

Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	23.12	21.96	21.29	24.3	22.8	22.3
		1745.0	23.10	22.02	21.29	24.3	22.8	22.3
		1715.0	23.09	21.93	21.26	24.3	22.8	22.3
	1RB_24	1775.0	23.17	22.02	21.35	24.3	22.8	22.3
		1745.0	23.16	22.03	21.36	24.3	22.8	22.3
		1715.0	23.11	21.96	21.29	24.3	22.8	22.3
	1RB_0	1775.0	23.16	22.02	21.32	24.3	22.8	22.3
		1745.0	23.11	21.91	21.30	24.3	22.8	22.3
		1715.0	23.11	21.91	21.35	24.3	22.8	22.3
	25RB_25	1775.0	21.54	20.57	20.08	22.8	21.8	21.3
		1745.0	21.53	20.57	20.02	22.8	21.8	21.3
		1715.0	21.55	20.60	20.12	22.8	21.8	21.3
	25RB_12	1775.0	21.71	20.68	20.20	22.8	21.8	21.3
		1745.0	21.64	20.66	20.18	22.8	21.8	21.3
		1715.0	21.61	20.64	20.13	22.8	21.8	21.3
	25RB_0	1775.0	21.63	20.62	20.18	22.8	21.8	21.3
		1745.0	21.60	20.63	20.13	22.8	21.8	21.3
		1715.0	21.64	20.61	20.13	22.8	21.8	21.3
	50RB_0	1775.0	21.64	20.60	20.14	22.8	21.8	21.3
		1745.0	21.58	20.59	20.12	22.8	21.8	21.3
		1715.0	21.63	20.62	20.12	22.8	21.8	21.3

Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	23.09	21.77	21.22	24.3	22.8	22.3
		1745.0	23.05	21.80	21.24	24.3	22.8	22.3
		1717.5	23.06	21.81	21.22	24.3	22.8	22.3
	1RB_37	1772.5	23.21	21.85	21.29	24.3	22.8	22.3
		1745.0	23.19	21.81	21.20	24.3	22.8	22.3
		1717.5	23.14	21.88	21.31	24.3	22.8	22.3
	1RB_0	1772.5	23.18	21.81	21.33	24.3	22.8	22.3
		1745.0	23.10	21.71	21.20	24.3	22.8	22.3
		1717.5	23.12	21.82	21.28	24.3	22.8	22.3
	36RB_38	1772.5	21.54	20.61	20.11	22.8	21.8	21.3
		1745.0	21.53	20.55	20.07	22.8	21.8	21.3
		1717.5	21.58	20.58	20.12	22.8	21.8	21.3
	36RB_19	1772.5	21.65	20.63	20.20	22.8	21.8	21.3
		1745.0	21.62	20.62	20.18	22.8	21.8	21.3
		1717.5	21.61	20.62	20.21	22.8	21.8	21.3
	36RB_0	1772.5	21.57	20.60	20.16	22.8	21.8	21.3
		1745.0	21.59	20.62	20.13	22.8	21.8	21.3
		1717.5	21.63	20.68	20.17	22.8	21.8	21.3
	75RB_0	1772.5	21.63	20.57	20.09	22.8	21.8	21.3
		1745.0	21.59	20.60	20.14	22.8	21.8	21.3
		1717.5	21.63	20.61	20.11	22.8	21.8	21.3

Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	22.95	21.77	21.12	24.3	22.8	22.3
		1745.0	22.95	21.71	21.13	24.3	22.8	22.3
		1720.0	22.97	21.76	21.03	24.3	22.8	22.3
	1RB_50	1770.0	23.08	21.92	21.28	24.3	22.8	22.3
		1745.0	23.12	21.85	21.29	24.3	22.8	22.3
		1720.0	23.12	21.93	21.25	24.3	22.8	22.3
	1RB_0	1770.0	23.06	21.86	21.24	24.3	22.8	22.3
		1745.0	23.08	21.77	21.15	24.3	22.8	22.3
		1720.0	23.04	21.78	21.17	24.3	22.8	22.3
	50RB_50	1770.0	21.57	20.52	20.06	22.8	21.8	21.3
		1745.0	21.47	20.49	20.00	22.8	21.8	21.3
		1720.0	21.70	20.66	20.18	22.8	21.8	21.3
	50RB_25	1770.0	21.69	20.69	20.18	22.8	21.8	21.3
		1745.0	21.63	20.63	20.16	22.8	21.8	21.3
		1720.0	21.65	20.67	20.20	22.8	21.8	21.3
	50RB_0	1770.0	21.54	20.55	20.06	22.8	21.8	21.3
		1745.0	21.58	20.60	20.11	22.8	21.8	21.3
		1720.0	21.68	20.71	20.24	22.8	21.8	21.3
	100RB_0	1770.0	21.53	20.55	20.04	22.8	21.8	21.3
		1745.0	21.49	20.55	20.04	22.8	21.8	21.3
		1720.0	21.71	20.67	20.18	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	22.98	21.86	21.25	24.3	22.8	22.3
		1745.0	23.00	21.81	21.28	24.3	22.8	22.3
		1710.7	22.98	21.81	21.29	24.3	22.8	22.3
	1RB_3	1779.3	23.07	21.87	21.31	24.3	22.8	22.3
		1745.0	23.09	21.91	21.37	24.3	22.8	22.3
		1710.7	23.13	21.84	21.40	24.3	22.8	22.3
	1RB_0	1779.3	22.96	21.85	21.26	24.3	22.8	22.3
		1745.0	23.01	21.83	21.32	24.3	22.8	22.3
		1710.7	23.03	21.80	21.37	24.3	22.8	22.3
	3RB_3	1779.3	23.10	21.54	21.33	24.3	22.8	22.3
		1745.0	23.11	21.68	21.31	24.3	22.8	22.3
		1710.7	23.17	21.68	21.34	24.3	22.8	22.3
	3RB_1	1779.3	23.13	21.63	21.34	24.3	22.8	22.3
		1745.0	23.13	21.61	21.33	24.3	22.8	22.3
		1710.7	23.15	21.67	21.35	24.3	22.8	22.3
	3RB_0	1779.3	23.08	21.57	21.32	24.3	22.8	22.3
		1745.0	23.11	21.69	21.29	24.3	22.8	22.3
		1710.7	23.14	21.65	21.35	24.3	22.8	22.3
	6RB_0	1779.3	21.71	20.79	20.23	22.8	21.8	21.3
		1745.0	21.69	20.84	20.22	22.8	21.8	21.3
		1710.7	21.76	20.83	20.24	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	23.11	21.79	21.46	24.3	22.8	22.3
		1745.0	23.17	21.86	21.35	24.3	22.8	22.3
		1711.5	23.19	21.89	21.42	24.3	22.8	22.3
	1RB_7	1778.5	23.00	21.68	21.33	24.3	22.8	22.3
		1745.0	22.99	21.69	21.21	24.3	22.8	22.3
		1711.5	23.04	21.81	21.33	24.3	22.8	22.3
	1RB_0	1778.5	23.13	21.83	21.48	24.3	22.8	22.3
		1745.0	23.14	21.84	21.36	24.3	22.8	22.3
		1711.5	23.16	21.93	21.32	24.3	22.8	22.3
	8RB_7	1778.5	21.61	20.66	20.14	22.8	21.8	21.3
		1745.0	21.63	20.66	20.20	22.8	21.8	21.3
		1711.5	21.67	20.69	20.21	22.8	21.8	21.3
	8RB_4	1778.5	21.63	20.71	20.22	22.8	21.8	21.3
		1745.0	21.67	20.74	20.27	22.8	21.8	21.3
		1711.5	21.68	20.76	20.28	22.8	21.8	21.3
	8RB_0	1778.5	21.55	20.66	20.16	22.8	21.8	21.3
		1745.0	21.61	20.69	20.26	22.8	21.8	21.3
		1711.5	21.63	20.70	20.22	22.8	21.8	21.3
	15RB_0	1778.5	21.57	20.58	20.07	22.8	21.8	21.3
		1745.0	21.62	20.63	20.09	22.8	21.8	21.3
		1711.5	21.63	20.66	20.16	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	23.11	21.89	21.36	24.3	22.8	22.3
		1745.0	23.13	21.93	21.39	24.3	22.8	22.3
		1712.5	23.14	21.91	21.33	24.3	22.8	22.3
	1RB_12	1777.5	23.20	22.03	21.50	24.3	22.8	22.3
		1745.0	23.27	22.03	21.52	24.3	22.8	22.3
		1712.5	23.27	22.04	21.48	24.3	22.8	22.3
	1RB_0	1777.5	23.12	21.93	21.39	24.3	22.8	22.3
		1745.0	23.14	21.93	21.43	24.3	22.8	22.3
		1712.5	23.20	21.92	21.35	24.3	22.8	22.3
	12RB_13	1777.5	21.59	20.59	20.18	22.8	21.8	21.3
		1745.0	21.67	20.67	20.26	22.8	21.8	21.3
		1712.5	21.70	20.69	20.26	22.8	21.8	21.3
	12RB_6	1777.5	21.72	20.68	20.26	22.8	21.8	21.3
		1745.0	21.76	20.78	20.33	22.8	21.8	21.3
		1712.5	21.80	20.78	20.32	22.8	21.8	21.3
	12RB_0	1777.5	21.68	20.66	20.22	22.8	21.8	21.3
		1745.0	21.71	20.68	20.27	22.8	21.8	21.3
		1712.5	21.75	20.74	20.23	22.8	21.8	21.3
	25RB_0	1777.5	21.67	20.70	20.15	22.8	21.8	21.3
		1745.0	21.70	20.72	20.25	22.8	21.8	21.3
		1712.5	21.75	20.73	20.27	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	23.13	21.91	21.37	24.3	22.8	22.3
		1745.0	23.20	22.02	21.41	24.3	22.8	22.3
		1715.0	23.26	22.02	21.52	24.3	22.8	22.3
	1RB_24	1775.0	23.22	21.97	21.37	24.3	22.8	22.3
		1745.0	23.26	22.08	21.47	24.3	22.8	22.3
		1715.0	23.30	22.05	21.52	24.3	22.8	22.3
	1RB_0	1775.0	23.25	21.97	21.39	24.3	22.8	22.3
		1745.0	23.22	22.04	21.42	24.3	22.8	22.3
		1715.0	23.34	21.99	21.51	24.3	22.8	22.3
	25RB_25	1775.0	21.60	20.63	20.14	22.8	21.8	21.3
		1745.0	21.64	20.64	20.20	22.8	21.8	21.3
		1715.0	21.74	20.69	20.26	22.8	21.8	21.3
	25RB_12	1775.0	21.74	20.73	20.25	22.8	21.8	21.3
		1745.0	21.79	20.76	20.29	22.8	21.8	21.3
		1715.0	21.77	20.78	20.30	22.8	21.8	21.3
	25RB_0	1775.0	21.68	20.73	20.21	22.8	21.8	21.3
		1745.0	21.70	20.70	20.25	22.8	21.8	21.3
		1715.0	21.79	20.77	20.26	22.8	21.8	21.3
	50RB_0	1775.0	21.65	20.65	20.18	22.8	21.8	21.3
		1745.0	21.71	20.71	20.21	22.8	21.8	21.3
		1715.0	21.75	20.74	20.27	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	23.15	21.97	21.35	24.3	22.8	22.3
		1745.0	23.18	22.02	21.45	24.3	22.8	22.3
		1717.5	23.18	22.01	21.40	24.3	22.8	22.3
	1RB_37	1772.5	23.27	22.05	21.43	24.3	22.8	22.3
		1745.0	23.31	22.15	21.52	24.3	22.8	22.3
		1717.5	23.27	22.09	21.56	24.3	22.8	22.3
	1RB_0	1772.5	23.23	22.09	21.41	24.3	22.8	22.3
		1745.0	23.25	22.01	21.49	24.3	22.8	22.3
		1717.5	23.28	22.02	21.52	24.3	22.8	22.3
	36RB_38	1772.5	21.62	20.67	20.16	22.8	21.8	21.3
		1745.0	21.65	20.67	20.22	22.8	21.8	21.3
		1717.5	21.75	20.78	20.30	22.8	21.8	21.3
	36RB_19	1772.5	21.73	20.70	20.28	22.8	21.8	21.3
		1745.0	21.75	20.78	20.29	22.8	21.8	21.3
		1717.5	21.77	20.80	20.34	22.8	21.8	21.3
	36RB_0	1772.5	21.66	20.68	20.22	22.8	21.8	21.3
		1745.0	21.71	20.72	20.26	22.8	21.8	21.3
		1717.5	21.76	20.81	20.34	22.8	21.8	21.3
	75RB_0	1772.5	21.65	20.67	20.18	22.8	21.8	21.3
		1745.0	21.71	20.66	20.25	22.8	21.8	21.3
		1717.5	21.78	20.80	20.32	22.8	21.8	21.3

Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	23.05	21.82	21.19	24.3	22.8	22.3
		1745.0	23.08	21.98	21.15	24.3	22.8	22.3
		1720.0	23.08	21.97	21.30	24.3	22.8	22.3
	1RB_50	1770.0	23.22	22.00	21.38	24.3	22.8	22.3
		1745.0	23.23	22.14	21.31	24.3	22.8	22.3
		1720.0	23.28	22.11	21.44	24.3	22.8	22.3
	1RB_0	1770.0	23.18	22.04	21.31	24.3	22.8	22.3
		1745.0	23.17	22.06	21.28	24.3	22.8	22.3
		1720.0	23.17	21.96	21.33	24.3	22.8	22.3
	50RB_50	1770.0	21.67	20.65	20.16	22.8	21.8	21.3
		1745.0	21.60	20.63	20.17	22.8	21.8	21.3
		1720.0	21.83	20.81	20.33	22.8	21.8	21.3
	50RB_25	1770.0	21.74	20.77	20.29	22.8	21.8	21.3
		1745.0	21.76	20.74	20.29	22.8	21.8	21.3
		1720.0	21.80	20.82	20.35	22.8	21.8	21.3
	50RB_0	1770.0	21.61	20.65	20.19	22.8	21.8	21.3
		1745.0	21.67	20.67	20.24	22.8	21.8	21.3
		1720.0	21.81	20.84	20.35	22.8	21.8	21.3
	100RB_0	1770.0	21.61	20.63	20.19	22.8	21.8	21.3
		1745.0	21.61	20.63	20.19	22.8	21.8	21.3
		1720.0	21.80	20.79	20.31	22.8	21.8	21.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	17.24	17.55	17.50	18.3	18.3	18.3
		1745.0	17.16	17.41	17.47	18.3	18.3	18.3
		1710.7	17.13	17.42	17.42	18.3	18.3	18.3
	1RB_3	1779.3	17.30	17.59	17.57	18.3	18.3	18.3
		1745.0	17.26	17.53	17.51	18.3	18.3	18.3
		1710.7	17.24	17.48	17.49	18.3	18.3	18.3
	1RB_0	1779.3	17.25	17.56	17.49	18.3	18.3	18.3
		1745.0	17.18	17.42	17.44	18.3	18.3	18.3
		1710.7	17.17	17.40	17.49	18.3	18.3	18.3
	3RB_3	1779.3	17.35	17.36	17.59	18.3	18.3	18.3
		1745.0	17.28	17.34	17.53	18.3	18.3	18.3
		1710.7	17.28	17.25	17.54	18.3	18.3	18.3
	3RB_1	1779.3	17.36	17.39	17.66	18.3	18.3	18.3
		1745.0	17.31	17.36	17.54	18.3	18.3	18.3
		1710.7	17.26	17.29	17.52	18.3	18.3	18.3
	3RB_0	1779.3	17.35	17.37	17.62	18.3	18.3	18.3
		1745.0	17.27	17.33	17.52	18.3	18.3	18.3
		1710.7	17.27	17.25	17.51	18.3	18.3	18.3
	6RB_0	1779.3	17.46	17.57	17.47	18.3	18.3	18.3
		1745.0	17.38	17.47	17.45	18.3	18.3	18.3
		1710.7	17.38	17.43	17.41	18.3	18.3	18.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	17.34	17.69	17.57	18.3	18.3	18.3
		1745.0	17.27	17.68	17.59	18.3	18.3	18.3
		1711.5	17.27	17.64	17.54	18.3	18.3	18.3
	1RB_7	1778.5	17.17	17.48	17.40	18.3	18.3	18.3
		1745.0	17.16	17.53	17.43	18.3	18.3	18.3
		1711.5	17.14	17.48	17.39	18.3	18.3	18.3
	1RB_0	1778.5	17.31	17.64	17.57	18.3	18.3	18.3
		1745.0	17.27	17.66	17.60	18.3	18.3	18.3
		1711.5	17.25	17.53	17.58	18.3	18.3	18.3
	8RB_7	1778.5	17.27	17.35	17.39	18.3	18.3	18.3
		1745.0	17.24	17.27	17.31	18.3	18.3	18.3
		1711.5	17.22	17.27	17.24	18.3	18.3	18.3
	8RB_4	1778.5	17.38	17.41	17.44	18.3	18.3	18.3
		1745.0	17.32	17.40	17.37	18.3	18.3	18.3
		1711.5	17.30	17.33	17.38	18.3	18.3	18.3
	8RB_0	1778.5	17.30	17.37	17.39	18.3	18.3	18.3
		1745.0	17.29	17.25	17.31	18.3	18.3	18.3
		1711.5	17.22	17.26	17.22	18.3	18.3	18.3
	15RB_0	1778.5	17.33	17.31	17.32	18.3	18.3	18.3
		1745.0	17.20	17.27	17.29	18.3	18.3	18.3
		1711.5	17.25	17.27	17.25	18.3	18.3	18.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	17.32	17.67	17.47	18.3	18.3	18.3
		1745.0	17.27	17.57	17.38	18.3	18.3	18.3
		1712.5	17.19	17.55	17.42	18.3	18.3	18.3
	1RB_12	1777.5	17.50	17.77	17.61	18.3	18.3	18.3
		1745.0	17.40	17.77	17.57	18.3	18.3	18.3
		1712.5	17.34	17.56	17.51	18.3	18.3	18.3
	1RB_0	1777.5	17.38	17.57	17.51	18.3	18.3	18.3
		1745.0	17.31	17.63	17.45	18.3	18.3	18.3
		1712.5	17.25	17.57	17.42	18.3	18.3	18.3
	12RB_13	1777.5	17.33	17.36	17.39	18.3	18.3	18.3
		1745.0	17.29	17.33	17.34	18.3	18.3	18.3
		1712.5	17.28	17.30	17.34	18.3	18.3	18.3
	12RB_6	1777.5	17.44	17.46	17.47	18.3	18.3	18.3
		1745.0	17.43	17.41	17.42	18.3	18.3	18.3
		1712.5	17.37	17.38	17.41	18.3	18.3	18.3
	12RB_0	1777.5	17.43	17.43	17.45	18.3	18.3	18.3
		1745.0	17.35	17.38	17.38	18.3	18.3	18.3
		1712.5	17.28	17.32	17.34	18.3	18.3	18.3
	25RB_0	1777.5	17.40	17.39	17.45	18.3	18.3	18.3
		1745.0	17.34	17.37	17.36	18.3	18.3	18.3
		1712.5	17.32	17.32	17.34	18.3	18.3	18.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	17.42	17.72	17.64	18.3	18.3	18.3
		1745.0	17.38	17.75	17.60	18.3	18.3	18.3
		1715.0	17.43	17.72	17.52	18.3	18.3	18.3
	1RB_24	1775.0	17.44	17.76	17.63	18.3	18.3	18.3
		1745.0	17.42	17.79	17.61	18.3	18.3	18.3
		1715.0	17.38	17.71	17.51	18.3	18.3	18.3
	1RB_0	1775.0	17.46	17.77	17.68	18.3	18.3	18.3
		1745.0	17.38	17.74	17.59	18.3	18.3	18.3
		1715.0	17.37	17.65	17.37	18.3	18.3	18.3
	25RB_25	1775.0	17.33	17.35	17.38	18.3	18.3	18.3
		1745.0	17.29	17.33	17.34	18.3	18.3	18.3
		1715.0	17.29	17.36	17.37	18.3	18.3	18.3
	25RB_12	1775.0	17.48	17.48	17.51	18.3	18.3	18.3
		1745.0	17.40	17.47	17.44	18.3	18.3	18.3
		1715.0	17.38	17.39	17.41	18.3	18.3	18.3
	25RB_0	1775.0	17.42	17.45	17.44	18.3	18.3	18.3
		1745.0	17.39	17.42	17.41	18.3	18.3	18.3
		1715.0	17.32	17.34	17.37	18.3	18.3	18.3
	50RB_0	1775.0	17.41	17.39	17.37	18.3	18.3	18.3
		1745.0	17.35	17.37	17.35	18.3	18.3	18.3
		1715.0	17.36	17.34	17.37	18.3	18.3	18.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	17.39	17.55	17.51	18.3	18.3	18.3
		1745.0	17.36	17.65	17.55	18.3	18.3	18.3
		1717.5	17.35	17.65	17.56	18.3	18.3	18.3
	1RB_37	1772.5	17.47	17.62	17.54	18.3	18.3	18.3
		1745.0	17.42	17.68	17.59	18.3	18.3	18.3
		1717.5	17.38	17.68	17.64	18.3	18.3	18.3
	1RB_0	1772.5	17.45	17.59	17.54	18.3	18.3	18.3
		1745.0	17.38	17.63	17.53	18.3	18.3	18.3
		1717.5	17.35	17.50	17.53	18.3	18.3	18.3
	36RB_38	1772.5	17.36	17.38	17.36	18.3	18.3	18.3
		1745.0	17.34	17.32	17.38	18.3	18.3	18.3
		1717.5	17.35	17.39	17.44	18.3	18.3	18.3
	36RB_19	1772.5	17.49	17.47	17.51	18.3	18.3	18.3
		1745.0	17.39	17.38	17.47	18.3	18.3	18.3
		1717.5	17.39	17.40	17.45	18.3	18.3	18.3
	36RB_0	1772.5	17.40	17.41	17.40	18.3	18.3	18.3
		1745.0	17.38	17.38	17.43	18.3	18.3	18.3
		1717.5	17.37	17.41	17.39	18.3	18.3	18.3
	75RB_0	1772.5	17.41	17.36	17.38	18.3	18.3	18.3
		1745.0	17.37	17.34	17.34	18.3	18.3	18.3
		1717.5	17.38	17.37	17.35	18.3	18.3	18.3

Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	17.31	17.62	17.46	18.3	18.3	18.3
		1745.0	17.27	17.58	17.38	18.3	18.3	18.3
		1720.0	17.26	17.56	17.41	18.3	18.3	18.3
	1RB_50	1770.0	17.46	17.73	17.58	18.3	18.3	18.3
		1745.0	17.43	17.59	17.45	18.3	18.3	18.3
		1720.0	17.42	17.73	17.56	18.3	18.3	18.3
	1RB_0	1770.0	17.41	17.74	17.58	18.3	18.3	18.3
		1745.0	17.35	17.60	17.42	18.3	18.3	18.3
		1720.0	17.30	17.56	17.45	18.3	18.3	18.3
	50RB_50	1770.0	17.37	17.37	17.35	18.3	18.3	18.3
		1745.0	17.30	17.28	17.31	18.3	18.3	18.3
		1720.0	17.47	17.47	17.44	18.3	18.3	18.3
	50RB_25	1770.0	17.53	17.49	17.43	18.3	18.3	18.3
		1745.0	17.46	17.47	17.46	18.3	18.3	18.3
		1720.0	17.48	17.44	17.47	18.3	18.3	18.3
	50RB_0	1770.0	17.39	17.37	17.36	18.3	18.3	18.3
		1745.0	17.39	17.42	17.40	18.3	18.3	18.3
		1720.0	17.44	17.45	17.51	18.3	18.3	18.3
	100RB_0	1770.0	17.32	17.33	17.36	18.3	18.3	18.3
		1745.0	17.31	17.34	17.34	18.3	18.3	18.3
		1720.0	17.41	17.46	17.44	18.3	18.3	18.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	15.18	15.55	15.54	16.3	16.3	16.3
		1745.0	15.11	15.52	15.49	16.3	16.3	16.3
		1710.7	15.10	15.38	15.44	16.3	16.3	16.3
	1RB_3	1779.3	15.28	15.66	15.64	16.3	16.3	16.3
		1745.0	15.23	15.66	15.56	16.3	16.3	16.3
		1710.7	15.17	15.49	15.51	16.3	16.3	16.3
	1RB_0	1779.3	15.20	15.60	15.58	16.3	16.3	16.3
		1745.0	15.12	15.55	15.47	16.3	16.3	16.3
		1710.7	15.10	15.38	15.47	16.3	16.3	16.3
	3RB_3	1779.3	15.33	15.36	15.66	16.3	16.3	16.3
		1745.0	15.28	15.28	15.57	16.3	16.3	16.3
		1710.7	15.25	15.24	15.44	16.3	16.3	16.3
	3RB_1	1779.3	15.35	15.42	15.64	16.3	16.3	16.3
		1745.0	15.28	15.29	15.60	16.3	16.3	16.3
		1710.7	15.25	15.23	15.49	16.3	16.3	16.3
	3RB_0	1779.3	15.34	15.38	15.62	16.3	16.3	16.3
		1745.0	15.25	15.28	15.58	16.3	16.3	16.3
		1710.7	15.25	15.29	15.46	16.3	16.3	16.3
	6RB_0	1779.3	15.42	15.54	15.52	16.3	16.3	16.3
		1745.0	15.37	15.48	15.38	16.3	16.3	16.3
		1710.7	15.35	15.43	15.38	16.3	16.3	16.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	15.28	15.67	15.54	16.3	16.3	16.3
		1745.0	15.22	15.60	15.54	16.3	16.3	16.3
		1711.5	15.22	15.62	15.52	16.3	16.3	16.3
	1RB_7	1778.5	15.13	15.52	15.39	16.3	16.3	16.3
		1745.0	15.11	15.49	15.39	16.3	16.3	16.3
		1711.5	15.12	15.50	15.40	16.3	16.3	16.3
	1RB_0	1778.5	15.30	15.64	15.50	16.3	16.3	16.3
		1745.0	15.26	15.62	15.52	16.3	16.3	16.3
		1711.5	15.22	15.67	15.59	16.3	16.3	16.3
	8RB_7	1778.5	15.28	15.38	15.34	16.3	16.3	16.3
		1745.0	15.21	15.34	15.35	16.3	16.3	16.3
		1711.5	15.23	15.31	15.37	16.3	16.3	16.3
	8RB_4	1778.5	15.33	15.43	15.43	16.3	16.3	16.3
		1745.0	15.26	15.40	15.44	16.3	16.3	16.3
		1711.5	15.26	15.33	15.42	16.3	16.3	16.3
	8RB_0	1778.5	15.31	15.46	15.40	16.3	16.3	16.3
		1745.0	15.20	15.32	15.31	16.3	16.3	16.3
		1711.5	15.18	15.26	15.35	16.3	16.3	16.3
	15RB_0	1778.5	15.25	15.29	15.35	16.3	16.3	16.3
		1745.0	15.26	15.26	15.26	16.3	16.3	16.3
		1711.5	15.24	15.27	15.21	16.3	16.3	16.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	15.29	15.66	15.62	16.3	16.3	16.3
		1745.0	15.21	15.61	15.49	16.3	16.3	16.3
		1712.5	15.19	15.50	15.44	16.3	16.3	16.3
	1RB_12	1777.5	15.43	15.82	15.73	16.3	16.3	16.3
		1745.0	15.35	15.81	15.59	16.3	16.3	16.3
		1712.5	15.29	15.63	15.55	16.3	16.3	16.3
	1RB_0	1777.5	15.34	15.70	15.62	16.3	16.3	16.3
		1745.0	15.23	15.67	15.49	16.3	16.3	16.3
		1712.5	15.23	15.52	15.47	16.3	16.3	16.3
	12RB_13	1777.5	15.29	15.39	15.47	16.3	16.3	16.3
		1745.0	15.27	15.29	15.40	16.3	16.3	16.3
		1712.5	15.27	15.31	15.30	16.3	16.3	16.3
	12RB_6	1777.5	15.42	15.47	15.55	16.3	16.3	16.3
		1745.0	15.36	15.41	15.47	16.3	16.3	16.3
		1712.5	15.33	15.40	15.41	16.3	16.3	16.3
	12RB_0	1777.5	15.40	15.43	15.51	16.3	16.3	16.3
		1745.0	15.36	15.39	15.41	16.3	16.3	16.3
		1712.5	15.27	15.31	15.30	16.3	16.3	16.3
	25RB_0	1777.5	15.39	15.49	15.46	16.3	16.3	16.3
		1745.0	15.32	15.37	15.40	16.3	16.3	16.3
		1712.5	15.30	15.34	15.37	16.3	16.3	16.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	15.39	15.77	15.50	16.3	16.3	16.3
		1745.0	15.35	15.71	15.55	16.3	16.3	16.3
		1715.0	15.36	15.78	15.63	16.3	16.3	16.3
	1RB_24	1775.0	15.45	15.81	15.62	16.3	16.3	16.3
		1745.0	15.38	15.82	15.56	16.3	16.3	16.3
		1715.0	15.33	15.68	15.59	16.3	16.3	16.3
	1RB_0	1775.0	15.45	15.77	15.50	16.3	16.3	16.3
		1745.0	15.34	15.71	15.54	16.3	16.3	16.3
		1715.0	15.33	15.70	15.54	16.3	16.3	16.3
	25RB_25	1775.0	15.31	15.34	15.35	16.3	16.3	16.3
		1745.0	15.25	15.30	15.31	16.3	16.3	16.3
		1715.0	15.28	15.31	15.33	16.3	16.3	16.3
	25RB_12	1775.0	15.45	15.48	15.51	16.3	16.3	16.3
		1745.0	15.40	15.41	15.48	16.3	16.3	16.3
		1715.0	15.38	15.38	15.40	16.3	16.3	16.3
	25RB_0	1775.0	15.41	15.42	15.44	16.3	16.3	16.3
		1745.0	15.38	15.39	15.42	16.3	16.3	16.3
		1715.0	15.31	15.38	15.35	16.3	16.3	16.3
	50RB_0	1775.0	15.40	15.41	15.40	16.3	16.3	16.3
		1745.0	15.35	15.36	15.39	16.3	16.3	16.3
		1715.0	15.33	15.36	15.38	16.3	16.3	16.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	15.40	15.69	15.66	16.3	16.3	16.3
		1745.0	15.30	15.61	15.67	16.3	16.3	16.3
		1717.5	15.29	15.61	15.59	16.3	16.3	16.3
	1RB_37	1772.5	15.45	15.75	15.72	16.3	16.3	16.3
		1745.0	15.36	15.65	15.65	16.3	16.3	16.3
		1717.5	15.34	15.68	15.68	16.3	16.3	16.3
	1RB_0	1772.5	15.41	15.79	15.72	16.3	16.3	16.3
		1745.0	15.33	15.61	15.63	16.3	16.3	16.3
		1717.5	15.32	15.63	15.61	16.3	16.3	16.3
	36RB_38	1772.5	15.37	15.36	15.41	16.3	16.3	16.3
		1745.0	15.30	15.34	15.37	16.3	16.3	16.3
		1717.5	15.33	15.41	15.41	16.3	16.3	16.3
	36RB_19	1772.5	15.43	15.45	15.53	16.3	16.3	16.3
		1745.0	15.38	15.41	15.45	16.3	16.3	16.3
		1717.5	15.36	15.39	15.42	16.3	16.3	16.3
	36RB_0	1772.5	15.39	15.40	15.44	16.3	16.3	16.3
		1745.0	15.35	15.39	15.46	16.3	16.3	16.3
		1717.5	15.35	15.39	15.45	16.3	16.3	16.3
	75RB_0	1772.5	15.38	15.39	15.36	16.3	16.3	16.3
		1745.0	15.32	15.38	15.35	16.3	16.3	16.3
		1717.5	15.34	15.34	15.39	16.3	16.3	16.3

Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	15.37	15.73	15.57	16.3	16.3	16.3
		1745.0	15.25	15.69	15.53	16.3	16.3	16.3
		1720.0	15.26	15.56	15.52	16.3	16.3	16.3
	1RB_50	1770.0	15.44	15.88	15.74	16.3	16.3	16.3
		1745.0	15.41	15.73	15.53	16.3	16.3	16.3
		1720.0	15.38	15.79	15.61	16.3	16.3	16.3
	1RB_0	1770.0	15.38	15.83	15.67	16.3	16.3	16.3
		1745.0	15.35	15.65	15.57	16.3	16.3	16.3
		1720.0	15.32	15.58	15.41	16.3	16.3	16.3
	50RB_50	1770.0	15.36	15.41	15.39	16.3	16.3	16.3
		1745.0	15.24	15.30	15.27	16.3	16.3	16.3
		1720.0	15.46	15.47	15.48	16.3	16.3	16.3
	50RB_25	1770.0	15.48	15.52	15.52	16.3	16.3	16.3
		1745.0	15.44	15.43	15.45	16.3	16.3	16.3
		1720.0	15.47	15.45	15.44	16.3	16.3	16.3
	50RB_0	1770.0	15.38	15.38	15.36	16.3	16.3	16.3
		1745.0	15.34	15.37	15.38	16.3	16.3	16.3
		1720.0	15.42	15.45	15.45	16.3	16.3	16.3
	100RB_0	1770.0	15.38	15.35	15.40	16.3	16.3	16.3
		1745.0	15.30	15.32	15.36	16.3	16.3	16.3
		1720.0	15.41	15.44	15.41	16.3	16.3	16.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	21.81	22.00	21.63	22.8	22.8	22.3
		1745.0	21.76	22.03	21.55	22.8	22.8	22.3
		1710.7	21.75	21.85	21.46	22.8	22.8	22.3
	1RB_3	1779.3	21.89	22.12	21.69	22.8	22.8	22.3
		1745.0	21.82	22.13	21.62	22.8	22.8	22.3
		1710.7	21.84	21.94	21.55	22.8	22.8	22.3
	1RB_0	1779.3	21.83	22.00	21.68	22.8	22.8	22.3
		1745.0	21.76	22.03	21.55	22.8	22.8	22.3
		1710.7	21.71	21.88	21.51	22.8	22.8	22.3
	3RB_3	1779.3	21.94	21.96	21.55	22.8	22.8	22.3
		1745.0	21.93	21.90	21.61	22.8	22.8	22.3
		1710.7	21.89	21.90	21.58	22.8	22.8	22.3
	3RB_1	1779.3	21.98	21.98	21.59	22.8	22.8	22.3
		1745.0	21.89	21.96	21.63	22.8	22.8	22.3
		1710.7	21.89	21.91	21.60	22.8	22.8	22.3
	3RB_0	1779.3	21.96	21.97	21.60	22.8	22.8	22.3
		1745.0	21.89	21.88	21.61	22.8	22.8	22.3
		1710.7	21.86	21.82	21.56	22.8	22.8	22.3
	6RB_0	1779.3	22.08	21.11	20.58	22.8	21.8	21.3
		1745.0	21.98	21.09	20.54	22.8	21.8	21.3
		1710.7	21.98	21.03	20.49	22.8	21.8	21.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	21.90	22.26	21.56	22.8	22.8	22.3
		1745.0	21.88	22.26	21.58	22.8	22.8	22.3
		1711.5	21.87	22.12	21.61	22.8	22.8	22.3
	1RB_7	1778.5	21.79	22.07	21.46	22.8	22.8	22.3
		1745.0	21.75	22.10	21.46	22.8	22.8	22.3
		1711.5	21.72	21.96	21.48	22.8	22.8	22.3
	1RB_0	1778.5	21.89	22.23	21.59	22.8	22.8	22.3
		1745.0	21.89	22.16	21.59	22.8	22.8	22.3
		1711.5	21.83	22.13	21.63	22.8	22.8	22.3
	8RB_7	1778.5	21.88	20.97	20.45	22.8	21.8	21.3
		1745.0	21.87	20.90	20.43	22.8	21.8	21.3
		1711.5	21.83	20.91	20.40	22.8	21.8	21.3
	8RB_4	1778.5	22.00	21.03	20.51	22.8	21.8	21.3
		1745.0	21.91	20.97	20.52	22.8	21.8	21.3
		1711.5	21.87	20.94	20.44	22.8	21.8	21.3
	8RB_0	1778.5	21.91	20.98	20.49	22.8	21.8	21.3
		1745.0	21.87	20.94	20.46	22.8	21.8	21.3
		1711.5	21.84	20.86	20.39	22.8	21.8	21.3
	15RB_0	1778.5	21.92	20.92	20.46	22.8	21.8	21.3
		1745.0	21.85	20.89	20.35	22.8	21.8	21.3
		1711.5	21.85	20.81	20.34	22.8	21.8	21.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	21.93	22.12	21.56	22.8	22.8	22.3
		1745.0	21.86	22.13	21.56	22.8	22.8	22.3
		1712.5	21.82	21.99	21.51	22.8	22.8	22.3
	1RB_12	1777.5	22.07	22.28	21.73	22.8	22.8	22.3
		1745.0	22.02	22.18	21.70	22.8	22.8	22.3
		1712.5	21.96	22.11	21.65	22.8	22.8	22.3
	1RB_0	1777.5	21.97	22.18	21.61	22.8	22.8	22.3
		1745.0	21.93	22.02	21.57	22.8	22.8	22.3
		1712.5	21.84	22.00	21.49	22.8	22.8	22.3
	12RB_13	1777.5	21.95	20.96	20.49	22.8	21.8	21.3
		1745.0	21.94	20.92	20.48	22.8	21.8	21.3
		1712.5	21.90	20.90	20.41	22.8	21.8	21.3
	12RB_6	1777.5	22.06	21.04	20.61	22.8	21.8	21.3
		1745.0	22.00	21.02	20.56	22.8	21.8	21.3
		1712.5	21.97	20.95	20.50	22.8	21.8	21.3
	12RB_0	1777.5	22.05	21.04	20.50	22.8	21.8	21.3
		1745.0	21.97	21.00	20.51	22.8	21.8	21.3
		1712.5	21.93	20.89	20.42	22.8	21.8	21.3
	25RB_0	1777.5	22.00	21.02	20.52	22.8	21.8	21.3
		1745.0	21.95	20.96	20.51	22.8	21.8	21.3
		1712.5	21.90	20.91	20.40	22.8	21.8	21.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	22.00	22.31	21.68	22.8	22.8	22.3
		1745.0	22.03	22.31	21.59	22.8	22.8	22.3
		1715.0	21.97	22.26	21.60	22.8	22.8	22.3
	1RB_24	1775.0	22.03	22.34	21.78	22.8	22.8	22.3
		1745.0	22.00	22.30	21.62	22.8	22.8	22.3
		1715.0	21.96	22.20	21.46	22.8	22.8	22.3
	1RB_0	1775.0	22.02	22.31	21.75	22.8	22.8	22.3
		1745.0	22.02	22.22	21.60	22.8	22.8	22.3
		1715.0	21.99	22.14	21.57	22.8	22.8	22.3
	25RB_25	1775.0	21.93	20.96	20.45	22.8	21.8	21.3
		1745.0	21.91	20.93	20.44	22.8	21.8	21.3
		1715.0	21.90	20.90	20.46	22.8	21.8	21.3
	25RB_12	1775.0	22.05	21.09	20.58	22.8	21.8	21.3
		1745.0	22.01	21.01	20.57	22.8	21.8	21.3
		1715.0	21.96	20.93	20.45	22.8	21.8	21.3
	25RB_0	1775.0	22.01	21.07	20.57	22.8	21.8	21.3
		1745.0	22.03	20.99	20.52	22.8	21.8	21.3
		1715.0	21.98	20.94	20.46	22.8	21.8	21.3
	50RB_0	1775.0	22.00	21.00	20.51	22.8	21.8	21.3
		1745.0	21.96	20.99	20.46	22.8	21.8	21.3
		1715.0	21.93	20.97	20.44	22.8	21.8	21.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	21.96	22.22	21.66	22.8	22.8	22.3
		1745.0	21.97	22.21	21.68	22.8	22.8	22.3
		1717.5	21.92	22.14	21.71	22.8	22.8	22.3
	1RB_37	1772.5	22.07	22.27	21.69	22.8	22.8	22.3
		1745.0	22.03	22.22	21.70	22.8	22.8	22.3
		1717.5	21.99	22.19	21.73	22.8	22.8	22.3
	1RB_0	1772.5	22.07	22.29	21.67	22.8	22.8	22.3
		1745.0	21.99	22.15	21.65	22.8	22.8	22.3
		1717.5	21.93	22.13	21.68	22.8	22.8	22.3
	36RB_38	1772.5	21.95	20.98	20.49	22.8	21.8	21.3
		1745.0	21.92	20.95	20.50	22.8	21.8	21.3
		1717.5	21.96	20.97	20.53	22.8	21.8	21.3
	36RB_19	1772.5	22.05	21.06	20.59	22.8	21.8	21.3
		1745.0	21.99	21.03	20.56	22.8	21.8	21.3
		1717.5	21.96	20.97	20.52	22.8	21.8	21.3
	36RB_0	1772.5	22.00	21.00	20.51	22.8	21.8	21.3
		1745.0	21.99	20.96	20.53	22.8	21.8	21.3
		1717.5	21.98	20.99	20.48	22.8	21.8	21.3
	75RB_0	1772.5	22.03	20.97	20.47	22.8	21.8	21.3
		1745.0	21.99	20.94	20.47	22.8	21.8	21.3
		1717.5	21.96	20.96	20.46	22.8	21.8	21.3

Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	21.90	22.17	21.57	22.8	22.8	22.3
		1745.0	21.87	22.13	21.47	22.8	22.8	22.3
		1720.0	21.87	22.14	21.51	22.8	22.8	22.3
	1RB_50	1770.0	22.03	22.29	21.65	22.8	22.8	22.3
		1745.0	22.01	22.26	21.61	22.8	22.8	22.3
		1720.0	22.04	22.40	21.70	22.8	22.8	22.3
	1RB_0	1770.0	21.98	22.23	21.63	22.8	22.8	22.3
		1745.0	21.99	22.18	21.58	22.8	22.8	22.3
		1720.0	21.92	22.17	21.49	22.8	22.8	22.3
	50RB_50	1770.0	21.98	20.99	20.49	22.8	21.8	21.3
		1745.0	21.91	20.90	20.40	22.8	21.8	21.3
		1720.0	22.10	21.09	20.59	22.8	21.8	21.3
	50RB_25	1770.0	22.02	21.05	20.59	22.8	21.8	21.3
		1745.0	22.02	21.03	20.56	22.8	21.8	21.3
		1720.0	22.11	21.00	20.52	22.8	21.8	21.3
	50RB_0	1770.0	21.97	20.94	20.48	22.8	21.8	21.3
		1745.0	22.04	21.01	20.54	22.8	21.8	21.3
		1720.0	22.06	21.04	20.54	22.8	21.8	21.3
	100RB_0	1770.0	21.94	20.94	20.45	22.8	21.8	21.3
		1745.0	21.96	20.93	20.48	22.8	21.8	21.3
		1720.0	22.07	21.02	20.49	22.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	20.84	21.15	21.12	21.8	21.8	21.8
		1745.0	20.76	21.03	21.09	21.8	21.8	21.8
		1710.7	20.74	20.95	21.05	21.8	21.8	21.8
	1RB_3	1779.3	20.94	21.23	21.20	21.8	21.8	21.8
		1745.0	20.85	21.19	21.17	21.8	21.8	21.8
		1710.7	20.83	21.12	21.15	21.8	21.8	21.8
	1RB_0	1779.3	20.86	21.15	21.12	21.8	21.8	21.8
		1745.0	20.77	21.12	21.09	21.8	21.8	21.8
		1710.7	20.72	21.01	21.08	21.8	21.8	21.8
	3RB_3	1779.3	20.93	20.98	21.25	21.8	21.8	21.8
		1745.0	20.90	20.90	21.07	21.8	21.8	21.8
		1710.7	20.88	20.88	20.97	21.8	21.8	21.8
	3RB_1	1779.3	21.00	21.00	21.15	21.8	21.8	21.8
		1745.0	20.91	20.95	21.11	21.8	21.8	21.8
		1710.7	20.89	20.90	21.02	21.8	21.8	21.8
	3RB_0	1779.3	20.95	20.98	21.23	21.8	21.8	21.8
		1745.0	20.91	20.93	21.10	21.8	21.8	21.8
		1710.7	20.85	20.88	20.98	21.8	21.8	21.8
	6RB_0	1779.3	21.04	21.10	20.55	21.8	21.8	21.3
		1745.0	20.99	21.12	20.53	21.8	21.8	21.3
		1710.7	20.93	21.05	20.47	21.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	20.90	21.25	21.24	21.8	21.8	21.8
		1745.0	20.87	21.16	21.22	21.8	21.8	21.8
		1711.5	20.80	21.12	21.06	21.8	21.8	21.8
	1RB_7	1778.5	20.78	21.11	21.09	21.8	21.8	21.8
		1745.0	20.71	21.04	21.13	21.8	21.8	21.8
		1711.5	20.72	21.04	20.98	21.8	21.8	21.8
	1RB_0	1778.5	20.94	21.26	21.24	21.8	21.8	21.8
		1745.0	20.82	21.13	21.22	21.8	21.8	21.8
		1711.5	20.82	21.16	21.07	21.8	21.8	21.8
	8RB_7	1778.5	20.89	20.92	20.40	21.8	21.8	21.3
		1745.0	20.85	20.87	20.36	21.8	21.8	21.3
		1711.5	20.83	20.87	20.36	21.8	21.8	21.3
	8RB_4	1778.5	20.95	20.99	20.47	21.8	21.8	21.3
		1745.0	20.90	20.96	20.42	21.8	21.8	21.3
		1711.5	20.85	20.93	20.42	21.8	21.8	21.3
	8RB_0	1778.5	20.88	20.93	20.43	21.8	21.8	21.3
		1745.0	20.80	20.91	20.35	21.8	21.8	21.3
		1711.5	20.80	20.88	20.35	21.8	21.8	21.3
	15RB_0	1778.5	20.91	20.92	20.45	21.8	21.8	21.3
		1745.0	20.85	20.88	20.39	21.8	21.8	21.3
		1711.5	20.87	20.78	20.36	21.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	20.88	21.17	20.99	21.8	21.8	21.8
		1745.0	20.83	21.14	21.05	21.8	21.8	21.8
		1712.5	20.76	20.98	21.04	21.8	21.8	21.8
	1RB_12	1777.5	21.03	21.31	21.25	21.8	21.8	21.8
		1745.0	20.97	21.29	21.17	21.8	21.8	21.8
		1712.5	20.94	21.14	21.16	21.8	21.8	21.8
	1RB_0	1777.5	20.93	21.16	21.01	21.8	21.8	21.8
		1745.0	20.86	21.16	21.02	21.8	21.8	21.8
		1712.5	20.84	21.03	21.04	21.8	21.8	21.8
	12RB_13	1777.5	20.89	20.96	20.47	21.8	21.8	21.3
		1745.0	20.88	20.89	20.45	21.8	21.8	21.3
		1712.5	20.84	20.87	20.45	21.8	21.8	21.3
	12RB_6	1777.5	21.02	21.03	20.59	21.8	21.8	21.3
		1745.0	20.97	21.00	20.55	21.8	21.8	21.3
		1712.5	20.94	20.93	20.51	21.8	21.8	21.3
	12RB_0	1777.5	21.01	21.05	20.56	21.8	21.8	21.3
		1745.0	20.93	20.95	20.52	21.8	21.8	21.3
		1712.5	20.89	20.85	20.41	21.8	21.8	21.3
	25RB_0	1777.5	21.00	20.99	20.50	21.8	21.8	21.3
		1745.0	20.95	20.95	20.45	21.8	21.8	21.3
		1712.5	20.92	20.96	20.39	21.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	20.96	21.27	21.23	21.8	21.8	21.8
		1745.0	20.94	21.29	21.15	21.8	21.8	21.8
		1715.0	20.93	21.30	21.03	21.8	21.8	21.8
	1RB_24	1775.0	21.08	21.29	21.23	21.8	21.8	21.8
		1745.0	21.01	21.31	21.20	21.8	21.8	21.8
		1715.0	20.94	21.33	21.06	21.8	21.8	21.8
	1RB_0	1775.0	21.06	21.34	21.27	21.8	21.8	21.8
		1745.0	20.97	21.26	21.18	21.8	21.8	21.8
		1715.0	20.96	21.26	21.10	21.8	21.8	21.8
	25RB_25	1775.0	20.93	20.90	20.43	21.8	21.8	21.3
		1745.0	20.90	20.88	20.40	21.8	21.8	21.3
		1715.0	20.88	20.91	20.43	21.8	21.8	21.3
	25RB_12	1775.0	21.03	21.06	20.59	21.8	21.8	21.3
		1745.0	20.96	20.97	20.52	21.8	21.8	21.3
		1715.0	20.93	20.94	20.49	21.8	21.8	21.3
	25RB_0	1775.0	21.02	20.99	20.53	21.8	21.8	21.3
		1745.0	20.95	20.95	20.50	21.8	21.8	21.3
		1715.0	20.93	20.92	20.44	21.8	21.8	21.3
	50RB_0	1775.0	20.99	20.97	20.49	21.8	21.8	21.3
		1745.0	20.94	20.95	20.44	21.8	21.8	21.3
		1715.0	20.92	20.96	20.42	21.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	20.96	21.35	21.17	21.8	21.8	21.8
		1745.0	20.92	21.29	21.17	21.8	21.8	21.8
		1717.5	20.94	21.30	21.12	21.8	21.8	21.8
	1RB_37	1772.5	21.07	21.35	21.22	21.8	21.8	21.8
		1745.0	20.99	21.34	21.24	21.8	21.8	21.8
		1717.5	21.01	21.37	21.16	21.8	21.8	21.8
	1RB_0	1772.5	21.02	21.41	21.21	21.8	21.8	21.8
		1745.0	20.96	21.30	21.21	21.8	21.8	21.8
		1717.5	20.97	21.30	21.10	21.8	21.8	21.8
	36RB_38	1772.5	20.94	20.96	20.47	21.8	21.8	21.3
		1745.0	20.88	20.89	20.46	21.8	21.8	21.3
		1717.5	20.96	20.98	20.53	21.8	21.8	21.3
	36RB_19	1772.5	21.03	21.06	20.56	21.8	21.8	21.3
		1745.0	20.99	21.00	20.50	21.8	21.8	21.3
		1717.5	20.94	20.94	20.52	21.8	21.8	21.3
	36RB_0	1772.5	20.98	20.97	20.49	21.8	21.8	21.3
		1745.0	20.98	21.00	20.47	21.8	21.8	21.3
		1717.5	20.95	20.96	20.48	21.8	21.8	21.3
	75RB_0	1772.5	20.99	20.96	20.48	21.8	21.8	21.3
		1745.0	20.93	20.97	20.47	21.8	21.8	21.3
		1717.5	20.91	20.95	20.45	21.8	21.8	21.3

Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	20.90	21.05	20.98	21.8	21.8	21.8
		1745.0	20.85	21.12	21.12	21.8	21.8	21.8
		1720.0	20.80	21.12	21.05	21.8	21.8	21.8
	1RB_50	1770.0	21.07	21.27	21.10	21.8	21.8	21.8
		1745.0	20.99	21.29	21.25	21.8	21.8	21.8
		1720.0	21.08	21.28	21.29	21.8	21.8	21.8
	1RB_0	1770.0	20.99	21.25	21.07	21.8	21.8	21.8
		1745.0	20.92	21.17	21.15	21.8	21.8	21.8
		1720.0	20.89	21.16	21.06	21.8	21.8	21.8
	50RB_50	1770.0	20.93	20.93	20.44	21.8	21.8	21.3
		1745.0	20.85	20.88	20.39	21.8	21.8	21.3
		1720.0	21.03	21.02	20.57	21.8	21.8	21.3
	50RB_25	1770.0	21.08	21.04	20.59	21.8	21.8	21.3
		1745.0	21.01	21.01	20.58	21.8	21.8	21.3
		1720.0	21.09	20.97	20.53	21.8	21.8	21.3
	50RB_0	1770.0	20.93	20.94	20.45	21.8	21.8	21.3
		1745.0	20.97	20.99	20.52	21.8	21.8	21.3
		1720.0	21.00	21.01	20.53	21.8	21.8	21.3
	100RB_0	1770.0	20.93	20.91	20.43	21.8	21.8	21.3
		1745.0	20.92	20.91	20.45	21.8	21.8	21.3
		1720.0	21.00	21.00	20.51	21.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	22.51	21.80	21.20	23.8	22.8	22.3
		1745.0	22.58	21.83	21.28	23.8	22.8	22.3
		1710.7	22.52	21.80	21.25	23.8	22.8	22.3
	1RB_3	1779.3	22.62	21.96	21.28	23.8	22.8	22.3
		1745.0	22.67	21.93	21.33	23.8	22.8	22.3
		1710.7	22.65	21.88	21.37	23.8	22.8	22.3
	1RB_0	1779.3	22.57	21.86	21.22	23.8	22.8	22.3
		1745.0	22.52	21.84	21.26	23.8	22.8	22.3
		1710.7	22.56	21.81	21.31	23.8	22.8	22.3
	3RB_3	1779.3	22.68	21.61	21.29	23.8	22.8	22.3
		1745.0	22.68	21.71	21.32	23.8	22.8	22.3
		1710.7	22.68	21.59	21.31	23.8	22.8	22.3
	3RB_1	1779.3	22.70	21.68	21.32	23.8	22.8	22.3
		1745.0	22.68	21.69	21.39	23.8	22.8	22.3
		1710.7	22.71	21.63	21.35	23.8	22.8	22.3
	3RB_0	1779.3	22.67	21.68	21.32	23.8	22.8	22.3
		1745.0	22.67	21.72	21.34	23.8	22.8	22.3
		1710.7	22.70	21.59	21.33	23.8	22.8	22.3
	6RB_0	1779.3	21.74	20.86	20.26	22.8	21.8	21.3
		1745.0	21.78	20.90	20.30	22.8	21.8	21.3
		1710.7	21.80	20.85	20.32	22.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	22.60	21.81	21.48	23.8	22.8	22.3
		1745.0	22.68	21.86	21.40	23.8	22.8	22.3
		1711.5	22.64	21.82	21.31	23.8	22.8	22.3
	1RB_7	1778.5	22.51	21.65	21.24	23.8	22.8	22.3
		1745.0	22.54	21.71	21.19	23.8	22.8	22.3
		1711.5	22.52	21.72	21.17	23.8	22.8	22.3
	1RB_0	1778.5	22.61	21.84	21.33	23.8	22.8	22.3
		1745.0	22.67	21.87	21.40	23.8	22.8	22.3
		1711.5	22.64	21.88	21.36	23.8	22.8	22.3
	8RB_7	1778.5	21.60	20.64	20.11	22.8	21.8	21.3
		1745.0	21.65	20.69	20.22	22.8	21.8	21.3
		1711.5	21.61	20.71	20.23	22.8	21.8	21.3
	8RB_4	1778.5	21.65	20.76	20.19	22.8	21.8	21.3
		1745.0	21.69	20.78	20.24	22.8	21.8	21.3
		1711.5	21.68	20.72	20.26	22.8	21.8	21.3
	8RB_0	1778.5	21.63	20.73	20.13	22.8	21.8	21.3
		1745.0	21.63	20.69	20.17	22.8	21.8	21.3
		1711.5	21.64	20.69	20.22	22.8	21.8	21.3
	15RB_0	1778.5	21.58	20.62	20.13	22.8	21.8	21.3
		1745.0	21.65	20.61	20.18	22.8	21.8	21.3
		1711.5	21.65	20.66	20.13	22.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	22.63	21.87	21.36	23.8	22.8	22.3
		1745.0	22.64	21.97	21.40	23.8	22.8	22.3
		1712.5	22.62	21.89	21.33	23.8	22.8	22.3
	1RB_12	1777.5	22.74	22.01	21.48	23.8	22.8	22.3
		1745.0	22.81	22.11	21.57	23.8	22.8	22.3
		1712.5	22.78	22.03	21.43	23.8	22.8	22.3
	1RB_0	1777.5	22.64	21.91	21.35	23.8	22.8	22.3
		1745.0	22.68	21.96	21.40	23.8	22.8	22.3
		1712.5	22.65	21.84	21.21	23.8	22.8	22.3
	12RB_13	1777.5	21.61	20.61	20.20	22.8	21.8	21.3
		1745.0	21.72	20.67	20.24	22.8	21.8	21.3
		1712.5	21.69	20.71	20.24	22.8	21.8	21.3
	12RB_6	1777.5	21.74	20.71	20.29	22.8	21.8	21.3
		1745.0	21.78	20.77	20.31	22.8	21.8	21.3
		1712.5	21.76	20.76	20.35	22.8	21.8	21.3
	12RB_0	1777.5	21.72	20.69	20.23	22.8	21.8	21.3
		1745.0	21.73	20.75	20.26	22.8	21.8	21.3
		1712.5	21.71	20.70	20.20	22.8	21.8	21.3
	25RB_0	1777.5	21.72	20.71	20.20	22.8	21.8	21.3
		1745.0	21.70	20.74	20.25	22.8	21.8	21.3
		1712.5	21.76	20.69	20.23	22.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	22.69	22.05	21.28	23.8	22.8	22.3
		1745.0	22.73	22.09	21.45	23.8	22.8	22.3
		1715.0	22.72	22.06	21.47	23.8	22.8	22.3
	1RB_24	1775.0	22.74	22.08	21.32	23.8	22.8	22.3
		1745.0	22.77	22.16	21.48	23.8	22.8	22.3
		1715.0	22.73	22.06	21.43	23.8	22.8	22.3
	1RB_0	1775.0	22.76	22.06	21.35	23.8	22.8	22.3
		1745.0	22.77	22.14	21.44	23.8	22.8	22.3
		1715.0	22.75	22.01	21.41	23.8	22.8	22.3
	25RB_25	1775.0	21.63	20.63	20.16	22.8	21.8	21.3
		1745.0	21.68	20.72	20.21	22.8	21.8	21.3
		1715.0	21.71	20.75	20.26	22.8	21.8	21.3
	25RB_12	1775.0	21.72	20.78	20.30	22.8	21.8	21.3
		1745.0	21.80	20.81	20.30	22.8	21.8	21.3
		1715.0	21.75	20.75	20.31	22.8	21.8	21.3
	25RB_0	1775.0	21.72	20.73	20.21	22.8	21.8	21.3
		1745.0	21.76	20.79	20.25	22.8	21.8	21.3
		1715.0	21.74	20.75	20.26	22.8	21.8	21.3
	50RB_0	1775.0	21.67	20.67	20.20	22.8	21.8	21.3
		1745.0	21.75	20.73	20.22	22.8	21.8	21.3
		1715.0	21.75	20.75	20.22	22.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	22.67	21.99	21.29	23.8	22.8	22.3
		1745.0	22.74	22.05	21.41	23.8	22.8	22.3
		1717.5	22.72	22.03	21.44	23.8	22.8	22.3
	1RB_37	1772.5	22.77	22.05	21.39	23.8	22.8	22.3
		1745.0	22.78	22.08	21.53	23.8	22.8	22.3
		1717.5	22.77	22.08	21.55	23.8	22.8	22.3
	1RB_0	1772.5	22.76	22.01	21.45	23.8	22.8	22.3
		1745.0	22.76	22.07	21.48	23.8	22.8	22.3
		1717.5	22.72	21.95	21.50	23.8	22.8	22.3
	36RB_38	1772.5	21.68	20.65	20.18	22.8	21.8	21.3
		1745.0	21.69	20.73	20.24	22.8	21.8	21.3
		1717.5	21.76	20.79	20.27	22.8	21.8	21.3
	36RB_19	1772.5	21.76	20.74	20.30	22.8	21.8	21.3
		1745.0	21.78	20.80	20.31	22.8	21.8	21.3
		1717.5	21.77	20.77	20.38	22.8	21.8	21.3
	36RB_0	1772.5	21.73	20.71	20.22	22.8	21.8	21.3
		1745.0	21.77	20.79	20.29	22.8	21.8	21.3
		1717.5	21.74	20.76	20.28	22.8	21.8	21.3
	75RB_0	1772.5	21.73	20.72	20.18	22.8	21.8	21.3
		1745.0	21.77	20.75	20.23	22.8	21.8	21.3
		1717.5	21.78	20.76	20.27	22.8	21.8	21.3

Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	22.58	21.84	21.19	23.8	22.8	22.3
		1745.0	22.66	21.91	21.19	23.8	22.8	22.3
		1720.0	22.63	21.83	21.28	23.8	22.8	22.3
	1RB_50	1770.0	22.81	21.97	21.35	23.8	22.8	22.3
		1745.0	22.81	22.05	21.32	23.8	22.8	22.3
		1720.0	22.82	21.99	21.46	23.8	22.8	22.3
	1RB_0	1770.0	22.75	21.95	21.35	23.8	22.8	22.3
		1745.0	22.74	22.02	21.28	23.8	22.8	22.3
		1720.0	22.68	21.88	21.29	23.8	22.8	22.3
	50RB_50	1770.0	21.70	20.66	20.19	22.8	21.8	21.3
		1745.0	21.68	20.69	20.23	22.8	21.8	21.3
		1720.0	21.84	20.86	20.35	22.8	21.8	21.3
	50RB_25	1770.0	21.82	20.78	20.30	22.8	21.8	21.3
		1745.0	21.83	20.80	20.35	22.8	21.8	21.3
		1720.0	21.85	20.80	20.29	22.8	21.8	21.3
	50RB_0	1770.0	21.74	20.69	20.25	22.8	21.8	21.3
		1745.0	21.79	20.75	20.26	22.8	21.8	21.3
		1720.0	21.81	20.78	20.31	22.8	21.8	21.3
	100RB_0	1770.0	21.70	20.69	20.18	22.8	21.8	21.3
		1745.0	21.74	20.70	20.21	22.8	21.8	21.3
		1720.0	21.77	20.79	20.36	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	21.48	21.82	21.29	22.8	22.8	22.3
		1745.0	21.53	21.80	21.35	22.8	22.8	22.3
		1710.7	21.54	21.77	21.23	22.8	22.8	22.3
	1RB_3	1779.3	21.61	21.92	21.38	22.8	22.8	22.3
		1745.0	21.64	21.89	21.45	22.8	22.8	22.3
		1710.7	21.60	21.85	21.21	22.8	22.8	22.3
	1RB_0	1779.3	21.57	21.85	21.24	22.8	22.8	22.3
		1745.0	21.56	21.82	21.36	22.8	22.8	22.3
		1710.7	21.58	21.77	21.13	22.8	22.8	22.3
	3RB_3	1779.3	21.64	21.69	21.32	22.8	22.8	22.3
		1745.0	21.63	21.65	21.34	22.8	22.8	22.3
		1710.7	21.68	21.63	21.31	22.8	22.8	22.3
	3RB_1	1779.3	21.71	21.71	21.38	22.8	22.8	22.3
		1745.0	21.67	21.70	21.40	22.8	22.8	22.3
		1710.7	21.69	21.65	21.34	22.8	22.8	22.3
	3RB_0	1779.3	21.65	21.69	21.36	22.8	22.8	22.3
		1745.0	21.67	21.68	21.40	22.8	22.8	22.3
		1710.7	21.65	21.63	21.31	22.8	22.8	22.3
	6RB_0	1779.3	21.73	20.89	20.23	22.8	21.8	21.3
		1745.0	21.78	20.88	20.26	22.8	21.8	21.3
		1710.7	21.73	20.82	20.28	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	21.62	21.89	21.39	22.8	22.8	22.3
		1745.0	21.63	21.88	21.52	22.8	22.8	22.3
		1711.5	21.60	21.89	21.49	22.8	22.8	22.3
	1RB_7	1778.5	21.43	21.72	21.22	22.8	22.8	22.3
		1745.0	21.48	21.74	21.40	22.8	22.8	22.3
		1711.5	21.50	21.72	21.19	22.8	22.8	22.3
	1RB_0	1778.5	21.61	21.87	21.39	22.8	22.8	22.3
		1745.0	21.61	21.81	21.43	22.8	22.8	22.3
		1711.5	21.64	21.83	21.49	22.8	22.8	22.3
	8RB_7	1778.5	21.55	20.61	20.19	22.8	21.8	21.3
		1745.0	21.63	20.68	20.20	22.8	21.8	21.3
		1711.5	21.62	20.66	20.14	22.8	21.8	21.3
	8RB_4	1778.5	21.65	20.67	20.23	22.8	21.8	21.3
		1745.0	21.71	20.73	20.25	22.8	21.8	21.3
		1711.5	21.65	20.70	20.20	22.8	21.8	21.3
	8RB_0	1778.5	21.63	20.65	20.15	22.8	21.8	21.3
		1745.0	21.62	20.71	20.19	22.8	21.8	21.3
		1711.5	21.63	20.66	20.14	22.8	21.8	21.3
	15RB_0	1778.5	21.59	20.62	20.09	22.8	21.8	21.3
		1745.0	21.63	20.67	20.15	22.8	21.8	21.3
		1711.5	21.63	20.59	20.13	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	21.61	21.78	21.33	22.8	22.8	22.3
		1745.0	21.64	21.87	21.22	22.8	22.8	22.3
		1712.5	21.56	21.91	21.22	22.8	22.8	22.3
	1RB_12	1777.5	21.75	21.98	21.41	22.8	22.8	22.3
		1745.0	21.79	22.00	21.35	22.8	22.8	22.3
		1712.5	21.71	22.02	21.37	22.8	22.8	22.3
	1RB_0	1777.5	21.63	21.85	21.29	22.8	22.8	22.3
		1745.0	21.67	21.87	21.27	22.8	22.8	22.3
		1712.5	21.62	21.87	21.31	22.8	22.8	22.3
	12RB_13	1777.5	21.64	20.63	20.13	22.8	21.8	21.3
		1745.0	21.71	20.72	20.24	22.8	21.8	21.3
		1712.5	21.65	20.64	20.23	22.8	21.8	21.3
	12RB_6	1777.5	21.73	20.72	20.24	22.8	21.8	21.3
		1745.0	21.77	20.76	20.33	22.8	21.8	21.3
		1712.5	21.76	20.75	20.31	22.8	21.8	21.3
	12RB_0	1777.5	21.71	20.70	20.19	22.8	21.8	21.3
		1745.0	21.73	20.74	20.28	22.8	21.8	21.3
		1712.5	21.70	20.68	20.23	22.8	21.8	21.3
	25RB_0	1777.5	21.71	20.63	20.21	22.8	21.8	21.3
		1745.0	21.74	20.74	20.24	22.8	21.8	21.3
		1712.5	21.68	20.70	20.22	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	21.64	21.96	21.41	22.8	22.8	22.3
		1745.0	21.73	22.03	21.42	22.8	22.8	22.3
		1715.0	21.75	22.06	21.37	22.8	22.8	22.3
	1RB_24	1775.0	21.74	22.02	21.47	22.8	22.8	22.3
		1745.0	21.77	22.07	21.48	22.8	22.8	22.3
		1715.0	21.77	21.99	21.38	22.8	22.8	22.3
	1RB_0	1775.0	21.75	22.02	21.43	22.8	22.8	22.3
		1745.0	21.75	22.05	21.45	22.8	22.8	22.3
		1715.0	21.79	21.97	21.28	22.8	22.8	22.3
	25RB_25	1775.0	21.60	20.64	20.17	22.8	21.8	21.3
		1745.0	21.71	20.73	20.24	22.8	21.8	21.3
		1715.0	21.74	20.68	20.25	22.8	21.8	21.3
	25RB_12	1775.0	21.77	20.77	20.25	22.8	21.8	21.3
		1745.0	21.77	20.80	20.29	22.8	21.8	21.3
		1715.0	21.73	20.75	20.32	22.8	21.8	21.3
	25RB_0	1775.0	21.71	20.73	20.22	22.8	21.8	21.3
		1745.0	21.75	20.77	20.29	22.8	21.8	21.3
		1715.0	21.74	20.74	20.24	22.8	21.8	21.3
	50RB_0	1775.0	21.70	20.69	20.16	22.8	21.8	21.3
		1745.0	21.76	20.75	20.23	22.8	21.8	21.3
		1715.0	21.76	20.75	20.26	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	21.70	21.94	21.37	22.8	22.8	22.3
		1745.0	21.71	21.95	21.43	22.8	22.8	22.3
		1717.5	21.70	21.97	21.52	22.8	22.8	22.3
	1RB_37	1772.5	21.76	22.03	21.43	22.8	22.8	22.3
		1745.0	21.78	22.01	21.51	22.8	22.8	22.3
		1717.5	21.77	22.06	21.53	22.8	22.8	22.3
	1RB_0	1772.5	21.79	22.02	21.45	22.8	22.8	22.3
		1745.0	21.74	22.04	21.51	22.8	22.8	22.3
		1717.5	21.75	22.00	21.44	22.8	22.8	22.3
	36RB_38	1772.5	21.65	20.68	20.21	22.8	21.8	21.3
		1745.0	21.68	20.72	20.25	22.8	21.8	21.3
		1717.5	21.77	20.76	20.30	22.8	21.8	21.3
	36RB_19	1772.5	21.74	20.79	20.30	22.8	21.8	21.3
		1745.0	21.76	20.81	20.34	22.8	21.8	21.3
		1717.5	21.73	20.77	20.30	22.8	21.8	21.3
	36RB_0	1772.5	21.74	20.70	20.26	22.8	21.8	21.3
		1745.0	21.74	20.79	20.30	22.8	21.8	21.3
		1717.5	21.77	20.76	20.29	22.8	21.8	21.3
	75RB_0	1772.5	21.72	20.70	20.21	22.8	21.8	21.3
		1745.0	21.76	20.72	20.24	22.8	21.8	21.3
		1717.5	21.76	20.77	20.25	22.8	21.8	21.3

Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	21.60	21.87	21.19	22.8	22.8	22.3
		1745.0	21.64	21.93	21.38	22.8	22.8	22.3
		1720.0	21.65	21.93	21.39	22.8	22.8	22.3
	1RB_50	1770.0	21.77	21.98	21.40	22.8	22.8	22.3
		1745.0	21.79	22.07	21.45	22.8	22.8	22.3
		1720.0	21.81	22.14	21.59	22.8	22.8	22.3
	1RB_0	1770.0	21.71	22.01	21.36	22.8	22.8	22.3
		1745.0	21.74	22.03	21.46	22.8	22.8	22.3
		1720.0	21.69	22.00	21.45	22.8	22.8	22.3
	50RB_50	1770.0	21.68	20.67	20.19	22.8	21.8	21.3
		1745.0	21.70	20.68	20.19	22.8	21.8	21.3
		1720.0	21.82	20.83	20.34	22.8	21.8	21.3
	50RB_25	1770.0	21.81	20.81	20.31	22.8	21.8	21.3
		1745.0	21.84	20.81	20.31	22.8	21.8	21.3
		1720.0	21.85	20.82	20.32	22.8	21.8	21.3
	50RB_0	1770.0	21.69	20.73	20.20	22.8	21.8	21.3
		1745.0	21.78	20.77	20.29	22.8	21.8	21.3
		1720.0	21.78	20.77	20.30	22.8	21.8	21.3
	100RB_0	1770.0	21.70	20.69	20.19	22.8	21.8	21.3
		1745.0	21.72	20.70	20.19	22.8	21.8	21.3
		1720.0	21.80	20.82	20.32	22.8	21.8	21.3

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

a) When the maximum output for UL CA is $\leq$ standalone LTE mode (without CA)

PCC is configured according to the highest standalone SAR configuration tested

SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

b) When the Reported SAR for UL CA configuration, described above, is $>1.2\text{W/kg}$, UL CA SAR is also required for all required test channels (PCC based)

c) UL CA SAR is also required for standalone SAR configurations $>1.2\text{W/kg}$ when they are scaled to the UL CA power level.

The measurement results of downlink LTE 2CA Conducted Power are as below:

Top Antenna Full Power

Configure	CA List	PCC							SCC				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_2A-5A	Band 2	20M	1900	19100	QPSK	1	50	Band 5	10M	881.5	2525	23.06	23.11
	CA_4A-5A	Band 4	20M	1745	20300	QPSK	1	50	Band 5	10M	881.5	2525	22.98	23.04
	CA_4A-7A	Band 4	20M	1745	20300	QPSK	1	50	Band 7	20M	2655	3100	22.99	23.04
	CA_5A-7A	Band 5	10M	829	20450	QPSK	1	25	Band 7	20M	2655	3100	23.53	23.58
	CA_5A-38A	Band 5	10M	829	20450	QPSK	1	25	Band 38	20M	2595	38000	23.50	23.58
	CA_5A-41A	Band 5	10M	829	20450	QPSK	1	25	Band 41	20M	2593	40620	23.55	23.58
	CA_5A-66A	Band 5	10M	829	20450	QPSK	1	25	Band 66	20M	2155	66886	23.47	23.58
Intra-Band	CA_26A-41A	Band 26	15M	822.5	26775	QPSK	1	37	Band 41	20M	2593	40620	23.48	23.56
	CA_7B	Band 7	15M	2562.5	21375	QPSK	1	37	Band 7	5M	2631.8	2868	23.04	23.09
	CA_7C	Band 7	20M	2560	21350	QPSK	1	50	Band 7	20M	2649.8	3048	23.00	23.09
	CA_38C	Band 38	20M	2610	38150	QPSK	1	50	Band 38	20M	2629.8	38348	23.05	23.14
	CA_41C	Band 41	20M	2549.5	40185	QPSK	1	50	Band 41	20M	2569.3	40383	23.11	23.16
	CA_4A-4A	Band 4	20M	1745	20300	QPSK	1	50	Band 4	5M	2152.5	2375	23.99	23.04
	CA_7A-7A	Band 7	20M	2560	21350	QPSK	1	50	Band 7	5M	2687.5	3425	23.03	23.09
Non-Contiguous	CA_41A-41A	Band 41	20M	2549.5	40185	QPSK	1	50	Band 41	5M	2687.5	41565	23.08	23.16
	CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	50	Band 66	5M	2197.5	67311	23.05	23.12

Bottom Antenna Full Power

Configure		CA List	PCC							SCC				Power	
			LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
			Band	(MHz)	Freq. (MHz)	Chann el		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band		CA_2A-5A	Band 2	20M	1900	19100	QPSK	1	50	Band 5	10M	881.5	2525	22.96	23.01
		CA_4A-5A	Band 4	20M	1745	20300	QPSK	1	50	Band 5	10M	881.5	2525	22.91	22.95
		CA_4A-7A	Band 4	20M	1745	20300	QPSK	1	50	Band 7	20M	2655	3100	22.86	22.95
		CA_5A-7A	Band 5	10M	829	20450	QPSK	1	25	Band 7	20M	2655	3100	23.32	23.38
		CA_5A-38A	Band 5	10M	829	20450	QPSK	1	25	Band 38	20M	2595	38000	23.29	23.38
		CA_5A-41A	Band 5	10M	829	20450	QPSK	1	25	Band 41	20M	2593	40620	23.31	23.38
		CA_5A-66A	Band 5	10M	829	20450	QPSK	1	25	Band 66	20M	2155	66886	23.35	23.38
		CA_26A-41A	Band 26	15M	822.5	26775	QPSK	1	37	Band 41	20M	2593	40620	23.27	23.35
Intra-Band	Contiguous	CA_7B	Band 7	15M	2562.5	21375	QPSK	1	37	Band 7	5M	2631.8	2868	22.82	22.87
		CA_7C	Band 7	20M	2560	21350	QPSK	1	50	Band 7	20M	2649.8	3048	22.84	22.87
		CA_38C	Band 38	20M	2610	38150	QPSK	1	50	Band 38	20M	2629.8	38348	22.93	22.99
		CA_41C	Band 41	20M	2680	41490	QPSK	1	50	Band 41	20M	2699.8	41688	22.84	22.88
	Non-Contiguous	CA_4A-4A	Band 4	20M	1745	20300	QPSK	1	50	Band 4	5M	2152.5	2375	22.90	22.95
		CA_7A-7A	Band 7	20M	2560	21350	QPSK	1	50	Band 7	5M	2687.5	3425	22.81	22.87
		CA_41A-41A	Band 41	20M	2680	41490	QPSK	1	50	Band 41	5M	2687.5	41565	22.85	22.88
		CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	50	Band 66	5M	2197.5	67311	23.23	23.28

The measurement results of downlink LTE 3CA Conducted Power are as below:

Top Antenna Full Power

Configure	CA List	PCC							SCC1				SCC2				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	CA_41D	Band 41	20M	2459.5	40185	QPSK	1	50	Band 41	20M	2479.3	40383	Band 41	20M	2499.1	40581	23.08	23.16

Bottom Antenna Full Power

Configure	CA List	PCC							SCC1				SCC2				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	CA_41D	Band 41	20M	2680	41490	QPSK	1	50	Band 41	20M	2699.8	41688	Band 41	20M	2719.6	41886	22.82	22.88

The measurement results of uplink LTE CA Conducted Power are as below:

Top Antenna - Head

Configure		CA List	PCC						SCC						Power	
			LTE	BW	UL	Mod.	UL#	UL	LTE	BW	UL	Mod.	UL#	UL	With CA	Without CA
			Band	(MHz)	Freq.		RB	Offset	Band	(MHz)	Freq.		RB	Offset	Tx. Power (dBm)	Tx. Power (dBm)
					(MHz)						(MHz)					
Intra-Band	Contiguous	CA_7C	Band 7	20M	2560	QPSK	50	25	Band 7	20M	2540.2	QPSK	50	25	16.32	16.39
		CA_38C	Band 38	20M	2595	QPSK	1	50	Band 38	20M	2575.2	QPSK	1	50	19.75	19.81
		CA_41C	Band 41	20M	2680	QPSK	1	50	Band 40	20M	2660.2	QPSK	1	50	19.31	19.39

Top Antenna – Body

Configure		CA List	PCC						SCC						Power	
			LTE	BW	UL	Mod.	UL#	UL	LTE	BW	UL	Mod.	UL#	UL	With CA	Without CA
			Band	(MHz)	Freq.		RB	Offset	Band	(MHz)	Freq.		RB	Offset	Tx. Power (dBm)	Tx. Power (dBm)
					(MHz)						(MHz)					
Intra-Band	Contiguous	CA_7C	Band 7	20M	2560	QPSK	50	25	Band 7	20M	2540.2	QPSK	50	25	20.94	20.98
		CA_38C	Band 38	20M	2610	QPSK	1	50	Band 38	20M	2590.2	QPSK	1	50	23.05	23.14
		CA_41C	Band 41	20M	2549.5	QPSK	1	50	Band 40	20M	2529.7	QPSK	1	50	23.10	23.16

Bottom Antenna – Head / Body

Configure		CA List	PCC						SCC						Power	
			LTE	BW	UL	Mod.	UL#	UL	LTE	BW	UL	Mod.	UL#	UL	With CA	Without CA
			Band	(MHz)	Freq.		RB	Offset	Band	(MHz)	Freq.		RB	Offset	Tx. Power (dBm)	Tx. Power (dBm)
					(MHz)						(MHz)					
Intra-Band	Contiguous	CA_7C	Band 7	20M	2560	QPSK	1	50	Band 7	20M	2540.2	QPSK	1	50	22.82	22.87
		CA_38C	Band 38	20M	2610	QPSK	1	50	Band 38	20M	2590.2	QPSK	1	50	22.95	22.99
		CA_41C	Band 41	20M	2680	QPSK	1	50	Band 40	20M	2660.2	QPSK	1	50	22.84	22.88

10.4. WLAN and Bluetooth Measurement result

Table 10.13: The conducted Power measurement results for Bluetooth

Bluetooth	Tune up	Averaged Power (dBm)		
Mode		Ch.0 (2402 MHz)	Ch39 (2441 MHz)	Ch78 (2480 MHz)
GFSK	13.0	11.24	11.33	10.70
EDR2M-4_DQPSK	13.0	10.42	10.52	10.00
EDR3M-8DPSK	13.0	10.43	10.53	10.00
/	/	Ch0 (2402MHz)	Ch19 (440MHz)	Ch39 (2480MHz)
BLE	9.0	5.77	6.66	5.43

Table 10.14: The conducted Power measurement results for WLAN 2.4G

Full Power			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	14.0	Ch.1 (2412 MHz)	12.15
	20.0	Ch.2 (2417Mhz)	18.36
	20.0	Ch.6 (2437Mhz)	18.48
	20.0	Ch.10 (2457MHz)	18.43
	14.5	Ch.11 (2462MHz)	12.45
802.11g	19.0	Ch.1 (2412 MHz)	16.92
	19.0	Ch.6 (2437Mhz)	17.36
	19.0	Ch.11 (2462MHz)	16.54
802.11n(20MHz)	19.0	Ch.1 (2412 MHz)	16.89
	19.0	Ch.6 (2437Mhz)	17.23
	19.0	Ch.11 (2462MHz)	16.51

Reduced power level 7			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	14.0	Ch.1 (2412 MHz)	12.15
	17.0	Ch.2 (2417Mhz)	15.39
	17.0	Ch.6 (2437Mhz)	15.56
	17.0	Ch.10 (2457MHz)	15.48
	14.5	Ch.11 (2462MHz)	12.45
802.11g	16.0	Ch.1 (2412 MHz)	13.94
	16.0	Ch.6 (2437Mhz)	14.40
	16.0	Ch.11 (2462MHz)	13.58
802.11n(20MHz)	16.0	Ch.1 (2412 MHz)	13.92
	16.0	Ch.6 (2437Mhz)	14.28
	16.0	Ch.11 (2462MHz)	13.55
Reduced power level 8			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	14.0	Ch.1 (2412 MHz)	12.15
	16.0	Ch.2 (2417Mhz)	14.43
	16.0	Ch.6 (2437Mhz)	14.59
	16.0	Ch.10 (2457MHz)	14.52
	14.5	Ch.11 (2462MHz)	12.45
802.11g	15.0	Ch.1 (2412 MHz)	13.02
	15.0	Ch.6 (2437Mhz)	13.45
	15.0	Ch.11 (2462MHz)	12.64
802.11n(20MHz)	15.0	Ch.1 (2412 MHz)	13.00
	15.0	Ch.6 (2437Mhz)	13.35
	15.0	Ch.11 (2462MHz)	12.61

Full Power								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	18.0	18.0	18.0	/	18.0	18.0	/	18.0
36(5180MHz)	/	16.37	16.41	38(5190MHz)	16.17	16.13	42(5210MHz)	16.21
40(5200MHz)	16.51	16.43	16.44	46(5230MHz)	16.18	16.08	/	/
44(5220MHz)	16.49	16.41	16.45	/	/	/	/	/
48(5240MHz)	16.55	16.48	16.47	/	/	/	/	/
<U-NII-2A>								
Tune up	18.0	18.0	18.0	/	18.0	18.0	/	18.0
52(5260MHz)	16.51	16.46	16.46	54(5270MHz)	16.12	16.06	58(5290MHz)	16.15
56(5280MHz)	16.56	16.48	16.47	62(5310MHz)	16.15	16.10	/	/
60(5300MHz)	16.53	16.42	16.45	/	/	/	/	/
64(5320MHz)	16.49	16.37	16.38	/	/	/	/	/
<U-NII-2C>								
Tune up	18.0	18.0	18.0	/	18.0	18.0	/	18.0
100(5500MHz)	16.42	16.30	16.28	102(5510MHz)	16.25	16.15	106(5530MHz)	16.09
116(5580MHz)	16.50	16.26	16.26	110(5550MHz)	16.24	16.10	122(5610MHz)	16.12
124(5620MHz)	16.49	16.28	16.34	126(5630MHz)	16.27	16.16	138(5690MHz)	16.14
132(5660MHz)	16.38	16.29	16.32	134(5670MHz)	16.26	16.13	/	/
140(5700MHz)	/	16.33	16.35	142(5710MHz)	16.35	16.18	/	/
144(5720MHz)	/	16.28	16.30	/	/	/	/	/
<U-NII-3>								
Tune up	17.0	17.0	17.0	/	17.0	17.0	/	17.0
149(5745MHz)	15.31	15.21	15.18	151(5755MHz)	15.28	15.10	155(5775MHz)	15.06
157(5785MHz)	15.25	15.22	15.21	159(5795MHz)	15.22	15.07	/	/
165(5825MHz)	15.23	15.19	15.20	/	/	/	/	/

Mode	802.11a	Tune up
36(5180MHz)	15.45	17.0
140(5700MHz)	13.25	15.0
144(5720MHz)	13.22	15.0

Reduced power level 7								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	13.0	13.0	13.0	/	12.0	12.0	/	12.0
36(5180MHz)	11.58	11.42	11.46	38(5190MHz)	10.22	10.13	42(5210MHz)	10.25
40(5200MHz)	11.56	11.45	11.44	46(5230MHz)	10.18	10.10	/	/
44(5220MHz)	11.50	11.41	11.45	/	/	/	/	/
48(5240MHz)	11.55	11.48	11.48	/	/	/	/	/
<U-NII-2A>								
Tune up	13.0	13.0	13.0	/	12.0	12.0	/	12.0
52(5260MHz)	11.81	11.48	11.46	54(5270MHz)	10.12	10.12	58(5290MHz)	10.18
56(5280MHz)	11.84	11.48	11.47	62(5310MHz)	10.19	10.14	/	/
60(5300MHz)	11.65	11.44	11.45	/	/	/	/	/
64(5320MHz)	11.53	11.37	11.39	/	/	/	/	/
<U-NII-2C>								
Tune up	14.0	14.0	14.0	/	13.0	13.0	/	13.0
100(5500MHz)	12.66	12.32	12.28	102(5510MHz)	11.25	11.15	106(5530MHz)	11.11
116(5580MHz)	12.55	12.29	12.26	110(5550MHz)	11.25	11.14	122(5610MHz)	11.18
124(5620MHz)	12.74	12.28	12.34	126(5630MHz)	11.27	11.16	138(5690MHz)	11.14
132(5660MHz)	12.80	12.31	12.32	134(5670MHz)	11.26	11.13	/	/
140(5700MHz)	12.82	12.33	12.35	142(5710MHz)	11.35	11.18	/	/
144(5720MHz)	12.62	12.28	12.35	/	/	/	/	/
<U-NII-3>								
Tune up	14.0	14.0	14.0	/	13.0	13.0	/	13.0
149(5745MHz)	12.66	12.21	12.18	151(5755MHz)	11.28	11.14	155(5775MHz)	11.09
157(5785MHz)	12.68	12.29	12.21	159(5795MHz)	11.27	11.14	/	/
165(5825MHz)	12.44	12.19	12.20	/	/	/	/	/

Reduced power level 8								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	12.0	12.0	12.0	/	11.0	11.0	/	11.0
36(5180MHz)	10.58	10.42	10.41	38(5190MHz)	9.23	9.19	42(5210MHz)	9.26
40(5200MHz)	10.60	10.43	10.48	46(5230MHz)	9.20	9.11	/	/
44(5220MHz)	10.52	10.44	10.45	/	/	/	/	/
48(5240MHz)	10.55	10.48	10.49	/	/	/	/	/
<U-NII-2A>								
Tune up	12.0	12.0	12.0	/	11.0	11.0	/	11.0
52(5260MHz)	10.81	10.48	10.48	54(5270MHz)	9.16	9.12	58(5290MHz)	9.22
56(5280MHz)	10.86	10.48	10.47	62(5310MHz)	9.19	9.16	/	/
60(5300MHz)	10.65	10.45	10.45	/	/	/	/	/
64(5320MHz)	10.53	10.40	10.38	/	/	/	/	/
<U-NII-2C>								
Tune up	13.0	13.0	13.0	/	12.0	12.0	/	12.0
100(5500MHz)	11.66	11.40	11.28	102(5510MHz)	10.25	10.19	106(5530MHz)	10.11
116(5580MHz)	11.55	11.29	11.26	110(5550MHz)	10.28	10.14	122(5610MHz)	10.12
124(5620MHz)	11.74	11.33	11.34	126(5630MHz)	10.27	10.16	138(5690MHz)	10.17
132(5660MHz)	11.80	11.41	11.32	134(5670MHz)	10.29	10.18	/	/
140(5700MHz)	11.87	11.33	11.35	142(5710MHz)	10.35	10.18	/	/
144(5720MHz)	11.62	11.28	11.30	/	/	/	/	/
<U-NII-3>								
Tune up	13.0	13.0	13.0	/	12.0	12.0	/	12.0
149(5745MHz)	11.66	11.30	11.18	151(5755MHz)	10.33	10.10	155(5775MHz)	10.08
157(5785MHz)	11.67	11.25	11.21	159(5795MHz)	10.30	10.09	/	/
165(5825MHz)	11.44	11.19	11.25	/	/	/	/	/

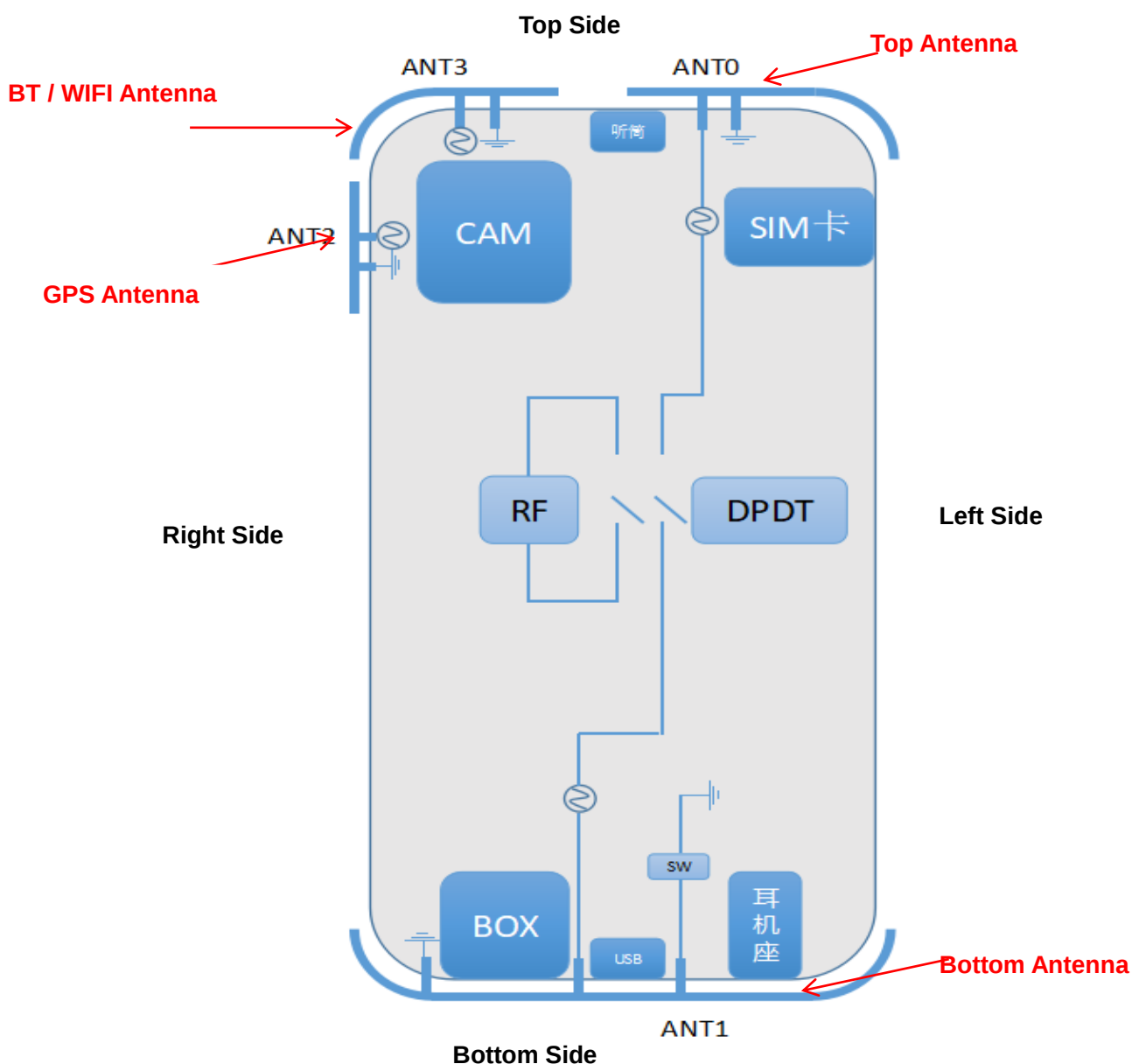
Reduced power level 9								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	15.0	15.0	15.0	/	14.0	14.0	/	14.0
36(5180MHz)	13.53	13.41	13.45	38(5190MHz)	12.22	12.16	42(5210MHz)	12.21
40(5200MHz)	13.59	13.43	13.44	46(5230MHz)	12.18	12.10	/	/
44(5220MHz)	13.50	13.45	13.45	/	/	/	/	/
48(5240MHz)	13.55	13.48	13.47	/	/	/	/	/
<U-NII-2A>								
Tune up	15.0	15.0	15.0	/	14.0	14.0	/	14.0
52(5260MHz)	13.81	13.49	13.49	54(5270MHz)	12.18	12.11	58(5290MHz)	12.18
56(5280MHz)	13.83	13.48	13.47	62(5310MHz)	12.15	12.20	/	/
60(5300MHz)	13.65	13.44	13.45	/	/	/	/	/
64(5320MHz)	13.53	13.37	13.38	/	/	/	/	/
<U-NII-2C>								
Tune up	15.0	15.0	15.0	/	14.0	14.0	/	14.0
100(5500MHz)	13.66	13.35	13.24	102(5510MHz)	12.29	12.18	106(5530MHz)	12.13
116(5580MHz)	13.55	13.29	13.28	110(5550MHz)	12.24	12.12	122(5610MHz)	12.12
124(5620MHz)	13.74	13.28	13.34	126(5630MHz)	12.27	12.16	138(5690MHz)	12.19
132(5660MHz)	13.83	13.33	13.32	134(5670MHz)	12.31	12.15	/	/
140(5700MHz)	13.25	13.33	13.35	142(5710MHz)	12.35	12.18	/	/
144(5720MHz)	13.22	13.28	13.30	/	/	/	/	/
<U-NII-3>								
Tune up	15.0	15.0	15.0	/	14.0	14.0	/	14.0
149(5745MHz)	13.62	13.27	13.18	151(5755MHz)	12.28	12.10	155(5775MHz)	12.14
157(5785MHz)	13.66	13.24	13.25	159(5795MHz)	12.27	12.11	/	/
165(5825MHz)	13.41	13.18	13.20	/	/	/	/	/

11. Simultaneous TX SAR Considerations

11.1. Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the Bluetooth and WLAN can transmit simultaneous with other transmitters.

11.2. Transmit Antenna Separation Distances



Picture 11.1 Antenna Locations (Back View)

11.3. SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Top antenna	Yes	Yes	Yes	Yes	Yes	No
Bottom antenna	Yes	Yes	Yes	Yes	No	Yes
WLAN antenna	Yes	Yes	Yes	Yes	Yes	No

11.4. Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Table 12.1: Standalone SAR test exclusion considerations

Band/Mode	f(GHz)	Position	SAR test exclusion threshold (mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.44	Head	9.60	13.0	19.95	No
		Body	19.20	13.0	19.95	No
WLAN 2.4G	2.45	Head	9.58	20.0	100.00	No
		Body	19.17	20.0	100.00	No
WLAN 5G	5.20	Head	6.58	18.0	63.10	No
		Body	13.16	18.0	63.10	No
	5.30	Head	6.52	18.0	63.10	No
		Body	13.03	18.0	63.10	No
	5.60	Head	6.34	18.0	63.10	No
		Body	12.68	18.0	63.10	No
	5.80	Head	6.23	18.0	63.10	No
		Body	12.46	18.0	63.10	No

12. Evaluation of Simultaneous

Table 12.1: The sum of reported SAR values for WWAN antenna and WLAN

<i>I</i>	Position	WWAN	WLAN	Sum
Highest reported SAR value for Head	Right Tilt	0.85	0.54	1.39
Highest reported SAR value for Hotspot	Rear	0.79	0.49	1.28
Highest reported SAR value for Body-worn	Rear	0.38	0.16	0.54

Note: the test positions of above tables are for the worse case that has been evaluated.

Table 12.2: The sum of reported SAR values for WWAN antenna and Bluetooth

<i>I</i>	Position	WWAN	Bluetooth	Sum
Highest reported SAR value for Head	Right Tilt	0.85	0.07	0.92
Highest reported SAR value for Hotspot	Bottom	1.06	/	1.06
Highest reported SAR value for Body-worn	Rear	0.38	0.05	0.43

Note: the test positions of above tables are for the worse case that has been evaluated.

Conclusion:

According to the above tables, the sum of reported SAR values is $< 1.6\text{W/kg}$. So the simultaneous transmission SAR with volume scans is not required.