04	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	24.24	24.12	24.20	24.50
		1	25	24.07	24.01	24.06	24.50
		1	49	24.10	24.00	23.95	24.50
		25	0	23.18	23.11	23.13	23.50
		25	13	23.17	23.16	23.10	23.50
		25	25	23.16	23.11	23.18	23.50
		50	0	23.21	23.19	23.14	23.50
	16QAM	1	0	23.52	23.35	23.54	24.00
		1	25	23.34	23.34	23.62	24.00
		1	49	23.50	23.28	23.45	24.00
		25	0	22.18	22.16	22.19	23.00
		25	13	22.19	22.22	22.18	23.00
		25	25	22.22	22.18	22.20	23.00
		50	0	22.21	22.14	22.18	23.00
	64QAM	1	0	22.01	22.13	22.36	23.00
		1	25	22.15	21.98	22.25	23.00
		1	49	21.94	22.00	22.03	23.00
		25	0	21.23	20.90	21.17	22.00
		25	13	21.09	21.07	20.99	22.00
		25	25	21.04	21.13	21.13	22.00
		50	0	21.09	21.08	21.25	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	24.01	24.09	24.18	24.50
		1	38	23.98	23.98	24.02	24.50
		1	74	23.87	23.99	23.89	24.50
		36	0	23.16	23.18	23.12	23.50



		36	18	23.17	23.15	23.11	23.50
		36	39	23.15	23.11	23.13	23.50
		75	0	23.09	23.14	23.08	23.50
	16QAM	1	0	23.27	23.48	23.52	24.00
		1	38	23.24	23.43	23.40	24.00
		1	74	23.20	23.35	23.27	24.00
		36	0	22.19	22.18	22.19	23.00
		36	18	22.11	22.15	22.09	23.00
		36	39	22.10	22.16	22.12	23.00
		75	0	22.20	22.16	22.10	23.00
	64QAM	1	0	21.87	22.10	22.13	23.00
		1	38	21.98	21.94	22.11	23.00
		1	74	22.02	22.07	22.09	23.00
		36	0	21.10	21.02	21.21	22.00
		36	18	21.21	21.26	21.05	22.00
		36	39	20.90	20.96	21.24	22.00
		75	0	21.14	20.98	21.02	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	24.17	24.14	24.14	24.50
		1	50	24.07	24.00	23.98	24.50
		1	99	24.01	23.94	23.84	24.50
		50	0	23.09	23.09	23.14	23.50
		50	25	23.14	23.18	23.10	23.50
		50	50	23.08	23.11	23.10	23.50
		100	0	23.08	23.11	23.14	23.50
	16QAM	1	0	23.41	23.38	23.29	24.00
		1	50	23.36	23.37	23.20	24.00
		1	99	23.39	23.27	23.11	24.00
		50	0	22.13	22.13	22.18	23.00
		50	25	22.21	22.24	22.18	23.00
		50	50	22.18	22.10	22.20	23.00
		100	0	22.15	22.15	22.17	23.00
	64QAM	1	0	21.89	21.93	22.27	23.00
		1	50	22.17	22.04	22.04	23.00
		1	99	21.89	22.04	22.09	23.00
		50	0	21.13	21.18	21.02	22.00
		50	25	20.94	21.20	21.12	22.00
		50	50	21.20	21.01	21.12	22.00
		100	0	21.20	21.01	21.21	22.00



LTE TDD Band 38 ANT1 Level 1&2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.98	21.15	20.95	22.00
		1	13	21.07	20.94	21.01	22.00
		1	24	20.91	21.18	21.14	22.00
		12	0	21.00	20.93	21.11	22.00
		12	6	21.02	20.93	20.92	22.00
		12	13	21.14	21.07	21.20	22.00
		25	0	20.92	20.94	21.02	22.00
	16QAM	1	0	20.94	21.18	20.99	22.00
		1	13	21.02	21.06	21.13	22.00
		1	24	21.11	21.03	20.93	22.00
		12	0	20.98	21.08	21.14	22.00
		12	6	21.07	20.97	21.08	22.00
		12	13	21.17	21.14	21.07	22.00
		25	0	21.05	21.15	21.16	22.00
	64QAM	1	0	20.91	20.96	20.97	22.00
		1	13	20.95	21.06	21.09	22.00
		1	24	21.14	21.03	20.92	22.00
		12	0	21.01	21.06	21.00	22.00
		12	6	21.16	20.95	21.20	22.00
		12	13	21.16	20.95	21.14	22.00
		25	0	21.01	21.16	21.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.94	21.01	20.92	22.00
		1	25	21.12	21.00	21.12	22.00
		1	49	21.17	21.00	21.18	22.00
		25	0	21.03	20.96	20.92	22.00
		25	13	20.97	21.16	21.10	22.00
		25	25	21.07	21.18	21.03	22.00
		50	0	21.16	21.02	21.10	22.00
	16QAM	1	0	21.20	21.11	21.08	22.00
		1	25	21.05	21.17	21.01	22.00
		1	49	21.13	21.12	21.10	22.00
		25	0	20.94	20.96	21.09	22.00
		25	13	21.03	21.20	21.15	22.00
		25	25	21.00	21.06	21.15	22.00
		50	0	21.13	21.13	20.95	22.00
	64QAM	1	0	21.07	20.96	21.06	22.00
		1	25	20.96	21.08	21.04	22.00



		1	49	21.11	21.04	21.07	22.00
		25	0	21.05	20.94	21.14	22.00
		25	13	21.00	20.99	21.15	22.00
		25	25	20.92	21.15	21.19	22.00
		50	0	21.20	21.02	20.94	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	21.11	21.14	21.06	22.00
		1	38	20.97	21.14	21.17	22.00
		1	74	21.12	20.90	21.09	22.00
		36	0	21.16	20.95	21.02	22.00
		36	18	21.12	21.09	21.11	22.00
		36	39	21.00	21.07	20.97	22.00
		75	0	21.05	20.94	21.18	22.00
	16QAM	1	0	21.11	21.20	21.07	22.00
		1	38	20.93	21.14	21.20	22.00
		1	74	21.06	21.09	21.17	22.00
		36	0	21.16	21.00	21.13	22.00
		36	18	21.18	20.97	20.98	22.00
		36	39	20.91	20.91	21.04	22.00
		75	0	21.20	21.03	21.15	22.00
	64QAM	1	0	21.18	21.12	21.15	22.00
		1	38	21.18	21.06	21.06	22.00
		1	74	21.02	21.14	21.11	22.00
		36	0	20.91	21.01	21.12	22.00
		36	18	21.07	21.13	20.93	22.00
		36	39	21.20	21.15	21.03	22.00
		75	0	20.94	21.02	21.14	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.96	21.20	21.11	22.00
		1	50	21.17	21.10	20.99	22.00
		1	99	21.03	21.03	21.10	22.00
		50	0	21.11	21.10	21.16	22.00
		50	25	20.99	21.05	21.09	22.00
		50	50	20.96	20.98	20.92	22.00
		100	0	21.12	21.20	21.00	22.00
	16QAM	1	0	20.93	21.03	21.09	22.00
		1	50	21.17	20.93	20.96	22.00
		1	99	21.05	20.99	21.02	22.00
		50	0	21.03	21.00	21.08	22.00
		50	25	21.04	21.10	20.98	22.00
		50	50	20.98	21.03	21.02	22.00



		100	0	21.13	20.97	21.14	22.00
	64QAM	1	0	20.96	20.90	21.15	22.00
		1	50	20.93	21.19	21.02	22.00
		1	99	20.99	21.12	20.99	22.00
		50	0	20.96	20.90	20.95	22.00
		50	25	21.13	20.99	21.18	22.00
		50	50	21.12	21.09	21.10	22.00
		100	0	21.18	21.03	21.06	22.00

LTE TDD Band 41 Full Power ANT0&1				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5	
5MHz	QPSK	1	0	24.19	24.28	24.26	24.28	24.07	24.50
		1	13	24.10	24.33	24.29	24.30	24.13	24.50
		1	24	24.08	24.21	24.22	24.09	24.05	24.50
		12	0	23.19	23.29	23.24	23.38	23.02	23.50
		12	6	23.14	23.17	23.32	23.22	23.01	23.50
		12	13	23.14	23.30	23.20	23.19	23.09	23.50
		25	0	23.12	23.13	23.26	23.36	23.01	23.50
	16QAM	1	0	23.43	23.41	23.46	23.58	23.41	24.00
		1	13	23.34	23.65	23.58	23.63	23.51	24.00
		1	24	23.30	23.36	23.50	23.47	23.63	24.00
		12	0	22.21	22.30	22.22	22.31	22.12	23.00
		12	6	22.19	22.20	22.29	22.22	22.13	23.00
		12	13	22.19	22.12	22.22	22.23	22.14	23.00
		25	0	22.18	22.28	22.38	22.49	22.04	23.00
	64QAM	1	0	22.37	22.34	22.23	22.33	22.17	23.00
		1	13	22.23	22.33	22.16	22.32	22.19	23.00
		1	24	22.12	22.04	22.21	22.08	22.20	23.00
		12	0	21.40	21.51	21.47	21.27	21.46	22.00
		12	6	21.13	21.08	21.19	21.16	21.11	22.00
		12	13	21.11	21.04	21.25	21.15	21.25	22.00
		25	0	21.43	21.39	21.46	21.33	21.30	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	
10MHz	QPSK	1	0	24.31	24.33	24.20	24.14	24.10	24.50
		1	25	24.07	24.17	24.11	24.32	24.08	24.50
		1	49	24.03	24.15	24.14	24.21	23.98	24.50
		25	0	23.13	23.25	23.22	23.10	22.92	23.50
		25	13	23.15	23.41	23.22	23.38	22.93	23.50
		25	25	23.04	23.25	23.16	23.18	23.01	23.50
		50	0	23.08	23.33	23.24	23.15	23.01	23.50
	16QAM	1	0	23.33	23.48	23.59	23.54	23.38	24.00
		1	25	23.33	23.44	23.69	23.67	23.28	24.00
		1	49	23.35	23.56	23.63	23.60	23.39	24.00
		25	0	22.13	22.12	22.32	22.14	22.05	23.00
		25	13	22.11	22.20	22.29	22.26	22.09	23.00
		25	25	22.14	22.29	22.22	22.36	22.11	23.00



	64QAM	50	0	22.12	22.45	22.31	22.42	22.08	23.00
		1	0	22.43	22.25	22.12	22.20	22.11	23.00
		1	25	22.14	22.30	22.15	22.34	22.32	23.00
		1	49	22.18	21.90	22.18	22.03	22.05	23.00
		25	0	21.44	21.37	21.60	21.27	21.56	22.00
		25	13	21.09	21.11	21.32	21.11	21.00	22.00
		25	25	21.24	21.19	21.11	21.08	21.17	22.00
		50	0	21.47	21.54	21.54	21.35	21.42	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	24.15	24.18	24.15	24.27	24.00	24.50
		1	38	23.92	24.16	24.05	24.21	23.89	24.50
		1	74	23.86	24.29	23.99	24.12	24.03	24.50
		36	0	23.15	23.30	23.14	23.17	22.90	23.50
		36	18	23.01	23.25	23.14	23.21	23.02	23.50
		36	39	23.05	23.23	23.13	23.07	22.96	23.50
		75	0	23.01	23.15	23.20	23.34	22.97	23.50
	16QAM	1	0	23.31	23.36	23.50	23.56	23.26	24.00
		1	38	23.22	23.46	23.54	23.45	23.27	24.00
		1	74	23.25	23.38	23.56	23.41	23.32	24.00
		36	0	22.11	22.31	22.07	22.12	21.94	23.00
		36	18	22.07	22.34	22.23	22.20	22.05	23.00
		36	39	22.06	22.08	22.17	22.36	22.06	23.00
		75	0	22.16	22.41	22.23	22.26	22.03	23.00
	64QAM	1	0	22.27	22.27	22.18	22.29	22.32	23.00
		1	38	22.08	22.27	22.25	22.35	22.12	23.00
		1	74	22.24	22.18	22.17	22.05	22.34	23.00
		36	0	21.35	21.39	21.43	21.21	21.45	22.00
		36	18	21.14	21.02	21.08	21.04	21.10	22.00
		36	39	21.15	20.97	21.40	21.09	21.11	22.00
		75	0	21.33	21.45	21.44	21.45	21.15	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/2 506	40185/2 549.5	40620/2 593	41055/2 636.5	41490/2 680	
20MHz	QPSK	1	0	24.20	24.36	24.29	24.35	24.09	24.50
		1	50	24.02	24.34	24.01	24.43	23.94	24.50
		1	99	23.90	24.15	24.04	24.19	23.99	24.50
		50	0	23.10	23.13	23.16	23.22	22.94	23.50
		50	25	23.18	23.31	23.17	23.46	23.00	23.50
		50	50	23.04	23.14	23.12	23.28	23.00	23.50
		100	0	23.07	23.14	23.23	23.28	22.97	23.50
	16QAM	1	0	23.36	23.61	23.32	23.52	23.30	24.00



		1	50	23.25	23.43	23.20	23.70	23.32	24.00
		1	99	23.31	23.62	23.26	23.55	23.41	24.00
		50	0	22.09	22.10	22.20	22.25	21.96	23.00
		50	25	22.13	22.20	22.19	22.14	22.07	23.00
		50	50	22.09	22.34	22.23	22.25	22.04	23.00
		100	0	22.08	22.31	22.18	22.33	22.02	23.00
	64QAM	1	0	22.48	22.19	22.08	22.18	22.25	23.00
		1	50	22.16	22.45	22.04	22.17	22.20	23.00
		1	99	22.00	21.90	22.06	22.08	22.27	23.00
		50	0	21.42	21.44	21.55	21.25	21.55	22.00
		50	25	21.05	20.98	21.09	21.10	20.97	22.00
		50	50	21.03	20.96	21.36	21.17	21.26	22.00
		100	0	21.52	21.43	21.33	21.25	21.36	22.00

LTE TDD Band 41 ANT1 Level 1				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5	
5MHz	QPSK	1	0	20.90	20.90	20.83	20.72	20.42	21.50
		1	13	20.89	21.00	20.95	20.62	20.68	21.50
		1	24	20.85	20.98	20.90	20.80	20.57	21.50
		12	0	20.93	20.96	20.96	20.88	20.73	21.50
		12	6	20.94	21.00	21.04	20.77	20.84	21.50
		12	13	20.96	21.03	21.00	21.04	20.92	21.50
		25	0	20.91	21.00	20.90	20.79	21.03	21.50
	16QAM	1	0	20.58	21.22	20.97	20.77	20.66	21.50
		1	13	20.69	20.63	21.00	20.92	20.67	21.50
		1	24	20.53	20.84	20.69	20.78	20.70	21.50
		12	0	20.70	20.81	20.88	20.91	20.76	21.50
		12	6	20.78	20.84	21.14	21.02	20.97	21.50
		12	13	20.79	21.04	21.18	20.94	20.74	21.50
		25	0	20.88	21.00	20.79	20.90	20.90	21.50
	64QAM	1	0	20.73	21.22	21.12	20.64	20.76	21.50
		1	13	20.59	20.92	21.13	20.78	20.64	21.50
		1	24	20.71	21.03	21.16	20.86	20.63	21.50
		12	0	20.70	20.86	21.06	20.80	20.89	21.50
		12	6	21.00	20.97	20.97	20.79	21.02	21.50
		12	13	21.13	20.75	20.86	21.12	20.81	21.50
		25	0	20.80	20.92	20.99	20.93	21.18	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	



10MHz	QPSK	1	0	20.77	20.91	20.99	20.51	20.56	21.50
		1	25	20.80	20.85	20.95	20.73	20.64	21.50
		1	49	20.79	20.87	20.97	20.83	20.55	21.50
		25	0	20.92	20.99	20.93	20.70	20.89	21.50
		25	13	20.93	21.08	20.95	20.80	20.91	21.50
		25	25	20.88	21.00	21.00	20.99	20.66	21.50
		50	0	20.90	21.00	20.93	20.95	20.87	21.50
	16QAM	1	0	20.63	21.16	21.00	20.68	20.80	21.50
		1	25	20.76	20.79	20.92	20.72	20.69	21.50
		1	49	20.59	20.98	20.96	20.78	20.52	21.50
		25	0	20.79	20.82	21.05	20.85	20.91	21.50
		25	13	20.84	21.03	21.09	20.85	20.93	21.50
		25	25	20.69	21.02	20.91	20.82	21.00	21.50
		50	0	20.81	20.97	20.80	20.82	20.98	21.50
	64QAM	1	0	20.87	21.22	21.23	20.68	20.82	21.50
		1	25	20.78	20.90	21.08	20.71	20.72	21.50
		1	49	20.58	20.95	21.17	20.93	20.60	21.50
		25	0	20.88	20.98	20.92	20.79	20.86	21.50
		25	13	20.97	20.90	20.97	20.72	20.94	21.50
		25	25	20.93	20.90	20.97	21.08	20.97	21.50
		50	0	20.90	20.98	20.97	20.84	21.16	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	20.71	20.88	20.95	20.77	20.55	21.50
		1	38	20.70	20.79	20.86	20.59	20.50	21.50
		1	74	20.65	20.89	20.92	20.73	20.60	21.50
		36	0	20.81	20.95	20.89	20.83	20.93	21.50
		36	18	20.86	20.98	20.88	20.87	20.71	21.50
		36	39	20.83	20.96	20.94	21.11	20.80	21.50
		75	0	20.85	21.00	20.86	20.96	21.04	21.50
	16QAM	1	0	20.75	21.17	21.00	20.66	20.75	21.50
		1	38	20.72	20.72	20.72	20.69	20.65	21.50
		1	74	20.72	20.76	20.77	20.77	20.64	21.50
		36	0	20.97	20.70	21.08	20.88	20.88	21.50
		36	18	20.92	20.84	21.13	20.81	20.84	21.50
		36	39	20.77	20.97	21.02	21.00	20.88	21.50
		75	0	20.85	21.12	20.89	20.78	20.78	21.50
	64QAM	1	0	20.67	21.08	21.10	20.72	20.79	21.50
		1	38	20.60	20.84	20.90	20.89	20.60	21.50
		1	74	20.68	20.93	20.96	20.85	20.68	21.50
		36	0	20.88	20.87	21.00	20.78	20.90	21.50
		36	18	20.96	20.79	20.90	20.94	21.01	21.50



		36	39	20.97	20.90	20.93	20.98	21.04	21.50
		75	0	20.75	21.13	20.96	20.96	20.95	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/2 506	40185/2 549.5	40620/2 593	41055/2 636.5	41490/2 680	
20MHz	QPSK	1	0	20.71	21.01	20.99	20.65	20.57	21.50
		1	50	20.69	20.78	20.89	20.69	20.64	21.50
		1	99	20.73	20.89	20.94	20.76	20.66	21.50
		50	0	20.92	20.93	20.93	20.77	20.87	21.50
		50	25	20.90	20.99	20.99	20.85	20.85	21.50
		50	50	20.87	20.96	20.95	21.02	20.80	21.50
		100	0	20.86	20.98	20.98	20.88	21.00	21.50
	16QAM	1	0	20.65	21.08	21.09	20.76	20.69	21.50
		1	50	20.62	20.75	20.87	20.80	20.62	21.50
		1	99	20.65	20.87	20.81	20.85	20.65	21.50
		50	0	20.83	20.79	20.97	20.82	20.76	21.50
		50	25	20.81	20.92	21.06	20.93	20.90	21.50
		50	50	20.77	21.11	21.05	20.97	20.89	21.50
		100	0	20.76	21.05	20.90	20.78	20.89	21.50
	64QAM	1	0	20.74	21.08	21.10	20.66	20.68	21.50
		1	50	20.65	20.79	21.00	20.78	20.71	21.50
		1	99	20.70	20.97	21.07	20.90	20.60	21.50
		50	0	20.80	20.96	21.03	20.75	20.78	21.50
		50	25	20.94	20.90	21.01	20.79	20.96	21.50
		50	50	21.00	20.88	20.89	20.97	20.95	21.50
		100	0	20.88	21.07	20.85	20.81	21.04	21.50

LTE TDD Band 41 ANT1 Level 2&3				Conducted Power(dBm)					Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					
				39675/2 498.5	40148/2 545.8	40620/2 593	41093/2 640.3	41565/2 687.5	
5MHz	QPSK	1	0	19.24	19.47	19.47	19.50	19.37	20.00
		1	13	19.25	19.08	19.41	19.23	19.45	20.00
		1	24	19.05	19.31	19.38	19.26	19.53	20.00
		12	0	19.25	19.48	19.19	19.22	19.19	20.00
		12	6	19.39	19.41	19.52	19.42	19.37	20.00
		12	13	19.41	19.42	19.46	19.39	19.32	20.00
		25	0	19.18	19.27	19.31	19.45	19.31	20.00
	16QAM	1	0	18.93	19.46	19.47	19.36	19.37	20.00
		1	13	19.15	18.85	19.18	19.22	19.35	20.00
		1	24	19.13	19.04	19.32	19.27	19.42	20.00



		12	0	19.31	19.23	19.51	19.21	19.14	20.00
		12	6	19.53	19.37	19.46	19.26	19.40	20.00
		12	13	19.06	19.57	19.36	19.62	19.34	20.00
		25	0	19.46	19.21	19.50	19.49	19.58	20.00
	64QAM	1	0	19.00	19.39	19.50	19.13	19.25	20.00
		1	13	19.28	19.16	19.41	19.01	19.10	20.00
		1	24	18.88	19.25	19.34	19.24	19.57	20.00
		12	0	19.10	19.42	19.43	19.21	19.48	20.00
		12	6	19.41	19.35	19.30	19.40	19.38	20.00
		12	13	19.31	19.29	19.41	19.37	19.29	20.00
		25	0	19.34	19.40	19.36	19.59	19.37	20.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39700/2 501	40160/2 547	40620/2 593	41080/2 639	41540/2 685	
10MHz	QPSK	1	0	19.03	19.36	19.29	19.38	19.46	20.00
		1	25	19.03	19.20	19.28	19.34	19.17	20.00
		1	49	19.09	19.16	19.40	19.42	19.30	20.00
		25	0	19.32	19.20	19.20	19.27	19.29	20.00
		25	13	19.22	19.53	19.36	19.34	19.41	20.00
		25	25	19.27	19.35	19.26	19.49	19.26	20.00
		50	0	19.31	19.28	19.45	19.57	19.39	20.00
	16QAM	1	0	18.97	19.52	19.69	19.36	19.38	20.00
		1	25	19.09	19.05	19.33	19.06	19.22	20.00
		1	49	19.09	19.04	19.28	19.49	19.31	20.00
		25	0	19.58	19.32	19.22	19.31	19.11	20.00
		25	13	19.41	19.31	19.56	19.28	19.25	20.00
		25	25	19.23	19.63	19.54	19.50	19.40	20.00
		50	0	19.55	19.23	19.51	19.56	19.53	20.00
	64QAM	1	0	19.01	19.46	19.25	19.15	19.15	20.00
		1	25	19.35	19.27	19.30	19.05	19.30	20.00
		1	49	18.86	19.32	19.27	19.13	19.53	20.00
		25	0	19.24	19.33	19.34	19.27	19.38	20.00
		25	13	19.24	19.13	19.34	19.22	19.33	20.00
		25	25	19.28	19.11	19.22	19.49	19.29	20.00
		50	0	19.53	19.33	19.17	19.33	19.29	20.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit
				39725/2 503.5	40173/2 548.3	40620/2 593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	19.01	19.52	19.46	19.29	19.41	20.00
		1	38	19.10	19.17	19.22	19.24	19.21	20.00
		1	74	19.28	19.23	19.29	19.37	19.40	20.00
		36	0	19.45	19.45	19.28	19.43	19.32	20.00
		36	18	19.47	19.47	19.39	19.34	19.36	20.00



		36	39	19.38	19.31	19.38	19.36	19.44	20.00
		75	0	19.30	19.33	19.39	19.43	19.33	20.00
	16QAM	1	0	19.19	19.38	19.61	19.29	19.59	20.00
		1	38	19.01	19.03	19.20	19.09	19.12	20.00
		1	74	19.09	19.05	19.49	19.31	19.51	20.00
		36	0	19.47	19.27	19.51	19.17	19.39	20.00
		36	18	19.41	19.22	19.39	19.11	19.25	20.00
		36	39	19.04	19.64	19.32	19.51	19.43	20.00
		75	0	19.39	19.39	19.40	19.50	19.57	20.00
	64QAM	1	0	19.18	19.52	19.28	19.29	19.34	20.00
		1	38	19.15	19.14	19.18	18.93	19.09	20.00
		1	74	18.89	19.29	19.49	19.27	19.47	20.00
		36	0	19.26	19.42	19.43	19.23	19.30	20.00
		36	18	19.13	19.38	19.11	19.41	19.36	20.00
		36	39	19.13	19.11	19.16	19.55	19.27	20.00
		75	0	19.50	19.31	19.23	19.51	19.43	20.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)					Tune-up Limit (dBm)
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	19.13	19.38	19.41	19.38	19.38	20.00
		1	50	19.16	19.14	19.32	19.19	19.31	20.00
		1	99	19.13	19.26	19.34	19.28	19.41	20.00
		50	0	19.31	19.35	19.32	19.30	19.31	20.00
		50	25	19.32	19.39	19.37	19.32	19.39	20.00
		50	50	19.28	19.37	19.36	19.42	19.31	20.00
		100	0	19.32	19.38	19.38	19.43	19.43	20.00
	16QAM	1	0	19.06	19.45	19.56	19.40	19.47	20.00
		1	50	19.12	18.99	19.19	19.20	19.23	20.00
		1	99	19.13	19.15	19.34	19.34	19.46	20.00
		50	0	19.43	19.30	19.37	19.26	19.25	20.00
		50	25	19.43	19.26	19.49	19.23	19.28	20.00
		50	50	19.19	19.49	19.43	19.53	19.33	20.00
		100	0	19.47	19.24	19.44	19.53	19.49	20.00
	64QAM	1	0	19.06	19.37	19.40	19.24	19.30	20.00
		1	50	19.22	19.15	19.33	19.04	19.21	20.00
		1	99	18.98	19.29	19.38	19.20	19.42	20.00
		50	0	19.17	19.29	19.32	19.32	19.35	20.00
		50	25	19.26	19.27	19.23	19.29	19.24	20.00
		50	50	19.23	19.25	19.29	19.48	19.25	20.00
		100	0	19.47	19.37	19.28	19.45	19.38	20.00

LTE FDD Band 66
Full Power ANT0

Conducted Power(dBm)

Tune-up
Limit



Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	24.18	24.05	23.89	24.50
		1	2	24.23	24.12	23.92	24.50
		1	5	24.15	24.08	23.88	24.50
		3	0	24.15	24.10	23.90	24.50
		3	2	24.22	24.10	23.96	24.50
		3	3	24.17	24.05	23.90	24.50
		6	0	23.25	23.12	22.96	23.50
	16QAM	1	0	23.31	23.55	23.02	24.00
		1	2	23.39	23.58	23.07	24.00
		1	5	23.35	23.54	23.03	24.00
		3	0	23.27	23.32	23.18	24.00
		3	2	23.31	23.38	23.18	24.00
		3	3	23.31	23.33	23.11	24.00
		6	0	22.40	22.06	22.14	23.00
	64QAM	1	0	22.05	22.16	21.89	23.00
		1	2	22.29	21.97	21.81	23.00
		1	5	22.11	22.05	22.00	23.00
		3	0	22.12	21.99	22.01	23.00
		3	2	22.26	22.23	22.00	23.00
		3	3	22.18	21.92	22.01	23.00
		6	0	21.29	21.17	20.89	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	24.29	24.10	24.02	24.50
		1	7	24.28	24.21	24.04	24.50
		1	14	24.19	24.13	23.93	24.50
		8	0	23.34	23.17	23.06	23.50
		8	4	23.37	23.23	23.09	23.50
		8	7	23.29	23.22	23.04	23.50
		15	0	23.32	23.19	23.10	23.50
	16QAM	1	0	23.23	23.51	23.11	24.00
		1	7	23.29	23.64	23.13	24.00
		1	14	23.21	23.61	23.05	24.00
		8	0	22.44	22.29	22.12	23.00
		8	4	22.46	22.35	22.14	23.00
		8	7	22.41	22.31	22.06	23.00
		15	0	22.38	22.20	22.03	23.00
	64QAM	1	0	22.40	22.23	21.94	23.00
		1	7	22.37	22.31	21.96	23.00
		1	14	22.19	22.20	21.90	23.00
		8	0	21.42	21.21	21.04	22.00



		8	4	21.30	21.30	21.00	22.00
		8	7	21.14	21.37	20.90	22.00
		15	0	21.43	21.32	21.07	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	24.26	24.18	24.03	24.50
		1	13	24.27	24.24	24.09	24.50
		1	24	24.18	24.17	23.95	24.50
		12	0	23.33	23.15	23.11	23.50
		12	6	23.32	23.24	23.06	23.50
		12	13	23.29	23.22	23.07	23.50
		25	0	23.32	23.18	23.06	23.50
	16QAM	1	0	23.50	23.69	23.18	24.00
		1	13	23.52	23.84	23.27	24.00
		1	24	23.48	23.77	23.19	24.00
		12	0	22.44	22.31	22.15	23.00
		12	6	22.47	22.40	22.20	23.00
		12	13	22.35	22.39	22.10	23.00
		25	0	22.37	22.26	22.04	23.00
	64QAM	1	0	22.16	22.14	22.16	23.00
		1	13	22.26	22.11	22.15	23.00
		1	24	22.22	22.05	22.03	23.00
		12	0	21.28	21.06	21.01	22.00
		12	6	21.46	21.23	21.06	22.00
		12	13	21.42	21.35	21.08	22.00
		25	0	21.47	21.34	21.01	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	24.31	24.15	24.13	24.50
		1	25	24.19	24.14	24.02	24.50
		1	49	24.21	24.05	23.97	24.50
		25	0	23.38	23.20	23.10	23.50
		25	13	23.35	23.18	23.03	23.50
		25	25	23.27	23.21	23.09	23.50
		50	0	23.32	23.13	23.03	23.50
	16QAM	1	0	23.11	23.61	23.11	24.00
		1	25	23.16	23.53	23.02	24.00
		1	49	23.14	23.52	23.01	24.00
		25	0	22.35	22.24	22.19	23.00
		25	13	22.32	22.22	22.13	23.00
		25	25	22.30	22.26	22.17	23.00
		50	0	22.29	22.19	22.04	23.00
	64QAM	1	0	22.17	22.15	22.12	23.00



		1	25	22.38	22.35	21.94	23.00
		1	49	22.19	22.15	21.86	23.00
		25	0	21.43	21.21	20.94	22.00
		25	13	21.45	21.37	21.16	22.00
		25	25	21.19	21.32	20.97	22.00
		50	0	21.26	21.22	21.20	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	24.25	24.11	24.12	24.50
		1	38	24.21	24.13	23.99	24.50
		1	74	24.19	24.08	23.92	24.50
		36	0	23.23	23.17	23.08	23.50
		36	18	23.34	23.19	23.08	23.50
		36	39	23.28	23.19	23.07	23.50
		75	0	23.29	23.15	23.04	23.50
	16QAM	1	0	23.33	23.57	23.69	24.00
		1	38	23.27	23.63	23.54	24.00
		1	74	23.18	23.49	23.48	24.00
		36	0	22.23	22.23	22.03	23.00
		36	18	22.38	22.22	22.06	23.00
		36	39	22.27	22.22	22.06	23.00
		75	0	22.30	22.17	22.07	23.00
	64QAM	1	0	22.19	22.25	22.00	23.00
		1	38	22.14	22.08	22.10	23.00
		1	74	22.22	22.18	21.96	23.00
		36	0	21.30	21.24	21.19	22.00
		36	18	21.47	21.31	21.04	22.00
		36	39	21.37	21.16	20.91	22.00
		75	0	21.36	21.08	21.11	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	24.29	24.23	24.04	24.50
		1	50	24.17	24.17	23.91	24.50
		1	99	24.21	24.15	23.90	24.50
		50	0	23.27	23.14	23.03	23.50
		50	25	23.36	23.18	23.07	23.50
		50	50	23.28	23.18	23.07	23.50
		100	0	23.32	23.13	23.03	23.50
	16QAM	1	0	23.88	23.73	23.60	24.00
		1	50	23.74	23.59	23.46	24.00
		1	99	23.71	23.53	23.41	24.00
		50	0	22.28	22.18	22.03	23.00
		50	25	22.39	22.19	22.01	23.00



		50	50	22.30	22.21	22.06	23.00
		100	0	22.37	22.15	22.05	23.00
	64QAM	1	0	22.18	22.03	22.14	23.00
		1	50	22.36	22.09	22.12	23.00
		1	99	22.14	22.06	21.96	23.00
		50	0	21.42	21.31	20.99	22.00
		50	25	21.49	21.15	21.23	22.00
		50	50	21.31	21.13	21.13	22.00
		100	0	21.32	21.06	21.14	22.00

LTE FDD Band 66 ANT1 Level 1				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	17.42	17.32	17.23	18.00
		1	2	17.17	17.34	16.92	18.00
		1	5	17.12	17.26	17.26	18.00
		3	0	17.35	17.38	17.32	18.00
		3	2	17.30	17.37	17.34	18.00
		3	3	17.16	17.36	17.20	18.00
		6	0	17.42	17.15	17.18	18.00
	16QAM	1	0	17.33	17.29	17.10	18.00
		1	2	17.20	17.20	16.94	18.00
		1	5	17.03	17.37	17.31	18.00
		3	0	17.29	17.13	17.13	18.00
		3	2	17.48	17.13	17.41	18.00
		3	3	17.30	17.12	17.17	18.00
		6	0	17.43	17.31	17.16	18.00
	64QAM	1	0	17.31	17.44	17.35	18.00
		1	2	17.17	17.26	16.93	18.00
		1	5	17.31	17.44	17.21	18.00
		3	0	17.24	17.36	17.31	18.00
		3	2	17.42	17.25	17.18	18.00
		3	3	17.53	17.34	17.13	18.00
		6	0	17.32	17.05	17.33	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	17.25	17.40	17.16	18.00
		1	7	17.23	17.33	17.17	18.00
		1	14	17.18	17.32	17.04	18.00
		8	0	17.32	17.26	17.15	18.00
		8	4	17.41	17.43	17.24	18.00
		8	7	17.39	17.30	17.29	18.00



	16QAM	15	0	17.17	17.09	17.37	18.00
		1	0	17.33	17.34	17.04	18.00
		1	7	17.28	17.35	16.80	18.00
		1	14	17.07	17.23	17.15	18.00
		8	0	17.31	17.10	17.09	18.00
		8	4	17.43	17.25	17.26	18.00
		8	7	17.36	17.28	17.40	18.00
		15	0	17.39	17.08	17.21	18.00
	64QAM	1	0	17.17	17.22	17.14	18.00
		1	7	17.21	17.35	17.18	18.00
		1	14	17.27	17.48	17.10	18.00
		8	0	17.46	17.30	17.48	18.00
		8	4	17.28	17.35	16.93	18.00
		8	7	17.40	17.45	17.09	18.00
		15	0	17.35	17.15	17.32	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	17.44	17.33	17.09	18.00
		1	13	17.14	17.31	17.01	18.00
		1	24	17.37	17.24	17.16	18.00
		12	0	17.31	17.32	17.24	18.00
		12	6	17.45	17.39	17.26	18.00
		12	13	17.42	17.30	17.32	18.00
		25	0	17.33	17.13	17.07	18.00
	16QAM	1	0	17.44	17.27	16.93	18.00
		1	13	17.12	17.20	16.82	18.00
		1	24	17.06	17.43	17.37	18.00
		12	0	17.36	17.31	16.98	18.00
		12	6	17.22	17.26	17.23	18.00
		12	13	17.33	17.16	17.28	18.00
		25	0	17.34	17.24	17.13	18.00
	64QAM	1	0	17.13	17.27	17.37	18.00
		1	13	17.22	17.15	17.17	18.00
		1	24	17.15	17.39	17.05	18.00
		12	0	17.21	17.16	17.48	18.00
		12	6	17.43	17.48	17.08	18.00
		12	13	17.49	17.44	17.15	18.00
		25	0	17.26	17.01	17.13	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	17.38	17.18	17.02	18.00
		1	25	17.14	17.12	17.18	18.00
		1	49	17.21	17.37	17.11	18.00



		25	0	17.15	17.24	17.35	18.00
		25	13	17.37	17.19	17.25	18.00
		25	25	17.31	17.41	17.14	18.00
		50	0	17.38	17.11	17.23	18.00
	16QAM	1	0	17.22	17.16	17.17	18.00
		1	25	17.11	17.36	16.82	18.00
		1	49	17.13	17.26	17.18	18.00
		25	0	17.10	17.07	17.21	18.00
		25	13	17.48	17.13	17.46	18.00
		25	25	17.38	17.26	17.31	18.00
		50	0	17.31	17.26	17.10	18.00
	64QAM	1	0	17.19	17.38	17.28	18.00
		1	25	17.37	17.15	17.17	18.00
		1	49	17.23	17.56	17.27	18.00
		25	0	17.43	17.30	17.43	18.00
		25	13	17.27	17.39	17.17	18.00
		25	25	17.54	17.40	17.13	18.00
		50	0	17.46	17.07	17.28	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	17.34	17.36	17.08	18.00
		1	38	17.07	17.26	17.19	18.00
		1	74	17.35	17.33	17.20	18.00
		36	0	17.20	17.36	17.22	18.00
		36	18	17.34	17.39	17.22	18.00
		36	39	17.36	17.23	17.31	18.00
		75	0	17.25	17.25	17.09	18.00
	16QAM	1	0	17.38	17.20	16.87	18.00
		1	38	17.35	17.08	16.92	18.00
		1	74	16.96	17.46	17.33	18.00
		36	0	17.27	17.07	17.21	18.00
		36	18	17.48	17.07	17.29	18.00
		36	39	17.34	17.02	17.38	18.00
		75	0	17.49	17.14	17.07	18.00
	64QAM	1	0	17.16	17.21	17.14	18.00
		1	38	17.34	17.24	17.19	18.00
		1	74	17.23	17.36	17.24	18.00
		36	0	17.47	17.32	17.30	18.00
		36	18	17.35	17.42	17.07	18.00
		36	39	17.49	17.50	17.24	18.00
		75	0	17.23	17.28	17.11	18.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	



20MHz	QPSK	1	0	17.30	17.28	17.14	18.00
		1	50	17.16	17.21	17.07	18.00
		1	99	17.25	17.28	17.11	18.00
		50	0	17.24	17.24	17.22	18.00
		50	25	17.32	17.29	17.22	18.00
		50	50	17.28	17.29	17.27	18.00
		100	0	17.29	17.23	17.22	18.00
	16QAM	1	0	17.32	17.22	17.02	18.00
		1	50	17.21	17.21	16.93	18.00
		1	99	17.10	17.37	17.22	18.00
		50	0	17.24	17.22	17.10	18.00
		50	25	17.36	17.19	17.36	18.00
		50	50	17.26	17.17	17.25	18.00
		100	0	17.34	17.19	17.13	18.00
	64QAM	1	0	17.23	17.31	17.22	18.00
		1	50	17.26	17.30	17.06	18.00
		1	99	17.26	17.43	17.13	18.00
		50	0	17.34	17.26	17.36	18.00
		50	25	17.31	17.40	17.08	18.00
		50	50	17.40	17.43	17.24	18.00
		100	0	17.37	17.13	17.18	18.00

LTE FDD Band 66 ANT1 Level 2&3				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	15.49	15.66	15.56	16.50
		1	2	15.64	15.52	15.42	16.50
		1	5	15.65	15.82	15.38	16.50
		3	0	15.50	15.60	15.52	16.50
		3	2	15.84	15.50	15.65	16.50
		3	3	15.72	15.76	15.51	16.50
		6	0	15.61	15.55	15.46	16.50
	16QAM	1	0	15.40	15.79	15.41	16.50
		1	2	15.61	15.50	15.27	16.50
		1	5	15.59	15.82	15.57	16.50
		3	0	15.52	15.77	15.51	16.50
		3	2	15.78	15.82	15.61	16.50
		3	3	15.83	15.78	15.58	16.50
		6	0	15.47	15.74	15.67	16.50
	64QAM	1	0	15.71	15.73	15.59	16.50
		1	2	15.37	15.76	15.58	16.50
		1	5	15.78	15.49	15.51	16.50



		3	0	15.90	15.57	15.38	16.50
		3	2	15.76	15.44	15.58	16.50
		3	3	15.65	15.83	15.58	16.50
		6	0	15.47	15.68	15.66	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	15.68	15.64	15.35	16.50
		1	7	15.50	15.67	15.33	16.50
		1	14	15.51	15.62	15.58	16.50
		8	0	15.64	15.48	15.69	16.50
		8	4	15.76	15.72	15.48	16.50
		8	7	15.51	15.65	15.53	16.50
		15	0	15.68	15.63	15.52	16.50
	16QAM	1	0	15.61	15.68	15.58	16.50
		1	7	15.71	15.71	15.26	16.50
		1	14	15.75	15.78	15.45	16.50
		8	0	15.67	15.60	15.52	16.50
		8	4	15.72	15.61	15.54	16.50
		8	7	15.75	15.74	15.62	16.50
		15	0	15.47	15.80	15.66	16.50
	64QAM	1	0	15.68	15.67	15.58	16.50
		1	7	15.54	15.79	15.48	16.50
		1	14	15.69	15.51	15.52	16.50
		8	0	15.67	15.81	15.39	16.50
		8	4	15.77	15.43	15.36	16.50
		8	7	15.60	15.74	15.61	16.50
		15	0	15.62	15.58	15.55	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	15.67	15.59	15.58	16.50
		1	13	15.39	15.74	15.49	16.50
		1	24	15.77	15.53	15.59	16.50
		12	0	15.64	15.70	15.67	16.50
		12	6	15.81	15.46	15.55	16.50
		12	13	15.55	15.73	15.72	16.50
		25	0	15.60	15.46	15.64	16.50
	16QAM	1	0	15.37	15.83	15.64	16.50
		1	13	15.66	15.72	15.20	16.50
		1	24	15.52	15.62	15.44	16.50
		12	0	15.50	15.72	15.54	16.50
		12	6	15.50	15.54	15.44	16.50
		12	13	15.55	15.74	15.59	16.50
		25	0	15.48	15.68	15.51	16.50



	64QAM	1	0	15.79	15.81	15.61	16.50
		1	13	15.44	15.81	15.47	16.50
		1	24	15.68	15.64	15.36	16.50
		12	0	15.89	15.56	15.38	16.50
		12	6	15.69	15.65	15.52	16.50
		12	13	15.72	15.75	15.47	16.50
		25	0	15.64	15.72	15.43	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	15.59	15.56	15.41	16.50
		1	25	15.66	15.69	15.52	16.50
		1	49	15.53	15.64	15.50	16.50
		25	0	15.79	15.59	15.53	16.50
		25	13	15.65	15.70	15.65	16.50
		25	25	15.68	15.53	15.61	16.50
		50	0	15.61	15.74	15.58	16.50
	16QAM	1	0	15.45	15.86	15.50	16.50
		1	25	15.78	15.59	15.21	16.50
		1	49	15.51	15.77	15.59	16.50
		25	0	15.58	15.61	15.70	16.50
		25	13	15.62	15.58	15.61	16.50
		25	25	15.68	15.52	15.59	16.50
		50	0	15.62	15.66	15.40	16.50
	64QAM	1	0	15.77	15.64	15.58	16.50
		1	25	15.45	15.72	15.60	16.50
		1	49	15.93	15.73	15.36	16.50
		25	0	15.82	15.64	15.38	16.50
		25	13	15.64	15.50	15.63	16.50
		25	25	15.75	15.69	15.38	16.50
		50	0	15.50	15.60	15.48	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	15.76	15.60	15.53	16.50
		1	38	15.44	15.67	15.55	16.50
		1	74	15.53	15.68	15.58	16.50
		36	0	15.67	15.64	15.62	16.50
		36	18	15.80	15.48	15.69	16.50
		36	39	15.63	15.71	15.69	16.50
		75	0	15.67	15.61	15.51	16.50
	16QAM	1	0	15.64	15.85	15.44	16.50
		1	38	15.64	15.51	15.31	16.50
		1	74	15.63	15.65	15.44	16.50
		36	0	15.48	15.75	15.65	16.50



		36	18	15.59	15.80	15.46	16.50
		36	39	15.58	15.73	15.58	16.50
		75	0	15.45	15.61	15.69	16.50
	64QAM	1	0	15.82	15.78	15.59	16.50
		1	38	15.33	15.56	15.61	16.50
		1	74	15.71	15.62	15.56	16.50
		36	0	15.78	15.55	15.51	16.50
		36	18	15.80	15.43	15.39	16.50
		36	39	15.71	15.75	15.62	16.50
		75	0	15.66	15.73	15.64	16.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	15.62	15.66	15.49	16.50
		1	50	15.52	15.61	15.44	16.50
		1	99	15.63	15.67	15.47	16.50
		50	0	15.64	15.61	15.63	16.50
		50	25	15.69	15.61	15.60	16.50
		50	50	15.65	15.66	15.65	16.50
		100	0	15.70	15.60	15.61	16.50
	16QAM	1	0	15.51	15.73	15.53	16.50
		1	50	15.66	15.57	15.29	16.50
		1	99	15.62	15.73	15.50	16.50
		50	0	15.55	15.74	15.64	16.50
		50	25	15.65	15.67	15.58	16.50
		50	50	15.68	15.65	15.61	16.50
		100	0	15.55	15.69	15.54	16.50
	64QAM	1	0	15.76	15.75	15.47	16.50
		1	50	15.44	15.70	15.49	16.50
		1	99	15.78	15.62	15.49	16.50
		50	0	15.76	15.67	15.51	16.50
		50	25	15.68	15.54	15.50	16.50
		50	50	15.60	15.69	15.50	16.50
		100	0	15.58	15.69	15.55	16.50

LTE FDD Band 66 ANT0&1 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.37	21.13	21.17	22.00
		1	2	21.15	21.29	21.10	22.00
		1	5	21.15	21.32	21.19	22.00
		3	0	21.21	21.29	21.17	22.00
		3	2	21.19	21.23	20.92	22.00



		3	3	21.24	21.12	21.22	22.00
		6	0	21.20	21.10	21.06	22.00
	16QAM	1	0	21.11	21.20	21.25	22.00
		1	2	21.12	21.04	21.34	22.00
		1	5	21.13	21.48	21.02	22.00
		3	0	21.33	21.26	21.05	22.00
		3	2	21.27	21.21	20.84	22.00
		3	3	21.12	21.21	21.27	22.00
		6	0	21.22	21.33	21.09	22.00
		1	0	21.24	21.13	21.28	22.00
	64QAM	1	2	20.94	21.38	21.09	22.00
		1	5	21.21	21.06	21.05	22.00
		3	0	21.17	21.29	21.35	22.00
		3	2	21.20	21.41	20.99	22.00
		3	3	21.09	21.21	21.16	22.00
		6	0	21.12	21.33	21.03	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.20	21.25	21.02	22.00
		1	7	21.10	21.10	21.25	22.00
		1	14	21.04	21.20	21.10	22.00
		8	0	21.15	21.17	21.18	22.00
		8	4	21.25	21.22	21.10	22.00
		8	7	21.08	21.27	21.29	22.00
		15	0	21.40	21.27	21.06	22.00
	16QAM	1	0	21.11	21.25	21.12	22.00
		1	7	21.37	21.32	21.23	22.00
		1	14	21.41	21.22	20.85	22.00
		8	0	21.17	21.17	21.15	22.00
		8	4	21.35	21.13	21.09	22.00
		8	7	21.06	21.15	21.36	22.00
		15	0	21.16	21.24	21.10	22.00
	64QAM	1	0	21.41	21.36	21.13	22.00
		1	7	20.91	21.30	21.03	22.00
		1	14	21.21	21.07	20.93	22.00
		8	0	21.26	21.30	21.24	22.00
		8	4	21.06	21.27	21.22	22.00
		8	7	21.28	21.27	21.06	22.00
		15	0	21.08	21.10	21.29	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.12	21.07	21.08	22.00
		1	13	21.06	21.12	21.15	22.00



		1	24	21.03	21.12	21.17	22.00
		12	0	21.21	21.17	21.02	22.00
		12	6	21.35	21.19	21.13	22.00
		12	13	21.30	21.20	21.03	22.00
		25	0	21.34	21.26	21.01	22.00
	16QAM	1	0	21.23	21.06	21.25	22.00
		1	13	21.30	21.02	21.23	22.00
		1	24	21.28	21.46	20.91	22.00
		12	0	21.28	21.31	21.21	22.00
		12	6	21.25	21.14	21.04	22.00
		12	13	21.00	21.33	21.19	22.00
		25	0	21.34	21.39	21.21	22.00
	64QAM	1	0	21.30	21.18	21.08	22.00
		1	13	20.96	21.09	21.12	22.00
		1	24	21.12	21.12	20.90	22.00
		12	0	21.20	21.17	21.19	22.00
		12	6	21.27	21.39	21.20	22.00
		12	13	21.15	21.18	21.09	22.00
		25	0	21.06	21.36	21.06	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.36	21.19	21.26	22.00
		1	25	21.16	21.24	20.98	22.00
		1	49	21.25	21.19	20.95	22.00
		25	0	21.08	21.35	21.26	22.00
		25	13	21.24	21.22	21.17	22.00
		25	25	21.07	21.35	21.20	22.00
		50	0	21.16	21.20	21.02	22.00
	16QAM	1	0	21.19	21.12	21.23	22.00
		1	25	21.24	21.29	21.33	22.00
		1	49	21.32	21.45	21.07	22.00
		25	0	21.14	21.43	21.14	22.00
		25	13	21.33	21.06	21.06	22.00
		25	25	21.20	21.11	21.18	22.00
		50	0	21.39	21.24	21.23	22.00
	64QAM	1	0	21.28	21.19	21.24	22.00
		1	25	20.99	21.32	21.08	22.00
		1	49	21.39	21.06	20.92	22.00
		25	0	21.26	21.34	21.14	22.00
		25	13	21.27	21.32	21.05	22.00
		25	25	21.14	21.28	21.29	22.00
		50	0	21.11	21.16	21.29	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up



				132047/1717.5	132322/1745	132597/1772.5	Limit
15MHz	QPSK	1	0	21.38	21.12	21.30	22.00
		1	38	21.22	21.01	21.12	22.00
		1	74	21.28	21.11	21.07	22.00
		36	0	21.29	21.27	21.09	22.00
		36	18	21.29	21.07	21.12	22.00
		36	39	21.14	21.32	21.21	22.00
		75	0	21.23	21.13	21.11	22.00
	16QAM	1	0	21.34	21.27	21.19	22.00
		1	38	21.12	21.04	21.17	22.00
		1	74	21.35	21.48	20.88	22.00
		36	0	21.31	21.33	21.22	22.00
		36	18	21.33	21.30	20.96	22.00
		36	39	21.04	21.29	21.13	22.00
		75	0	21.14	21.27	21.11	22.00
	64QAM	1	0	21.36	21.31	21.29	22.00
		1	38	20.97	21.34	21.06	22.00
		1	74	21.23	21.11	20.95	22.00
		36	0	21.27	21.25	21.17	22.00
		36	18	21.15	21.44	20.99	22.00
		36	39	21.14	21.30	21.17	22.00
		75	0	21.33	21.24	21.02	22.00
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.23	21.20	21.17	22.00
		1	50	21.11	21.14	21.13	22.00
		1	99	21.13	21.25	21.05	22.00
		50	0	21.23	21.21	21.11	22.00
		50	25	21.30	21.22	21.07	22.00
		50	50	21.22	21.24	21.15	22.00
		100	0	21.29	21.20	21.07	22.00
	16QAM	1	0	21.25	21.19	21.16	22.00
		1	50	21.22	21.17	21.23	22.00
		1	99	21.27	21.35	20.94	22.00
		50	0	21.22	21.32	21.10	22.00
		50	25	21.21	21.16	20.99	22.00
		50	50	21.14	21.26	21.24	22.00
		100	0	21.26	21.32	21.11	22.00
	64QAM	1	0	21.32	21.25	21.23	22.00
		1	50	20.99	21.23	21.07	22.00
		1	99	21.27	21.16	20.93	22.00
		50	0	21.32	21.25	21.25	22.00
		50	25	21.19	21.33	21.12	22.00



		50	50	21.15	21.33	21.16	22.00
		100	0	21.19	21.24	21.17	22.00

LTE FDD Band 66 ANT0&1 Level 5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.65	20.72	20.35	21.50
		1	2	20.47	20.59	20.35	21.50
		1	5	20.53	20.55	20.45	21.50
		3	0	20.67	20.60	20.69	21.50
		3	2	20.78	20.77	20.59	21.50
		3	3	20.49	20.67	20.67	21.50
		6	0	20.77	20.60	20.73	21.50
	16QAM	1	0	20.68	20.66	20.43	21.50
		1	2	20.54	20.51	20.72	21.50
		1	5	20.69	20.72	20.52	21.50
		3	0	20.39	20.79	20.67	21.50
		3	2	20.64	20.46	20.67	21.50
		3	3	20.63	20.44	20.79	21.50
		6	0	20.64	20.59	20.73	21.50
	64QAM	1	0	20.66	20.58	20.40	21.50
		1	2	20.57	20.66	20.35	21.50
		1	5	20.47	20.50	20.43	21.50
		3	0	20.54	20.64	20.36	21.50
		3	2	20.80	20.74	20.55	21.50
		3	3	20.60	20.81	20.87	21.50
		6	0	20.66	20.57	20.71	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.55	20.59	20.42	21.50
		1	7	20.58	20.51	20.47	21.50
		1	14	20.60	20.62	20.42	21.50
		8	0	20.53	20.71	20.54	21.50
		8	4	20.71	20.61	20.65	21.50
		8	7	20.78	20.72	20.62	21.50
		15	0	20.70	20.62	20.65	21.50
	16QAM	1	0	20.65	20.60	20.38	21.50
		1	7	20.75	20.58	20.44	21.50
		1	14	20.52	20.86	20.49	21.50
		8	0	20.45	20.76	20.77	21.50
		8	4	20.69	20.51	20.62	21.50
8	7	20.71	20.74	20.88	21.50		



		15	0	20.81	20.78	20.60	21.50
	64QAM	1	0	20.59	20.50	20.37	21.50
		1	7	20.58	20.69	20.57	21.50
		1	14	20.61	20.60	20.38	21.50
		8	0	20.57	20.55	20.53	21.50
		8	4	20.73	20.69	20.59	21.50
		8	7	20.77	20.76	20.84	21.50
		15	0	20.74	20.36	20.76	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	20.76	20.75	20.60	21.50
		1	13	20.51	20.61	20.52	21.50
		1	24	20.72	20.53	20.44	21.50
		12	0	20.59	20.68	20.63	21.50
		12	6	20.79	20.54	20.54	21.50
		12	13	20.50	20.68	20.57	21.50
		25	0	20.54	20.56	20.61	21.50
	16QAM	1	0	20.75	20.47	20.52	21.50
		1	13	20.52	20.50	20.56	21.50
		1	24	20.81	20.57	20.42	21.50
		12	0	20.48	20.79	20.82	21.50
		12	6	20.84	20.57	20.62	21.50
		12	13	20.72	20.66	20.72	21.50
		25	0	20.59	20.75	20.68	21.50
	64QAM	1	0	20.68	20.64	20.44	21.50
		1	13	20.42	20.59	20.61	21.50
		1	24	20.42	20.63	20.41	21.50
		12	0	20.39	20.43	20.58	21.50
		12	6	20.83	20.72	20.63	21.50
		12	13	20.74	20.78	20.69	21.50
		25	0	20.78	20.58	20.70	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	20.51	20.78	20.52	21.50
		1	25	20.48	20.70	20.51	21.50
		1	49	20.58	20.58	20.53	21.50
		25	0	20.60	20.59	20.69	21.50
		25	13	20.67	20.55	20.49	21.50
		25	25	20.71	20.65	20.78	21.50
		50	0	20.68	20.72	20.69	21.50
	16QAM	1	0	20.78	20.39	20.49	21.50
		1	25	20.70	20.68	20.66	21.50
		1	49	20.68	20.82	20.42	21.50



		25	0	20.43	20.64	20.82	21.50
		25	13	20.83	20.61	20.69	21.50
		25	25	20.67	20.67	20.62	21.50
		50	0	20.68	20.84	20.80	21.50
	64QAM	1	0	20.69	20.66	20.57	21.50
		1	25	20.38	20.65	20.47	21.50
		1	49	20.72	20.66	20.39	21.50
		25	0	20.64	20.46	20.40	21.50
		25	13	20.82	20.69	20.38	21.50
		25	25	20.56	20.75	20.65	21.50
		50	0	20.85	20.47	20.81	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.51	20.56	20.38	21.50
		1	38	20.59	20.49	20.36	21.50
		1	74	20.64	20.55	20.53	21.50
		36	0	20.53	20.71	20.39	21.50
		36	18	20.54	20.79	20.74	21.50
		36	39	20.62	20.80	20.51	21.50
		75	0	20.57	20.44	20.58	21.50
	16QAM	1	0	20.65	20.44	20.24	21.50
		1	38	20.68	20.78	20.46	21.50
		1	74	20.59	20.67	20.71	21.50
		36	0	20.32	20.52	20.61	21.50
		36	18	20.86	20.48	20.80	21.50
		36	39	20.72	20.67	20.75	21.50
		75	0	20.65	20.55	20.56	21.50
	64QAM	1	0	20.63	20.47	20.35	21.50
		1	38	20.36	20.59	20.50	21.50
		1	74	20.52	20.61	20.32	21.50
		36	0	20.48	20.53	20.54	21.50
		36	18	20.87	20.49	20.43	21.50
		36	39	20.81	20.83	20.83	21.50
		75	0	20.70	20.35	20.64	21.50
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	20.65	20.64	20.49	21.50
		1	50	20.54	20.59	20.48	21.50
		1	99	20.60	20.67	20.48	21.50
		50	0	20.56	20.64	20.54	21.50
		50	25	20.68	20.65	20.60	21.50
		50	50	20.64	20.69	20.66	21.50
		100	0	20.67	20.59	20.58	21.50



	16QAM	1	0	20.76	20.53	20.38	21.50
		1	50	20.66	20.64	20.59	21.50
		1	99	20.67	20.71	20.56	21.50
		50	0	20.46	20.67	20.67	21.50
		50	25	20.75	20.55	20.70	21.50
		50	50	20.58	20.59	20.75	21.50
		100	0	20.68	20.70	20.66	21.50
	64QAM	1	0	20.59	20.55	20.48	21.50
		1	50	20.47	20.54	20.47	21.50
		1	99	20.57	20.61	20.39	21.50
		50	0	20.51	20.50	20.50	21.50
		50	25	20.72	20.62	20.53	21.50
		50	50	20.71	20.72	20.75	21.50
		100	0	20.77	20.49	20.72	21.50

1.1.1 LTE CA

LTE Uplink 2CA_ Band 7-ANT1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	23.67	24.3
21100	21298	20	QPSK	2	98	1	0	3	23.66	24.3
21350	21152	20	QPSK	1	0	2	98	3	23.85	24.3
LTE Uplink 2CA_ Band 38-ANT0&1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
38048	37850	20	QPSK	1	0	2	98	3	24.43	24.5
38099	37901	20	QPSK	1	0	2	98	3	24.47	24.5
37952	38150	20	QPSK	2	98	1	0	3	24.35	24.5
LTE Uplink 2CA_ Band 41-ANT0&1 Normal Power										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	24.07	24.5
40185	40383	20	QPSK	2	98	1	0	3	24.11	24.5
40620	40818	20	QPSK	2	98	1	0	3	24.34	24.5
41055	41253	20	QPSK	2	98	1	0	3	24.09	24.5
41490	41292	20	QPSK	1	0	2	98	3	24.47	24.5
LTE Uplink 2CA_ Band 7-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	16.53	17.8
21100	21298	20	QPSK	2	98	1	0	3	16.41	17.8
21350	21152	20	QPSK	1	0	2	98	3	16.55	17.8
LTE Uplink 2CA_ Band 38-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB	Measured Power(dBm)	Max. tune-up power(dBm)
				Size	Pos.	Size	Pos.	Size		



				RB Size	RB Pos.	RB Size	RB Pos.	Size		
38048	37850	20	QPSK	1	0	2	98	3	20.89	22
38099	37901	20	QPSK	1	0	2	98	3	20.85	22
37952	38150	20	QPSK	2	98	1	0	3	20.91	22
LTE Uplink 2CA_ Band 41-ANT1-Level1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	20.58	21.5
40185	40383	20	QPSK	2	98	1	0	3	20.85	21.5
40620	40818	20	QPSK	2	98	1	0	3	20.77	21.5
41055	41253	20	QPSK	2	98	1	0	3	20.47	21.5
41490	41292	20	QPSK	1	0	2	98	3	20.39	21.5
LTE Uplink 2CA_ Band 7-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	15.84	16.8
21100	21298	20	QPSK	2	98	1	0	3	15.72	16.8
21350	21152	20	QPSK	1	0	2	98	3	15.69	16.8
LTE Uplink 2CA_ Band 38-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
38048	37850	20	QPSK	1	0	2	98	3	20.89	22
38099	37901	20	QPSK	1	0	2	98	3	20.85	22
37952	38150	20	QPSK	2	98	1	0	3	20.91	22
LTE Uplink 2CA_ Band 41-ANT1-Level2&3										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	2	98	1	0	3	18.98	20
40185	40383	20	QPSK	2	98	1	0	3	19.23	20
40620	40818	20	QPSK	2	98	1	0	3	19.28	20



41055	41253	20	QPSK	2	98	1	0	3	19.14	20
41490	41292	20	QPSK	1	0	2	98	3	19.11	20
LTE Uplink 2CA_ Band 7-ANT1-Level4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	19.11	20.3
21100	21298	20	QPSK	2	98	1	0	3	19.05	20.3
21350	21152	20	QPSK	1	0	2	98	3	19.16	20.3
LTE Uplink 2CA_ Band 7-ANT1-Level5&6										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	18.52	19.8
21100	21298	20	QPSK	2	98	1	0	3	18.6	19.8
21350	21152	20	QPSK	1	0	2	98	3	18.56	19.8
LTE Uplink 2CA_ Band 7-ANT0-Level4										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	21.65	22.8
21100	21298	20	QPSK	2	98	1	0	3	21.57	22.8
21350	21152	20	QPSK	1	0	2	98	3	21.63	22.8
LTE Uplink 2CA_ Band 7-ANT0-Level5&6										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	2	98	1	0	3	21.22	21.8
21100	21298	20	QPSK	2	98	1	0	3	21.15	21.8
21350	21152	20	QPSK	1	0	2	98	3	21.21	21.8

1.4 EN-DC Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM		≤ 2.5	
DFT-s-OFDM 256 QAM		≤ 4.5	
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM		≤ 3.5	
CP-OFDM 256 QAM		≤ 6.5	
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

EN-DC Antenna Configuration

EN-DC	Band	LTE Band	NR Band	Antenna 4	Antenna 0	Antenna 1
	EN-DC_7A_n5	LTE 7	n5	LTE	NR	NR

Note:1) The EN-DC mode maximum power for LTE are same as LTE standalone mode, so this section only list 5G NR conducted power.

1.1.2 LTE (EN-DC)

LTE FDD Band 7 ANT 4 Level 1&2&3&5&6				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.70	21.66	21.58	22.30
		1	13	21.58	21.66	21.51	22.30
		1	24	21.80	21.69	21.65	22.30
		12	0	21.52	21.84	21.74	22.30
		12	6	21.83	21.93	21.79	22.30
		12	13	21.83	21.72	21.64	22.30
		25	0	21.54	21.72	21.89	22.30
	16QAM	1	0	21.78	21.54	21.54	22.30
		1	13	21.60	21.44	21.47	22.30
		1	24	21.67	21.54	21.51	22.30
		12	0	20.73	21.34	20.77	22.30
		12	6	20.42	21.26	21.10	22.30
		12	13	20.58	21.23	21.17	22.30
		25	0	20.61	21.22	20.78	22.30
	64QAM	1	0	19.50	20.11	19.91	22.30
		1	13	19.44	20.48	19.74	22.30
		1	24	19.35	20.13	19.23	22.30
		12	0	18.62	19.29	18.68	21.30
		12	6	18.48	19.69	18.95	21.30
		12	13	18.55	19.50	19.14	21.30
		25	0	18.59	19.42	18.86	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.65	21.64	21.62	22.30
		1	25	21.64	21.68	21.62	22.30
		1	49	21.86	21.64	21.60	22.30
		25	0	21.54	21.91	21.72	22.30
		25	13	21.81	21.80	21.76	22.30



		25	25	21.83	21.63	21.68	22.30
		50	0	21.54	21.72	21.86	22.30
	16QAM	1	0	21.86	21.52	21.52	22.30
		1	25	21.55	21.56	21.59	22.30
		1	49	21.78	21.63	21.40	22.30
		25	0	20.59	21.23	20.79	22.30
		25	13	20.38	21.28	21.10	22.30
		25	25	20.54	21.15	21.06	22.30
		50	0	20.65	21.32	20.80	22.30
	64QAM	1	0	19.44	20.09	19.85	22.30
		1	25	19.48	20.38	19.80	22.30
		1	49	19.29	20.07	19.29	22.30
		25	0	18.72	19.23	18.58	21.30
		25	13	18.37	19.53	19.01	21.30
		25	25	18.60	19.42	19.02	21.30
		50	0	18.53	19.42	18.78	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.65	21.51	21.56	22.30
		1	38	21.66	21.70	21.66	22.30
		1	74	21.75	21.69	21.67	22.30
		36	0	21.62	21.91	21.74	22.30
		36	18	21.77	21.93	21.85	22.30
		36	39	21.79	21.78	21.73	22.30
		75	0	21.52	21.83	21.82	22.30
	16QAM	1	0	21.80	21.46	21.58	22.30
		1	38	21.55	21.52	21.49	22.30
		1	74	21.74	21.61	21.57	22.30
		36	0	20.63	21.26	20.75	22.30
		36	18	20.48	21.30	21.12	22.30
		36	39	20.58	21.17	21.21	22.30
		75	0	20.63	21.32	20.82	22.30
	64QAM	1	0	19.52	20.01	19.85	22.30
		1	38	19.44	20.52	19.80	22.30
		1	74	19.41	20.09	19.17	22.30
		36	0	18.70	19.27	18.66	21.30
		36	18	18.42	19.57	19.01	21.30
		36	39	18.60	19.40	19.08	21.30
		75	0	18.55	19.52	18.75	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.72	21.62	21.60	22.30
		1	50	21.64	21.66	21.62	22.30



		1	99	21.84	21.71	21.67	22.30
		50	0	21.56	21.84	21.70	22.30
		50	25	21.81	21.89	21.83	22.30
		50	50	21.79	21.74	21.75	22.30
		100	0	21.52	21.83	21.82	22.30
	16QAM	1	0	21.82	21.48	21.54	22.30
		1	50	21.64	21.50	21.53	22.30
		1	99	21.76	21.63	21.51	22.30
		50	0	20.67	21.32	20.75	22.30
		50	25	20.46	21.26	21.10	22.30
		50	50	20.62	21.17	21.17	22.30
		100	0	20.65	21.28	20.88	22.30
	64QAM	1	0	19.52	20.11	19.93	22.30
		1	50	19.46	20.46	19.76	22.30
		1	99	19.37	20.13	19.27	22.30
		50	0	18.66	19.33	18.64	21.30
		50	25	18.46	19.63	19.05	21.30
		50	50	18.62	19.48	19.08	21.30
		100	0	18.59	19.48	18.84	21.30

LTE FDD Band 7 ANT 4 Level 4				Conducted Power(dBm)			Tune-up Limit
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.63	22.52	22.64	23.30
		1	13	22.75	22.56	22.60	23.30
		1	24	22.70	22.74	22.63	23.30
		12	0	21.53	22.26	21.67	23.30
		12	6	21.79	22.37	22.14	23.30
		12	13	21.52	22.30	21.95	23.30
		25	0	21.54	22.35	21.93	23.30
	16QAM	1	0	21.86	21.93	21.93	23.30
		1	13	21.74	22.96	21.91	23.30
		1	24	21.67	22.19	21.63	23.30
		12	0	20.75	21.30	20.81	22.30
		12	6	20.48	21.26	21.01	22.30
		12	13	20.64	21.28	21.02	22.30
		25	0	20.61	21.43	20.88	22.30
	64QAM	1	0	19.50	20.17	19.83	22.30
		1	13	19.44	20.48	19.76	22.30
		1	24	19.41	20.05	19.35	22.30
		12	0	18.79	19.41	18.64	21.30
		12	6	18.46	19.67	19.09	21.30



		12	13	18.64	19.56	19.20	21.30
		25	0	18.47	19.36	18.76	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.66	22.49	22.66	23.30
		1	25	22.66	22.47	22.60	23.30
		1	49	22.64	22.81	22.45	23.30
		25	0	21.49	22.35	21.74	23.30
		25	13	21.61	22.35	22.18	23.30
		25	25	21.60	22.39	22.08	23.30
		50	0	21.45	22.33	21.79	23.30
	16QAM	1	0	21.93	22.09	21.95	23.30
		1	25	21.78	22.83	21.98	23.30
		1	49	21.65	22.13	21.71	23.30
		25	0	20.69	21.30	20.73	22.30
		25	13	20.54	21.26	21.12	22.30
		25	25	20.68	21.20	21.09	22.30
		50	0	20.65	21.30	20.82	22.30
	64QAM	1	0	19.52	20.19	19.97	22.30
		1	25	19.42	20.40	19.86	22.30
		1	49	19.53	20.05	19.27	22.30
		25	0	18.81	19.29	18.76	21.30
		25	13	18.59	19.63	19.11	21.30
		25	25	18.52	19.54	19.10	21.30
		50	0	18.46	19.50	18.80	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.50	22.45	22.66	23.30
		1	38	22.66	22.63	22.62	23.30
		1	74	22.77	22.72	22.61	23.30
		36	0	21.46	22.42	21.82	23.30
		36	18	21.65	22.32	22.14	23.30
		36	39	21.54	22.30	22.10	23.30
		75	0	21.60	22.30	21.82	23.30
	16QAM	1	0	21.82	21.95	22.09	23.30
		1	38	21.81	22.89	21.87	23.30
		1	74	21.74	22.13	21.65	23.30
		36	0	20.69	21.28	20.75	22.30
		36	18	20.58	21.28	21.04	22.30
		36	39	20.56	21.15	21.05	22.30
		75	0	20.65	21.30	20.90	22.30
	64QAM	1	0	19.54	20.21	19.91	22.30
		1	38	19.54	20.56	19.74	22.30



		1	74	19.39	20.17	19.27	22.30
		36	0	18.68	19.25	18.63	21.30
		36	18	18.44	19.73	19.07	21.30
		36	39	18.62	19.50	19.18	21.30
		75	0	18.49	19.42	18.78	21.30
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Tune-up Limit
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.61	22.54	22.66	23.30
		1	50	22.68	22.58	22.62	23.30
		1	99	22.75	22.74	22.56	23.30
		50	0	21.55	22.35	21.78	23.30
		50	25	21.72	22.39	22.14	23.30
		50	50	21.54	22.32	22.06	23.30
		100	0	21.56	22.37	21.86	23.30
	16QAM	1	0	21.86	22.02	22.02	23.30
		1	50	21.74	22.94	21.98	23.30
		1	99	21.76	22.17	21.67	23.30
		50	0	20.75	21.26	20.77	22.30
		50	25	20.54	21.32	21.12	22.30
		50	50	20.62	21.26	21.13	22.30
		100	0	20.59	21.39	20.86	22.30
	64QAM	1	0	19.54	20.19	19.91	22.30
		1	50	19.48	20.50	19.80	22.30
		1	99	19.47	20.15	19.37	22.30
		50	0	18.75	19.35	18.70	21.30
		50	25	18.53	19.69	19.09	21.30
		50	50	18.58	19.58	19.14	21.30
		100	0	18.53	19.46	18.78	21.30

1.1.3 NR (EN-DC)

N5-ANT0 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/ 826.5	167300/ 836.5	169300/ 846.5	
5	DFT-s-OFDM QPSK	1	1	23.64	23.42	23.33	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/ 829	167300/ 836.5	168800/ 844	
10	DFT-s-OFDM QPSK	1	1	23.64	23.44	23.24	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/ 831.5	167300/ 836.5	168300/ 841.5	
15	DFT-s-OFDM QPSK	1	1	23.64	23.40	23.30	24.30
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/ 834	167300/ 836.5	167800/ 839	
20	DFT-s-OFDM QPSK	1	1	23.64	23.49	23.23	24.30
		1	53	23.28	23.11	23.30	24.30
		1	104	23.12	23.08	22.83	24.30
	DFT-s-OFDM QPSK	50	0	23.77	23.39	23.38	24.30
		50	28	23.01	22.95	22.83	24.30
		50	56	23.20	23.27	23.06	24.30
	DFT-s-OFDM QPSK	100	0	22.50	22.78	22.65	23.80
	DFT-s-OFDM 16QAM	1	1	22.41	21.85	22.68	23.30
	DFT-s-OFDM 64QAM	1	1	20.90	20.98	21.06	21.80
	DFT-s-OFDM 256QAM	1	1	19.89	20.02	20.11	20.80
	CP-OFDM QPSK	1	1	22.05	22.16	21.96	22.80
	CP-OFDM 16QAM	1	1	21.48	21.95	21.56	22.80
	CP-OFDM 64QAM	1	1	20.33	20.46	20.33	21.30
	CP-OFDM 256QAM	1	1	18.62	18.90	18.62	19.80



N5-ANT1 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				165300/ 826.5	167300/ 836.5	169300/ 846.5	
5	DFT-s-OFDM QPSK	1	1	23.42	23.13	23.31	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				165800/ 829	167300/ 836.5	168800/ 844	
10	DFT-s-OFDM QPSK	1	1	23.47	23.28	23.23	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166300/ 831.5	167300/ 836.5	168300/ 841.5	
15	DFT-s-OFDM QPSK	1	1	23.51	23.35	23.21	24.80
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				166800/ 834	167300/ 836.5	167800/ 839	
20	DFT-s-OFDM QPSK	1	1	23.37	23.25	23.23	24.80
		1	53	23.11	23.15	23.02	24.80
		1	104	23.14	23.07	22.95	24.80
	DFT-s-OFDM QPSK	50	0	23.49	23.17	23.30	24.80
		50	28	23.00	23.12	22.88	24.80
		50	56	23.28	23.28	23.17	24.80
	DFT-s-OFDM QPSK	100	0	22.38	22.52	22.29	23.80
	DFT-s-OFDM 16QAM	1	1	22.58	22.60	22.61	23.80
	DFT-s-OFDM 64QAM	1	1	21.24	21.15	21.09	22.30
	DFT-s-OFDM 256QAM	1	1	19.59	19.52	19.40	20.80
	CP-OFDM QPSK	1	1	21.90	21.94	22.05	23.30
	CP-OFDM 16QAM	1	1	21.48	21.51	21.58	22.80
	CP-OFDM 64QAM	1	1	20.25	20.32	20.30	21.30
	CP-OFDM 256QAM	1	1	18.70	18.66	18.68	19.80

N7-ANT0 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/ 2502.5	507000/ 2535	513500/ 2567.5	
5	DFT-s-OFDM QPSK	1	1	22.50	22.92	23.15	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/ 2505	507000/ 2535	513000/ 2565	
10	DFT-s-OFDM QPSK	1	1	22.51	22.85	22.94	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/ 2507.5	507000/ 2535	512500/ 2562.5	
15	DFT-s-OFDM QPSK	1	1	22.72	22.84	23.05	24.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/ 2510	507000/ 2535	512000/ 2560	
20	DFT-s-OFDM QPSK	1	1	22.65	22.91	23.04	24.00
		1	53	22.44	22.55	22.63	24.00
		1	104	22.58	22.85	22.15	24.00
	DFT-s-OFDM QPSK	50	0	22.64	23.05	23.12	24.00
		50	28	22.51	23.10	22.24	24.00
		50	56	22.78	22.92	22.92	24.00
	DFT-s-OFDM QPSK	100	0	21.50	21.73	21.68	23.50
	DFT-s-OFDM 16QAM	1	1	21.53	21.42	21.29	23.00
	DFT-s-OFDM 64QAM	1	1	19.98	19.95	19.86	21.50
	DFT-s-OFDM 256QAM	1	1	18.48	18.37	18.36	19.50
	CP-OFDM QPSK	1	1	20.79	20.70	20.55	22.50
	CP-OFDM 16QAM	1	1	20.32	20.25	20.17	21.50
	CP-OFDM 64QAM	1	1	19.38	19.23	19.34	20.50
	CP-OFDM 256QAM	1	1	17.66	17.69	17.80	19.00

N7-ANT0-Level 5&6		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/ 2502.5	507000/ 2535	513500/ 2567.5	
5	DFT-s-OFDM QPSK	1	1	22.15	22.38	22.29	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/ 2505	507000/ 2535	513000/ 2565	
10	DFT-s-OFDM QPSK	1	1	22.19	22.19	22.47	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/ 2507.5	507000/ 2535	512500/ 2562.5	
15	DFT-s-OFDM QPSK	1	1	22.26	22.28	22.23	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/ 2510	507000/ 2535	512000/ 2560	
20	DFT-s-OFDM QPSK	1	1	22.17	22.29	22.43	23.50
		1	53	21.81	22.16	22.22	23.50
		1	104	22.20	22.41	22.38	23.50
	DFT-s-OFDM QPSK	50	0	22.11	22.58	22.63	23.50
		50	28	22.01	22.47	21.80	23.50
		50	56	22.17	22.40	22.49	23.50
	DFT-s-OFDM QPSK	100	0	21.85	21.81	21.77	23.50
	DFT-s-OFDM 16QAM	1	1	21.53	21.36	21.33	23.00
	DFT-s-OFDM 64QAM	1	1	19.77	19.83	19.79	21.50
	DFT-s-OFDM 256QAM	1	1	18.53	18.48	18.49	19.50
	CP-OFDM QPSK	1	1	21.52	21.48	21.42	22.50
	CP-OFDM 16QAM	1	1	20.79	20.95	20.83	21.50
	CP-OFDM 64QAM	1	1	19.58	19.63	19.48	20.50
	CP-OFDM 256QAM	1	1	17.71	17.56	17.82	19.00

N7-ANT4 Full power		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/ 2502.5	507000/ 2535	513500/ 2567.5	
5	DFT-s-OFDM QPSK	1	1	21.46	22.73	22.18	23.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/ 2505	507000/ 2535	513000/ 2565	
10	DFT-s-OFDM QPSK	1	1	21.56	22.62	22.33	23.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/ 2507.5	507000/ 2535	512500/ 2562.5	
15	1	1	21.56	22.63	22.25	23.00	1
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/ 2510	507000/ 2535	512000/ 2560	
20	DFT-s-OFDM QPSK	1	1	21.59	22.61	22.20	23.00
		1	53	21.64	22.05	21.63	23.00
		1	104	21.59	22.20	21.53	23.00
	DFT-s-OFDM QPSK	50	0	21.64	22.53	22.15	23.00
		50	28	21.72	22.15	21.58	23.00
		50	56	21.54	22.25	21.84	23.00
	DFT-s-OFDM QPSK	100	0	21.53	21.48	21.58	22.00
	DFT-s-OFDM 16QAM	1	1	21.33	21.30	21.23	22.00
	DFT-s-OFDM 64QAM	1	1	19.42	19.40	19.25	20.50
	DFT-s-OFDM256QAM	1	1	18.52	18.60	18.54	19.50
	CP-OFDM QPSK	1	1	20.60	20.70	20.63	21.50
	CP-OFDM 16QAM	1	1	20.34	20.25	20.39	21.00
	CP-OFDM 64QAM	1	1	19.34	19.23	19.08	20.00
	CP-OFDM 256QAM	1	1	17.62	17.61	17.48	18.50

N7-ANT4 LEVEL1&2&3		Conducted Power(dBm)					Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			
				500500/ 2502.5	507000/ 2535	513500/ 2567.5	
5	DFT-s-OFDM QPSK	1	1	20.73	21.23	21.38	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501000/ 2505	507000/ 2535	513000/ 2565	
10	DFT-s-OFDM QPSK	1	1	20.77	21.14	21.49	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				501500/ 2507.5	507000/ 2535	512500/ 2562.5	
15	DFT-s-OFDM QPSK	1	1	20.72	21.24	21.50	22.00
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)			Tune-up Limit (dBm)
				502000/ 2510	507000/ 2535	512000/ 2560	
20	DFT-s-OFDM QPSK	1	1	20.86	21.15	21.56	22.00
		1	53	20.81	21.20	21.59	22.00
		1	104	20.64	21.29	21.48	22.00
	DFT-s-OFDM QPSK	50	0	20.78	21.09	21.56	22.00
		50	28	20.93	21.15	21.44	22.00
		50	56	20.83	21.24	21.78	22.00
	DFT-s-OFDM QPSK	100	0	20.85	21.05	21.64	22.00
	DFT-s-OFDM 16QAM	1	1	20.36	20.82	21.28	22.00
	DFT-s-OFDM 64QAM	1	1	19.30	19.49	19.15	20.50
	DFT-s-OFDM256QAM	1	1	18.51	18.64	18.45	19.50
	CP-OFDM QPSK	1	1	20.49	20.84	20.66	21.50
	CP-OFDM 16QAM	1	1	20.40	20.29	20.54	21.00
	CP-OFDM 64QAM	1	1	19.25	19.34	18.93	20.00
	CP-OFDM 256QAM	1	1	17.50	17.68	17.36	18.50



N41-ANT0 Full power		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/ 2506.2	509904/ 2549.52	518598/ 2592.99	527298/ 2636.49	535998/ 2679.99	
20	DFT-s-OFDM QPSK	1	1	22.75	22.81	22.78	22.73	22.89	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/ 2516.01	510900 /2554.5	518598/ 2592.99	526302/ 2631.5	534000/ 2670	
40	DFT-s-OFDM QPSK	1	1	22.65	22.69	22.83	22.77	22.88	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/ 2521.02	511404/ 2557.02	518598/ 2592.99	525798/ 2628.99	532998/ 2664.99	
50	DFT-s-OFDM QPSK	1	1	22.82	22.77	22.92	22.84	22.71	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/ 2526	511902/ 2559.51	518598/ 2595.99	525300/ 2626.5	531996/ 2649.99	
60	DFT-s-OFDM QPSK	1	1	22.91	22.69	22.84	22.74	22.82	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/ 2536.02	512904/ 2564.52	518598/ 2595.99	524298/ 2621.49	529998/ 2649.99	
80	DFT-s-OFDM QPSK	1	1	22.89	22.77	22.68	22.83	22.81	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				508200/ 2541	513402/ 213402	518598/ 2592.99	523800/ 2619	528996/ 2664.98	
90	DFT-s-OFDM QPSK	1	1	22.76	22.74	22.80	22.83	22.85	24.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/ 2546.01	513900/ 2569.5	518598/ 2592.99	523302/ 2616.51	528000/ 2640	
100	DFT-s-OFDM QPSK	1	1	22.77	22.68	22.82	22.71	22.75	24.50
		1	137	22.67	22.74	22.91	22.95	22.68	24.50
		1	271	22.86	22.87	23.02	22.93	22.99	24.50
	DFT-s-OFDM QPSK	135	0	22.80	22.80	22.96	22.74	22.74	24.50
		135	69	22.79	22.87	23.02	23.04	22.59	24.50
		135	138	22.76	22.87	22.87	22.92	23.02	24.50
	DFT-s-OFDM QPSK	270	0	21.91	21.68	21.85	21.86	21.85	23.50
	DFT-s-OFDM	1	1	20.76	20.81	20.79	20.75	20.83	23.50



	16QAM								
	DFT-s-OFDM 64QAM	1	1	20.58	20.65	20.44	20.51	20.49	22.00
	DFT-s-OFDM 256QAM	1	1	18.62	18.71	18.62	18.58	18.62	20.00
	CP-OFDM QPSK	1	1	21.47	21.39	21.55	21.46	21.56	23.00
	CP-OFDM 16QAM	1	1	20.97	20.83	20.86	20.87	20.89	22.50
	CP-OFDM 64QAM	1	1	19.87	20.02	19.67	19.82	19.71	21.00
	CP-OFDM 256QAM	1	1	18.26	18.05	17.96	18.11	18.13	19.50

N41-ANT4 Full power		Conducted Power(dBm)							Tune-up Limit (dBm)
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				501204/ 2506.2	509904/ 2549.52	518598/ 2592.99	527298/ 2636.49	535998/ 2679.99	
20	DFT-s-OFDM QPSK	1	1	22.27	22.29	22.27	22.38	22.31	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				503202/ 2516.01	510900 /2554.5	518598/ 2592.99	526302/ 2631.5	534000/ 2670	
40	DFT-s-OFDM QPSK	1	1	22.10	22.01	22.00	22.08	22.23	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				504204/ 2521.02	511404/ 2557.02	518598/ 2592.99	525798/ 2628.99	532998/ 2664.99	
50	DFT-s-OFDM QPSK	1	1	22.13	22.11	22.04	22.20	22.47	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				505200/ 2526	511902/ 2559.51	518598/ 2595.99	525300/ 2626.5	531996/ 2649.99	
60	DFT-s-OFDM QPSK	1	1	22.25	22.23	22.08	22.15	22.42	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				507204/ 2536.02	512904/ 2564.52	518598/ 2595.99	524298/ 2621.49	529998/ 2649.99	
80	DFT-s-OFDM QPSK	1	1	22.31	22.28	22.12	22.45	22.33	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit
				508200/ 2542.02	513402/ 2570.02	518598/ 2595.99	523800/ 2618.02	528996/ 2646.02	



				2541	213402	2592.99	2619	2664.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	22.07	22.13	22.00	22.19	22.46	23.50
Bandwidth(MHz)	Modulation	RB size	RB offset	Channel/Frequency(MHz)					Tune-up Limit (dBm)
				509202/ 2546.01	513900/ 2569.5	518598/ 2592.99	523302/ 2616.51	528000/ 2640	
100	DFT-s-OFDM QPSK	1	1	22.20	22.17	22.15	22.23	22.37	23.50
		1	137	22.05	22.22	22.26	22.37	22.46	23.50
		1	271	22.80	22.79	23.05	22.94	22.68	23.50
	DFT-s-OFDM QPSK	135	0	22.05	22.05	22.08	22.31	22.25	23.50
		135	69	22.14	22.20	22.27	22.36	22.57	23.50
		135	138	22.89	22.94	23.08	23.02	22.75	23.50
	DFT-s-OFDM QPSK	270	0	21.06	20.95	21.03	21.31	21.22	22.50
	DFT-s-OFDM 16QAM	1	1	21.35	21.32	21.44	21.27	21.29	22.50
	DFT-s-OFDM 64QAM	1	1	19.38	19.29	19.66	19.49	19.47	21.00
	DFT-s-OFDM 256QAM	1	1	17.62	17.57	17.51	17.58	17.65	19.00
	CP-OFDM QPSK	1	1	20.56	20.70	20.58	20.67	20.66	22.00
	CP-OFDM 16QAM	1	1	20.47	20.54	20.33	20.48	20.21	21.50
	CP-OFDM 64QAM	1	1	18.49	18.44	18.52	18.60	18.43	20.00
	CP-OFDM 256QAM	1	1	16.86	16.74	16.94	16.91	16.89	18.50

1.5 WLAN Mode

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11b (1M)	1/2412	20.00	19.20
	6/2437	20.00	18.57
	11/2462	20.00	18.83
802.11g (6M)	1/2412	16.00	15.35
	6/2437	18.50	16.60
	11/2462	16.00	15.11
802.11n-HT20 (MCS0)	1/2412	15.00	14.60
	6/2437	18.50	16.46
	11/2462	15.00	14.46
802.11ac-VHT20 (MCS0)	1/2412	15.00	14.70
	6/2437	18.50	16.50
	11/2462	16.00	15.28

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11b (1M)	1/2412	16.00	15.33
	6/2437	16.00	15.62
	11/2462	16.00	15.58
802.11g (6M)	1/2412	14.50	14.25
	6/2437	14.50	14.10
	11/2462	14.50	14.35
802.11n-HT20 (MCS0)	1/2412	14.50	14.12
	6/2437	14.50	14.07
	11/2462	14.50	14.18
802.11ac-VHT20 (MCS0)	1/2412	14.50	14.08
	6/2437	14.50	14.09
	11/2462	14.50	14.15

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11b (1M)	1/2412	10.00	9.50
	6/2437	10.00	9.46
	11/2462	10.00	9.59
802.11g (6M)	1/2412	8.50	8.30
	6/2437	9.00	8.20
	11/2462	9.00	8.27
802.11n-HT20 (MCS0)	1/2412	8.50	8.26
	6/2437	9.00	8.17
	11/2462	9.00	8.26
802.11ac-VHT20 (MCS0)	1/2412	8.50	8.28
	6/2437	9.00	8.15
	11/2462	9.00	8.22
Note: Initial test configuration is 802.11b mode.			

Wi-Fi 2.4G	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11b (1M)	1/2412	15.00	14.79
	6/2437	15.00	14.68
	11/2462	15.00	14.69
802.11g (6M)	1/2412	13.50	13.28
	6/2437	13.50	12.90
	11/2462	13.50	13.14
802.11n-HT20 (MCS0)	1/2412	13.50	13.23
	6/2437	13.50	13.02
	11/2462	13.50	13.13
802.11ac-VHT20 (MCS0)	1/2412	13.50	13.21
	6/2437	13.50	13.05
	11/2462	13.50	13.10
Note: Initial test configuration is 802.11b mode.			



Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	36/5180	19.50	18.00
	44/5220	19.50	18.28
	48/5240	19.50	18.50
802.11n-HT20 (MCS0)	36/5180	19.00	17.33
	44/5220	19.00	17.63
	48/5240	19.00	17.82
802.11n-HT40 (MCS0)	38/5190	15.00	14.36
	46/5230	19.00	18.09
802.11ac-VHT20 (MCS0)	36/5180	18.50	16.74
	44/5220	18.50	17.15
	48/5240	18.50	17.27
802.11ac-VHT40 (MCS0)	38/5190	16.00	15.30
	46/5230	18.50	17.69
802.11ac-VHT80 (MCS0)	42/5210	14.00	13.39
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	36/5180	14.50	14.20
	44/5220	14.50	13.92
	48/5240	14.50	14.14
802.11n-HT20 (MCS0)	36/5180	14.00	13.58
	44/5220	14.00	13.76
	48/5240	14.00	13.56
802.11n-HT40 (MCS0)	38/5190	14.00	13.73
	46/5230	14.00	13.58
802.11ac-VHT20 (MCS0)	36/5180	13.50	12.95
	44/5220	13.50	12.80
	48/5240	13.50	13.21
802.11ac-VHT40 (MCS0)	38/5190	13.50	13.23
	46/5230	13.50	13.09
802.11ac-VHT80 (MCS0)	42/5210	13.50	13.24
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	36/5180	10.50	9.98
	44/5220	10.50	10.04
	48/5240	10.50	10.15
802.11n-HT20 (MCS0)	36/5180	10.00	9.39
	44/5220	10.00	9.35
	48/5240	10.00	9.54
802.11n-HT40 (MCS0)	38/5190	10.00	9.49
	46/5230	10.00	9.36
802.11ac-VHT20 (MCS0)	36/5180	9.50	8.85
	44/5220	9.50	8.55
	48/5240	9.50	8.65
802.11ac-VHT40 (MCS0)	38/5190	9.50	8.98
	46/5230	9.50	8.42
802.11ac-VHT80 (MCS0)	42/5210	9.50	8.95
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-1)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	36/5180	12.50	11.97
	44/5220	12.50	12.22
	48/5240	12.50	11.88
802.11n-HT20 (MCS0)	36/5180	12.00	11.78
	44/5220	12.00	11.54
	48/5240	12.00	11.73
802.11n-HT40 (MCS0)	38/5190	12.00	11.45
	46/5230	12.00	11.70
802.11ac-VHT20 (MCS0)	36/5180	11.50	10.77
	44/5220	11.50	11.07
	48/5240	11.50	11.23
802.11ac-VHT40 (MCS0)	38/5190	11.50	10.99
	46/5230	11.50	11.27
802.11ac-VHT80 (MCS0)	42/5210	11.50	10.92
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	52/5260	19.50	18.51
	60/5300	19.50	18.91
	64/5320	19.50	19.12
802.11n-HT20 (MCS0)	52/5260	19.00	17.80
	56/5280	19.00	18.42
	64/5320	19.00	18.57
802.11n-HT40 (MCS0)	54/5270	19.00	18.61
	62/5310	15.00	14.88
802.11ac-VHT20 (MCS0)	52/5260	18.50	17.57
	56/5280	18.50	18.04
	64/5320	18.50	18.12
802.11ac-VHT40 (MCS0)	54/5270	18.50	18.08
	62/5310	16.00	15.62
802.11ac-VHT80 (MCS0)	58/5290	15.00	14.67
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	52/5260	14.50	13.71
	60/5300	14.50	14.30
	64/5320	14.50	14.13
802.11n-HT20 (MCS0)	52/5260	14.00	13.59
	56/5280	14.00	13.73
	64/5320	14.00	13.28
802.11n-HT40 (MCS0)	54/5270	14.00	13.62
	62/5310	14.00	13.78
802.11ac-VHT20 (MCS0)	52/5260	13.50	12.84
	56/5280	13.50	13.25
	64/5320	13.50	12.94
802.11ac-VHT40 (MCS0)	54/5270	13.50	13.12
	62/5310	13.50	13.02
802.11ac-VHT80 (MCS0)	58/5290	13.50	12.88
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	52/5260	10.50	10.25
	60/5300	10.50	9.86
	64/5320	10.50	9.80
802.11n-HT20 (MCS0)	52/5260	10.00	9.60
	56/5280	10.00	9.63
	64/5320	10.00	9.62
802.11n-HT40 (MCS0)	54/5270	10.00	9.31
	62/5310	10.00	9.33
802.11ac-VHT20 (MCS0)	52/5260	9.50	8.67
	56/5280	9.50	9.22
	64/5320	9.50	9.12
802.11ac-VHT40 (MCS0)	54/5270	9.50	8.67
	62/5310	9.50	8.90
802.11ac-VHT80 (MCS0)	58/5290	9.50	8.91
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	52/5260	12.50	11.96
	60/5300	12.50	11.95
	64/5320	12.50	12.06
802.11n-HT20 (MCS0)	52/5260	12.00	11.47
	56/5280	12.00	11.76
	64/5320	12.00	11.46
802.11n-HT40 (MCS0)	54/5270	12.00	11.62
	62/5310	12.00	11.47
802.11ac-VHT20 (MCS0)	52/5260	11.50	10.93
	56/5280	11.50	11.25
	64/5320	11.50	10.92
802.11ac-VHT40 (MCS0)	54/5270	11.50	11.20
	62/5310	11.50	10.70
802.11ac-VHT80 (MCS0)	58/5290	11.50	10.93
Note. Initial test configuration is 802.11a mode, since the highest maximum output power			

Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	100/5500	19.50	19.08
	116/5580	19.50	19.02
	132/5660	19.50	18.91
	140/5700	19.50	18.78
802.11n-HT20 (MCS0)	100/5500	19.00	18.52
	116/5580	19.00	18.62
	132/5660	19.00	18.34
	140/5700	19.00	18.22
802.11n-HT40 (MCS0)	102/5510	15.00	14.85
	118/5590	19.00	18.68
	126/5630	19.00	18.29
	134/5670	19.00	18.50
802.11ac-VHT20 (MCS0)	100/5500	18.50	18.41
	116/5580	18.50	18.19
	132/5660	18.50	17.94
	140/5700	18.50	17.76
802.11ac-VHT40 (MCS0)	102/5510	16.00	15.30
	118/5590	18.50	18.16
	126/5630	18.50	18.07
	134/5670	18.50	18.02
802.11ac-VHT80 (MCS0)	106/5530	15.00	14.18
	122/5610	18.50	18.01
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	100/5500	14.50	13.90
	116/5580	14.50	14.12
	132/5660	14.50	14.11
	140/5700	14.50	14.20
802.11n-HT20 (MCS0)	100/5500	14.00	13.95
	116/5580	14.00	13.37
	132/5660	14.00	13.42
	140/5700	14.00	13.60
802.11n-HT40 (MCS0)	102/5510	14.00	13.42
	118/5590	14.00	13.70
	126/5630	14.00	13.47
	134/5670	14.00	13.58
802.11ac-VHT20 (MCS0)	100/5500	13.50	12.78
	116/5580	13.50	13.03
	132/5660	13.50	13.01
	140/5700	13.50	13.11
802.11ac-VHT40 (MCS0)	102/5510	13.50	12.96
	118/5590	13.50	13.22
	126/5630	13.50	13.18
	134/5670	13.50	13.02
802.11ac-VHT80 (MCS0)	106/5530	13.50	13.06
	122/5610	13.50	13.18
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 2			
802.11a (6M)	100/5500	10.50	9.42
	116/5580	10.50	9.97
	132/5660	10.50	9.86
	140/5700	10.50	10.10
802.11n-HT20 (MCS0)	100/5500	10.00	9.26
	116/5580	10.00	9.16
	132/5660	10.00	9.17
	140/5700	10.00	9.32
802.11n-HT40 (MCS0)	102/5510	10.00	9.22
	118/5590	10.00	9.36
	126/5630	10.00	9.23
	134/5670	10.00	9.34
802.11ac-VHT20 (MCS0)	100/5500	9.50	9.15
	116/5580	9.50	9.07
	132/5660	9.50	9.03
	140/5700	9.50	9.09
802.11ac-VHT40 (MCS0)	102/5510	9.50	9.12
	118/5590	9.50	9.03
	126/5630	9.50	9.10
	134/5670	9.50	9.13
802.11ac-VHT80 (MCS0)	106/5530	9.50	9.15
	122/5610	9.50	8.87
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 4			
802.11a (6M)	100/5500	12.50	11.97
	116/5580	12.50	11.02
	132/5660	12.50	11.02
	140/5700	12.50	11.08
802.11n-HT20 (MCS0)	100/5500	12.00	11.47
	116/5580	12.00	11.44
	132/5660	12.00	11.35
	140/5700	12.00	11.36
802.11n-HT40 (MCS0)	102/5510	12.00	11.50
	118/5590	12.00	11.63
	126/5630	12.00	11.52
	134/5670	12.00	11.47
802.11ac-VHT20 (MCS0)	100/5500	11.50	10.89
	116/5580	11.50	10.92
	132/5660	11.50	10.78
	140/5700	11.50	10.89
802.11ac-VHT40 (MCS0)	102/5510	11.50	11.05
	118/5590	11.50	11.12
	126/5630	11.50	11.02
	134/5670	11.50	10.96
802.11ac-VHT80 (MCS0)	106/5530	11.50	11.16
	122/5610	11.50	11.03
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-3)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Full Power			
802.11a (6M)	149/5745	19.50	19.06
	157/5785	19.50	19.11
	165/5825	19.50	19.03
802.11n-HT20 (MCS0)	149/5745	19.00	18.47
	157/5785	19.00	18.38
	165/5825	19.00	18.28
802.11n-HT40 (MCS0)	151/5755	19.00	18.84
	159/5795	19.00	18.83
802.11ac-VHT20 (MCS0)	149/5745	18.50	17.97
	157/5785	18.50	17.92
	165/5825	18.50	17.81
802.11ac-VHT40 (MCS0)	151/5755	18.50	18.34
	159/5795	18.50	18.27
802.11ac-VHT80 (MCS0)	155/5775	18.50	18.17
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5G (U-NII-3)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Level 1			
802.11a (6M)	149/5745	14.50	14.21
	157/5785	14.50	14.02
	165/5825	14.50	14.00
802.11n-HT20 (MCS0)	149/5745	14.00	13.72
	157/5785	14.00	13.47
	165/5825	14.00	13.49
802.11n-HT40 (MCS0)	151/5755	14.00	13.57
	159/5795	14.00	13.78
802.11ac-VHT20 (MCS0)	149/5745	13.50	13.06
	157/5785	13.50	13.04
	165/5825	13.50	13.05
802.11ac-VHT40 (MCS0)	151/5755	13.50	13.10
	159/5795	13.50	13.23
802.11ac-VHT80 (MCS0)	155/5775	13.50	13.16
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



Wi-Fi 5G (U-NII-3) Level 2	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	10.50	9.86
	157/5785	10.50	9.60
	165/5825	10.50	9.54
802.11n-HT20 (MCS0)	149/5745	10.00	9.63
	157/5785	10.00	9.46
	165/5825	10.00	9.37
802.11n-HT40 (MCS0)	151/5755	10.00	9.64
	159/5795	10.00	9.39
802.11ac-VHT20 (MCS0)	149/5745	9.50	9.07
	157/5785	9.50	9.02
	165/5825	9.50	8.96
802.11ac-VHT40 (MCS0)	151/5755	9.50	8.82
	159/5795	9.50	8.83
802.11ac-VHT80 (MCS0)	155/5775	9.50	8.76

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5G (U-NII-3) Level 4 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	12.50	12.04
	157/5785	12.50	12.06
	165/5825	12.50	12.03
802.11n-HT20 (MCS0)	149/5745	12.00	11.75
	157/5785	12.00	11.44
	165/5825	12.00	11.32
802.11n-HT40 (MCS0)	151/5755	12.00	11.71
	159/5795	12.00	11.54
802.11ac-VHT20 (MCS0)	149/5745	11.50	10.63
	157/5785	11.50	10.83
	165/5825	11.50	10.89
802.11ac-VHT40 (MCS0)	151/5755	11.50	11.10
	159/5795	11.50	11.02
802.11ac-VHT80 (MCS0)	155/5775	11.50	11.03

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

1.6 Bluetooth Mode

BT	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	12.87	13.02	12.74	14.00
π/4DQPSK	10.61	10.74	10.55	12.00
8DPSK	10.78	10.95	10.70	12.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	8.60	8.37	9.71	10.00
GFSK(2M)	8.64	8.78	9.74	10.00