



<FR1 n78_Ant 5_Tablet Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		12.50
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.48		
100	PI/2 BPSK	1	137		11.36		12.50
100	PI/2 BPSK	1	271		11.31		
100	PI/2 BPSK	135	0		11.36		
100	PI/2 BPSK	135	69		11.30		12.50
100	PI/2 BPSK	135	138		11.29		12.50
100	PI/2 BPSK	270	0		11.24		
100	QPSK	1	1		11.35		
100	QPSK	1	137		11.22		12.50
100	QPSK	1	271		11.12		
100	QPSK	135	0		11.11		
100	QPSK	135	69		11.07		12.50
100	QPSK	135	138		11.12		12.50
100	QPSK	270	0		11.20		
100	16QAM	1	1		11.13		
100	64QAM	1	1		11.09		12.50
100	256QAM	1	1		11.07		12.50
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.40	11.43	11.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.26	11.40	11.28	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	11.24	11.38	11.42	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.30	11.36	11.33	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.27	11.35	11.31	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.28	11.35	11.32	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	11.34	11.36	11.35	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.29	11.33	11.31	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	11.28	11.40	11.28	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	11.25	11.36	11.37	



<FR1 n78_Ant 8_Tablet Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.24		
100	PI/2 BPSK	1	137		11.19		12.00
100	PI/2 BPSK	1	271		11.20		
100	PI/2 BPSK	135	0		11.18		12.00
100	PI/2 BPSK	135	69		11.15		12.00
100	PI/2 BPSK	135	138		11.08		12.00
100	PI/2 BPSK	270	0		11.08		
100	QPSK	1	1		11.18		12.00
100	QPSK	1	137		11.05		
100	QPSK	1	271		10.93		
100	QPSK	135	0		10.90		12.00
100	QPSK	135	69		10.88		12.00
100	QPSK	135	138		11.01		12.00
100	QPSK	270	0		10.99		
100	16QAM	1	1		10.86		12.00
100	64QAM	1	1		10.90		12.00
100	256QAM	1	1		10.88		12.00
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.25	11.19	11.22	12.00
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.10	11.08	11.05	12.00
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	11.08	11.05	11.03	12.00
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.14	11.16	11.10	12.00
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.11	11.07	11.05	12.00
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.14	11.13	11.12	12.00
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	11.14	11.14	11.11	12.00
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.13	11.03	11.12	12.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	11.02	11.10	10.98	12.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	10.99	11.05	11.06	12.00



<FR1 n78_HPUE_Ant 5_Laptop Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.05		27.00
100	PI/2 BPSK	1	137		25.70		
100	PI/2 BPSK	1	271		25.28		
100	PI/2 BPSK	135	0		25.84		26.50
100	PI/2 BPSK	135	69		25.81		27.00
100	PI/2 BPSK	135	138		25.13		26.50
100	PI/2 BPSK	270	0		25.15		
100	QPSK	1	1		25.94		27.00
100	QPSK	1	137		25.69		
100	QPSK	1	271		25.08		
100	QPSK	135	0		24.71		26.00
100	QPSK	135	69		25.71		27.00
100	QPSK	135	138		24.67		26.00
100	QPSK	270	0		24.63		
100	16QAM	1	1		25.26		26.00
100	64QAM	1	1		24.31		24.50
100	256QAM	1	1		22.31		22.50
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.93	26.01	25.96	27.00
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.88	25.95	25.90	27.00
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.83	25.95	25.90	27.00
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.84	25.94	25.90	27.00
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.88	25.94	25.86	27.00
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.88	25.92	25.91	27.00
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.87	25.96	25.88	27.00
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.84	25.95	25.90	27.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.87	25.94	25.90	27.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.00	26.00	26.02	27.00



<FR1 n78_HPUE_Ant 8_Laptop Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.15		
100	PI/2 BPSK	1	137		25.78		27.00
100	PI/2 BPSK	1	271		25.37		
100	PI/2 BPSK	135	0		25.91		
100	PI/2 BPSK	135	69		25.85		26.50
100	PI/2 BPSK	135	138		25.23		27.00
100	PI/2 BPSK	270	0		25.21		
100	QPSK	1	1		26.02		
100	QPSK	1	137		25.77		27.00
100	QPSK	1	271		25.13		
100	QPSK	135	0		24.80		
100	QPSK	135	69		25.81		26.00
100	QPSK	135	138		24.72		27.00
100	QPSK	270	0		24.73		
100	16QAM	1	1		25.32		
100	64QAM	1	1		24.40		26.00
100	256QAM	1	1		22.36		24.50
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.01	26.09	26.05	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.02	26.06	26.06	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.02	26.05	26.09	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.02	26.07	26.11	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.02	26.09	26.05	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.06	26.02	26.05	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.10	26.03	26.06	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.06	26.06	26.10	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.02	26.01	26.11	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.02	26.06	26.05	



<FR1 n78_HPUE_Ant 5_Tablet Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.25		
100	PI/2 BPSK	1	137		13.98		15.50
100	PI/2 BPSK	1	271		14.03		
100	PI/2 BPSK	135	0		14.21		
100	PI/2 BPSK	135	69		14.02		15.50
100	PI/2 BPSK	135	138		14.03		15.50
100	PI/2 BPSK	270	0		14.11		
100	QPSK	1	1		13.83		
100	QPSK	1	137		13.86		15.50
100	QPSK	1	271		13.74		
100	QPSK	135	0		13.92		
100	QPSK	135	69		13.87		15.50
100	QPSK	135	138		13.83		15.50
100	QPSK	270	0		13.89		
100	16QAM	1	1		13.77		
100	64QAM	1	1		13.86		15.50
100	256QAM	1	1		13.65		15.50
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.15	14.11	14.13	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.08	14.07	14.06	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.02	14.01	14.13	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.12	14.08	14.10	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.11	14.15	14.05	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.13	14.12	14.10	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.12	14.10	14.06	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.05	14.10	14.11	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.10	14.12	14.10	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.08	14.12	14.10	



FCC SAR TEST REPORT

Report No. : FA490504A

<FR1 n78_HPUE_Ant 8_Tablet Mode>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.00
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.25		
100	PI/2 BPSK	1	137		14.22		15.00
100	PI/2 BPSK	1	271		14.20		
100	PI/2 BPSK	135	0		14.21		
100	PI/2 BPSK	135	69		14.20		15.00
100	PI/2 BPSK	135	138		14.11		15.00
100	PI/2 BPSK	270	0		14.11		
100	QPSK	1	1		14.21		
100	QPSK	1	137		14.08		15.00
100	QPSK	1	271		13.96		
100	QPSK	135	0		13.93		
100	QPSK	135	69		13.91		15.00
100	QPSK	135	138		14.04		15.00
100	QPSK	270	0		14.02		
100	16QAM	1	1		13.89		
100	64QAM	1	1		13.93		15.00
100	256QAM	1	1		13.91		15.00
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.22	14.20	14.24	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.13	14.21	14.08	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.10	14.20	14.05	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.17	14.19	14.13	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.13	14.19	14.08	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.17	14.16	14.15	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.17	14.17	14.15	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.16	14.16	14.15	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.15	14.13	14.11	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.12	14.18	14.19	

**<FR1 n77/n78_Ant 5_Laptop Mode>Part 96**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	24.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	22.00	22.67	21.94	
100	PI/2 BPSK	1	137	21.93	22.53	21.87	23.50
100	PI/2 BPSK	1	271	21.48	22.05	21.36	
100	PI/2 BPSK	135	0	21.79	22.65	21.67	
100	PI/2 BPSK	135	69	22.05	22.38	22.09	23.50
100	PI/2 BPSK	135	138	21.71	22.37	21.70	
100	PI/2 BPSK	270	0	21.75	22.39	21.72	
100	QPSK	1	1	22.08	22.55	22.08	24.00
100	QPSK	1	137	22.12	22.49	22.14	
100	QPSK	1	271	22.02	22.14	22.05	
100	QPSK	135	0	21.83	22.40	21.77	23.00
100	QPSK	135	69	22.01	22.55	22.03	
100	QPSK	135	138	21.71	22.35	21.69	
100	QPSK	270	0	21.69	22.36	21.68	23.00
100	16QAM	1	1	21.40	22.00	21.25	
100	64QAM	1	1	20.80	21.37	20.68	
100	256QAM	1	1	18.74	19.37	18.70	19.50
Channel				639668	641666	643666	24.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	22.08	22.61	22.07	
Channel				639334	641666	644000	24.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	22.03	22.59	22.18	
Channel				639000	641666	644332	24.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	22.05	22.62	22.14	
Channel				638668	641666	644666	24.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	22.01	22.59	22.09	
Channel				638334	641666	645000	24.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	22.03	22.57	22.18	
Channel				638000	641666	645332	24.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.14	22.57	22.01	
Channel				637668	641666	645666	24.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	22.11	22.59	22.09	
Channel				637334	641666	646000	24.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	22.03	22.60	22.07	
Channel				637168	641666	646166	24.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	22.13	22.62	22.06	
Channel				637000	641666	646332	24.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	22.12	22.48	22.10	

<FR1 n77/n78_Ant 8_Laptop Mode>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	24.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	22.10	22.67	22.04	
100	PI/2 BPSK	1	137	21.99	22.60	21.97	23.50
100	PI/2 BPSK	1	271	21.55	22.15	21.43	
100	PI/2 BPSK	135	0	21.88	22.65	21.72	
100	PI/2 BPSK	135	69	22.05	22.60	22.07	24.00
100	PI/2 BPSK	135	138	21.79	22.44	21.80	
100	PI/2 BPSK	270	0	21.82	22.47	21.78	
100	QPSK	1	1	22.04	22.63	22.03	24.00
100	QPSK	1	137	22.17	22.54	22.00	
100	QPSK	1	271	22.09	22.20	22.01	
100	QPSK	135	0	21.88	22.47	21.83	23.00
100	QPSK	135	69	22.04	22.63	22.00	
100	QPSK	135	138	21.80	22.45	21.74	
100	QPSK	270	0	21.78	22.45	21.77	23.00
100	16QAM	1	1	21.49	22.06	21.33	
100	64QAM	1	1	20.86	21.45	20.75	
100	256QAM	1	1	18.83	19.46	18.76	19.50
Channel				639668	641666	643666	24.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	22.04	22.58	22.03	
Channel				639334	641666	644000	24.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	22.10	22.64	22.00	
Channel				639000	641666	644332	24.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	22.06	22.63	22.01	
Channel				638668	641666	644666	24.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	22.08	22.59	22.04	
Channel				638334	641666	645000	24.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	22.10	22.65	22.02	
Channel				638000	641666	645332	24.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.08	22.58	22.04	
Channel				637668	641666	645666	24.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	22.05	22.59	22.02	
Channel				637334	641666	646000	24.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	22.02	22.61	22.03	
Channel				637168	641666	646166	24.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	22.10	22.58	22.04	
Channel				637000	641666	646332	24.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	22.02	22.58	22.02	

<FR1 n77/n78_Ant 5_Tablet Mode>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	11.89	11.90	11.71	12.50
100	PI/2 BPSK	1	137	11.75	11.85	11.55	
100	PI/2 BPSK	1	271	11.70	11.82	11.52	
100	PI/2 BPSK	135	0	11.69	11.74	11.49	12.50
100	PI/2 BPSK	135	69	11.68	11.70	11.50	12.50
100	PI/2 BPSK	135	138	11.73	11.73	11.54	12.50
100	PI/2 BPSK	270	0	11.65	11.71	11.53	
100	QPSK	1	1	11.55	11.67	11.43	12.50
100	QPSK	1	137	11.56	11.67	11.36	
100	QPSK	1	271	11.50	11.47	11.30	
100	QPSK	135	0	11.50	11.49	11.20	12.50
100	QPSK	135	69	11.47	11.52	11.22	12.50
100	QPSK	135	138	11.40	11.57	11.28	12.50
100	QPSK	270	0	11.56	11.60	11.26	
100	16QAM	1	1	11.47	11.54	11.32	12.50
100	64QAM	1	1	11.39	11.54	11.14	12.50
100	256QAM	1	1	11.39	11.42	11.13	12.50
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	11.78	11.76	11.63	12.50
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	11.81	11.78	11.62	12.50
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	11.80	11.75	11.60	12.50
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	11.81	11.77	11.57	12.50
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	11.75	11.76	11.62	12.50
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	11.80	11.76	11.58	12.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	11.78	11.81	11.62	12.50
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	11.77	11.77	11.65	12.50
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	11.76	11.70	11.62	12.50
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	11.79	11.82	11.57	12.50

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	12.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	11.22	11.24	11.12	
100	PI/2 BPSK	1	137	11.11	11.15	10.91	12.00
100	PI/2 BPSK	1	271	10.98	11.16	10.94	
100	PI/2 BPSK	135	0	11.03	11.15	10.92	
100	PI/2 BPSK	135	69	11.05	11.14	10.97	12.00
100	PI/2 BPSK	135	138	10.99	11.00	10.89	12.00
100	PI/2 BPSK	270	0	10.98	11.02	10.95	
100	QPSK	1	1	10.88	11.03	10.75	
100	QPSK	1	137	10.89	11.00	10.75	12.00
100	QPSK	1	271	10.74	10.85	10.61	
100	QPSK	135	0	10.81	10.86	10.55	
100	QPSK	135	69	10.87	10.83	10.64	12.00
100	QPSK	135	138	10.70	10.89	10.65	12.00
100	QPSK	270	0	10.81	10.88	10.73	
100	16QAM	1	1	10.86	10.79	10.78	
100	64QAM	1	1	10.69	10.89	10.61	12.00
100	256QAM	1	1	10.61	10.77	10.55	12.00
Channel				639668	641666	643666	12.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	11.09	11.07	11.04	
Channel				639334	641666	644000	12.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	11.09	11.09	10.98	
Channel				639000	641666	644332	12.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	11.05	11.03	10.97	
Channel				638668	641666	644666	12.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	11.13	11.11	10.99	
Channel				638334	641666	645000	12.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	11.08	11.12	11.01	
Channel				638000	641666	645332	12.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	11.07	11.09	11.03	
Channel				637668	641666	645666	12.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	11.12	11.16	11.00	
Channel				637334	641666	646000	12.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	11.02	11.06	10.97	
Channel				637168	641666	646166	12.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	10.99	11.01	10.88	
Channel				637000	641666	646332	12.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	11.07	11.11	11.04	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	27.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	25.00	25.64	25.13	
100	PI/2 BPSK	1	137	25.02	25.53	25.15	26.50
100	PI/2 BPSK	1	271	25.08	25.08	25.03	
100	PI/2 BPSK	135	0	24.67	25.56	24.69	
100	PI/2 BPSK	135	69	25.03	25.47	25.10	26.50
100	PI/2 BPSK	135	138	24.74	25.38	24.75	
100	PI/2 BPSK	270	0	24.82	25.36	24.75	
100	QPSK	1	1	25.18	25.53	25.11	27.00
100	QPSK	1	137	25.09	25.35	25.06	
100	QPSK	1	271	25.04	25.11	25.02	
100	QPSK	135	0	24.78	25.39	24.76	26.00
100	QPSK	135	69	25.03	25.52	25.05	
100	QPSK	135	138	24.75	25.35	24.62	
100	QPSK	270	0	24.75	25.41	24.73	24.50
100	16QAM	1	1	24.31	25.00	24.25	
100	64QAM	1	1	23.68	24.34	23.66	
100	256QAM	1	1	21.67	22.29	21.64	22.50
Channel				639668	641666	643666	27.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	25.06	25.52	25.10	
Channel				639334	641666	644000	27.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	25.05	25.45	25.04	
Channel				639000	641666	644332	27.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	25.09	25.43	25.02	
Channel				638668	641666	644666	27.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	25.10	25.47	25.10	
Channel				638334	641666	645000	27.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	25.10	25.44	25.09	
Channel				638000	641666	645332	27.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	25.09	25.46	25.11	
Channel				637668	641666	645666	27.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	25.07	25.46	25.05	
Channel				637334	641666	646000	27.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	25.09	25.43	25.11	
Channel				637168	641666	646166	27.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	25.11	25.46	25.04	
Channel				637000	641666	646332	27.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	25.11	25.56	25.05	

<FR1 n77/n78_HPUE_Ant 8_Laptop Mode>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	27.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	25.08	25.64	25.03	
100	PI/2 BPSK	1	137	25.08	25.60	25.20	26.50
100	PI/2 BPSK	1	271	25.00	25.14	25.00	
100	PI/2 BPSK	135	0	24.72	25.56	24.74	
100	PI/2 BPSK	135	69	25.03	25.50	25.17	26.50
100	PI/2 BPSK	135	138	24.79	25.43	24.82	
100	PI/2 BPSK	270	0	24.87	25.45	24.82	
100	QPSK	1	1	25.07	25.61	25.19	27.00
100	QPSK	1	137	25.05	25.45	25.14	
100	QPSK	1	271	25.09	25.21	25.07	
100	QPSK	135	0	24.83	25.48	24.82	26.00
100	QPSK	135	69	25.02	25.61	25.03	
100	QPSK	135	138	24.85	25.41	24.70	
100	QPSK	270	0	24.83	25.46	24.82	24.50
100	16QAM	1	1	24.41	25.06	24.35	
100	64QAM	1	1	23.78	24.39	23.74	
100	256QAM	1	1	21.77	22.39	21.69	22.50
Channel				639668	641666	643666	27.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	25.02	25.62	25.08	
Channel				639334	641666	644000	27.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	25.02	25.60	25.00	
Channel				639000	641666	644332	27.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	25.04	25.62	25.00	
Channel				638668	641666	644666	27.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	25.06	25.58	25.03	
Channel				638334	641666	645000	27.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	25.00	25.58	25.05	
Channel				638000	641666	645332	27.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	25.00	25.60	25.07	
Channel				637668	641666	645666	27.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	25.01	25.62	25.01	
Channel				637334	641666	646000	27.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	25.07	25.56	25.01	
Channel				637168	641666	646166	27.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	25.03	25.54	25.00	
Channel				637000	641666	646332	27.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	25.01	25.56	25.04	



<FR1 n77/n78_HPUE_Ant 5_Tablet Mode>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	15.50
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	14.44	14.66	14.26	
100	PI/2 BPSK	1	137	14.21	14.25	14.07	15.50
100	PI/2 BPSK	1	271	14.18	14.32	13.99	
100	PI/2 BPSK	135	0	14.34	14.60	14.21	
100	PI/2 BPSK	135	69	14.24	14.29	14.23	15.50
100	PI/2 BPSK	135	138	14.26	14.20	14.11	
100	PI/2 BPSK	270	0	14.23	14.29	14.22	
100	QPSK	1	1	14.01	14.23	14.00	15.50
100	QPSK	1	137	14.09	14.12	13.87	
100	QPSK	1	271	13.81	14.07	13.73	
100	QPSK	135	0	13.98	14.01	13.86	15.50
100	QPSK	135	69	14.02	13.97	13.86	
100	QPSK	135	138	13.90	14.21	13.74	
100	QPSK	270	0	13.90	14.16	13.88	15.50
100	16QAM	1	1	14.00	13.89	13.94	
100	64QAM	1	1	13.82	14.15	13.89	
100	256QAM	1	1	13.72	13.98	13.92	15.50
Channel				639668	641666	643666	15.50
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	14.32	14.55	14.21	
Channel				639334	641666	644000	15.50
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	14.30	14.42	14.22	
Channel				639000	641666	644332	15.50
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	14.28	14.35	14.18	
Channel				638668	641666	644666	15.50
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	14.25	14.30	14.20	
Channel				638334	641666	645000	15.50
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	14.18	14.25	14.10	
Channel				638000	641666	645332	15.50
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	14.23	14.25	14.09	
Channel				637668	641666	645666	15.50
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	14.26	14.29	14.13	
Channel				637334	641666	646000	15.50
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	14.21	14.30	14.06	
Channel				637168	641666	646166	15.50
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	14.25	14.22	14.10	
Channel				637000	641666	646332	15.50
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	14.21	14.27	14.10	

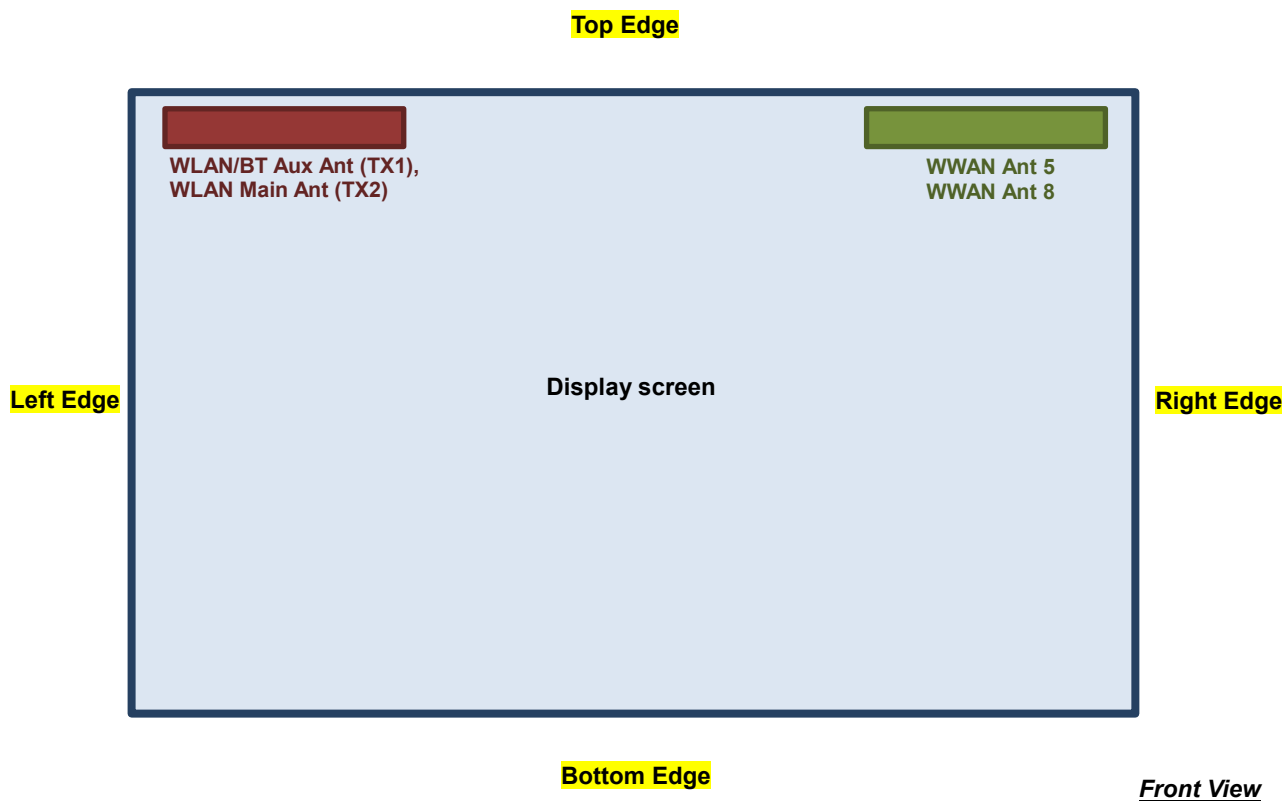


<FR1 n77/n78_HPUE_Ant 8_Tablet Mode>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	15.00
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	14.59	14.66	14.40	
100	PI/2 BPSK	1	137	14.54	14.58	14.34	15.00
100	PI/2 BPSK	1	271	14.41	14.59	14.37	
100	PI/2 BPSK	135	0	14.46	14.54	14.35	
100	PI/2 BPSK	135	69	14.48	14.52	14.40	15.00
100	PI/2 BPSK	135	138	14.42	14.43	14.32	15.00
100	PI/2 BPSK	270	0	14.41	14.45	14.38	
100	QPSK	1	1	14.31	14.46	14.18	
100	QPSK	1	137	14.32	14.43	14.18	15.00
100	QPSK	1	271	14.17	14.28	14.04	
100	QPSK	135	0	14.24	14.29	13.98	
100	QPSK	135	69	14.30	14.26	14.07	15.00
100	QPSK	135	138	14.13	14.32	14.08	15.00
100	QPSK	270	0	14.24	14.31	14.16	
100	16QAM	1	1	14.29	14.22	14.21	
100	64QAM	1	1	14.12	14.32	14.04	15.00
100	256QAM	1	1	14.04	14.20	13.98	15.00
Channel				639668	641666	643666	15.00
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	14.52	14.59	14.47	
Channel				639334	641666	644000	15.00
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	14.52	14.52	14.41	
Channel				639000	641666	644332	15.00
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	14.50	14.50	14.40	
Channel				638668	641666	644666	15.00
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	14.56	14.54	14.42	
Channel				638334	641666	645000	15.00
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	14.51	14.55	14.44	
Channel				638000	641666	645332	15.00
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	14.50	14.52	14.46	
Channel				637668	641666	645666	15.00
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	14.56	14.59	14.43	
Channel				637334	641666	646000	15.00
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	14.55	14.59	14.40	
Channel				637168	641666	646166	15.00
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	14.52	14.54	14.41	
Channel				637000	641666	646332	15.00
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	14.50	14.54	14.47	

13. Antenna Location

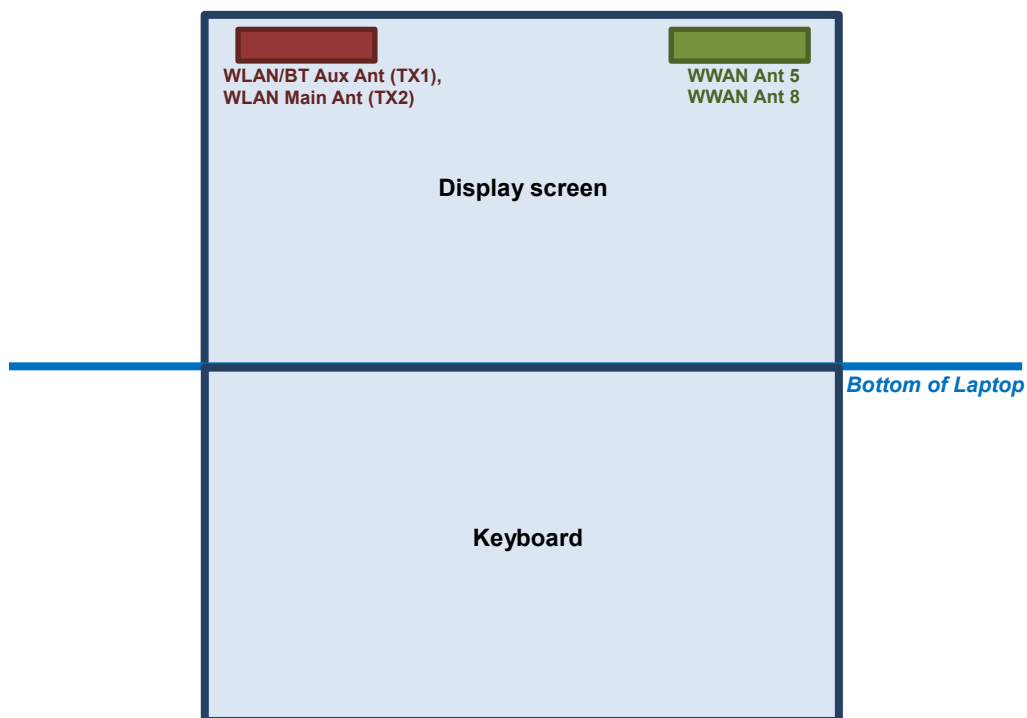
<Tablet Mode>



The separation distance for antenna to edge :

Antenna	To Top Edge (mm)	To Right Edge (mm)	To Bottom Edge (mm)	To Left Edge (mm)
WWAN Antenna 5	< 5	13.1	210.3	198.9
WWAN Antenna 8	< 5	13.1	210.3	198.9
WLAN Main Antenna (TX2)	< 5	199.6	210.3	12.4
WLAN/BT Aux Antenna (TX1)	< 5	199.6	210.3	12.4

<Laptop Mode>



The separation distance for antenna to edge :

Antenna	To Bottom of Laptop (mm)
WWAN Antenna 5	210.3
WWAN Antenna 8	210.3
WLAN Main Antenna (TX2)	210.3
WLAN/BT Aux Antenna (TX1)	210.3

<SAR test exclusion table>
General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(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
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

WWAN Ant 8

Exposure Position	Wireless Interface	WCDMA Band IV	WCDMA Band II	LTE Band 4	LTE /FR1 Band 66	LTE /FR1 Band 2	LTE /FR1 Band 25	LTE /FR1 Band 30	LTE /FR1 Band 7	LTE /FR1 Band 38	LTE /FR1 Band 41	LTE Band 42	LTE Band 43	LTE/FR1 Band 48	LTE Band n77	LTE Band n78
	Calculated Frequency (MHz)	1750	1907	1754	1779	1909	1914	2312	2567	2617	2687	3597	3697	3697	3980	3800
	Maximum power (dBm)	24.5	24.5	24.0	24.0	24.0	24.0	23.0	24.0	24.0	27.0	22.0	22.0	22.0	27.0	27.0
	Maximum rated power(mW)	281.84	281.84	251.19	251.19	251.19	251.19	199.53	251.19	251.19	501.19	158.49	158.49	158.49	501.19	501.19
Back	Separation distance(mm)	12.9														
	exclusion threshold	28.9	30.2	25.8	26.0	26.9	26.9	23.5	31.2	31.5	63.7	23.3	23.6	23.6	77.5	75.7
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Top Edge	Separation distance(mm)	5.0														
	exclusion threshold	74.6	77.8	66.5	67.0	69.4	69.5	60.7	80.5	81.3	164.3	60.1	61.0	61.0	200.0	195.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Right Edge	Separation distance(mm)	13.1														
	exclusion threshold	28.4	29.6	25.3	25.5	26.4	26.5	23.1	30.6	30.9	62.5	22.9	23.2	23.2	76.1	74.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Separation distance(mm)	210.3														
	exclusion threshold	1716.0	1711.0	1716.0	1715.0	1711.0	1711.0	1701.0	1696.0	1695.0	1694.0	1682.0	1681.0	1681.0	1678.0	1679.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Left Edge	Separation distance(mm)	198.9														
	exclusion threshold	1602.0	1598.0	1602.0	1601.0	1598.0	1597.0	1588.0	1583.0	1582.0	1581.0	1568.0	1567.0	1567.0	1564.0	1566.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom Side	Separation distance(mm)	219.7														
	exclusion threshold	1810.0	1805.0	1810.0	1809.0	1805.0	1805.0	1795.0	1790.0	1790.0	1788.0	1776.0	1775.0	1775.0	1772.0	1774.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

**WWAN Ant 5**

Exposure Position	Wireless Interface	WCDMA Band V	LTE /FR1 Band 71	LTE /FR1 Band 12	LTE Band 13	LTE /FR1 Band 14	LTE Band 17	LTE /FR1 Band 5	LTE /FR1 Band 26	FR1 Band 2	LTE /FR1 Band 25	FR1 Band 38	LTE /FR1 Band 41	FR1 Band 48	FR1 Band n77	FR1 Band n78
	Calculated Frequency (MHz)	846	695	715	784	795	713	848	848	1909	1914	2617	2687	3697	3980	3800
	Maximum power (dBm)	24.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.0	27.0	27.0
	Maximum rated power(mW)	281.84	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	158.49	501.19	501.19
Back	Separation distance(mm)	12.9														
	exclusion threshold	20.1	16.2	16.5	17.2	17.4	16.4	17.9	17.9	26.9	26.9	31.5	31.9	23.6	77.5	75.7
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Top Edge	Separation distance(mm)	5.0														
	exclusion threshold	51.9	41.9	42.5	44.5	44.8	42.4	46.3	46.3	69.4	69.5	81.3	82.4	61.0	200.0	195.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Right Edge	Separation distance(mm)	13.1														
	exclusion threshold	19.7	15.9	16.2	16.9	17.1	16.1	17.6	17.6	26.4	26.5	30.9	31.3	23.2	76.1	74.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Separation distance(mm)	210.3														
	exclusion threshold	1067.0	922.0	941.0	1007.0	1018.0	939.0	1069.0	1069.0	1711.0	1711.0	1695.0	1694.0	1681.0	1678.0	1679.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Left Edge	Separation distance(mm)	198.9														
	exclusion threshold	1003.0	870.0	887.0	948.0	957.0	885.0	1005.0	1005.0	1598.0	1597.0	1582.0	1581.0	1567.0	1564.0	1566.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom Side	Separation distance(mm)	219.7														
	exclusion threshold	1120.0	966.0	986.0	1056.0	1068.0	984.0	1122.0	1122.0	1805.0	1805.0	1790.0	1788.0	1775.0	1772.0	1774.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

14. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - c. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission

14.1 Body SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
1	WCDMA II_Ant 8	RMC 12.2Kbps	Back	0mm	Tablet	9400	1880	Vendor 2	17.21	17.50	1.069	0.03	0.115	0.123
	WCDMA II_Ant 8	RMC 12.2Kbps	Top Edge	0mm	Tablet	9400	1880	Vendor 2	17.21	17.50	1.069	0	0.690	0.738
	WCDMA II_Ant 8	RMC 12.2Kbps	Right Edge	0mm	Tablet	9400	1880	Vendor 2	17.21	17.50	1.069	-0.08	0.674	0.721
	WCDMA II_Ant 8	RMC 12.2Kbps	Top Edge	0mm	Tablet	9400	1880	Vendor 1	17.21	17.50	1.069	0.1	0.480	0.513
2	WCDMA IV_Ant 8	RMC 12.2Kbps	Back	0mm	Tablet	1413	1732.6	Vendor 2	15.80	16.50	1.175	0.08	0.140	0.164
	WCDMA IV_Ant 8	RMC 12.2Kbps	Top Edge	0mm	Tablet	1413	1732.6	Vendor 2	15.80	16.50	1.175	-0.01	0.622	0.731
	WCDMA IV_Ant 8	RMC 12.2Kbps	Right Edge	0mm	Tablet	1413	1732.6	Vendor 2	15.80	16.50	1.175	-0.03	0.025	0.029
	WCDMA IV_Ant 8	RMC 12.2Kbps	Top Edge	0mm	Tablet	1413	1732.6	Vendor 1	15.80	16.50	1.175	0.14	0.585	0.687
3	WCDMA V_Ant 5	RMC 12.2Kbps	Back	0mm	Tablet	4182	836.4	Vendor 2	16.83	17.50	1.167	0.14	0.086	0.100
	WCDMA V_Ant 5	RMC 12.2Kbps	Top Edge	0mm	Tablet	4182	836.4	Vendor 2	16.83	17.50	1.167	-0.02	0.607	0.708
	WCDMA V_Ant 5	RMC 12.2Kbps	Right Edge	0mm	Tablet	4182	836.4	Vendor 2	16.83	17.50	1.167	0.17	0.062	0.072
	WCDMA V_Ant 5	RMC 12.2Kbps	Top Edge	0mm	Tablet	4182	836.4	Vendor 1	16.83	17.50	1.167	-0.05	0.440	0.513



<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	21100	2535	Vendor 2	13.88	14.00	1.028	0.04	0.079	0.081
	LTE Band 7_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	21100	2535	Vendor 2	13.66	14.00	1.081	0.03	0.068	0.074
4	LTE Band 7_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	21100	2535	Vendor 2	13.88	14.00	1.028	-0.08	0.717	0.737
	LTE Band 7_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	21100	2535	Vendor 2	13.66	14.00	1.081	-0.08	0.656	0.709
	LTE Band 7_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	21100	2535	Vendor 2	13.88	14.00	1.028	-0.08	0.026	0.027
	LTE Band 7_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	21100	2535	Vendor 2	13.66	14.00	1.081	-0.08	0.022	0.024
	LTE Band 7_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	21100	2535	Vendor 1	13.88	14.00	1.028	-0.09	0.478	0.491
	LTE Band 12_Ant 5	10M	QPSK	1	0	Back	0mm	Tablet	23095	707.5	Vendor 2	17.58	18.00	1.102	0.18	0.115	0.127
	LTE Band 12_Ant 5	10M	QPSK	25	0	Back	0mm	Tablet	23095	707.5	Vendor 2	17.54	18.00	1.112	0.08	0.102	0.113
5	LTE Band 12_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23095	707.5	Vendor 2	17.58	18.00	1.102	-0.11	0.675	0.744
	LTE Band 12_Ant 5	10M	QPSK	25	0	Top Edge	0mm	Tablet	23095	707.5	Vendor 2	17.54	18.00	1.112	-0.17	0.650	0.723
	LTE Band 12_Ant 5	10M	QPSK	1	0	Right Edge	0mm	Tablet	23095	707.5	Vendor 2	17.58	18.00	1.102	-0.1	0.195	0.215
	LTE Band 12_Ant 5	10M	QPSK	25	0	Right Edge	0mm	Tablet	23095	707.5	Vendor 2	17.54	18.00	1.112	-0.03	0.190	0.211
	LTE Band 12_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23095	707.5	Vendor 1	17.58	18.00	1.102	0.07	0.595	0.655
	LTE Band 13_Ant 5	10M	QPSK	1	0	Back	0mm	Tablet	23230	782	Vendor 2	19.35	19.50	1.035	-0.15	0.069	0.071
	LTE Band 13_Ant 5	10M	QPSK	25	0	Back	0mm	Tablet	23230	782	Vendor 2	19.25	19.50	1.059	-0.05	0.064	0.068
6	LTE Band 13_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23230	782	Vendor 2	19.35	19.50	1.035	0	0.723	0.748
	LTE Band 13_Ant 5	10M	QPSK	25	0	Top Edge	0mm	Tablet	23230	782	Vendor 2	19.25	19.50	1.059	0.18	0.704	0.746
	LTE Band 13_Ant 5	10M	QPSK	1	0	Right Edge	0mm	Tablet	23230	782	Vendor 2	19.35	19.50	1.035	0.07	0.051	0.053
	LTE Band 13_Ant 5	10M	QPSK	25	0	Right Edge	0mm	Tablet	23230	782	Vendor 2	19.25	19.50	1.059	0.14	0.047	0.050
	LTE Band 13_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23230	782	Vendor 1	19.35	19.50	1.035	-0.18	0.519	0.537
	LTE Band 14_Ant 5	10M	QPSK	1	0	Back	0mm	Tablet	23330	793	Vendor 2	17.62	18.50	1.225	0.11	0.070	0.086
	LTE Band 14_Ant 5	10M	QPSK	25	0	Back	0mm	Tablet	23330	793	Vendor 2	17.58	18.50	1.236	-0.05	0.064	0.079
7	LTE Band 14_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23330	793	Vendor 2	17.62	18.50	1.225	-0.12	0.602	0.737
	LTE Band 14_Ant 5	10M	QPSK	25	0	Top Edge	0mm	Tablet	23330	793	Vendor 2	17.58	18.50	1.236	0.01	0.587	0.726
	LTE Band 14_Ant 5	10M	QPSK	1	0	Right Edge	0mm	Tablet	23330	793	Vendor 2	17.62	18.50	1.225	-0.17	0.040	0.049
	LTE Band 14_Ant 5	10M	QPSK	25	0	Right Edge	0mm	Tablet	23330	793	Vendor 2	17.58	18.50	1.236	0.1	0.032	0.040
	LTE Band 14_Ant 5	10M	QPSK	1	0	Top Edge	0mm	Tablet	23330	793	Vendor 1	17.62	18.50	1.225	-0.08	0.597	0.731
	LTE Band 25_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	26340	1880	Vendor 2	16.05	16.50	1.109	0.18	0.183	0.203
	LTE Band 25_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	26340	1880	Vendor 2	15.83	16.50	1.167	-0.01	0.170	0.198
8	LTE Band 25_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	26340	1880	Vendor 2	16.05	16.50	1.109	0.02	0.657	0.729
	LTE Band 25_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	26340	1880	Vendor 2	15.83	16.50	1.167	-0.08	0.584	0.681
	LTE Band 25_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	26340	1880	Vendor 2	16.05	16.50	1.109	-0.08	0.039	0.043
	LTE Band 25_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	26340	1880	Vendor 2	15.83	16.50	1.167	0.05	0.034	0.040
	LTE Band 25_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	26340	1880	Vendor 1	16.05	16.50	1.109	-0.13	0.620	0.688
	LTE Band 26_Ant 5	15M	QPSK	1	0	Back	0mm	Tablet	26865	831.5	Vendor 2	16.10	17.00	1.230	-0.03	0.087	0.107
	LTE Band 26_Ant 5	15M	QPSK	36	0	Back	0mm	Tablet	26865	831.5	Vendor 2	15.98	17.00	1.265	0.13	0.080	0.101
9	LTE Band 26_Ant 5	15M	QPSK	1	0	Top Edge	0mm	Tablet	26865	831.5	Vendor 2	16.10	17.00	1.230	-0.1	0.577	0.710
	LTE Band 26_Ant 5	15M	QPSK	36	0	Top Edge	0mm	Tablet	26865	831.5	Vendor 2	15.98	17.00	1.265	0.12	0.558	0.706
	LTE Band 26_Ant 5	15M	QPSK	1	0	Right Edge	0mm	Tablet	26865	831.5	Vendor 2	16.10	17.00	1.230	-0.07	0.062	0.076
	LTE Band 26_Ant 5	15M	QPSK	36	0	Right Edge	0mm	Tablet	26865	831.5	Vendor 2	15.98	17.00	1.265	0.03	0.057	0.072
	LTE Band 26_Ant 5	15M	QPSK	1	0	Top Edge	0mm	Tablet	26865	831.5	Vendor 1	16.10	17.00	1.230	0.05	0.556	0.684
	LTE Band 30_Ant 8	10M	QPSK	1	0	Back	0mm	Tablet	27710	2310	Vendor 2	16.05	16.50	1.109	0.16	0.076	0.084
	LTE Band 30_Ant 8	10M	QPSK	25	0	Back	0mm	Tablet	27710	2310	Vendor 2	15.90	16.50	1.148	0.19	0.071	0.082
10	LTE Band 30_Ant 8	10M	QPSK	1	0	Top Edge	0mm	Tablet	27710	2310	Vendor 2	16.05	16.50	1.109	-0.18	0.681	0.755
	LTE Band 30_Ant 8	10M	QPSK	25	0	Top Edge	0mm	Tablet	27710	2310	Vendor 2	15.90	16.50	1.148	0.07	0.644	0.739
	LTE Band 30_Ant 8	10M	QPSK	1	0	Right Edge	0mm	Tablet	27710	2310	Vendor 2	16.05	16.50	1.109	0.05	0.025	0.028
	LTE Band 30_Ant 8	10M	QPSK	25	0	Right Edge	0mm	Tablet	27710	2310	Vendor 2	15.90	16.50	1.148	-0.18	0.021	0.024
	LTE Band 30_Ant 8	10M	QPSK	1	0	Top Edge	0mm	Tablet	27710	2310	Vendor 1	16.05	16.50	1.109	-0.15	0.616	0.683



FCC SAR TEST REPORT

Report No. : FA490504A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	132322	1745	Vendor 2	16.12	16.50	1.091	-0.18	0.231	0.252
	LTE Band 66_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	132322	1745	Vendor 2	16.01	16.50	1.119	-0.15	0.221	0.247
11	LTE Band 66_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	132322	1745	Vendor 2	16.12	16.50	1.091	-0.05	0.661	0.721
	LTE Band 66_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	132322	1745	Vendor 2	16.01	16.50	1.119	0.11	0.614	0.687
	LTE Band 66_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	132322	1745	Vendor 2	16.12	16.50	1.091	0.16	0.041	0.045
	LTE Band 66_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	132322	1745	Vendor 2	16.01	16.50	1.119	-0.08	0.038	0.043
	LTE Band 66_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	132322	1745	Vendor 1	16.12	16.50	1.091	-0.03	0.629	0.687
	LTE Band 71_Ant 5	20M	QPSK	1	0	Back	0mm	Tablet	133297	680.5	Vendor 2	18.20	18.50	1.072	-0.01	0.104	0.111
	LTE Band 71_Ant 5	20M	QPSK	50	0	Back	0mm	Tablet	133297	680.5	Vendor 2	18.11	18.50	1.094	0.17	0.100	0.109
12	LTE Band 71_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	133297	680.5	Vendor 2	18.20	18.50	1.072	-0.04	0.693	0.743
	LTE Band 71_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	133297	680.5	Vendor 2	18.11	18.50	1.094	0.18	0.674	0.737
	LTE Band 71_Ant 5	20M	QPSK	1	0	Right Edge	0mm	Tablet	133297	680.5	Vendor 2	18.20	18.50	1.072	0.02	0.299	0.320
	LTE Band 71_Ant 5	20M	QPSK	50	0	Right Edge	0mm	Tablet	133297	680.5	Vendor 2	18.11	18.50	1.094	-0.04	0.289	0.316
	LTE Band 71_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	133297	680.5	Vendor 1	18.20	18.50	1.072	-0.17	0.200	0.214

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	40620	2593	Vendor 2	16.57	17.50	1.239	62.9	1.006	-0.05	0.068	0.085
	LTE Band 41_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	40620	2593	Vendor 2	16.06	17.50	1.393	62.9	1.006	-0.13	0.061	0.085
13	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	40620	2593	Vendor 2	16.45	17.50	1.274	62.9	1.006	-0.1	0.575	0.737
	LTE Band 41_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	40620	2593	Vendor 2	16.06	17.50	1.393	62.9	1.006	0.06	0.517	0.725
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	39750	2506	Vendor 2	16.10	17.50	1.380	62.9	1.006	-0.14	0.519	0.721
	LTE Band 41_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	39750	2506	Vendor 2	15.88	17.50	1.452	62.9	1.006	-0.05	0.490	0.716
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 2	16.37	17.50	1.297	62.9	1.006	0.11	0.555	0.724
	LTE Band 41_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 2	16.05	17.50	1.396	62.9	1.006	0.16	0.515	0.723
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 2	16.44	17.50	1.276	62.9	1.006	-0.11	0.541	0.695
	LTE Band 41_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 2	16.28	17.50	1.324	62.9	1.006	-0.08	0.518	0.690
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	41490	2680	Vendor 2	16.55	17.50	1.245	62.9	1.006	-0.12	0.580	0.726
	LTE Band 41_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	41490	2680	Vendor 2	16.23	17.50	1.340	62.9	1.006	-0.04	0.539	0.726
	LTE Band 41_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	40620	2593	Vendor 2	16.57	17.50	1.239	62.9	1.006	-0.13	0.335	0.417
	LTE Band 41_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	40620	2593	Vendor 2	16.06	17.50	1.393	62.9	1.006	-0.03	0.300	0.420
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	40620	2593	Vendor 1	16.57	17.50	1.239	62.9	1.006	-0.09	0.568	0.708
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	39750	2506	Vendor 1	16.10	17.50	1.380	62.9	1.006	0.06	0.514	0.714
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 1	16.37	17.50	1.297	62.9	1.006	-0.01	0.551	0.719
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 1	16.44	17.50	1.276	62.9	1.006	-0.14	0.532	0.683
	LTE Band 41_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	41490	2680	Vendor 1	16.55	17.50	1.245	62.9	1.006	0.09	0.548	0.686
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Tablet	40620	2593	Vendor 2	16.95	17.50	1.135	62.9	1.006	0.17	0.042	0.048
	LTE Band 41_Ant 5	20M	QPSK	50	0	Back	0mm	Tablet	40620	2593	Vendor 2	16.92	17.50	1.143	62.9	1.006	-0.11	0.042	0.048
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	40620	2593	Vendor 2	16.95	17.50	1.135	62.9	1.006	-0.08	0.635	0.725
	LTE Band 41_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	40620	2593	Vendor 2	16.92	17.50	1.143	62.9	1.006	-0.12	0.630	0.724
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	39750	2506	Vendor 2	16.69	17.50	1.205	62.9	1.006	-0.16	0.596	0.723
	LTE Band 41_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	39750	2506	Vendor 2	16.55	17.50	1.245	62.9	1.006	-0.18	0.574	0.719
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 2	16.57	17.50	1.239	62.9	1.006	-0.09	0.577	0.719
	LTE Band 41_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 2	16.44	17.50	1.276	62.9	1.006	-0.08	0.562	0.722
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 2	16.66	17.50	1.213	62.9	1.006	0.05	0.592	0.723
	LTE Band 41_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 2	16.43	17.50	1.279	62.9	1.006	-0.08	0.560	0.721
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	41490	2680	Vendor 2	16.72	17.50	1.197	62.9	1.006	0.02	0.600	0.722
	LTE Band 41_Ant 5	20M	QPSK	50	0	Top Edge	0mm	Tablet	41490	2680	Vendor 2	16.54	17.50	1.247	62.9	1.006	-0.1	0.570	0.715
	LTE Band 41_Ant 5	20M	QPSK	1	0	Right Edge	0mm	Tablet	40620	2593	Vendor 2	16.95	17.50	1.135	62.9	1.006	-0.04	0.162	0.185
	LTE Band 41_Ant 5	20M	QPSK	50	0	Right Edge	0mm	Tablet	40620	2593	Vendor 2	16.92	17.50	1.143	62.9	1.006	0.03	0.320	0.368
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	40620	2593	Vendor 1	16.95	17.50	1.135	62.9	1.006	0.11	0.587	0.670
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	39750	2506	Vendor 1	16.69	17.50	1.205	62.9	1.006	-0.08	0.561	0.680
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	40185	2549.5	Vendor 1	16.57	17.50	1.239	62.9	1.006	0.19	0.534	0.665
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	41055	2636.5	Vendor 1	16.66	17.50	1.213	62.9	1.006	0.02	0.532	0.649
	LTE Band 41_Ant 5	20M	QPSK	1	0	Top Edge	0mm	Tablet	41490	2680	Vendor 1	16.72	17.50	1.197	62.9	1.006	-0.08	0.511	0.616



FCC SAR TEST REPORT

Report No. : FA490504A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 42_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	43340	3575	Vendor 2	15.05	15.50	1.109	62.9	1.006	0.13	0.079	0.088
	LTE Band 42_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	43340	3575	Vendor 2	14.91	15.50	1.146	62.9	1.006	0.11	0.073	0.084
14	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	43340	3575	Vendor 2	15.05	15.50	1.109	62.9	1.006	-0.05	0.666	0.743
	LTE Band 42_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	43340	3575	Vendor 2	14.91	15.50	1.146	62.9	1.006	-0.06	0.637	0.734
	LTE Band 42_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	43340	3575	Vendor 2	15.05	15.50	1.109	62.9	1.006	-0.16	0.068	0.076
	LTE Band 42_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	43340	3575	Vendor 2	14.91	15.50	1.146	62.9	1.006	-0.08	0.061	0.070
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	43340	3575	Vendor 1	15.05	15.50	1.109	62.9	1.006	-0.15	0.660	0.736
	LTE Band 42_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	42590	3500	Vendor 2	15.34	15.50	1.038	62.9	1.006	0.01	0.056	0.058
	LTE Band 42_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	42590	3500	Vendor 2	15.16	15.50	1.081	62.9	1.006	-0.03	0.054	0.059
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42590	3500	Vendor 2	15.34	15.50	1.038	62.9	1.006	-0.1	0.694	0.724
	LTE Band 42_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	42590	3500	Vendor 2	15.16	15.50	1.081	62.9	1.006	-0.15	0.640	0.696
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42190	3460	Vendor 2	14.90	15.50	1.148	62.9	1.006	0.08	0.614	0.709
	LTE Band 42_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	42190	3460	Vendor 2	14.65	15.50	1.216	62.9	1.006	-0.13	0.561	0.686
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42990	3540	Vendor 2	15.24	15.50	1.062	62.9	1.006	0.15	0.676	0.722
	LTE Band 42_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	42990	3540	Vendor 2	14.96	15.50	1.132	62.9	1.006	0.19	0.612	0.697
	LTE Band 42_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	42590	3500	Vendor 2	15.34	15.50	1.038	62.9	1.006	0.12	0.055	0.057
	LTE Band 42_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	42590	3500	Vendor 2	15.16	15.50	1.081	62.9	1.006	0.02	0.053	0.058
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42590	3500	Vendor 1	15.34	15.50	1.038	62.9	1.006	-0.16	0.690	0.720
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42190	3460	Vendor 1	14.90	15.50	1.148	62.9	1.006	0.07	0.618	0.714
	LTE Band 42_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	42990	3540	Vendor 1	15.24	15.50	1.062	62.9	1.006	0.18	0.662	0.707
	LTE Band 43_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	44090	3650	Vendor 2	15.53	16.00	1.114	62.9	1.006	0	0.048	0.054
	LTE Band 43_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	44090	3650	Vendor 2	15.39	16.00	1.151	62.9	1.006	-0.01	0.044	0.051
15	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	44090	3650	Vendor 2	15.53	16.00	1.114	62.9	1.006	-0.08	0.661	0.741
	LTE Band 43_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	44090	3650	Vendor 2	15.39	16.00	1.151	62.9	1.006	-0.06	0.637	0.737
	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	43690	3610	Vendor 2	15.32	16.00	1.169	62.9	1.006	-0.13	0.629	0.740
	LTE Band 43_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	43690	3610	Vendor 2	15.00	16.00	1.259	62.9	1.006	0.05	0.578	0.732
	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	44490	3690	Vendor 2	15.43	16.00	1.140	62.9	1.006	0.19	0.603	0.692
	LTE Band 43_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	44490	3690	Vendor 2	15.19	16.00	1.205	62.9	1.006	-0.11	0.600	0.727
	LTE Band 43_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	44090	3650	Vendor 2	15.53	16.00	1.114	62.9	1.006	-0.06	0.053	0.059
	LTE Band 43_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	44090	3650	Vendor 2	15.39	16.00	1.151	62.9	1.006	-0.04	0.052	0.060
	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	44090	3650	Vendor 1	15.53	16.00	1.114	62.9	1.006	-0.15	0.626	0.702
	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	43690	3610	Vendor 1	15.32	16.00	1.169	62.9	1.006	0.06	0.591	0.695
	LTE Band 43_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	44490	3690	Vendor 1	15.43	16.00	1.140	62.9	1.006	0.15	0.572	0.656
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Tablet	56640	3690	Vendor 2	14.22	14.50	1.067	62.9	1.006	-0.15	0.042	0.045
	LTE Band 48_Ant 8	20M	QPSK	50	0	Back	0mm	Tablet	56640	3690	Vendor 2	13.98	14.50	1.127	62.9	1.006	0.18	0.040	0.045
16	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	56640	3690	Vendor 2	14.22	14.50	1.067	62.9	1.006	0.03	0.678	0.727
	LTE Band 48_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	56640	3690	Vendor 2	13.98	14.50	1.127	62.9	1.006	-0.17	0.634	0.719
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	55340	3560	Vendor 2	13.83	14.50	1.167	62.9	1.006	-0.1	0.615	0.722
	LTE Band 48_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	55340	3560	Vendor 2	13.53	14.50	1.250	62.9	1.006	0.06	0.564	0.709
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	55830	3609	Vendor 2	13.93	14.50	1.140	62.9	1.006	0.08	0.630	0.723
	LTE Band 48_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	55830	3609	Vendor 2	13.77	14.50	1.183	62.9	1.006	0.12	0.602	0.716
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	56150	3641	Vendor 2	14.13	14.50	1.089	62.9	1.006	0.17	0.660	0.723
	LTE Band 48_Ant 8	20M	QPSK	50	0	Top Edge	0mm	Tablet	56150	3641	Vendor 2	13.93	14.50	1.140	62.9	1.006	0.19	0.621	0.712
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Edge	0mm	Tablet	56640	3690	Vendor 2	14.22	14.50	1.067	62.9	1.006	0.14	0.310	0.333
	LTE Band 48_Ant 8	20M	QPSK	50	0	Right Edge	0mm	Tablet	56640	3690	Vendor 2	13.98	14.50	1.127	62.9	1.006	-0.04	0.295	0.335
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	56640	3690	Vendor 1	14.22	14.50	1.067	62.9	1.006	-0.09	0.650	0.697
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	55340	3560	Vendor 1	13.83	14.50	1.167	62.9	1.006	0.19	0.604	0.709
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	55830	3609	Vendor 1	13.93	14.50	1.140	62.9	1.006	-0.13	0.611	0.701
	LTE Band 48_Ant 8	20M	QPSK	1	0	Top Edge	0mm	Tablet	56150	3641	Vendor 1	14.13	14.50	1.089	62.9	1.006	0.17	0.600	0.657



FCC SAR TEST REPORT

Report No. : FA490504A

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 8	50M	BPSK	1	1	Back	0mm	Tablet	507000	2535	Vendor 2	14.21	14.50	1.069	-0.01	0.063	0.067
	FR1 n7_Ant 8	50M	BPSK	135	0	Back	0mm	Tablet	507000	2535	Vendor 2	14.05	14.50	1.109	-0.04	0.060	0.067
17	FR1 n7_Ant 8	50M	BPSK	1	1	Top Edge	0mm	Tablet	507000	2535	Vendor 2	14.21	14.50	1.069	-0.01	0.664	0.710
	FR1 n7_Ant 8	50M	BPSK	135	0	Top Edge	0mm	Tablet	507000	2535	Vendor 2	14.05	14.50	1.109	-0.15	0.621	0.689
	FR1 n7_Ant 8	50M	BPSK	1	1	Right Edge	0mm	Tablet	507000	2535	Vendor 2	14.21	14.50	1.069	0.03	0.025	0.027
	FR1 n7_Ant 8	50M	BPSK	135	0	Right Edge	0mm	Tablet	507000	2535	Vendor 2	14.05	14.50	1.109	0.11	0.024	0.027
	FR1 n7_Ant 8	50M	BPSK	1	1	Left Edge	0mm	Tablet	507000	2535	Vendor 2	14.21	14.50	1.069	0.1	0.001	0.001
	FR1 n7_Ant 8	50M	BPSK	135	0	Left Edge	0mm	Tablet	507000	2535	Vendor 2	14.05	14.50	1.109	-0.02	0.001	0.001
	FR1 n7_Ant 8	50M	BPSK	1	1	Top Edge	0mm	Tablet	507000	2535	Vendor 1	14.21	14.50	1.069	-0.06	0.552	0.590
	FR1 n12_Ant 5	15M	BPSK	1	1	Back	0mm	Tablet	141500	707.5	Vendor 2	17.12	17.50	1.091	0.17	0.077	0.084
	FR1 n12_Ant 5	15M	BPSK	36	0	Back	0mm	Tablet	141500	707.5	Vendor 2	17.02	17.50	1.117	0.13	0.075	0.084
18	FR1 n12_Ant 5	15M	BPSK	1	1	Top Edge	0mm	Tablet	141500	707.5	Vendor 2	17.12	17.50	1.091	0.02	0.664	0.725
	FR1 n12_Ant 5	15M	BPSK	36	0	Top Edge	0mm	Tablet	141500	707.5	Vendor 2	17.02	17.50	1.117	-0.18	0.638	0.713
	FR1 n12_Ant 5	15M	BPSK	1	1	Right Edge	0mm	Tablet	141500	707.5	Vendor 2	17.12	17.50	1.091	0.05	0.127	0.139
	FR1 n12_Ant 5	15M	BPSK	36	0	Right Edge	0mm	Tablet	141500	707.5	Vendor 2	17.02	17.50	1.117	-0.11	0.123	0.137
	FR1 n12_Ant 5	15M	BPSK	1	1	Top Edge	0mm	Tablet	141500	707.5	Vendor 1	17.12	17.50	1.091	-0.13	0.141	0.154
	FR1 n14_Ant 5	10M	BPSK	1	1	Back	0mm	Tablet	158600	793	Vendor 2	18.26	19.00	1.186	-0.18	0.070	0.083
	FR1 n14_Ant 5	10M	BPSK	25	0	Back	0mm	Tablet	158600	793	Vendor 2	18.14	19.00	1.219	-0.06	0.060	0.073
19	FR1 n14_Ant 5	10M	BPSK	1	1	Top Edge	0mm	Tablet	158600	793	Vendor 2	18.26	19.00	1.186	0.01	0.620	0.735
	FR1 n14_Ant 5	10M	BPSK	25	0	Top Edge	0mm	Tablet	158600	793	Vendor 2	18.14	19.00	1.219	-0.14	0.588	0.717
	FR1 n14_Ant 5	10M	BPSK	1	1	Right Edge	0mm	Tablet	158600	793	Vendor 2	18.26	19.00	1.186	0.16	0.048	0.057
	FR1 n14_Ant 5	10M	BPSK	25	0	Right Edge	0mm	Tablet	158600	793	Vendor 2	18.14	19.00	1.219	-0.19	0.047	0.057
	FR1 n14_Ant 5	10M	BPSK	1	1	Top Edge	0mm	Tablet	158600	793	Vendor 1	18.26	19.00	1.186	-0.04	0.201	0.238
	FR1 n25_Ant 8	45M	BPSK	1	1	Back	0mm	Tablet	376500	1882.5	Vendor 2	16.63	17.50	1.222	0.19	0.161	0.197
	FR1 n25_Ant 8	45M	BPSK	120	0	Back	0mm	Tablet	376500	1882.5	Vendor 2	16.47	17.50	1.268	0.02	0.157	0.199
20	FR1 n25_Ant 8	45M	BPSK	1	1	Top Edge	0mm	Tablet	376500	1882.5	Vendor 2	16.63	17.50	1.222	0.02	0.598	0.731
	FR1 n25_Ant 8	45M	BPSK	120	0	Top Edge	0mm	Tablet	376500	1882.5	Vendor 2	16.47	17.50	1.268	0.12	0.564	0.715
	FR1 n25_Ant 8	45M	BPSK	1	1	Right Edge	0mm	Tablet	376500	1882.5	Vendor 2	16.63	17.50	1.222	-0.03	0.050	0.061
	FR1 n25_Ant 8	45M	BPSK	120	0	Right Edge	0mm	Tablet	376500	1882.5	Vendor 2	16.47	17.50	1.268	-0.16	0.049	0.062
	FR1 n25_Ant 8	45M	BPSK	1	1	Top Edge	0mm	Tablet	376500	1882.5	Vendor 1	16.63	17.50	1.222	0.07	0.593	0.725
	FR1 n25_Ant 5	45M	BPSK	1	1	Back	0mm	Tablet	376500	1882.5	Vendor 2	13.58	14.00	1.102	0.02	0.043	0.047
	FR1 n25_Ant 5	45M	BPSK	120	0	Back	0mm	Tablet	376500	1882.5	Vendor 2	13.54	14.00	1.112	0.07	0.042	0.047
	FR1 n25_Ant 5	45M	BPSK	1	1	Top Edge	0mm	Tablet	376500	1882.5	Vendor 2	13.58	14.00	1.102	0.03	0.563	0.620
	FR1 n25_Ant 5	45M	BPSK	120	0	Top Edge	0mm	Tablet	376500	1882.5	Vendor 2	13.54	14.00	1.112	-0.02	0.543	0.604
	FR1 n25_Ant 5	45M	BPSK	1	1	Right Edge	0mm	Tablet	376500	1882.5	Vendor 2	13.58	14.00	1.102	-0.03	0.106	0.117
	FR1 n25_Ant 5	45M	BPSK	120	0	Right Edge	0mm	Tablet	376500	1882.5	Vendor 2	13.54	14.00	1.112	-0.05	0.105	0.117
	FR1 n25_Ant 5	45M	BPSK	1	1	Top Edge	0mm	Tablet	376500	1882.5	Vendor 1	13.58	14.00	1.102	0	0.363	0.400
	FR1 n26_Ant 5	20M	BPSK	1	1	Back	0mm	Tablet	166300	831.5	Vendor 2	17.77	19.00	1.327	0.07	0.070	0.093
	FR1 n26_Ant 5	20M	BPSK	50	0	Back	0mm	Tablet	166300	831.5	Vendor 2	17.64	19.00	1.368	0.16	0.067	0.092
21	FR1 n26_Ant 5	20M	BPSK	1	1	Top Edge	0mm	Tablet	166300	831.5	Vendor 2	17.77	19.00	1.327	0.02	0.565	0.750
	FR1 n26_Ant 5	20M	BPSK	50	0	Top Edge	0mm	Tablet	166300	831.5	Vendor 2	17.64	19.00	1.368	0.01	0.533	0.729
	FR1 n26_Ant 5	20M	BPSK	1	1	Right Edge	0mm	Tablet	166300	831.5	Vendor 2	17.77	19.00	1.327	-0.08	0.001	0.001
	FR1 n26_Ant 5	20M	BPSK	50	0	Right Edge	0mm	Tablet	166300	831.5	Vendor 2	17.64	19.00	1.368	-0.16	0.001	0.001
	FR1 n26_Ant 5	20M	BPSK	1	1	Top Edge	0mm	Tablet	166300	831.5	Vendor 1	17.77	19.00	1.327	-0.13	0.130	0.173
	FR1 n30_Ant 8	10M	BPSK	1	1	Back	0mm	Tablet	462000	2310	Vendor 2	15.46	16.50	1.271	0.12	0.057	0.072
	FR1 n30_Ant 8	10M	BPSK	25	0	Back	0mm	Tablet	462000	2310	Vendor 2	15.23	16.50	1.340	0.03	0.054	0.072
22	FR1 n30_Ant 8	10M	BPSK	1	1	Top Edge	0mm	Tablet	462000	2310	Vendor 2	15.46	16.50	1.271	-0.02	0.563	0.715
	FR1 n30_Ant 8	10M	BPSK	25	0	Top Edge	0mm	Tablet	462000	2310	Vendor 2	15.23	16.50	1.340	-0.13	0.531	0.711
	FR1 n30_Ant 8	10M	BPSK	1	1	Right Edge	0mm	Tablet	462000	2310	Vendor 2	15.46	16.50	1.271	-0.16	0.001	0.001
	FR1 n30_Ant 8	10M	BPSK	25	0	Right Edge	0mm	Tablet	462000	2310	Vendor 2	15.23	16.50	1.340	0.16	0.001	0.001
	FR1 n30_Ant 8	10M	BPSK	1	1	Top Edge	0mm	Tablet	462000	2310	Vendor 1	15.46	16.50	1.271	0.11	0.511	0.649



FCC SAR TEST REPORT

Report No. : FA490504A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n66_Ant 8	45M	BPSK	1	1	Back	0mm	Tablet	349000	1745	Vendor 2	15.81	16.50	1.172	-0.17	0.173	0.203
	FR1 n66_Ant 8	45M	BPSK	108	0	Back	0mm	Tablet	349000	1745	Vendor 2	15.59	16.50	1.233	-0.09	0.164	0.202
23	FR1 n66_Ant 8	45M	BPSK	1	1	Top Edge	0mm	Tablet	349000	1745	Vendor 2	15.81	16.50	1.172	0	0.621	0.728
	FR1 n66_Ant 8	45M	BPSK	108	0	Top Edge	0mm	Tablet	349000	1745	Vendor 2	15.59	16.50	1.233	0.14	0.587	0.724
	FR1 n66_Ant 8	45M	BPSK	1	1	Right Edge	0mm	Tablet	349000	1745	Vendor 2	15.81	16.50	1.172	0.02	0.038	0.045
	FR1 n66_Ant 8	45M	BPSK	108	0	Right Edge	0mm	Tablet	349000	1745	Vendor 2	15.59	16.50	1.233	0.1	0.036	0.044
	FR1 n66_Ant 8	45M	BPSK	1	1	Top Edge	0mm	Tablet	349000	1745	Vendor 1	15.81	16.50	1.172	-0.11	0.602	0.706
	FR1 n71_Ant 5	20M	BPSK	1	1	Back	0mm	Tablet	136100	680.5	Vendor 2	16.13	17.00	1.222	-0.04	0.007	0.009
	FR1 n71_Ant 5	20M	BPSK	50	0	Back	0mm	Tablet	136100	680.5	Vendor 2	16.03	17.00	1.250	-0.09	0.007	0.009
24	FR1 n71_Ant 5	20M	BPSK	1	1	Top Edge	0mm	Tablet	136100	680.5	Vendor 2	16.13	17.00	1.222	-0.14	0.615	0.751
	FR1 n71_Ant 5	20M	BPSK	50	0	Top Edge	0mm	Tablet	136100	680.5	Vendor 2	16.03	17.00	1.250	-0.16	0.586	0.733
	FR1 n71_Ant 5	20M	BPSK	1	1	Right Edge	0mm	Tablet	136100	680.5	Vendor 2	16.13	17.00	1.222	-0.16	0.065	0.079
	FR1 n71_Ant 5	20M	BPSK	50	0	Right Edge	0mm	Tablet	136100	680.5	Vendor 2	16.03	17.00	1.250	-0.18	0.063	0.079
	FR1 n71_Ant 5	20M	BPSK	1	1	Top Edge	0mm	Tablet	136100	680.5	Vendor 1	16.13	17.00	1.222	0.08	0.127	0.155
	FR1 n41_Ant 8	100M	BPSK	1	1	Back	0mm	Tablet	518598	2592.99	Vendor 2	13.64	14.00	1.086	0.18	0.080	0.087
	FR1 n41_Ant 8	100M	BPSK	135	0	Back	0mm	Tablet	518598	2592.99	Vendor 2	13.12	14.00	1.225	-0.08	0.056	0.069
	FR1 n41_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	518598	2592.99	Vendor 2	13.64	14.00	1.086	0	0.669	0.727
	FR1 n41_Ant 8	100M	BPSK	135	0	Top Edge	0mm	Tablet	518598	2592.99	Vendor 2	13.12	14.00	1.225	-0.1	0.440	0.539
	FR1 n41_Ant 8	100M	BPSK	1	1	Right Edge	0mm	Tablet	518598	2592.99	Vendor 2	13.64	14.00	1.086	0.07	0.029	0.032
	FR1 n41_Ant 8	100M	BPSK	135	0	Right Edge	0mm	Tablet	518598	2592.99	Vendor 2	13.12	14.00	1.225	-0.01	0.020	0.024
	FR1 n41_HPUE_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	518598	2592.99	Vendor 2	16.70	17.00	1.072	0.11	0.678	0.726
	FR1 n41_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	518598	2592.99	Vendor 1	13.64	14.00	1.086	-0.05	0.439	0.477
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Tablet	518598	2592.99	Vendor 2	14.56	15.50	1.242	-0.17	0.083	0.103
	FR1 n41_Ant 5	100M	BPSK	135	0	Back	0mm	Tablet	518598	2592.99	Vendor 2	14.38	15.50	1.294	-0.01	0.083	0.107
25	FR1 n41_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	518598	2592.99	Vendor 2	14.56	15.50	1.242	0.01	0.599	0.744
	FR1 n41_Ant 5	100M	BPSK	135	0	Top Edge	0mm	Tablet	518598	2592.99	Vendor 2	14.38	15.50	1.294	-0.11	0.571	0.739
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Edge	0mm	Tablet	518598	2592.99	Vendor 2	14.56	15.50	1.242	0	0.105	0.130
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Edge	0mm	Tablet	518598	2592.99	Vendor 2	14.38	15.50	1.294	0.14	0.101	0.131
	FR1 n41_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	518598	2592.99	Vendor 1	14.56	15.50	1.242	-0.1	0.549	0.682
	FR1 n48_Ant 8	40M	BPSK	1	1	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.80	12.00	1.047	0.01	0.065	0.068
	FR1 n48_Ant 8	40M	BPSK	50	0	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.79	12.00	1.050	-0.06	0.058	0.061
	FR1 n48_Ant 8	40M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.80	12.00	1.047	-0.02	0.670	0.702
	FR1 n48_Ant 8	40M	BPSK	50	0	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.79	12.00	1.050	0.02	0.578	0.607
	FR1 n48_Ant 8	40M	BPSK	1	1	Top Edge	0mm	Tablet	638000	3570	Vendor 2	11.72	12.00	1.067	0.09	0.585	0.624
	FR1 n48_Ant 8	40M	BPSK	50	0	Top Edge	0mm	Tablet	638000	3570	Vendor 2	11.65	12.00	1.084	0.13	0.570	0.618
	FR1 n48_Ant 8	40M	BPSK	1	1	Top Edge	0mm	Tablet	645332	3679.98	Vendor 2	11.29	12.00	1.178	0.18	0.539	0.635
	FR1 n48_Ant 8	40M	BPSK	50	0	Top Edge	0mm	Tablet	645332	3679.98	Vendor 2	11.24	12.00	1.191	-0.17	0.527	0.628
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.80	12.00	1.047	0.11	0.044	0.046
	FR1 n48_Ant 8	40M	BPSK	50	0	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.79	12.00	1.050	-0.16	0.043	0.045
	FR1 n48_Ant 8	40M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 1	11.80	12.00	1.047	0.12	0.506	0.530
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.88	12.00	1.028	0.17	0.061	0.063
	FR1 n48_Ant 5	40M	BPSK	50	0	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.68	12.00	1.076	0.16	0.053	0.057
26	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.88	12.00	1.028	0	0.688	0.707
	FR1 n48_Ant 5	40M	BPSK	50	0	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.68	12.00	1.076	0.05	0.634	0.682
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	638000	3570	Vendor 2	11.80	12.00	1.047	-0.13	0.655	0.686
	FR1 n48_Ant 5	40M	BPSK	50	0	Top Edge	0mm	Tablet	638000	3570	Vendor 2	11.61	12.00	1.094	0.04	0.640	0.700
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	645332	3679.98	Vendor 2	11.27	12.00	1.183	-0.17	0.588	0.696
	FR1 n48_Ant 5	40M	BPSK	50	0	Top Edge	0mm	Tablet	645332	3679.98	Vendor 2	11.13	12.00	1.222	0.18	0.575	0.703
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.88	12.00	1.028	0.07	0.181	0.186
	FR1 n48_Ant 5	40M	BPSK	50	0	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.68	12.00	1.076	-0.06	0.169	0.182
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 1	11.88	12.00	1.028	-0.18	0.647	0.665
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	638000	3570	Vendor 1	11.80	12.00	1.047	0.18	0.631	0.661
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Edge	0mm	Tablet	645332	3679.98	Vendor 1	11.27	12.00	1.183	0.04	0.591	0.699



FCC SAR TEST REPORT

Report No. : FA490504A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Tablet	656000	3840	Vendor 2	11.40	12.00	1.148	0.05	0.037	0.042
	FR1 n77_Ant 8	100M	BPSK	135	0	Back	0mm	Tablet	656000	3840	Vendor 2	11.32	12.00	1.169	0.19	0.032	0.037
	FR1 n77_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 2	11.40	12.00	1.148	-0.08	0.547	0.628
	FR1 n77_Ant 8	100M	BPSK	135	0	Top Edge	0mm	Tablet	656000	3840	Vendor 2	11.32	12.00	1.169	-0.14	0.517	0.605
	FR1 n77_Ant 8	100M	BPSK	1	1	Right Edge	0mm	Tablet	656000	3840	Vendor 2	11.40	12.00	1.148	0	0.018	0.021
	FR1 n77_Ant 8	100M	BPSK	135	0	Right Edge	0mm	Tablet	656000	3840	Vendor 2	11.32	12.00	1.169	-0.18	0.017	0.020
	FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 2	14.35	15.00	1.161	-0.01	0.488	0.567
	FR1 n77_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 1	11.40	12.00	1.148	-0.05	0.383	0.440
	FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Tablet	633332	3499.98	Vendor 2	11.29	12.00	1.178	-0.1	0.036	0.042
	FR1 n77_Ant 8	100M	BPSK	135	0	Back	0mm	Tablet	633332	3499.98	Vendor 2	11.20	12.00	1.202	0.16	0.031	0.037
	FR1 n77_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.29	12.00	1.178	-0.06	0.504	0.594
	FR1 n77_Ant 8	100M	BPSK	135	0	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.20	12.00	1.202	0.01	0.478	0.575
	FR1 n77_Ant 8	100M	BPSK	1	1	Right Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.29	12.00	1.178	0.04	0.036	0.042
	FR1 n77_Ant 8	100M	BPSK	135	0	Right Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.20	12.00	1.202	-0.04	0.035	0.042
	FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	14.20	15.00	1.202	-0.15	0.516	0.620
	FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 1	14.20	15.00	1.202	0.07	0.426	0.512
	FR1 n77/n78_Ant 8	100M	BPSK	1	1	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.24	12.00	1.191	0.08	0.048	0.057
	FR1 n77/n78_Ant 8	100M	BPSK	135	0	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.15	12.00	1.216	0.07	0.046	0.056
	FR1 n77/n78_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.24	12.00	1.191	-0.02	0.495	0.590
	FR1 n77/n78_Ant 8	100M	BPSK	135	0	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.15	12.00	1.216	-0.12	0.473	0.575
	FR1 n77/n78_Ant 8	100M	BPSK	1	1	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.24	12.00	1.191	0.12	0.001	0.001
	FR1 n77/n78_Ant 8	100M	BPSK	135	0	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.15	12.00	1.216	-0.03	0.001	0.001
	FR1 n77/n78_HPUE_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	14.66	15.00	1.081	-0.04	0.518	0.560
	FR1 n77/n78_Ant 8	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 1	11.24	12.00	1.191	-0.02	0.488	0.581
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	0mm	Tablet	656000	3840	Vendor 2	11.84	12.50	1.164	0.12	0.030	0.035
	FR1 n77_Ant 5	100M	BPSK	135	0	Back	0mm	Tablet	656000	3840	Vendor 2	11.75	12.50	1.189	0.07	0.024	0.029
	FR1 n77_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 2	11.84	12.50	1.164	-0.05	0.619	0.721
	FR1 n77_Ant 5	100M	BPSK	135	0	Top Edge	0mm	Tablet	656000	3840	Vendor 2	11.75	12.50	1.189	0.15	0.594	0.706
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Edge	0mm	Tablet	656000	3840	Vendor 2	11.84	12.50	1.164	-0.05	0.072	0.084
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Edge	0mm	Tablet	656000	3840	Vendor 2	11.75	12.50	1.189	-0.11	0.064	0.076
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 2	14.35	15.50	1.303	-0.09	0.551	0.718
	FR1 n77_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	656000	3840	Vendor 1	11.84	12.50	1.164	-0.04	0.398	0.463
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	0mm	Tablet	633332	3499.98	Vendor 2	11.80	12.50	1.175	0.06	0.052	0.061
	FR1 n77_Ant 5	100M	BPSK	135	0	Back	0mm	Tablet	633332	3499.98	Vendor 2	11.64	12.50	1.219	-0.13	0.044	0.054
	FR1 n77_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.80	12.50	1.175	0	0.613	0.720
	FR1 n77_Ant 5	100M	BPSK	135	0	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.64	12.50	1.219	0.01	0.584	0.712
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.80	12.50	1.175	0.17	0.173	0.203
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Edge	0mm	Tablet	633332	3499.98	Vendor 2	11.64	12.50	1.219	-0.11	0.162	0.197
27	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 2	14.20	15.50	1.349	-0.01	0.550	0.742
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	633332	3499.98	Vendor 1	14.20	15.50	1.349	0.06	0.532	0.718
	FR1 n77/n78_Ant 5	100M	BPSK	1	1	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.90	12.50	1.148	-0.18	0.030	0.034
	FR1 n77/n78_Ant 5	100M	BPSK	135	0	Back	0mm	Tablet	641666	3624.99	Vendor 2	11.74	12.50	1.191	0.11	0.020	0.024
	FR1 n77/n78_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.90	12.50	1.148	-0.04	0.555	0.637
	FR1 n77/n78_Ant 5	100M	BPSK	135	0	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.74	12.50	1.191	-0.13	0.523	0.623
	FR1 n77/n78_Ant 5	100M	BPSK	1	1	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.90	12.50	1.148	0.18	0.110	0.126
	FR1 n77/n78_Ant 5	100M	BPSK	135	0	Right Edge	0mm	Tablet	641666	3624.99	Vendor 2	11.74	12.50	1.191	0.12	0.101	0.120
	FR1 n77/n78_HPUE_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 2	14.66	15.50	1.213	-0.07	0.493	0.598
	FR1 n77/n78_Ant 5	100M	BPSK	1	1	Top Edge	0mm	Tablet	641666	3624.99	Vendor 1	11.90	12.50	1.148	0.03	0.535	0.614



14.2 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

	NR Band 41_Ant 8 (Power Class 3)	NR Band 41_Ant 8 (Power Class 2)
Maximum Tune up Power (dBm)	14	17
Reported 1g SAR (W/kg)	0.727	0.726
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	25.12	25.06
Linearity SAR(W/kg)	0.73	
% deviation from expected linearity		0.10%

	NR Band 77_Ant 8 (Power Class 3)	NR Band 77_Ant 8 (Power Class 2)
Maximum Tune up Power (dBm)	12	15
Reported 1g SAR (W/kg)	0.628	0.567
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	15.85	15.81
Linearity SAR(W/kg)	0.63	
% deviation from expected linearity		-9.50%

	NR Band 77_Ant 5 (Power Class 3)	NR Band 77_Ant 5 (Power Class 2)
Maximum Tune up Power (dBm)	12.5	15.5
Reported 1g SAR (W/kg)	0.72	0.742
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	17.78	17.74
Linearity SAR(W/kg)	0.72	
% deviation from expected linearity		3.30%

15. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN Ant 5 + WWAN Ant 8 + WLAN Main	Yes
2.	WWAN Ant 5 + WWAN Ant 8 + WLAN/BT Aux	Yes

General Note:

- The Intel BE201NGW WLAN/Bluetooth module is also integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to Intel SAR Report, Report No.: 240813-01.TR03 / 231109-06.TR01 / 231109-06.TR07 (FCC ID: PD9BE201NG) and these results are used simultaneous transmission analysis.
- In this report only consider WWAN and WLAN Sim-Tx analysis, for WLAN and Bluetooth Sim-Tx analysis is included in Intel SAR report.
- The Sim-Tx analysis for EN-DC active is choose the worst case standalone SAR from the WWAN main antenna within the exposure positions, regardless of whether the EN-DC combinations. Therefore, the following summations represent the absolute worst cases for simultaneous transmission for this device and it is conservative.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - The SPLSR calculated results please refer to section 15.2.

15.1 Body Exposure Conditions

Exposure Position	1	2	3	4	1+2+3 Summed 1g SAR (W/kg)	1+2+4 Summed 1g SAR (W/kg)	SPLSR	Case No.
	Maximum WWAN Ant 5 1g SAR (W/kg)	Maximum WWAN Ant 8 1g SAR (W/kg)	Max WLAN Main 1g SAR (W/kg)	Max WLAN/BT Aux 1g SAR (W/kg)				
Back at 0mm	0.127	0.252	0.800	0.800	1.179	1.179		
Top Edge at 0mm	0.751	0.755	1.190	1.130	2.696	2.636	0.040	Case 1
Right Edge at 0mm	0.368	0.721	0.800	0.800	1.889	1.889	0.030	Case 2

15.2 SPLSR Evaluation and Analysis

General Note:

1. Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas.
2. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
3. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.



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16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

17. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [9] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [10] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.