

LTE Band 5			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	844.0MHz	23.78	23.06	21.87	25.0	24.0	23.0
		836.5MHz	23.79	23.08	21.98	25.0	24.0	23.0
		829.0MHz	23.81	23.04	22.03	25.0	24.0	23.0
	1RB_24	844.0MHz	23.85	23.23	22.01	25.0	24.0	23.0
		836.5MHz	23.85	23.07	21.97	25.0	24.0	23.0
		829.0MHz	23.93	23.23	22.17	25.0	24.0	23.0
	1RB_0	844.0MHz	23.69	22.98	21.82	25.0	24.0	23.0
		836.5MHz	23.74	23.01	21.97	25.0	24.0	23.0
		829.0MHz	23.77	23.07	21.97	25.0	24.0	23.0
	25RB_25	844.0MHz	22.86	21.87	20.87	24.0	23.0	22.0
		836.5MHz	22.90	21.91	20.90	24.0	23.0	22.0
		829.0MHz	22.91	21.96	20.93	24.0	23.0	22.0
	25RB_12	844.0MHz	22.84	21.93	20.89	24.0	23.0	22.0
		836.5MHz	22.88	21.90	20.89	24.0	23.0	22.0
		829.0MHz	22.93	21.94	20.97	24.0	23.0	22.0
	25RB_0	844.0MHz	22.85	21.91	20.88	24.0	23.0	22.0
		836.5MHz	22.92	21.93	20.90	24.0	23.0	22.0
		829.0MHz	22.91	21.95	20.92	24.0	23.0	22.0
	50RB_0	844.0MHz	22.86	21.88	20.83	24.0	23.0	22.0
		836.5MHz	22.90	21.89	20.92	24.0	23.0	22.0
		829.0MHz	22.92	21.98	20.93	24.0	23.0	22.0

Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.4MHz	22.97	22.18	20.64	24.5	23.5	22.5
		2535.0MHz	22.94	22.20	20.81	24.5	23.5	22.5
		2502.5MHz	22.95	22.11	20.77	24.5	23.5	22.5
	1RB_12	2567.4MHz	23.11	22.46	21.01	24.5	23.5	22.5
		2535.0MHz	23.18	22.42	20.96	24.5	23.5	22.5
		2502.5MHz	23.24	22.32	21.04	24.5	23.5	22.5
	1RB_0	2567.4MHz	22.93	22.14	20.68	24.5	23.5	22.5
		2535.0MHz	22.90	22.17	20.77	24.5	23.5	22.5
		2502.5MHz	22.92	22.05	20.82	24.5	23.5	22.5
	12RB_13	2567.4MHz	22.02	21.04	19.76	23.5	22.5	21.5
		2535.0MHz	22.08	21.11	19.83	23.5	22.5	21.5
		2502.5MHz	22.09	21.03	19.81	23.5	22.5	21.5
	12RB_6	2567.4MHz	22.10	21.11	19.86	23.5	22.5	21.5
		2535.0MHz	22.13	21.11	19.84	23.5	22.5	21.5
		2502.5MHz	22.20	21.09	19.96	23.5	22.5	21.5
	12RB_0	2567.4MHz	22.05	21.04	19.73	23.5	22.5	21.5
		2535.0MHz	22.07	21.05	19.78	23.5	22.5	21.5
		2502.5MHz	22.08	21.03	19.84	23.5	22.5	21.5
	25RB_0	2567.4MHz	22.09	21.07	19.74	23.5	22.5	21.5
		2535.0MHz	22.14	21.08	19.76	23.5	22.5	21.5
		2502.5MHz	22.13	21.07	19.83	23.5	22.5	21.5

Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0MHz	23.01	22.35	20.81	24.5	23.5	22.5
		2535.0MHz	23.05	22.33	20.92	24.5	23.5	22.5
		2505.0MHz	23.09	22.28	20.92	24.5	23.5	22.5
	1RB_24	2565.0MHz	23.18	22.39	21.01	24.5	23.5	22.5
		2535.0MHz	23.16	22.26	21.07	24.5	23.5	22.5
		2505.0MHz	23.16	22.30	20.99	24.5	23.5	22.5
	1RB_0	2565.0MHz	22.97	22.26	20.82	24.5	23.5	22.5
		2535.0MHz	22.98	22.23	21.04	24.5	23.5	22.5
		2505.0MHz	23.02	22.19	20.93	24.5	23.5	22.5
	25RB_25	2565.0MHz	22.12	21.13	19.80	23.5	22.5	21.5
		2535.0MHz	22.24	21.15	19.86	23.5	22.5	21.5
		2505.0MHz	22.21	21.15	19.87	23.5	22.5	21.5
	25RB_12	2565.0MHz	22.20	21.15	19.85	23.5	22.5	21.5
		2535.0MHz	22.18	21.16	19.82	23.5	22.5	21.5
		2505.0MHz	22.18	21.09	19.85	23.5	22.5	21.5
	25RB_0	2565.0MHz	22.19	21.16	19.82	23.5	22.5	21.5
		2535.0MHz	22.19	21.14	19.85	23.5	22.5	21.5
		2505.0MHz	22.20	21.11	19.78	23.5	22.5	21.5
	50RB_0	2565.0MHz	22.17	21.16	19.82	23.5	22.5	21.5
		2535.0MHz	22.20	21.16	19.83	23.5	22.5	21.5
		2505.0MHz	22.16	21.14	19.84	23.5	22.5	21.5

Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5MHz	23.00	22.24	20.88	24.5	23.5	22.5
		2535.0MHz	23.00	22.24	20.90	24.5	23.5	22.5
		2507.5MHz	23.00	22.37	20.89	24.5	23.5	22.5
	1RB_37	2562.5MHz	23.07	22.28	21.02	24.5	23.5	22.5
		2535.0MHz	23.03	22.26	20.99	24.5	23.5	22.5
		2507.5MHz	23.05	22.36	20.80	24.5	23.5	22.5
	1RB_0	2562.5MHz	22.90	22.22	20.78	24.5	23.5	22.5
		2535.0MHz	22.90	22.23	20.83	24.5	23.5	22.5
		2507.5MHz	22.95	22.13	20.75	24.5	23.5	22.5
	36RB_38	2562.5MHz	22.10	21.09	19.79	23.5	22.5	21.5
		2535.0MHz	22.18	21.14	19.81	23.5	22.5	21.5
		2507.5MHz	22.16	21.10	19.87	23.5	22.5	21.5
	36RB_19	2562.5MHz	22.14	21.12	19.81	23.5	22.5	21.5
		2535.0MHz	22.17	21.16	19.87	23.5	22.5	21.5
		2507.5MHz	22.21	21.15	19.89	23.5	22.5	21.5
	36RB_0	2562.5MHz	22.10	21.08	19.74	23.5	22.5	21.5
		2535.0MHz	22.11	21.09	19.83	23.5	22.5	21.5
		2507.5MHz	22.12	21.08	19.85	23.5	22.5	21.5
	75RB_0	2562.5MHz	22.13	21.10	19.79	23.5	22.5	21.5
		2535.0MHz	22.15	21.09	19.77	23.5	22.5	21.5
		2507.5MHz	22.17	21.11	19.84	23.5	22.5	21.5

Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0MHz	22.88	22.09	20.72	24.5	23.5	22.5
		2535.0MHz	22.81	22.04	20.52	24.5	23.5	22.5
		2510.0MHz	22.82	22.09	20.68	24.5	23.5	22.5
	1RB_50	2560.0MHz	23.17	22.27	20.94	24.5	23.5	22.5
		2535.0MHz	23.11	22.41	20.88	24.5	23.5	22.5
		2510.0MHz	23.17	22.39	20.87	24.5	23.5	22.5
	1RB_0	2560.0MHz	22.74	21.94	20.55	24.5	23.5	22.5
		2535.0MHz	22.69	22.03	20.59	24.5	23.5	22.5
		2510.0MHz	22.74	21.92	20.53	24.5	23.5	22.5
	50RB_50	2560.0MHz	22.11	21.09	19.71	23.5	22.5	21.5
		2535.0MHz	22.20	21.16	19.84	23.5	22.5	21.5
		2510.0MHz	22.23	21.14	19.86	23.5	22.5	21.5
	50RB_25	2560.0MHz	22.22	21.18	19.76	23.5	22.5	21.5
		2535.0MHz	22.21	21.17	19.86	23.5	22.5	21.5
		2510.0MHz	22.23	21.18	19.88	23.5	22.5	21.5
	50RB_0	2560.0MHz	22.16	21.09	19.72	23.5	22.5	21.5
		2535.0MHz	22.12	21.07	19.72	23.5	22.5	21.5
		2510.0MHz	22.16	21.02	19.77	23.5	22.5	21.5
	100RB_0	2560.0MHz	22.07	21.06	19.74	23.5	22.5	21.5
		2535.0MHz	22.10	21.11	19.79	23.5	22.5	21.5
		2510.0MHz	22.16	21.12	19.81	23.5	22.5	21.5

Sensor on								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.4MHz	18.99	17.83	17.33	20.5	19.5	18.5
		2535.0MHz	18.54	17.70	17.41	20.5	19.5	18.5
		2502.5MHz	18.59	17.78	17.30	20.5	19.5	18.5
	1RB_12	2567.4MHz	19.23	18.13	17.63	20.5	19.5	18.5
		2535.0MHz	18.70	18.00	17.65	20.5	19.5	18.5
		2502.5MHz	18.73	18.03	17.61	20.5	19.5	18.5
	1RB_0	2567.4MHz	18.95	17.80	17.33	20.5	19.5	18.5
		2535.0MHz	18.51	17.72	17.32	20.5	19.5	18.5
		2502.5MHz	18.58	17.78	17.34	20.5	19.5	18.5
	12RB_13	2567.4MHz	18.05	16.66	16.26	19.5	18.5	17.5
		2535.0MHz	17.59	16.57	16.12	19.5	18.5	17.5
		2502.5MHz	17.58	16.61	16.19	19.5	18.5	17.5
	12RB_6	2567.4MHz	18.01	16.83	16.26	19.5	18.5	17.5
		2535.0MHz	17.61	16.84	16.22	19.5	18.5	17.5
		2502.5MHz	17.67	16.70	16.21	19.5	18.5	17.5
	12RB_0	2567.4MHz	17.85	16.71	16.26	19.5	18.5	17.5
		2535.0MHz	17.76	16.84	16.10	19.5	18.5	17.5
		2502.5MHz	17.57	16.62	16.12	19.5	18.5	17.5
	25RB_0	2567.4MHz	17.75	16.76	16.20	19.5	18.5	17.5
		2535.0MHz	17.64	16.93	16.12	19.5	18.5	17.5
		2502.5MHz	17.61	16.70	16.11	19.5	18.5	17.5

Sensor on								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0MHz	19.12	18.05	17.48	20.5	19.5	18.5
		2535.0MHz	18.56	17.92	16.73	20.5	19.5	18.5
		2505.0MHz	18.69	17.94	16.83	20.5	19.5	18.5
	1RB_24	2565.0MHz	19.19	18.16	17.38	20.5	19.5	18.5
		2535.0MHz	18.73	18.02	17.09	20.5	19.5	18.5
		2505.0MHz	18.65	18.06	17.03	20.5	19.5	18.5
	1RB_0	2565.0MHz	19.07	17.96	16.72	20.5	19.5	18.5
		2535.0MHz	18.58	17.86	16.69	20.5	19.5	18.5
		2505.0MHz	18.55	17.88	16.82	20.5	19.5	18.5
	25RB_25	2565.0MHz	18.16	16.81	15.88	19.5	18.5	17.5
		2535.0MHz	17.81	16.83	15.88	19.5	18.5	17.5
		2505.0MHz	18.15	16.87	15.92	19.5	18.5	17.5
	25RB_12	2565.0MHz	18.23	16.81	16.27	19.5	18.5	17.5
		2535.0MHz	18.09	16.83	15.88	19.5	18.5	17.5
		2505.0MHz	17.84	16.92	15.81	19.5	18.5	17.5
	25RB_0	2565.0MHz	18.09	16.75	16.28	19.5	18.5	17.5
		2535.0MHz	17.96	16.94	15.88	19.5	18.5	17.5
		2505.0MHz	17.70	16.88	15.84	19.5	18.5	17.5
	50RB_0	2565.0MHz	18.00	16.77	15.66	19.5	18.5	17.5
		2535.0MHz	18.05	16.95	16.02	19.5	18.5	17.5
		2505.0MHz	17.68	16.92	16.15	19.5	18.5	17.5

Sensor on								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5MHz	19.08	18.02	17.37	20.5	19.5	18.5
		2535.0MHz	19.01	18.37	17.17	20.5	19.5	18.5
		2507.5MHz	19.01	18.32	17.26	20.5	19.5	18.5
	1RB_37	2562.5MHz	19.13	18.44	17.31	20.5	19.5	18.5
		2535.0MHz	19.07	18.36	17.35	20.5	19.5	18.5
		2507.5MHz	19.14	18.38	17.14	20.5	19.5	18.5
	1RB_0	2562.5MHz	19.01	18.16	17.30	20.5	19.5	18.5
		2535.0MHz	18.92	18.22	17.06	20.5	19.5	18.5
		2507.5MHz	18.99	18.23	17.01	20.5	19.5	18.5
	36RB_38	2562.5MHz	18.17	17.27	16.22	19.5	18.5	17.5
		2535.0MHz	18.13	17.19	16.17	19.5	18.5	17.5
		2507.5MHz	18.15	17.21	16.21	19.5	18.5	17.5
	36RB_19	2562.5MHz	18.20	17.24	16.22	19.5	18.5	17.5
		2535.0MHz	18.10	17.20	16.17	19.5	18.5	17.5
		2507.5MHz	18.17	17.23	16.24	19.5	18.5	17.5
	36RB_0	2562.5MHz	18.16	17.19	16.18	19.5	18.5	17.5
		2535.0MHz	17.99	17.09	16.09	19.5	18.5	17.5
		2507.5MHz	18.12	17.17	16.17	19.5	18.5	17.5
	75RB_0	2562.5MHz	18.18	17.23	16.19	19.5	18.5	17.5
		2535.0MHz	18.16	17.16	16.12	19.5	18.5	17.5
		2507.5MHz	18.17	17.24	16.18	19.5	18.5	17.5

Sensor on								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0MHz	18.91	18.34	17.17	20.5	19.5	18.5
		2535.0MHz	18.86	18.29	17.24	20.5	19.5	18.5
		2510.0MHz	18.82	18.18	17.03	20.5	19.5	18.5
	1RB_50	2560.0MHz	19.16	18.64	17.48	20.5	19.5	18.5
		2535.0MHz	19.17	18.54	17.62	20.5	19.5	18.5
		2510.0MHz	19.18	18.54	17.43	20.5	19.5	18.5
	1RB_0	2560.0MHz	18.74	18.15	17.14	20.5	19.5	18.5
		2535.0MHz	18.64	18.11	17.04	20.5	19.5	18.5
		2510.0MHz	18.79	18.07	17.17	20.5	19.5	18.5
	50RB_50	2560.0MHz	18.14	17.25	16.33	19.5	18.5	17.5
		2535.0MHz	18.12	17.20	16.23	19.5	18.5	17.5
		2510.0MHz	18.13	17.21	16.20	19.5	18.5	17.5
	50RB_25	2560.0MHz	18.15	17.23	16.21	19.5	18.5	17.5
		2535.0MHz	18.14	17.15	16.17	19.5	18.5	17.5
		2510.0MHz	18.15	17.22	16.23	19.5	18.5	17.5
	50RB_0	2560.0MHz	18.08	17.18	16.18	19.5	18.5	17.5
		2535.0MHz	18.00	17.06	16.09	19.5	18.5	17.5
		2510.0MHz	18.04	17.11	16.14	19.5	18.5	17.5
	100RB_0	2560.0MHz	18.12	17.20	16.24	19.5	18.5	17.5
		2535.0MHz	18.09	17.13	16.17	19.5	18.5	17.5
		2510.0MHz	18.13	17.16	16.20	19.5	18.5	17.5

LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	715.3MHz	23.72	22.95	21.90	25.0	24.0	23.0
		707.5MHz	23.75	22.97	22.09	25.0	24.0	23.0
		699.7MHz	23.47	22.95	22.02	25.0	24.0	23.0
	1RB_3	715.3MHz	23.83	22.93	22.02	25.0	24.0	23.0
		707.5MHz	23.83	23.10	22.14	25.0	24.0	23.0
		699.7MHz	23.65	23.07	22.06	25.0	24.0	23.0
	1RB_0	715.3MHz	23.67	22.88	21.92	25.0	24.0	23.0
		707.5MHz	23.69	22.96	22.02	25.0	24.0	23.0
		699.7MHz	23.57	23.01	22.08	25.0	24.0	23.0
	3RB_3	715.3MHz	23.83	22.81	22.02	25.0	24.0	23.0
		707.5MHz	23.73	22.89	22.01	25.0	24.0	23.0
		699.7MHz	23.56	22.84	21.99	25.0	24.0	23.0
	3RB_1	715.3MHz	23.84	22.81	22.02	25.0	24.0	23.0
		707.5MHz	23.70	22.95	22.09	25.0	24.0	23.0
		699.7MHz	23.65	22.85	22.11	25.0	24.0	23.0
	3RB_0	715.3MHz	23.79	22.82	21.96	25.0	24.0	23.0
		707.5MHz	23.63	22.84	22.02	25.0	24.0	23.0
		699.7MHz	23.48	22.83	22.05	25.0	24.0	23.0
	6RB_0	715.3MHz	22.88	21.96	20.82	24.0	23.0	22.0
		707.5MHz	22.63	21.97	20.96	24.0	23.0	22.0
		699.7MHz	22.68	21.97	20.90	24.0	23.0	22.0

LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	714.5MHz	23.84	23.08	22.02	25.0	24.0	23.0
		707.5MHz	23.88	23.13	22.19	25.0	24.0	23.0
		700.5MHz	23.87	23.18	22.13	25.0	24.0	23.0
	1RB_7	714.5MHz	23.99	23.04	22.03	25.0	24.0	23.0
		707.5MHz	24.08	23.18	22.31	25.0	24.0	23.0
		700.5MHz	23.99	23.24	22.30	25.0	24.0	23.0
	1RB_0	714.5MHz	23.81	23.07	21.93	25.0	24.0	23.0
		707.5MHz	23.85	23.17	22.15	25.0	24.0	23.0
		700.5MHz	23.60	23.10	22.06	25.0	24.0	23.0
	8RB_7	714.5MHz	22.87	21.93	20.93	24.0	23.0	22.0
		707.5MHz	22.93	22.01	21.06	24.0	23.0	22.0
		700.5MHz	22.83	21.94	20.96	24.0	23.0	22.0
	8RB_4	714.5MHz	22.90	21.94	20.95	24.0	23.0	22.0
		707.5MHz	22.95	22.04	21.03	24.0	23.0	22.0
		700.5MHz	22.93	22.00	20.98	24.0	23.0	22.0
	8RB_0	714.5MHz	22.84	21.92	20.95	24.0	23.0	22.0
		707.5MHz	22.92	21.99	20.99	24.0	23.0	22.0
		700.5MHz	22.88	21.96	20.96	24.0	23.0	22.0
	15RB_0	714.5MHz	22.88	21.82	20.87	24.0	23.0	22.0
		707.5MHz	22.91	21.96	20.94	24.0	23.0	22.0
		700.5MHz	22.91	21.91	20.86	24.0	23.0	22.0

LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	713.5MHz	23.75	23.01	21.87	25.0	24.0	23.0
		707.5MHz	23.73	23.00	21.88	25.0	24.0	23.0
		701.5MHz	23.78	23.11	22.01	25.0	24.0	23.0
	1RB_12	713.5MHz	24.04	23.27	21.99	25.0	24.0	23.0
		707.5MHz	24.16	23.25	22.22	25.0	24.0	23.0
		701.5MHz	23.94	23.36	22.19	25.0	24.0	23.0
	1RB_0	713.5MHz	23.66	22.95	21.83	25.0	24.0	23.0
		707.5MHz	23.73	23.01	21.87	25.0	24.0	23.0
		701.5MHz	23.60	23.04	21.91	25.0	24.0	23.0
	12RB_13	713.5MHz	22.80	21.83	20.85	24.0	23.0	22.0
		707.5MHz	22.95	21.94	20.96	24.0	23.0	22.0
		701.5MHz	22.92	21.87	20.95	24.0	23.0	22.0
	12RB_6	713.5MHz	22.95	21.90	20.92	24.0	23.0	22.0
		707.5MHz	23.00	21.95	21.00	24.0	23.0	22.0
		701.5MHz	23.01	21.95	21.04	24.0	23.0	22.0
	12RB_0	713.5MHz	22.91	21.89	20.88	24.0	23.0	22.0
		707.5MHz	22.97	21.92	20.98	24.0	23.0	22.0
		701.5MHz	22.87	21.83	20.91	24.0	23.0	22.0
	25RB_0	713.5MHz	22.89	21.85	20.88	24.0	23.0	22.0
		707.5MHz	22.97	21.97	20.96	24.0	23.0	22.0
		701.5MHz	22.91	21.90	20.90	24.0	23.0	22.0

LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	711.0MHz	23.84	22.88	22.06	25.0	24.0	23.0
		707.5MHz	23.77	23.12	22.00	25.0	24.0	23.0
		704.0MHz	23.50	23.18	22.09	25.0	24.0	23.0
	1RB_24	711.0MHz	23.93	23.17	22.08	25.0	24.0	23.0
		707.5MHz	23.98	23.16	22.11	25.0	24.0	23.0
		704.0MHz	23.81	23.28	22.12	25.0	24.0	23.0
	1RB_0	711.0MHz	23.80	23.11	21.94	25.0	24.0	23.0
		707.5MHz	23.62	23.06	21.94	25.0	24.0	23.0
		704.0MHz	23.51	23.03	21.91	25.0	24.0	23.0
	25RB_25	711.0MHz	22.94	21.94	20.98	24.0	23.0	22.0
		707.5MHz	22.94	21.99	21.01	24.0	23.0	22.0
		704.0MHz	22.89	21.96	20.92	24.0	23.0	22.0
	25RB_12	711.0MHz	22.96	21.91	20.98	24.0	23.0	22.0
		707.5MHz	22.98	22.00	21.02	24.0	23.0	22.0
		704.0MHz	22.88	21.98	20.98	24.0	23.0	22.0
	25RB_0	711.0MHz	22.90	21.86	20.90	24.0	23.0	22.0
		707.5MHz	23.02	21.96	20.96	24.0	23.0	22.0
		704.0MHz	22.88	21.99	20.98	24.0	23.0	22.0
	50RB_0	711.0MHz	22.97	21.93	20.99	24.0	23.0	22.0
		707.5MHz	23.04	22.02	21.01	24.0	23.0	22.0
		704.0MHz	22.91	21.98	20.98	24.0	23.0	22.0

LTE Band 17			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	713.5MHz	23.67	22.91	21.95	25.0	24.0	23.0
		710.0MHz	23.68	22.98	21.96	25.0	24.0	23.0
		706.5MHz	23.75	23.00	21.85	25.0	24.0	23.0
	1RB_12	713.5MHz	23.92	23.14	22.16	25.0	24.0	23.0
		710.0MHz	23.88	23.20	22.27	25.0	24.0	23.0
		706.5MHz	24.06	23.23	22.14	25.0	24.0	23.0
	1RB_0	713.5MHz	23.65	22.87	21.89	25.0	24.0	23.0
		710.0MHz	23.70	22.99	21.97	25.0	24.0	23.0
		706.5MHz	23.67	22.97	21.80	25.0	24.0	23.0
	12RB_13	713.5MHz	22.77	21.77	20.83	24.0	23.0	22.0
		710.0MHz	22.88	21.86	20.88	24.0	23.0	22.0
		706.5MHz	22.93	21.91	20.93	24.0	23.0	22.0
	12RB_6	713.5MHz	22.88	21.88	20.93	24.0	23.0	22.0
		710.0MHz	22.93	21.91	20.93	24.0	23.0	22.0
		706.5MHz	22.97	21.94	20.97	24.0	23.0	22.0
	12RB_0	713.5MHz	22.88	21.83	20.90	24.0	23.0	22.0
		710.0MHz	22.83	21.84	20.83	24.0	23.0	22.0
		706.5MHz	22.89	21.90	20.94	24.0	23.0	22.0
	25RB_0	713.5MHz	22.86	21.84	20.87	24.0	23.0	22.0
		710.0MHz	22.88	21.84	20.87	24.0	23.0	22.0
		706.5MHz	22.90	21.88	20.90	24.0	23.0	22.0

LTE Band 17			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	711.0MHz	23.83	23.05	22.00	25.0	24.0	23.0
		710.0MHz	23.79	23.05	22.04	25.0	24.0	23.0
		709.0MHz	23.68	23.05	21.92	25.0	24.0	23.0
	1RB_24	711.0MHz	23.89	23.14	22.16	25.0	24.0	23.0
		710.0MHz	23.90	23.13	22.17	25.0	24.0	23.0
		709.0MHz	23.71	23.17	22.05	25.0	24.0	23.0
	1RB_0	711.0MHz	23.75	23.06	22.00	25.0	24.0	23.0
		710.0MHz	23.67	23.11	21.96	25.0	24.0	23.0
		709.0MHz	23.32	23.00	21.91	25.0	24.0	23.0
	25RB_25	711.0MHz	22.91	21.91	20.89	24.0	23.0	22.0
		710.0MHz	22.86	21.92	20.93	24.0	23.0	22.0
		709.0MHz	22.78	21.92	20.92	24.0	23.0	22.0
	25RB_12	711.0MHz	22.93	21.94	20.95	24.0	23.0	22.0
		710.0MHz	22.94	21.94	20.91	24.0	23.0	22.0
		709.0MHz	22.85	21.95	20.95	24.0	23.0	22.0
	25RB_0	711.0MHz	22.87	21.88	20.89	24.0	23.0	22.0
		710.0MHz	22.90	21.94	20.87	24.0	23.0	22.0
		709.0MHz	22.92	21.92	20.98	24.0	23.0	22.0
	50RB_0	711.0MHz	22.87	21.88	20.86	24.0	23.0	22.0
		710.0MHz	22.93	21.91	20.93	24.0	23.0	22.0
		709.0MHz	22.85	21.93	20.93	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3MHz	23.63	22.41	21.79	25.0	24.0	23.0
		1745.0MHz	23.13	22.57	21.90	25.0	24.0	23.0
		1710.7MHz	23.12	22.51	21.83	25.0	24.0	23.0
	1RB_3	1779.3MHz	23.80	22.51	21.90	25.0	24.0	23.0
		1745.0MHz	23.26	22.71	22.06	25.0	24.0	23.0
		1710.7MHz	23.25	22.71	21.98	25.0	24.0	23.0
	1RB_0	1779.3MHz	23.66	22.51	21.83	25.0	24.0	23.0
		1745.0MHz	23.11	22.53	21.89	25.0	24.0	23.0
		1710.7MHz	23.10	22.47	21.81	25.0	24.0	23.0
	3RB_3	1779.3MHz	23.27	22.23	21.90	25.0	24.0	23.0
		1745.0MHz	23.29	22.27	21.95	25.0	24.0	23.0
		1710.7MHz	23.27	22.19	21.89	25.0	24.0	23.0
	3RB_1	1779.3MHz	23.38	22.24	21.92	25.0	24.0	23.0
		1745.0MHz	23.32	22.27	21.92	25.0	24.0	23.0
		1710.7MHz	23.32	22.25	21.94	25.0	24.0	23.0
	3RB_0	1779.3MHz	23.29	22.23	21.88	25.0	24.0	23.0
		1745.0MHz	23.24	22.29	21.98	25.0	24.0	23.0
		1710.7MHz	23.23	22.51	21.91	25.0	24.0	23.0
	6RB_0	1779.3MHz	22.50	21.78	20.85	24.0	23.0	22.0
		1745.0MHz	22.27	21.71	20.88	24.0	23.0	22.0
		1710.7MHz	22.38	21.86	20.77	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5MHz	23.63	22.44	21.93	25.0	24.0	23.0
		1745.0MHz	23.25	22.67	21.88	25.0	24.0	23.0
		1711.5MHz	23.11	22.73	21.80	25.0	24.0	23.0
	1RB_7	1778.5MHz	23.73	22.48	21.94	25.0	24.0	23.0
		1745.0MHz	23.25	22.54	22.06	25.0	24.0	23.0
		1711.5MHz	23.30	22.80	21.97	25.0	24.0	23.0
	1RB_0	1778.5MHz	23.47	22.43	21.87	25.0	24.0	23.0
		1745.0MHz	23.15	22.49	21.95	25.0	24.0	23.0
		1711.5MHz	23.15	22.75	21.82	25.0	24.0	23.0
	8RB_7	1778.5MHz	22.58	21.65	20.80	24.0	23.0	22.0
		1745.0MHz	22.41	21.82	20.83	24.0	23.0	22.0
		1711.5MHz	22.55	21.83	20.76	24.0	23.0	22.0
	8RB_4	1778.5MHz	22.71	21.76	20.89	24.0	23.0	22.0
		1745.0MHz	22.63	21.82	20.79	24.0	23.0	22.0
		1711.5MHz	22.61	21.80	20.80	24.0	23.0	22.0
	8RB_0	1778.5MHz	22.69	21.80	20.82	24.0	23.0	22.0
		1745.0MHz	22.60	21.80	20.82	24.0	23.0	22.0
		1711.5MHz	22.67	21.77	20.73	24.0	23.0	22.0
	15RB_0	1778.5MHz	22.39	21.69	20.75	24.0	23.0	22.0
		1745.0MHz	22.58	21.76	20.77	24.0	23.0	22.0
		1711.5MHz	22.69	21.76	20.84	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5MHz	23.51	22.27	21.64	25.0	24.0	23.0
		1745.0MHz	23.21	22.47	21.81	25.0	24.0	23.0
		1712.5MHz	23.03	22.75	21.80	25.0	24.0	23.0
	1RB_12	1777.5MHz	23.74	22.57	21.86	25.0	24.0	23.0
		1745.0MHz	23.28	22.71	22.14	25.0	24.0	23.0
		1712.5MHz	23.32	22.99	22.06	25.0	24.0	23.0
	1RB_0	1777.5MHz	23.43	22.33	21.73	25.0	24.0	23.0
		1745.0MHz	23.09	22.49	21.81	25.0	24.0	23.0
		1712.5MHz	23.05	22.54	21.83	25.0	24.0	23.0
	12RB_13	1777.5MHz	22.57	21.40	20.79	24.0	23.0	22.0
		1745.0MHz	22.26	21.42	20.76	24.0	23.0	22.0
		1712.5MHz	22.55	21.69	20.80	24.0	23.0	22.0
	12RB_6	1777.5MHz	22.32	21.50	20.82	24.0	23.0	22.0
		1745.0MHz	22.54	21.57	20.83	24.0	23.0	22.0
		1712.5MHz	22.71	21.66	20.81	24.0	23.0	22.0
	12RB_0	1777.5MHz	22.61	21.67	20.77	24.0	23.0	22.0
		1745.0MHz	22.52	21.68	20.79	24.0	23.0	22.0
		1712.5MHz	22.47	21.70	20.74	24.0	23.0	22.0
	25RB_0	1777.5MHz	22.71	21.68	20.76	24.0	23.0	22.0
		1745.0MHz	22.56	21.56	20.74	24.0	23.0	22.0
		1712.5MHz	22.38	21.75	20.76	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0MHz	23.59	22.32	21.66	25.0	24.0	23.0
		1745.0MHz	23.11	22.47	21.75	25.0	24.0	23.0
		1715.0MHz	23.04	22.67	21.81	25.0	24.0	23.0
	1RB_24	1775.0MHz	23.74	22.50	21.96	25.0	24.0	23.0
		1745.0MHz	23.54	22.65	21.99	25.0	24.0	23.0
		1715.0MHz	23.56	23.06	21.94	25.0	24.0	23.0
	1RB_0	1775.0MHz	23.59	22.40	21.85	25.0	24.0	23.0
		1745.0MHz	23.12	22.55	21.86	25.0	24.0	23.0
		1715.0MHz	23.12	22.66	21.84	25.0	24.0	23.0
	25RB_25	1775.0MHz	22.50	21.35	20.78	24.0	23.0	22.0
		1745.0MHz	22.19	21.38	20.80	24.0	23.0	22.0
		1715.0MHz	22.48	21.82	20.81	24.0	23.0	22.0
	25RB_12	1775.0MHz	22.54	21.51	20.76	24.0	23.0	22.0
		1745.0MHz	22.27	21.65	20.81	24.0	23.0	22.0
		1715.0MHz	22.76	21.75	20.78	24.0	23.0	22.0
	25RB_0	1775.0MHz	22.54	21.62	20.80	24.0	23.0	22.0
		1745.0MHz	22.28	21.74	20.85	24.0	23.0	22.0
		1715.0MHz	22.53	21.78	20.78	24.0	23.0	22.0
	50RB_0	1775.0MHz	22.43	21.71	20.78	24.0	23.0	22.0
		1745.0MHz	22.25	21.52	20.86	24.0	23.0	22.0
		1715.0MHz	22.66	21.81	20.83	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5MHz	23.55	22.45	21.70	25.0	24.0	23.0
		1745.0MHz	23.01	22.27	21.73	25.0	24.0	23.0
		1717.5MHz	22.98	22.70	21.67	25.0	24.0	23.0
	1RB_37	1772.5MHz	23.61	22.55	21.86	25.0	24.0	23.0
		1745.0MHz	23.11	22.70	21.75	25.0	24.0	23.0
		1717.5MHz	23.11	22.83	21.84	25.0	24.0	23.0
	1RB_0	1772.5MHz	23.57	22.36	21.81	25.0	24.0	23.0
		1745.0MHz	23.06	22.39	21.80	25.0	24.0	23.0
		1717.5MHz	23.38	22.77	21.78	25.0	24.0	23.0
	36RB_38	1772.5MHz	22.46	21.51	20.74	24.0	23.0	22.0
		1745.0MHz	22.21	21.46	20.77	24.0	23.0	22.0
		1717.5MHz	22.62	21.70	20.74	24.0	23.0	22.0
	36RB_19	1772.5MHz	22.65	21.77	20.77	24.0	23.0	22.0
		1745.0MHz	22.41	21.80	20.83	24.0	23.0	22.0
		1717.5MHz	22.68	21.69	20.77	24.0	23.0	22.0
	36RB_0	1772.5MHz	22.51	21.61	20.78	24.0	23.0	22.0
		1745.0MHz	22.72	21.79	20.87	24.0	23.0	22.0
		1717.5MHz	22.70	21.72	20.76	24.0	23.0	22.0
	75RB_0	1772.5MHz	22.58	21.68	20.74	24.0	23.0	22.0
		1745.0MHz	22.42	21.66	20.78	24.0	23.0	22.0
		1717.5MHz	22.70	21.71	20.74	24.0	23.0	22.0

Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0MHz	23.33	22.33	21.46	25.0	24.0	23.0
		1745.0MHz	22.79	22.50	21.50	25.0	24.0	23.0
		1720.0MHz	22.98	22.57	21.54	25.0	24.0	23.0
	1RB_50	1770.0MHz	23.68	22.80	21.94	25.0	24.0	23.0
		1745.0MHz	23.67	22.53	21.90	25.0	24.0	23.0
		1720.0MHz	23.51	22.75	21.93	25.0	24.0	23.0
	1RB_0	1770.0MHz	23.37	22.35	21.47	25.0	24.0	23.0
		1745.0MHz	22.83	22.39	21.52	25.0	24.0	23.0
		1720.0MHz	23.05	22.59	21.54	25.0	24.0	23.0
	50RB_50	1770.0MHz	22.32	21.23	20.77	24.0	23.0	22.0
		1745.0MHz	22.08	21.37	20.75	24.0	23.0	22.0
		1720.0MHz	22.64	21.68	20.70	24.0	23.0	22.0
	50RB_25	1770.0MHz	22.63	21.66	20.79	24.0	23.0	22.0
		1745.0MHz	22.59	21.63	20.78	24.0	23.0	22.0
		1720.0MHz	22.66	21.68	20.75	24.0	23.0	22.0
	50RB_0	1770.0MHz	22.14	21.52	20.75	24.0	23.0	22.0
		1745.0MHz	22.38	21.86	20.91	24.0	23.0	22.0
		1720.0MHz	22.60	21.65	20.68	24.0	23.0	22.0
	100RB_0	1770.0MHz	22.13	21.29	20.75	24.0	23.0	22.0
		1745.0MHz	22.30	21.65	20.79	24.0	23.0	22.0
		1720.0MHz	22.60	21.65	20.65	24.0	23.0	22.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3MHz	18.68	18.03	16.84	20.0	19.0	18.0
		1745.0MHz	18.63	17.97	16.83	20.0	19.0	18.0
		1710.7MHz	18.52	17.88	16.66	20.0	19.0	18.0
	1RB_3	1779.3MHz	18.75	18.17	16.89	20.0	19.0	18.0
		1745.0MHz	18.75	18.04	16.91	20.0	19.0	18.0
		1710.7MHz	18.66	17.94	16.89	20.0	19.0	18.0
	1RB_0	1779.3MHz	18.68	18.00	16.88	20.0	19.0	18.0
		1745.0MHz	18.59	17.96	16.87	20.0	19.0	18.0
		1710.7MHz	18.53	17.89	16.59	20.0	19.0	18.0
	3RB_3	1779.3MHz	18.72	17.82	16.89	20.0	19.0	18.0
		1745.0MHz	18.72	17.78	16.84	20.0	19.0	18.0
		1710.7MHz	18.63	17.62	16.74	20.0	19.0	18.0
	3RB_1	1779.3MHz	18.79	17.83	16.90	20.0	19.0	18.0
		1745.0MHz	18.84	17.79	16.93	20.0	19.0	18.0
		1710.7MHz	18.65	17.74	16.79	20.0	19.0	18.0
	3RB_0	1779.3MHz	18.75	17.84	16.87	20.0	19.0	18.0
		1745.0MHz	18.75	17.79	16.85	20.0	19.0	18.0
		1710.7MHz	18.64	17.69	16.75	20.0	19.0	18.0
	6RB_0	1779.3MHz	17.76	16.86	15.75	19.0	18.0	17.0
		1745.0MHz	17.69	16.82	15.67	19.0	18.0	17.0
		1710.7MHz	17.62	16.70	15.60	19.0	18.0	17.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5MHz	18.73	18.11	17.01	20.0	19.0	18.0
		1745.0MHz	18.68	18.10	16.94	20.0	19.0	18.0
		1711.5MHz	18.64	18.01	16.83	20.0	19.0	18.0
	1RB_7	1778.5MHz	18.99	18.14	17.25	20.0	19.0	18.0
		1745.0MHz	18.96	18.19	17.16	20.0	19.0	18.0
		1711.5MHz	18.80	18.02	17.02	20.0	19.0	18.0
	1RB_0	1778.5MHz	18.75	18.09	17.02	20.0	19.0	18.0
		1745.0MHz	18.75	18.00	16.95	20.0	19.0	18.0
		1711.5MHz	18.68	17.91	16.78	20.0	19.0	18.0
	8RB_7	1778.5MHz	17.74	16.83	15.81	19.0	18.0	17.0
		1745.0MHz	17.72	16.78	15.81	19.0	18.0	17.0
		1711.5MHz	17.65	16.70	15.68	19.0	18.0	17.0
	8RB_4	1778.5MHz	17.81	16.84	15.83	19.0	18.0	17.0
		1745.0MHz	17.76	16.82	15.87	19.0	18.0	17.0
		1711.5MHz	17.69	16.76	15.68	19.0	18.0	17.0
	8RB_0	1778.5MHz	17.79	16.85	15.84	19.0	18.0	17.0
		1745.0MHz	17.73	16.84	15.78	19.0	18.0	17.0
		1711.5MHz	17.66	16.73	15.67	19.0	18.0	17.0
	15RB_0	1778.5MHz	17.75	16.79	15.77	19.0	18.0	17.0
		1745.0MHz	17.69	16.72	15.73	19.0	18.0	17.0
		1711.5MHz	17.62	16.65	15.72	19.0	18.0	17.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5MHz	18.63	17.94	16.79	20.0	19.0	18.0
		1745.0MHz	18.59	18.02	16.75	20.0	19.0	18.0
		1712.5MHz	18.52	17.83	16.67	20.0	19.0	18.0
	1RB_12	1777.5MHz	18.95	18.23	17.09	20.0	19.0	18.0
		1745.0MHz	18.93	18.23	17.16	20.0	19.0	18.0
		1712.5MHz	18.84	18.26	17.01	20.0	19.0	18.0
	1RB_0	1777.5MHz	18.63	18.03	16.79	20.0	19.0	18.0
		1745.0MHz	18.61	17.96	16.79	20.0	19.0	18.0
		1712.5MHz	18.55	17.91	16.75	20.0	19.0	18.0
	12RB_13	1777.5MHz	17.72	16.71	15.80	19.0	18.0	17.0
		1745.0MHz	17.70	16.66	15.72	19.0	18.0	17.0
		1712.5MHz	17.64	16.64	15.69	19.0	18.0	17.0
	12RB_6	1777.5MHz	17.83	16.79	15.92	19.0	18.0	17.0
		1745.0MHz	17.79	16.79	15.85	19.0	18.0	17.0
		1712.5MHz	17.68	16.70	15.72	19.0	18.0	17.0
	12RB_0	1777.5MHz	17.74	16.75	15.83	19.0	18.0	17.0
		1745.0MHz	17.72	16.72	15.79	19.0	18.0	17.0
		1712.5MHz	17.62	16.60	15.63	19.0	18.0	17.0
	25RB_0	1777.5MHz	17.72	16.76	15.81	19.0	18.0	17.0
		1745.0MHz	17.68	16.69	15.69	19.0	18.0	17.0
		1712.5MHz	17.58	16.66	15.62	19.0	18.0	17.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0MHz	18.68	17.93	16.81	20.0	19.0	18.0
		1745.0MHz	18.64	17.96	16.87	20.0	19.0	18.0
		1715.0MHz	18.59	17.93	16.77	20.0	19.0	18.0
	1RB_24	1775.0MHz	18.85	18.12	16.96	20.0	19.0	18.0
		1745.0MHz	18.81	18.09	17.07	20.0	19.0	18.0
		1715.0MHz	18.74	18.05	16.93	20.0	19.0	18.0
	1RB_0	1775.0MHz	18.69	18.03	16.79	20.0	19.0	18.0
		1745.0MHz	18.71	18.00	16.91	20.0	19.0	18.0
		1715.0MHz	18.61	17.85	16.83	20.0	19.0	18.0
	25RB_25	1775.0MHz	17.76	16.76	15.75	19.0	18.0	17.0
		1745.0MHz	17.65	16.63	15.64	19.0	18.0	17.0
		1715.0MHz	17.66	16.70	15.70	19.0	18.0	17.0
	25RB_12	1775.0MHz	17.75	16.80	15.80	19.0	18.0	17.0
		1745.0MHz	17.71	16.75	15.78	19.0	18.0	17.0
		1715.0MHz	17.63	16.68	15.68	19.0	18.0	17.0
	25RB_0	1775.0MHz	17.71	16.75	15.76	19.0	18.0	17.0
		1745.0MHz	17.76	16.72	15.79	19.0	18.0	17.0
		1715.0MHz	17.61	16.67	15.59	19.0	18.0	17.0
	50RB_0	1775.0MHz	17.74	16.75	15.78	19.0	18.0	17.0
		1745.0MHz	17.67	16.70	15.74	19.0	18.0	17.0
		1715.0MHz	17.66	16.62	15.67	19.0	18.0	17.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5MHz	18.63	17.97	16.67	20.0	19.0	18.0
		1745.0MHz	18.55	17.96	16.76	20.0	19.0	18.0
		1717.5MHz	18.48	17.87	16.75	20.0	19.0	18.0
	1RB_37	1772.5MHz	18.72	18.11	16.81	20.0	19.0	18.0
		1745.0MHz	18.73	18.12	16.80	20.0	19.0	18.0
		1717.5MHz	18.62	18.03	16.84	20.0	19.0	18.0
	1RB_0	1772.5MHz	18.65	18.04	16.82	20.0	19.0	18.0
		1745.0MHz	18.63	18.01	16.77	20.0	19.0	18.0
		1717.5MHz	18.61	17.93	16.80	20.0	19.0	18.0
	36RB_38	1772.5MHz	17.77	16.70	15.81	19.0	18.0	17.0
		1745.0MHz	17.65	16.64	15.68	19.0	18.0	17.0
		1717.5MHz	17.66	16.66	15.66	19.0	18.0	17.0
	36RB_19	1772.5MHz	17.77	16.72	15.83	19.0	18.0	17.0
		1745.0MHz	17.69	16.69	15.73	19.0	18.0	17.0
		1717.5MHz	17.69	16.67	15.66	19.0	18.0	17.0
	36RB_0	1772.5MHz	17.72	16.74	15.80	19.0	18.0	17.0
		1745.0MHz	17.81	16.76	15.77	19.0	18.0	17.0
		1717.5MHz	17.60	16.58	15.60	19.0	18.0	17.0
	75RB_0	1772.5MHz	17.72	16.74	15.76	19.0	18.0	17.0
		1745.0MHz	17.73	16.73	15.76	19.0	18.0	17.0
		1717.5MHz	17.63	16.63	15.62	19.0	18.0	17.0

Sensor on								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0MHz	18.37	17.84	16.61	20.0	19.0	18.0
		1745.0MHz	18.34	17.61	16.59	20.0	19.0	18.0
		1720.0MHz	18.30	17.55	16.32	20.0	19.0	18.0
	1RB_50	1770.0MHz	18.80	18.22	17.00	20.0	19.0	18.0
		1745.0MHz	18.79	18.14	16.96	20.0	19.0	18.0
		1720.0MHz	18.69	18.02	16.77	20.0	19.0	18.0
	1RB_0	1770.0MHz	18.43	17.80	16.68	20.0	19.0	18.0
		1745.0MHz	18.47	17.76	16.62	20.0	19.0	18.0
		1720.0MHz	18.36	17.70	16.43	20.0	19.0	18.0
	50RB_50	1770.0MHz	17.72	16.75	15.76	19.0	18.0	17.0
		1745.0MHz	17.55	16.56	15.68	19.0	18.0	17.0
		1720.0MHz	17.60	16.64	15.68	19.0	18.0	17.0
	50RB_25	1770.0MHz	17.70	16.77	15.78	19.0	18.0	17.0
		1745.0MHz	17.68	16.68	15.74	19.0	18.0	17.0
		1720.0MHz	17.62	16.60	15.68	19.0	18.0	17.0
	50RB_0	1770.0MHz	17.83	16.75	15.81	19.0	18.0	17.0
		1745.0MHz	17.81	16.82	15.89	19.0	18.0	17.0
		1720.0MHz	17.57	16.62	15.65	19.0	18.0	17.0
	100RB_0	1770.0MHz	17.73	16.68	15.77	19.0	18.0	17.0
		1745.0MHz	17.71	16.72	15.76	19.0	18.0	17.0
		1720.0MHz	17.56	16.61	15.62	19.0	18.0	17.0

10.4. Bluetooth and WLAN Measurement result

Table 10.5: The conducted Power measurement results for Bluetooth

Bluetooth	Tune up	Averaged Power (dBm)		
Mode		Ch.0 (2402MHz)	Ch.39 (2441MHz)	Ch.78 (2480MHz)
GFSK	6.5	4.99	5.78	6.15
EDR2M-4_DQPSK	6.0	4.30	5.13	5.44
EDR3M-8DPSK	6.0	4.28	5.12	5.59
/	/	Ch.0 (2402MHz)	Ch.19 (2440MHz)	Ch.39 (2480MHz)
BLE	-2.0	-3.81	-2.81	-2.43

Table 10.6: The conducted Power measurement results for WLAN 2.4G

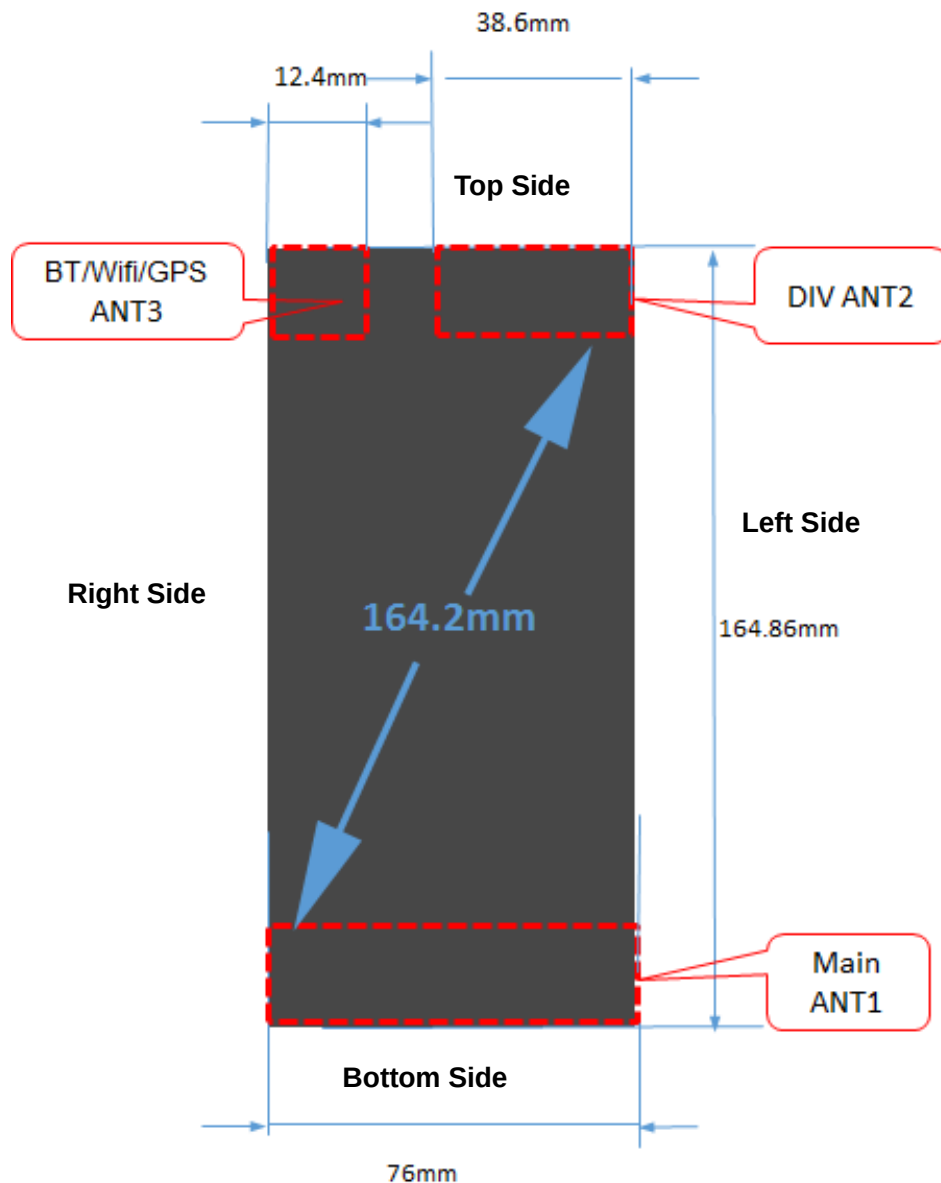
Averaged Power (dBm)		Duty Cycle: 100%		
Mode	Tune up	Ch.1 (2412MHz)	Ch.6 (2437Mhz)	Ch.11 (2462MHz)
802.11b	18.5	17.53	18.09	18.06
802.11g	16.0	15.05	15.56	15.47
802.11n(20MHz)	14.0	13.01	13.41	13.43

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
Main 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ 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 11.1: Standalone SAR test exclusion considerations

Band	f(GHz)	Position	SAR test exclusion threshold (mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.60	6.5	4.47	Yes
		Body	19.20	6.5	4.47	Yes
WLAN 2.4G	2.45	Head	9.58	18.5	70.79	No
		Body	19.17	18.5	70.79	No

12. Evaluation of Simultaneous

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

I	Position	Main Antenna (W/kg)	WLAN (W/kg)	Sum (W/kg)
Highest reported SAR value for Head	Left Cheek	0.35	0.93	1.28
Highest reported SAR value for Hotspot	Rear	0.95	0.39	1.34
Highest reported SAR value for Body-worn	Rear	0.95	0.39	1.34

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 main antenna and Bluetooth

I	Position	Main Antenna (W/kg)	Bluetooth (W/kg)	Sum (W/kg)
Highest reported SAR value for Head	Left Tilt	0.36	0.19	0.55
Highest reported SAR value for Hotspot	Bottom	1.17	0.09	1.26
Highest reported SAR value for Body-worn	Front	1.00	0.09	1.09

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

Table 12.3: Estimated SAR for Bluetooth

Position	f (GHz)	Distance (mm)	Upper limit of power *		Estimated _{1g} (W/kg)
			dBm	mW	
Head	2.441	5	6.5	4.47	0.19
Body	2.441	10	6.5	4.47	0.09

* - Maximum possible output power declared by manufacturer

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm) · [$\sqrt{f(\text{GHz})/x}$] W/kg for test separation distances ≤ 50 mm;

Where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Conclusion:

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

13. Summary of Test Results

According to the client's decision rule in the test registration form, which is "based on the measurement results as the basis of the conformity statement", the test conclusion of this report meets the limit requirements.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 10.

Duty Cycle

Mode	Duty Cycle
Speech for GSM850/1900	1:8.3
GPRS for GSM850/1900	1:4
WCDMA Band2/4/5	1:1
FDD_LTE Band 2/4/5/7/12/17/66	1:1

13.1. Testing Environment

Temperature:	18°C~25°C
Relative humidity:	30%~70%
Ground system resistance:	<4Ω
Ambient noise & Reflection:	< 0.012 W/kg

13.2. SAR results

Table 13.1: SAR Values (GSM 850 - Head)

Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
836.6	190	Speech	Left Cheek	1	32.93	34.5	0.238	0.34	0.02
836.6	190	Speech	Left Tilt	/	32.93	34.5	0.110	0.16	0.07
836.6	190	Speech	Right Cheek	/	32.93	34.5	0.225	0.32	0.01
836.6	190	Speech	Right Tilt	/	32.93	34.5	0.115	0.17	0.03

Table 13.2: SAR Values (GSM 850 - Body)

Ambient Temperature: 22.2°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
836.6	190	GPRS	Front	/	31.95	33.0	0.302	0.38	-0.07
836.6	190	GPRS	Rear	2	31.95	33.0	0.400	0.51	-0.08
836.6	190	GPRS	Left	/	31.95	33.0	0.329	0.42	-0.02
836.6	190	GPRS	Right	/	31.95	33.0	0.331	0.42	0.03
836.6	190	GPRS	Bottom	/	31.95	33.0	0.082	0.10	-0.18
Body-Worn Test Data									
836.6	190	GPRS	Front	10mm	31.95	33.0	0.302	0.38	-0.07
836.6	190	GPRS	Rear	10mm	31.95	33.0	0.400	0.51	-0.08

Table 13.3: SAR Values (GSM 1900 - Head)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1880	661	Speech	Left Cheek	3	30.15	31.0	0.137	0.17	0.01
1880	661	Speech	Left Tilt	/	30.15	31.0	0.128	0.16	0.12
1880	661	Speech	Right Cheek	/	30.15	31.0	0.128	0.16	-0.02
1880	661	Speech	Right Tilt	/	30.15	31.0	0.093	0.11	0.05

Table 13.4: SAR Values (GSM 1900 - Body)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
1880	661	GPRS	Front	/	27.06	28.0	0.190	0.24	-0.01
1880	661	GPRS	Rear	/	27.06	28.0	0.356	0.44	0.01
1880	661	GPRS	Left	/	29.20	30.0	0.023	0.03	0.09
1880	661	GPRS	Right	/	29.20	30.0	0.015	0.02	0.07
1880	661	GPRS	Bottom	4	27.06	28.0	0.516	0.64	0.09
Body-Worn Test Data									
1880	661	GPRS	Front	11mm	29.20	30.0	0.451	0.54	0.05
1880	661	GPRS	Rear	10mm	27.06	28.0	0.356	0.44	0.01
Sensor off Test Data									
1880	661	GPRS	Front	11mm	29.20	30.0	0.451	0.54	0.05
1880	661	GPRS	Rear	17mm	29.20	30.0	0.253	0.30	0.01
1880	661	GPRS	Bottom	17mm	29.20	30.0	0.335	0.40	0.01

Table 13.5: SAR Values (WCDMA Band 2 - Head)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1880	9400	RMC	Left Cheek	5	23.90	25.0	0.267	0.34	0.00
1880	9400	RMC	Left Tilt	/	23.90	25.0	0.236	0.30	0.15
1880	9400	RMC	Right Cheek	/	23.90	25.0	0.183	0.24	0.05
1880	9400	RMC	Right Tilt	/	23.90	25.0	0.153	0.20	0.13

Table 13.6: SAR Values (WCDMA Band 2 - Body)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
1880	9400	RMC	Front	/	21.00	22.0	0.238	0.30	0.10
1880	9400	RMC	Rear	/	21.00	22.0	0.404	0.51	0.09
1880	9400	RMC	Left	/	23.90	25.0	0.292	0.38	0.01
1880	9400	RMC	Right	/	23.90	25.0	0.161	0.21	0.03
1880	9400	RMC	Bottom	/	21.00	22.0	0.708	0.89	-0.02
1907.6	9538	RMC	Bottom	/	21.00	22.0	0.698	0.88	0.01
1852.4	9262	RMC	Bottom	/	21.00	22.0	0.743	0.94	0.18
Body-Worn Test Data									
1880	9400	RMC	Front	11mm	23.90	25.0	0.686	0.88	-0.02
1907.6	9538	RMC	Front	6/11mm	24.00	25.0	0.797	1.00	0.03
1852.4	9262	RMC	Front	11mm	23.39	25.0	0.627	0.91	0.04
1880	9400	RMC	Rear	10mm	21.00	22.0	0.404	0.51	0.09
Sensor off Test Data									
1880	9400	RMC	Front	11mm	23.90	25.0	0.686	0.88	-0.02
1907.6	9538	RMC	Front	11mm	24.00	25.0	0.797	1.00	0.03
1852.4	9262	RMC	Front	11mm	23.39	25.0	0.627	0.91	0.04
1880	9400	RMC	Rear	17mm	23.90	25.0	0.418	0.54	0.08
1880	9400	RMC	Bottom	17mm	23.90	25.0	0.549	0.71	-0.17

Table 13.7: SAR Values (WCDMA Band 4 - Head)

Ambient Temperature: 22.6°C					Liquid Temperature: 22.2°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1732.6	1413	RMC	Left Cheek	/	23.90	25.0	0.139	0.18	0.03
1732.6	1413	RMC	Left Tilt	/	23.90	25.0	0.104	0.13	0.05
1732.6	1413	RMC	Right Cheek	7	23.90	25.0	0.198	0.26	0.09
1732.6	1413	RMC	Right Tilt	/	23.90	25.0	0.153	0.20	0.05

Table 13.8: SAR Values (WCDMA Band 4 - Body)

Ambient Temperature: 22.6°C					Liquid Temperature: 22.2°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
1732.6	1413	RMC	Front	/	18.80	20.0	0.117	0.15	0.03
1732.6	1413	RMC	Rear	/	18.80	20.0	0.215	0.28	0.03
1732.6	1413	RMC	Left	/	23.90	25.0	0.090	0.12	0.04
1732.6	1413	RMC	Right	/	23.90	25.0	0.187	0.24	0.05
1732.6	1413	RMC	Bottom	/	18.80	20.0	0.375	0.49	-0.01
Body-Worn Test Data									
1732.6	1413	RMC	Front	11mm	23.90	25.0	0.760	0.98	0.03
1752.6	1513	RMC	Front	11mm	23.90	25.0	0.720	0.93	0.04
1712.4	1312	RMC	Front	11mm	23.90	25.0	0.705	0.91	0.10
1732.6	1413	RMC	Rear	10mm	18.80	20.0	0.215	0.28	0.03
Sensor off Test Data									
1732.6	1413	RMC	Front	11mm	23.90	25.0	0.760	0.98	0.03
1752.6	1513	RMC	Front	11mm	23.90	25.0	0.720	0.93	0.04
1712.4	1312	RMC	Front	11mm	23.90	25.0	0.705	0.91	0.10
1732.6	1413	RMC	Rear	17mm	23.90	25.0	0.682	0.88	0.04
1752.6	1513	RMC	Rear	17mm	23.90	25.0	0.688	0.89	0.01
1712.4	1312	RMC	Rear	17mm	23.90	25.0	0.664	0.86	0.11
1732.6	1413	RMC	Bottom	17mm	23.90	25.0	0.898	1.16	-0.15
1752.6	1513	RMC	Bottom	8/17mm	23.90	25.0	0.901	1.16	-0.14
1712.4	1312	RMC	Bottom	17mm	23.90	25.0	0.829	1.07	-0.15

Table 13.9: SAR Values (WCDMA Band 5 - Head)

Ambient Temperature: 22.2°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
836.4	4182	RMC	Left Cheek	9	24.00	25.0	0.253	0.32	0.08
836.4	4182	RMC	Left Tilt	/	24.00	25.0	0.135	0.17	0.06
836.4	4182	RMC	Right Cheek	/	24.00	25.0	0.233	0.29	0.05
836.4	4182	RMC	Right Tilt	/	24.00	25.0	0.128	0.16	0.02

Table 13.10: SAR Values (WCDMA Band 5 - Body)

Ambient Temperature: 22.2°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
836.4	4182	RMC	Front	/	24.00	25.0	0.241	0.30	0.02
836.4	4182	RMC	Rear	10	24.00	25.0	0.349	0.44	0.01
836.4	4182	RMC	Left	/	24.00	25.0	0.280	0.35	0.07
836.4	4182	RMC	Right	/	24.00	25.0	0.278	0.35	0.10
836.4	4182	RMC	Bottom	/	24.00	25.0	0.044	0.06	-0.03
Body-Worn Test Data									
836.4	4182	RMC	Front	10mm	24.00	25.0	0.241	0.30	0.02
836.4	4182	RMC	Rear	10mm	24.00	25.0	0.349	0.44	0.01

Table 13.11: SAR Values (LTE Band 2 - Head)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1880	18900	1RB_50	Left Cheek	/	24.18	25.0	0.291	0.35	-0.03
1900	19100	50RB_0	Left Cheek	/	23.30	24.0	0.226	0.27	0.13
1880	18900	1RB_50	Left Tilt	11	24.18	25.0	0.300	0.36	0.16
1900	19100	50RB_0	Left Tilt	/	23.30	24.0	0.267	0.31	0.04
1880	18900	1RB_50	Right Cheek	/	24.18	25.0	0.228	0.28	-0.09
1900	19100	50RB_0	Right Cheek	/	23.30	24.0	0.182	0.21	-0.19
1880	18900	1RB_50	Right Tilt	/	24.18	25.0	0.195	0.24	0.18
1900	19100	50RB_0	Right Tilt	/	23.30	24.0	0.153	0.18	0.03

Table 13.12: SAR Values (LTE Band 2 - Body)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
1860	18700	1RB_50	Front	/	20.85	22.0	0.253	0.33	-0.07
1900	19100	50RB_0	Front	/	19.91	21.0	0.212	0.27	0.01
1860	18700	1RB_50	Rear	/	20.85	22.0	0.444	0.58	0.01
1900	19100	50RB_0	Rear	/	19.91	21.0	0.334	0.43	-0.02
1880	18900	1RB_50	Left	/	24.18	25.0	0.288	0.35	0.17
1900	19100	50RB_0	Left	/	23.30	24.0	0.236	0.28	0.14
1880	18900	1RB_50	Right	/	24.18	25.0	0.204	0.25	0.15
1900	19100	50RB_0	Right	/	23.30	24.0	0.154	0.18	0.02
1860	18700	1RB_50	Bottom	12	20.85	22.0	0.665	0.87	-0.06
1900	19100	50RB_0	Bottom	/	19.91	21.0	0.555	0.71	-0.06
1900	19100	1RB_50	Bottom	/	20.66	22.0	0.650	0.88	-0.14
1880	18900	1RB_50	Bottom	/	20.81	22.0	0.652	0.86	-0.13
1900	19100	100RB	Bottom	/	19.75	21.0	0.575	0.77	-0.01
Body-Worn Test Data									
1880	1880	1RB_50	Front	11mm	24.18	25.0	0.546	0.66	0.02
1900	1900	50RB_0	Front	11mm	23.30	24.0	0.435	0.51	0.03
1860	18700	1RB_50	Rear	10mm	20.85	22.0	0.444	0.58	0.01
1900	19100	50RB_0	Rear	10mm	19.91	21.0	0.334	0.43	-0.02
Sensor off Test Data									
1880	1880	1RB_50	Front	11mm	24.18	25.0	0.546	0.66	0.02
1900	1900	50RB_0	Front	11mm	23.30	24.0	0.435	0.51	0.03
1880	1880	1RB_50	Rear	17mm	24.18	25.0	0.350	0.42	0.07
1900	1900	50RB_0	Rear	17mm	23.30	24.0	0.254	0.30	0.03
1880	1880	1RB_50	Bottom	17mm	24.18	25.0	0.451	0.54	0.09
1900	1900	50RB_0	Bottom	17mm	23.30	24.0	0.324	0.38	0.03

Table 13.13: SAR Values (LTE Band 4 - Head)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.9°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1720	20050	1RB_50	Left Cheek	/	23.77	25.0	0.094	0.13	0.07
1720	20050	50RB_25	Left Cheek	/	22.86	24.0	0.075	0.10	0.03
1720	20050	1RB_50	Left Tilt	/	23.77	25.0	0.157	0.21	0.11
1720	20050	50RB_25	Left Tilt	/	22.86	24.0	0.113	0.15	0.05
1720	20050	1RB_50	Right Cheek	13	23.77	25.0	0.187	0.25	-0.05
1720	20050	50RB_25	Right Cheek	/	22.86	24.0	0.138	0.18	0.01
1720	20050	1RB_50	Right Tilt	/	23.77	25.0	0.157	0.21	0.01
1720	20050	50RB_25	Right Tilt	/	22.86	24.0	0.088	0.11	0.06

SAR Values (LTE Band 4 - Body)

Frequency		Ambient Temperature: 22.4°C		Liquid Temperature: 21.9°C					
MHz	Ch.	Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Hotspot Test Data (10mm)									
1745	20300	1RB_50	Front	/	18.67	20.0	0.120	0.16	0.04
1745	20300	50RB_0	Front	/	17.71	19.0	0.092	0.12	0.16
1745	20300	1RB_50	Rear	/	18.67	20.0	0.222	0.30	0.08
1745	20300	50RB_0	Rear	/	17.71	19.0	0.170	0.23	0.03
1720	20050	1RB_50	Left	/	23.77	25.0	0.065	0.09	0.18
1720	20050	50RB_25	Left	/	22.86	24.0	0.050	0.07	0.05
1720	20050	1RB_50	Right	/	23.77	25.0	0.181	0.24	0.16
1720	20050	50RB_25	Right	/	22.86	24.0	0.140	0.18	0.02
1745	20300	1RB_50	Bottom	/	18.67	20.0	0.371	0.50	-0.10
1745	20300	50RB_0	Bottom	/	17.71	19.0	0.295	0.40	-0.01
Body-Worn Test Data									
1720	20050	1RB_50	Front	11mm	23.77	25.0	0.572	0.76	0.08
1720	20050	50RB_25	Front	11mm	22.86	24.0	0.403	0.52	0.03
1745	20300	1RB_50	Rear	10mm	18.67	20.0	0.222	0.30	0.08
1745	20300	50RB_0	Rear	10mm	17.71	19.0	0.170	0.23	0.03
Sensor off Test Data									
1720	20050	1RB_50	Front	11mm	23.77	25.0	0.572	0.76	0.08
1720	20050	50RB_25	Front	11mm	22.86	24.0	0.403	0.52	0.03
1720	20050	1RB_50	Rear	17mm	23.77	25.0	0.562	0.75	0.00
1720	20050	50RB_25	Rear	17mm	22.86	24.0	0.443	0.58	0.04
1720	20050	1RB_50	Bottom	17mm	23.77	25.0	0.662	0.88	-0.12
1720	20050	50RB_25	Bottom	17mm	22.86	24.0	0.512	0.67	0.09
1745	20300	1RB_50	Bottom	17mm	23.76	25.0	0.657	0.87	-0.03
1732.5	20175	1RB_50	Bottom	14/17mm	23.44	25.0	0.757	1.08	-0.08
1720	20050	100RB	Bottom	17mm	22.81	24.0	0.546	0.72	-0.09

Table 13.14: SAR Values (LTE Band 5 - Head)

Ambient Temperature: 22.2°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
829	20450	1RB_24	Left Cheek	15	23.93	25.0	0.238	0.30	0.17
829	20450	25RB_12	Left Cheek	/	22.93	24.0	0.181	0.23	0.03
829	20450	1RB_24	Left Tilt	/	23.93	25.0	0.118	0.15	0.04
829	20450	25RB_12	Left Tilt	/	22.93	24.0	0.099	0.13	0.09
829	20450	1RB_24	Right Cheek	/	23.93	25.0	0.230	0.29	-0.08
829	20450	25RB_12	Right Cheek	/	22.93	24.0	0.175	0.22	0.16
829	20450	1RB_24	Right Tilt	/	23.93	25.0	0.121	0.15	0.08
829	20450	25RB_12	Right Tilt	/	22.93	24.0	0.097	0.12	0.11

Table 13.15: SAR Values (LTE Band 5 - Body)

Ambient Temperature: 22.2°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
829	20450	1RB_24	Front	/	23.93	25.0	0.229	0.29	-0.12
829	20450	25RB_12	Front	/	22.93	24.0	0.176	0.23	-0.01
829	20450	1RB_24	Rear	16	23.93	25.0	0.326	0.42	-0.13
829	20450	25RB_12	Rear	/	22.93	24.0	0.261	0.33	-0.05
829	20450	1RB_24	Left	/	23.93	25.0	0.271	0.35	0.05
829	20450	25RB_12	Left	/	22.93	24.0	0.209	0.27	0.06
829	20450	1RB_24	Right	/	23.93	25.0	0.264	0.34	0.06
829	20450	25RB_12	Right	/	22.93	24.0	0.203	0.26	0.05
829	20450	1RB_24	Bottom	/	23.93	25.0	0.040	0.05	0.04
829	20450	25RB_12	Bottom	/	22.93	24.0	0.031	0.04	0.04
Body-Worn Test Data									
829	20450	1RB_24	Front	10mm	23.93	25.0	0.229	0.29	-0.12
829	20450	25RB_12	Front	10mm	22.93	24.0	0.176	0.23	-0.01
829	20450	1RB_24	Rear	10mm	23.93	25.0	0.326	0.42	-0.13
829	20450	25RB_12	Rear	10mm	22.93	24.0	0.261	0.33	-0.05

Table 13.16: SAR Values (LTE Band 7 - Head)

Ambient Temperature: 22.5°C					Liquid Temperature: 22.0°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
2560	21350	1RB_50	Left Cheek	/	23.17	24.5	0.037	0.05	0.09
2510	20850	50RB_25	Left Cheek	/	22.23	23.5	0.028	0.04	0.03
2560	21350	1RB_50	Left Tilt	/	23.17	24.5	0.032	0.04	0.02
2510	20850	50RB_25	Left Tilt	/	22.23	23.5	0.034	0.05	-0.04
2560	21350	1RB_50	Right Cheek	17	23.17	24.5	0.069	0.09	0.07
2510	20850	50RB_25	Right Cheek	/	22.23	23.5	0.049	0.07	-0.05
2560	21350	1RB_50	Right Tilt	/	23.17	24.5	0.027	0.04	-0.02
2510	20850	50RB_25	Right Tilt	/	22.23	23.5	0.045	0.06	0.08

Table 13.17: SAR Values (LTE Band 7 - Body)

Ambient Temperature: 22.5°C					Liquid Temperature: 22.0°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
2510	20850	1RB_50	Front	/	19.18	20.5	0.362	0.49	0.02
2510	20850	50RB_25	Front	/	18.15	19.5	0.284	0.39	0.01
2510	20850	1RB_50	Rear	/	19.18	20.5	0.703	0.95	0.02
2510	20850	50RB_25	Rear	/	18.15	19.5	0.538	0.73	0.19
2560	21350	1RB_50	Left	/	23.17	24.5	0.144	0.20	0.18
2510	20850	50RB_25	Left	/	22.23	23.5	0.123	0.16	0.04
2560	21350	1RB_50	Right	/	23.17	24.5	0.142	0.19	0.13
2510	20850	50RB_25	Right	/	22.23	23.5	0.110	0.15	0.01
2510	20850	1RB_50	Bottom	/	19.18	20.5	0.857	1.16	0.13
2510	20850	50RB_25	Bottom	/	18.15	19.5	0.674	0.92	0.13
2560	21350	1RB_50	Rear	/	19.16	20.5	0.681	0.93	-0.03
2535	21100	1RB_50	Rear	/	19.17	20.5	0.689	0.94	-0.05
2510	20850	100RB	Rear	/	18.13	19.5	0.522	0.72	0.07
2560	21350	1RB_50	Bottom	/	19.16	20.5	0.847	1.15	0.09
2535	21100	1RB_50	Bottom	18	19.17	20.5	0.858	1.17	0.09
2560	21350	50RB_25	Bottom	/	18.15	19.5	0.685	0.93	0.15
2535	21100	50RB_25	Bottom	/	18.14	19.5	0.698	0.95	0.15
2510	20850	100RB	Bottom	/	18.13	19.5	0.666	0.91	-0.05
Body-Worn Test Data									
2560	21350	1RB_50	Front	11mm	23.17	24.5	0.576	0.78	0.04
2510	20850	50RB_25	Front	11mm	22.23	23.5	0.488	0.65	0.04
2510	20850	1RB_50	Rear	10mm	19.18	20.5	0.703	0.95	0.02
2510	20850	50RB_25	Rear	10mm	18.15	19.5	0.538	0.73	0.19



2560	21350	1RB_50	Rear	10mm	19.16	20.5	0.681	0.93	-0.03
2535	21100	1RB_50	Rear	10mm	19.17	20.5	0.689	0.94	-0.05
2510	20850	100RB	Rear	10mm	18.13	19.5	0.522	0.72	0.07
Sensor off Test Data									
2560	21350	1RB_50	Front	11mm	23.17	24.5	0.576	0.78	0.04
2510	20850	50RB_25	Front	11mm	22.23	23.5	0.488	0.65	0.04
2560	21350	1RB_50	Rear	17mm	23.17	24.5	0.568	0.77	0.09
2510	20850	50RB_25	Rear	17mm	22.23	23.5	0.474	0.64	0.05
2560	21350	1RB_50	Bottom	17mm	23.17	24.5	0.776	1.05	-0.08
2510	20850	50RB_25	Bottom	17mm	22.23	23.5	0.698	0.94	0.08
2535	21100	1RB_50	Bottom	17mm	23.11	24.5	0.685	0.94	0.13
2510	20850	1RB_50	Bottom	17mm	23.17	24.5	0.664	0.90	0.12
2560	21350	50RB_25	Bottom	17mm	22.22	23.5	0.593	0.80	0.04
2535	21100	50RB_25	Bottom	17mm	22.21	23.5	0.577	0.78	0.12
2510	20850	100RB	Bottom	17mm	22.16	23.5	0.534	0.73	0.11

Table 13.18: SAR Values (LTE Band 12 - Head)

Ambient Temperature: 22.3°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
707.5	23095	1RB_24	Left Cheek	/	23.98	25.0	0.169	0.21	0.05
707.5	23095	25RB_12	Left Cheek	/	22.98	24.0	0.130	0.16	-0.03
707.5	23095	1RB_24	Left Tilt	/	23.98	25.0	0.096	0.12	0.12
707.5	23095	25RB_12	Left Tilt	/	22.98	24.0	0.074	0.09	0.06
707.5	23095	1RB_24	Right Cheek	19	23.98	25.0	0.179	0.23	-0.07
707.5	23095	25RB_12	Right Cheek	/	22.98	24.0	0.137	0.17	-0.12
707.5	23095	1RB_24	Right Tilt	/	23.98	25.0	0.102	0.13	-0.01
707.5	23095	25RB_12	Right Tilt	/	22.98	24.0	0.081	0.10	-0.10

Table 13.19: SAR Values (LTE Band 12 - Body)

Ambient Temperature: 22.3°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
707.5	23095	1RB_24	Front	/	23.98	25.0	0.199	0.25	0.00
707.5	23095	25RB_12	Front	/	22.98	24.0	0.156	0.20	0.03
707.5	23095	1RB_24	Rear	20	23.98	25.0	0.291	0.37	-0.08
707.5	23095	25RB_12	Rear	/	22.98	24.0	0.235	0.30	0.02
707.5	23095	1RB_24	Left	/	23.98	25.0	0.259	0.33	0.05
707.5	23095	25RB_12	Left	/	22.98	24.0	0.203	0.26	0.05
707.5	23095	1RB_24	Right	/	23.98	25.0	0.267	0.34	0.05
707.5	23095	25RB_12	Right	/	22.98	24.0	0.209	0.26	0.05
707.5	23095	1RB_24	Bottom	/	23.98	25.0	0.062	0.08	-0.01
707.5	23095	25RB_12	Bottom	/	22.98	24.0	0.054	0.07	0.14
Body-Worn Test Data									
707.5	23095	1RB_24	Front	10mm	23.98	25.0	0.199	0.25	0.00
707.5	23095	25RB_12	Front	10mm	22.98	24.0	0.156	0.20	0.03
707.5	23095	1RB_24	Rear	10mm	23.98	25.0	0.291	0.37	-0.08
707.5	23095	25RB_12	Rear	10mm	22.98	24.0	0.235	0.30	0.02

Table 13.20: SAR Values (LTE Band 17 - Head)

Ambient Temperature: 22.3°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
710	23790	1RB_24	Left Cheek	/	23.90	25.0	0.180	0.23	0.03
710	23790	25RB_12	Left Cheek	/	22.94	24.0	0.136	0.17	0.05
710	23790	1RB_24	Left Tilt	/	23.90	25.0	0.098	0.13	0.11
710	23790	25RB_12	Left Tilt	/	22.94	24.0	0.077	0.10	0.13
710	23790	1RB_24	Right Cheek	21	23.90	25.0	0.182	0.23	0.05
710	23790	25RB_12	Right Cheek	/	22.94	24.0	0.145	0.19	0.09
710	23790	1RB_24	Right Tilt	/	23.90	25.0	0.104	0.13	0.08
710	23790	25RB_12	Right Tilt	/	22.94	24.0	0.085	0.11	-0.12

Table 13.21: SAR Values (LTE Band 17 - Body)

Ambient Temperature: 22.3°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
710	23790	1RB_24	Front	/	23.90	25.0	0.204	0.26	0.01
710	23790	25RB_12	Front	/	22.94	24.0	0.160	0.20	0.04
710	23790	1RB_24	Rear	22	23.90	25.0	0.319	0.41	0.03
710	23790	25RB_12	Rear	/	22.94	24.0	0.241	0.31	0.01
710	23790	1RB_24	Left	/	23.90	25.0	0.264	0.34	0.04
710	23790	25RB_12	Left	/	22.94	24.0	0.205	0.26	0.07
710	23790	1RB_24	Right	/	23.90	25.0	0.271	0.35	0.05
710	23790	25RB_12	Right	/	22.94	24.0	0.212	0.27	0.06
710	23790	1RB_24	Bottom	/	23.90	25.0	0.069	0.09	0.15
710	23790	25RB_12	Bottom	/	22.94	24.0	0.053	0.07	0.19
Body-Worn Test Data									
710	23790	1RB_24	Front	10mm	23.90	25.0	0.204	0.26	0.01
710	23790	25RB_12	Front	10mm	22.94	24.0	0.160	0.20	0.04
710	23790	1RB_24	Rear	10mm	23.90	25.0	0.319	0.41	0.03
710	23790	25RB_12	Rear	10mm	22.94	24.0	0.241	0.31	0.01

Table 13.22: SAR Values (LTE Band 66 - Head)

Ambient Temperature: 22.6°C					Liquid Temperature: 22.2°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
1770	132572	1RB_50	Left Cheek	/	23.68	25.0	0.183	0.25	0.11
1720	132072	50RB_25	Left Cheek	/	22.66	24.0	0.071	0.10	0.07
1770	132572	1RB_50	Left Tilt	23	23.68	25.0	0.223	0.30	0.04
1720	132072	50RB_25	Left Tilt	/	22.66	24.0	0.117	0.16	0.01
1770	132572	1RB_50	Right Cheek	/	23.68	25.0	0.212	0.29	-0.18
1720	132072	50RB_25	Right Cheek	/	22.66	24.0	0.128	0.17	0.04
1770	132572	1RB_50	Right Tilt	/	23.68	25.0	0.157	0.21	0.18
1720	132072	50RB_25	Right Tilt	/	22.66	24.0	0.087	0.12	0.09

Table 13.23: SAR Values (LTE Band 66 - Body)

Ambient Temperature: 22.6°C					Liquid Temperature: 22.2°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Hotspot Test Data (10mm)									
1770	132572	1RB_50	Front	/	18.80	20.0	0.132	0.17	0.07
1770	132572	50RB_0	Front	/	17.83	19.0	0.101	0.13	0.05
1770	132572	1RB_50	Rear	/	18.80	20.0	0.239	0.32	0.07
1770	132572	50RB_0	Rear	/	17.83	19.0	0.185	0.24	0.03
1770	132572	1RB_50	Left	/	23.68	25.0	0.154	0.21	0.16
1720	132072	50RB_25	Left	/	22.66	24.0	0.119	0.16	0.18
1770	132572	1RB_50	Right	/	23.68	25.0	0.222	0.30	0.19
1720	132072	50RB_25	Right	/	22.66	24.0	0.170	0.23	0.19
1770	132572	1RB_50	Bottom	/	18.80	20.0	0.392	0.52	-0.11
1770	132572	50RB_0	Bottom	/	17.83	19.0	0.307	0.40	-0.09
Body-Worn Test Data									
1770	132572	1RB_50	Front	11mm	23.68	25.0	0.543	0.74	0.07
1720	132572	50RB_25	Front	11mm	22.66	24.0	0.447	0.61	0.07
1770	132572	1RB_50	Rear	10mm	18.80	20.0	0.239	0.32	0.07
1770	132572	50RB_0	Rear	10mm	17.83	19.0	0.185	0.24	0.03
Sensor off Test Data									
1770	132572	1RB_50	Front	11mm	23.68	25.0	0.543	0.74	0.07
1720	132572	50RB_25	Front	11mm	22.66	24.0	0.447	0.61	0.07
1770	132572	1RB_50	Rear	17mm	23.68	25.0	0.433	0.59	0.10
1720	132072	50RB_25	Rear	17mm	22.66	24.0	0.385	0.52	0.12
1770	132572	1RB_50	Bottom	17mm	23.68	25.0	0.623	0.84	0.04
1720	132072	50RB_25	Bottom	17mm	22.66	24.0	0.564	0.77	0.03
1745	132322	1RB_50	Bottom	17mm	23.27	25.0	0.623	0.93	0.06
1720	132072	1RB_50	Bottom	24/17mm	23.51	25.0	0.684	0.96	-0.01
1720	132072	100RB	Bottom	17mm	22.60	24.0	0.503	0.69	0.04

13.3. WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

Table 13.24: SAR Values (WLAN 2.4G - Head)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
2437	6	802.11b	Left Cheek	/	18.09	18.5	0.826	0.91	0.03
2437	6	802.11b	Left Tilt	/	18.09	18.5	0.682	0.75	0.02
2437	6	802.11b	Right Cheek	/	18.09	18.5	0.389	0.43	0.03
2437	6	802.11b	Right Tilt	/	18.09	18.5	0.350	0.38	0.05
2462	11	802.11b	Left Cheek	25	18.06	18.5	0.836	0.93	0.08

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

Table 13.25: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2462	11	Left Cheek	100%	100%	0.93	0.93

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

Table 13.26: SAR Values (WLAN 2.4G - Body)

Ambient Temperature: 22.4°C					Liquid Temperature: 21.8°C				
Frequency		Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.								
Test Data (10mm)									
2437	6	802.11b	Front	/	18.09	18.5	0.176	0.19	0.08
2437	6	802.11b	Rear	26	18.09	18.5	0.355	0.39	0.01
2437	6	802.11b	Left	/	18.09	18.5	0.038	0.04	0.04
2437	6	802.11b	Right	/	18.09	18.5	0.291	0.32	0.07
2437	6	802.11b	Top	/	18.09	18.5	0.201	0.22	0.12

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

Table 13.27: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2437	6	Rear	100%	100%	0.39	0.39

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

14. SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Table 14.1: SAR Measurement Variability for Body – WCDMA Band 4

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
MHz	Ch.		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
1752.6	1513	Bottom	0.901	0.888	1.02	/

Table 14.2: SAR Measurement Variability for Body – LTE Band 7

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
MHz	Ch.		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
2535	21100	Bottom	0.858	0.846	1.01	/

Table 14.3: SAR Measurement Variability for Head – WLAN 2.4G

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
MHz	Ch.		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
2462	11	Left Cheek	0.836	0.821	1.01	/

15. Measurement Uncertainty

15.1. Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	12	N	2	1	1	6.0	6.0	∞
2	Axial isotropy	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	4.3	4.3	∞
3	Hemispherical isotropy	B	9.6	R	$\sqrt{3}$	1	1	4.8	4.8	∞
4	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
5	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
6	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
7	Modulation response	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
8	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
9	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
10	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
11	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
12	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Probe positioned mech. restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
15	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
16	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
17	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
18	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
19	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
20	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
21	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
22	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
23	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{23} c_i^2 u_i^2}$						11.3	11.2	95.5
Expanded uncertainty (Confidence interval of 95 %)		$u_e = 2u_c$						22.6	22.4	