



<FR1 n71 Main Ant Reduced Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	13.5
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	12.87	12.85	12.93	
20	PI/2 BPSK	1	53	13.07	13.20	13.05	13.5
20	PI/2 BPSK	1	104	12.96	13.05	12.96	
20	PI/2 BPSK	50	0	12.90	13.01	13.03	
20	PI/2 BPSK	50	28	12.96	13.18	13.13	13.5
20	PI/2 BPSK	50	56	12.78	13.06	12.95	13.5
20	PI/2 BPSK	100	0	12.91	13.08	13.06	
20	QPSK	1	1	12.82	12.84	12.91	
20	QPSK	1	53	12.94	13.07	13.03	13.5
20	QPSK	1	104	13.03	12.98	12.97	
20	QPSK	50	0	12.93	13.04	13.11	
20	QPSK	50	28	12.96	13.08	13.00	13.5
20	QPSK	50	56	12.82	13.12	12.92	13.5
20	QPSK	100	0	12.86	13.06	13.02	
20	16QAM	1	1	12.77	12.82	12.87	
20	64QAM	1	1	12.46	12.50	12.58	13.5
20	256QAM	1	1	12.90	12.95	13.04	13.5
Channel				134100	136100	138100	13.5
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	12.81	12.85	12.89	
Channel				133600	136100	138600	13.5
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	12.79	12.80	12.83	
Channel				133100	136100	139100	13.5
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	12.84	12.77	12.90	



<FR1 n38 Main Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	24.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.56	23.66	23.61	
20	PI/2 BPSK	1	26	23.57	23.65	23.80	23.5
20	PI/2 BPSK	1	49	23.61	23.66	23.59	
20	PI/2 BPSK	25	0	23.04	23.05	23.24	
20	PI/2 BPSK	25	13	23.68	23.77	23.75	23.5
20	PI/2 BPSK	25	26	23.25	23.13	23.04	
20	PI/2 BPSK	50	0	23.21	23.27	23.14	
20	QPSK	1	1	23.62	23.57	23.58	24.0
20	QPSK	1	26	23.73	23.76	23.74	
20	QPSK	1	49	23.40	23.59	23.55	
20	QPSK	25	0	22.66	22.77	22.73	24.0
20	QPSK	25	13	23.76	23.68	23.74	
20	QPSK	25	26	22.65	22.75	22.60	
20	QPSK	50	0	22.66	22.73	22.60	23.0
20	16QAM	1	1	22.35	22.50	22.40	23.0
20	64QAM	1	1	20.73	20.77	20.73	21.5
20	256QAM	1	1	19.13	19.20	19.22	19.5
Channel				515500	519000	522500	24.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.56	23.64	23.74	
Channel				515000	519000	523000	24.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.54	23.69	23.60	
Channel				514500	519000	523500	24.0
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	23.51	23.62	23.52	



<FR1 n38 MIMO 2 Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	24.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.68	22.91	22.83	
20	PI/2 BPSK	1	26	22.65	23.00	22.81	23.5
20	PI/2 BPSK	1	49	22.56	22.69	22.78	
20	PI/2 BPSK	25	0	22.75	22.99	22.94	
20	PI/2 BPSK	25	13	22.69	22.80	22.79	24.0
20	PI/2 BPSK	25	26	22.55	22.89	22.84	
20	PI/2 BPSK	50	0	22.77	22.95	22.76	
20	QPSK	1	1	22.49	22.90	22.89	24.0
20	QPSK	1	26	22.62	22.85	22.70	
20	QPSK	1	49	22.43	22.61	22.56	
20	QPSK	25	0	22.60	22.77	22.86	24.0
20	QPSK	25	13	22.76	22.82	22.98	
20	QPSK	25	26	22.65	22.91	22.83	
20	QPSK	50	0	22.67	22.98	22.81	23.0
20	16QAM	1	1	22.54	22.83	22.80	23.0
20	64QAM	1	1	20.81	21.04	21.11	21.5
20	256QAM	1	1	19.10	19.46	19.24	19.5
Channel				515500	519000	522500	24.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.67	22.93	22.89	
Channel				515000	519000	523000	24.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.75	22.92	22.79	
Channel				514500	519000	523500	24.0
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	22.58	22.83	22.75	

**<FR1 n38 Main Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	9.5
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	8.50	8.39	8.46	
20	PI/2 BPSK	1	26	8.53	8.51	8.67	9.5
20	PI/2 BPSK	1	49	8.38	8.11	8.63	
20	PI/2 BPSK	25	0	8.54	8.42	8.60	
20	PI/2 BPSK	25	13	8.56	8.47	8.65	9.5
20	PI/2 BPSK	25	26	8.46	8.36	8.64	9.5
20	PI/2 BPSK	50	0	8.54	8.45	8.61	
20	QPSK	1	1	8.49	8.36	8.45	
20	QPSK	1	26	8.48	8.11	8.45	9.5
20	QPSK	1	49	8.37	8.45	8.39	
20	QPSK	25	0	8.51	8.41	8.55	
20	QPSK	25	13	8.55	8.36	8.58	9.5
20	QPSK	25	26	8.48	8.46	8.46	
20	QPSK	50	0	8.51	8.44	8.42	
20	16QAM	1	1	8.43	8.32	8.49	9.5
20	64QAM	1	1	8.15	8.05	8.21	9.5
20	256QAM	1	1	8.45	8.49	8.43	9.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	8.40	8.29	8.40	9.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	8.43	8.38	8.37	9.5
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	8.42	8.28	8.34	9.5



<FR1 n38 MIMO 2 Ant Reduced Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	10.0
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	8.55	8.90	8.54	
20	PI/2 BPSK	1	26	8.57	8.55	8.66	10.0
20	PI/2 BPSK	1	49	8.60	8.93	8.69	
20	PI/2 BPSK	25	0	8.68	8.89	8.66	
20	PI/2 BPSK	25	13	8.64	8.79	8.71	10.0
20	PI/2 BPSK	25	26	8.71	8.91	8.77	10.0
20	PI/2 BPSK	50	0	8.69	8.92	8.73	
20	QPSK	1	1	8.63	8.82	8.49	
20	QPSK	1	26	8.61	8.54	8.67	10.0
20	QPSK	1	49	8.49	8.89	8.68	
20	QPSK	25	0	8.70	8.88	8.64	
20	QPSK	25	13	8.71	8.82	8.74	10.0
20	QPSK	25	26	8.63	8.90	8.76	
20	QPSK	50	0	8.71	8.90	8.74	
20	16QAM	1	1	7.79	8.08	7.66	9.5
20	64QAM	1	1	7.50	7.78	7.50	9.5
20	256QAM	1	1	7.94	8.22	7.81	9.5
Channel				515500	519000	522500	10.0
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	8.49	8.35	8.45	
Channel				515000	519000	523000	10.0
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	8.47	8.39	8.37	
Channel				514500	519000	523500	10.0
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	8.44	8.36	8.34	

**<FR1 n41 Main Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	24.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.44	22.18	22.13	
100	PI/2 BPSK	1	137	23.23	22.21	23.58	23.5
100	PI/2 BPSK	1	271	22.56	22.20	22.85	
100	PI/2 BPSK	135	0	22.56	22.24	23.33	
100	PI/2 BPSK	135	69	23.19	22.43	23.53	24.0
100	PI/2 BPSK	135	138	21.99	22.19	22.79	
100	PI/2 BPSK	270	0	23.11	22.84	23.24	
100	QPSK	1	1	22.39	22.44	22.33	24.0
100	QPSK	1	137	23.00	22.11	22.78	
100	QPSK	1	271	22.58	22.51	22.52	
100	QPSK	135	0	22.13	22.19	22.11	24.0
100	QPSK	135	69	22.22	22.43	22.25	
100	QPSK	135	138	23.16	23.14	23.09	
100	QPSK	270	0	22.58	22.74	22.74	23.0
100	16QAM	1	1	22.03	21.98	21.86	23.0
100	64QAM	1	1	21.10	21.22	21.08	21.5
100	256QAM	1	1	18.90	18.66	18.58	19.5
Channel				507204	518598	529998	24.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.34	22.53	22.13	
Channel				504204	518598	532998	24.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.51	22.54	22.20	
Channel				503202	518598	534000	24.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.47	22.48	22.06	
Channel				500700	518598	536496	24.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.36	22.56	22.03	
Channel				500202	518598	537000	24.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.37	22.43	22.23	

**<FR1 n41 MIMO 2 Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	24.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.30	22.06	22.18	
100	PI/2 BPSK	1	137	22.89	22.71	22.86	23.5
100	PI/2 BPSK	1	271	22.13	22.03	22.09	
100	PI/2 BPSK	135	0	22.61	22.89	22.92	
100	PI/2 BPSK	135	69	22.76	23.09	22.96	23.5
100	PI/2 BPSK	135	138	22.68	22.81	22.81	
100	PI/2 BPSK	270	0	22.68	22.86	22.92	
100	QPSK	1	1	22.04	22.09	22.07	24.0
100	QPSK	1	137	22.54	22.66	22.75	
100	QPSK	1	271	22.05	22.10	22.10	
100	QPSK	135	0	22.73	22.83	22.86	24.0
100	QPSK	135	69	22.81	22.91	23.02	
100	QPSK	135	138	22.64	22.71	22.87	
100	QPSK	270	0	22.78	22.79	22.81	23.0
100	16QAM	1	1	21.81	22.03	22.00	23.0
100	64QAM	1	1	20.92	20.81	20.66	21.5
100	256QAM	1	1	18.70	18.87	18.74	19.5
Channel				507204	518598	529998	24.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.28	22.15	22.09	
Channel				504204	518598	532998	24.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.37	22.02	22.10	
Channel				503202	518598	534000	24.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.40	22.02	22.10	
Channel				500700	518598	536496	24.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.39	22.01	22.19	
Channel				500202	518598	537000	24.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.23	22.12	22.28	



<FR1 n41 MIMO 1 Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	9.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	7.01	7.09	7.14	
100	PI/2 BPSK	1	137	7.07	7.51	7.29	9.0
100	PI/2 BPSK	1	271	7.87	7.96	8.25	
100	PI/2 BPSK	135	0	7.06	7.49	7.84	
100	PI/2 BPSK	135	69	7.20	7.71	7.76	9.0
100	PI/2 BPSK	135	138	7.38	8.05	8.16	9.0
100	PI/2 BPSK	270	0	7.24	7.71	7.79	
100	QPSK	1	1	7.95	7.23	7.13	
100	QPSK	1	137	7.20	7.42	8.20	9.0
100	QPSK	1	271	7.01	7.97	7.25	
100	QPSK	135	0	7.47	7.52	7.86	
100	QPSK	135	69	7.28	7.71	8.20	9.0
100	QPSK	135	138	7.02	8.02	7.84	
100	QPSK	270	0	7.32	7.77	7.81	
100	16QAM	1	1	7.87	7.18	7.08	9.0
100	64QAM	1	1	7.65	7.19	7.13	9.0
100	256QAM	1	1	7.01	7.32	7.30	9.0
Channel				507204	518598	529998	9.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	7.04	7.05	7.13	
Channel				504204	518598	532998	9.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	7.00	7.04	7.04	
Channel				503202	518598	534000	9.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	7.02	7.03	7.13	
Channel				500700	518598	536496	9.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	7.05	7.00	7.04	
Channel				500202	518598	537000	9.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	7.06	7.00	7.04	



<FR1 n41 Aux Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	12.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	10.81	10.55	10.41	
100	PI/2 BPSK	1	137	10.88	10.86	11.15	12.0
100	PI/2 BPSK	1	271	10.45	10.81	10.52	
100	PI/2 BPSK	135	0	10.82	10.79	10.86	
100	PI/2 BPSK	135	69	10.91	11.11	11.24	12.0
100	PI/2 BPSK	135	138	10.70	11.03	10.85	12.0
100	PI/2 BPSK	270	0	10.81	10.92	10.87	
100	QPSK	1	1	10.78	10.44	10.38	
100	QPSK	1	137	10.82	10.75	11.08	12.0
100	QPSK	1	271	10.40	10.80	10.53	
100	QPSK	135	0	10.81	10.83	10.94	
100	QPSK	135	69	10.86	11.04	11.23	12.0
100	QPSK	135	138	10.71	11.07	10.92	
100	QPSK	270	0	10.80	10.95	10.91	
100	16QAM	1	1	10.76	10.38	10.40	11.0
100	64QAM	1	1	10.45	10.12	10.15	11.0
100	256QAM	1	1	10.90	10.60	10.57	11.0
Channel				507204	518598	529998	12.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	10.76	10.50	10.34	
Channel				504204	518598	532998	12.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	10.77	10.47	10.31	
Channel				503202	518598	534000	12.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	10.72	10.45	10.36	
Channel				500700	518598	536496	12.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	10.76	10.55	10.39	
Channel				500202	518598	537000	12.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	10.72	10.52	10.38	



<FR1 n41 Main Ant Reduced Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	9.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	9.02	7.98	7.87	
100	PI/2 BPSK	1	137	7.84	8.45	8.32	9.5
100	PI/2 BPSK	1	271	7.93	9.36	9.34	
100	PI/2 BPSK	135	0	8.23	8.37	8.81	
100	PI/2 BPSK	135	69	8.04	8.75	8.92	9.5
100	PI/2 BPSK	135	138	7.90	9.24	9.20	9.5
100	PI/2 BPSK	270	0	8.14	8.78	8.81	
100	QPSK	1	1	8.96	7.93	7.89	
100	QPSK	1	137	7.92	8.40	9.27	9.5
100	QPSK	1	271	7.87	9.29	8.31	
100	QPSK	135	0	8.28	8.38	8.79	
100	QPSK	135	69	8.02	8.76	9.25	9.5
100	QPSK	135	138	7.91	9.16	8.90	
100	QPSK	270	0	8.15	8.80	8.81	
100	16QAM	1	1	8.93	7.86	7.86	9.5
100	64QAM	1	1	8.66	7.61	7.62	9.5
100	256QAM	1	1	9.14	8.09	8.03	9.5
Channel				507204	518598	529998	9.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	8.96	7.92	7.78	
Channel				504204	518598	532998	9.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	9.01	7.92	7.85	
Channel				503202	518598	534000	9.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	8.95	7.88	7.77	
Channel				500700	518598	536496	9.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	8.92	7.93	7.84	
Channel				500202	518598	537000	9.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	8.98	7.89	7.80	

**<FR1 n41 MIMO 2 Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	10.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	8.29	8.38	8.48	
100	PI/2 BPSK	1	137	8.81	8.86	8.83	10.0
100	PI/2 BPSK	1	271	8.58	8.52	8.50	
100	PI/2 BPSK	135	0	8.76	8.84	8.73	10.0
100	PI/2 BPSK	135	69	8.77	8.98	8.88	10.0
100	PI/2 BPSK	135	138	8.73	8.93	8.61	10.0
100	PI/2 BPSK	270	0	8.74	8.88	8.68	
100	QPSK	1	1	8.41	8.37	8.43	
100	QPSK	1	137	8.66	8.78	8.80	10.0
100	QPSK	1	271	8.46	8.49	8.39	
100	QPSK	135	0	8.83	8.84	8.81	
100	QPSK	135	69	8.90	8.97	8.91	10.0
100	QPSK	135	138	8.69	8.92	8.65	
100	QPSK	270	0	8.78	8.88	8.66	10.0
100	16QAM	1	1	8.42	8.35	8.43	10.0
100	64QAM	1	1	8.15	8.06	8.15	10.0
100	256QAM	1	1	8.50	8.53	8.57	10.0
Channel				507204	518598	529998	10.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	8.22	8.36	8.39	
Channel				504204	518598	532998	10.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	8.26	8.37	8.46	
Channel				503202	518598	534000	10.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	8.27	8.34	8.41	
Channel				500700	518598	536496	10.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	8.24	8.37	8.46	
Channel				500202	518598	537000	10.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	8.19	8.28	8.42	

**<FR1 n41 HPUE Main Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.51	23.38	23.15	
100	PI/2 BPSK	1	137	24.24	23.30	24.62	24.5
100	PI/2 BPSK	1	271	23.62	23.78	23.87	
100	PI/2 BPSK	135	0	23.56	23.22	24.37	
100	PI/2 BPSK	135	69	24.10	23.40	24.47	24.5
100	PI/2 BPSK	135	138	22.94	24.15	23.86	
100	PI/2 BPSK	270	0	24.17	23.80	24.27	
100	QPSK	1	1	23.33	23.41	23.42	25.0
100	QPSK	1	137	23.99	23.19	23.75	
100	QPSK	1	271	23.49	23.46	23.51	
100	QPSK	135	0	23.04	23.23	23.01	25.0
100	QPSK	135	69	23.22	23.43	23.19	
100	QPSK	135	138	24.08	24.14	24.06	
100	QPSK	270	0	23.63	23.79	23.80	24.0
100	16QAM	1	1	22.96	22.95	22.81	24.0
100	64QAM	1	1	22.06	22.23	22.10	22.5
100	256QAM	1	1	19.82	19.61	19.65	20.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.43	23.40	23.12	25.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.53	23.49	23.13	25.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.46	23.53	23.03	25.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.44	23.39	23.03	25.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.49	23.57	23.09	25.0



<FR1 n41 HPUE MIMO 2 Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.34	25.38	25.35	
100	PI/2 BPSK	1	137	26.06	26.06	25.96	26.5
100	PI/2 BPSK	1	271	25.21	25.29	25.27	
100	PI/2 BPSK	135	0	25.36	25.44	25.37	
100	PI/2 BPSK	135	69	26.00	26.08	25.99	26.5
100	PI/2 BPSK	135	138	25.51	25.61	25.58	
100	PI/2 BPSK	270	0	25.36	25.42	25.40	
100	QPSK	1	1	25.03	25.08	25.05	27.0
100	QPSK	1	137	25.81	25.82	25.82	
100	QPSK	1	271	25.11	25.12	25.04	
100	QPSK	135	0	25.19	25.19	25.14	27.0
100	QPSK	135	69	25.84	25.93	25.91	
100	QPSK	135	138	25.05	25.09	25.01	
100	QPSK	270	0	25.00	25.02	24.97	26.0
100	16QAM	1	1	24.35	24.39	24.35	26.0
100	64QAM	1	1	22.81	22.85	22.85	24.5
100	256QAM	1	1	20.75	20.79	20.72	22.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.28	25.31	25.38	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.44	25.37	25.28	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.37	25.34	25.40	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.27	25.32	25.32	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.34	25.33	25.40	27.0

**<FR1 n41 HPUE Main Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	12.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	12.27	11.03	11.08	
100	PI/2 BPSK	1	137	11.13	11.77	11.68	12.5
100	PI/2 BPSK	1	271	11.18	12.44	11.52	
100	PI/2 BPSK	135	0	11.45	11.61	12.08	
100	PI/2 BPSK	135	69	11.28	12.01	12.45	12.5
100	PI/2 BPSK	135	138	11.33	12.42	12.19	12.5
100	PI/2 BPSK	270	0	11.37	12.06	12.00	
100	QPSK	1	1	12.24	10.98	11.03	
100	QPSK	1	137	11.08	11.70	11.66	12.5
100	QPSK	1	271	11.09	12.38	11.43	
100	QPSK	135	0	11.43	11.57	11.98	
100	QPSK	135	69	11.27	11.99	12.35	12.5
100	QPSK	135	138	11.32	12.37	12.10	
100	QPSK	270	0	11.32	11.99	12.00	
100	16QAM	1	1	12.19	10.97	11.00	12.5
100	64QAM	1	1	11.00	11.68	11.61	12.5
100	256QAM	1	1	11.05	11.29	11.36	12.5
Channel				507204	518598	529998	12.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	12.24	10.96	11.00	
Channel				504204	518598	532998	12.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	12.19	10.96	11.05	
Channel				503202	518598	534000	12.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	12.22	11.03	11.00	
Channel				500700	518598	536496	12.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	12.19	11.02	11.07	
Channel				500202	518598	537000	12.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	12.17	11.01	11.00	

**<FR1 n41 HPUE MIMO 2 Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	13.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	11.44	11.62	11.51	
100	PI/2 BPSK	1	137	11.98	11.98	11.77	13.0
100	PI/2 BPSK	1	271	11.67	11.57	11.37	
100	PI/2 BPSK	135	0	11.83	12.05	11.87	
100	PI/2 BPSK	135	69	12.00	12.09	11.89	13.0
100	PI/2 BPSK	135	138	11.81	12.04	11.56	13.0
100	PI/2 BPSK	270	0	11.85	12.04	11.69	
100	QPSK	1	1	11.39	11.52	11.44	
100	QPSK	1	137	11.93	11.65	11.76	13.0
100	QPSK	1	271	11.65	11.67	11.37	
100	QPSK	135	0	11.77	12.00	11.83	
100	QPSK	135	69	12.00	11.91	11.86	13.0
100	QPSK	135	138	11.80	11.87	11.50	
100	QPSK	270	0	11.76	11.89	11.68	
100	16QAM	1	1	11.29	11.72	11.39	13.0
100	64QAM	1	1	11.90	11.63	11.73	13.0
100	256QAM	1	1	11.62	11.60	11.42	13.0
Channel				507204	518598	529998	13.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	11.41	11.58	11.46	
Channel				504204	518598	532998	13.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	11.40	11.56	11.48	
Channel				503202	518598	534000	13.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	11.37	11.53	11.51	
Channel				500700	518598	536496	13.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	11.39	11.53	11.48	
Channel				500202	518598	537000	13.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	11.38	11.53	11.43	



<FR1 n77 Main Ant Default Power> (Part 270)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.28	22.43	22.32	
100	PI/2 BPSK	1	137	22.96	23.07	22.93	23.5
100	PI/2 BPSK	1	271	22.37	22.42	22.34	
100	PI/2 BPSK	135	0	22.84	22.77	22.83	
100	PI/2 BPSK	135	69	22.91	23.04	22.89	23.5
100	PI/2 BPSK	135	138	22.75	22.93	22.86	
100	PI/2 BPSK	270	0	22.62	22.78	22.76	
100	QPSK	1	1	22.06	22.17	22.30	24.0
100	QPSK	1	137	22.80	22.89	22.79	
100	QPSK	1	271	22.31	22.32	22.23	
100	QPSK	135	0	22.61	22.63	22.51	24.0
100	QPSK	135	69	22.71	22.68	22.63	
100	QPSK	135	138	22.70	22.71	22.60	
100	QPSK	270	0	22.72	22.77	22.64	23.0
100	16QAM	1	1	22.06	22.10	21.97	23.0
100	64QAM	1	1	21.43	21.44	21.21	21.5
100	256QAM	1	1	19.24	19.30	19.20	19.5
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.38	22.45	22.28	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.20	22.42	22.25	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.34	22.47	22.39	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.19	22.44	22.22	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.29	22.43	22.28	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.36	22.52	22.29	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.30	22.53	22.24	



<FR1 n77 MIMO 2 Ant Default Power> (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				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.68	22.76	22.98	
100	PI/2 BPSK	1	137	23.41	23.73	23.80	23.5
100	PI/2 BPSK	1	271	22.93	23.19	23.19	
100	PI/2 BPSK	135	0	23.29	23.45	23.40	
100	PI/2 BPSK	135	69	23.46	23.60	23.75	23.5
100	PI/2 BPSK	135	138	23.01	23.31	23.29	
100	PI/2 BPSK	270	0	23.16	23.37	23.49	
100	QPSK	1	1	22.64	22.80	22.78	24.0
100	QPSK	1	137	23.36	23.54	23.71	
100	QPSK	1	271	22.78	23.03	23.13	
100	QPSK	135	0	23.20	23.40	23.42	24.0
100	QPSK	135	69	23.54	23.56	23.65	
100	QPSK	135	138	23.45	23.62	23.54	
100	QPSK	270	0	22.26	22.52	22.72	23.0
100	16QAM	1	1	22.56	22.83	22.65	23.0
100	64QAM	1	1	20.92	21.00	20.99	21.5
100	256QAM	1	1	18.62	18.74	18.93	19.5
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.32	23.51	23.62	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.64	22.86	22.69	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.64	22.80	22.64	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.31	23.50	23.75	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.36	23.48	23.68	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.60	22.79	22.72	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.60	22.77	22.68	

<FR1 n77 MIMO 1 Ant Default Power> (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				650000	656000	662000	11.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.87	10.54	10.50	
100	PI/2 BPSK	1	137	10.28	10.93	10.56	11.0
100	PI/2 BPSK	1	271	10.24	10.35	10.14	
100	PI/2 BPSK	135	0	10.14	10.95	10.59	
100	PI/2 BPSK	135	69	10.31	10.99	10.65	11.0
100	PI/2 BPSK	135	138	10.27	10.74	10.38	11.0
100	PI/2 BPSK	270	0	10.36	10.91	10.58	
100	QPSK	1	1	10.10	10.53	10.56	
100	QPSK	1	137	10.48	10.89	10.40	11.0
100	QPSK	1	271	10.40	10.28	10.05	
100	QPSK	135	0	10.46	10.96	10.63	
100	QPSK	135	69	10.65	10.95	10.50	11.0
100	QPSK	135	138	10.60	10.72	10.32	
100	QPSK	270	0	10.57	10.93	10.53	
100	16QAM	1	1	10.01	10.46	10.47	11.0
100	64QAM	1	1	9.75	10.22	10.23	11.0
100	256QAM	1	1	10.24	10.68	10.69	11.0
Channel				649334	656000	662666	11.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.78	10.52	10.42	
Channel				648668	656000	663332	11.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.81	10.54	10.47	
Channel				648334	656000	663666	11.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.78	10.48	10.45	
Channel				648000	656000	664000	11.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.79	10.45	10.46	
Channel				647334	656000	664666	11.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.81	10.50	10.41	
Channel				647168	656000	664832	11.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	9.81	10.45	10.49	
Channel				647000	656000	665000	11.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	9.84	10.52	10.42	



<FR1 n77 Aux Ant Default Power> (Part 270)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	10.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	8.01	8.22	8.51	
100	PI/2 BPSK	1	137	8.29	8.56	8.77	10.0
100	PI/2 BPSK	1	271	8.25	8.41	8.54	
100	PI/2 BPSK	135	0	8.26	8.45	8.79	
100	PI/2 BPSK	135	69	8.30	8.63	8.91	10.0
100	PI/2 BPSK	135	138	8.34	8.53	8.72	10.0
100	PI/2 BPSK	270	0	8.38	8.55	8.80	
100	QPSK	1	1	8.03	8.20	8.43	
100	QPSK	1	137	8.22	8.47	8.70	10.0
100	QPSK	1	271	8.21	8.33	8.47	
100	QPSK	135	0	8.25	8.43	8.77	
100	QPSK	135	69	8.33	8.61	8.89	10.0
100	QPSK	135	138	8.32	8.51	8.75	
100	QPSK	270	0	8.29	8.45	8.78	
100	16QAM	1	1	7.89	8.06	8.34	9.5
100	64QAM	1	1	7.65	7.82	8.11	9.5
100	256QAM	1	1	8.05	8.27	8.56	9.5
Channel				649334	656000	662666	10.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	8.00	8.21	8.44	
Channel				648668	656000	663332	10.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	8.02	8.12	8.50	
Channel				648334	656000	663666	10.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	8.08	8.20	8.43	
Channel				648000	656000	664000	10.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	8.01	8.16	8.42	
Channel				647334	656000	664666	10.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	8.04	8.22	8.41	
Channel				647168	656000	664832	10.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	8.06	8.17	8.51	
Channel				647000	656000	665000	10.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	8.00	8.15	8.44	

**<FR1 n77 Main Ant Reduced Power> (Part 270)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	10.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	8.66	8.67	8.64	
100	PI/2 BPSK	1	137	9.00	9.02	8.81	10.0
100	PI/2 BPSK	1	271	8.78	8.65	8.46	
100	PI/2 BPSK	135	0	8.94	8.96	8.95	
100	PI/2 BPSK	135	69	9.08	9.11	9.01	10.0
100	PI/2 BPSK	135	138	8.85	8.93	8.93	10.0
100	PI/2 BPSK	270	0	8.93	8.97	8.91	
100	QPSK	1	1	8.57	8.59	8.54	
100	QPSK	1	137	8.91	9.00	8.98	10.0
100	QPSK	1	271	8.63	8.63	8.53	
100	QPSK	135	0	8.85	8.88	8.88	
100	QPSK	135	69	8.98	8.98	8.94	10.0
100	QPSK	135	138	8.81	8.87	8.82	
100	QPSK	270	0	8.88	8.97	8.97	
100	16QAM	1	1	8.54	8.56	8.52	10.0
100	64QAM	1	1	8.23	8.30	8.29	10.0
100	256QAM	1	1	8.69	8.73	8.64	10.0
Channel				649334	656000	662666	10.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	8.62	8.60	8.56	
Channel				648668	656000	663332	10.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	8.57	8.66	8.62	
Channel				648334	656000	663666	10.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	8.59	8.67	8.63	
Channel				648000	656000	664000	10.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	8.65	8.67	8.57	
Channel				647334	656000	664666	10.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	8.65	8.59	8.62	
Channel				647168	656000	664832	10.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	8.58	8.65	8.54	
Channel				647000	656000	665000	10.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	8.57	8.66	8.56	



<FR1 n77 MIMO 2 Ant Reduced Power> (Part 270)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	12.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	10.68	10.79	11.02	
100	PI/2 BPSK	1	137	11.21	11.49	11.10	12.5
100	PI/2 BPSK	1	271	11.02	11.07	10.71	
100	PI/2 BPSK	135	0	11.09	11.35	11.23	
100	PI/2 BPSK	135	69	11.24	11.40	11.28	12.5
100	PI/2 BPSK	135	138	11.20	11.38	11.04	12.5
100	PI/2 BPSK	270	0	11.08	11.35	11.13	
100	QPSK	1	1	10.73	10.76	10.92	
100	QPSK	1	137	11.16	11.45	11.10	12.5
100	QPSK	1	271	10.89	11.07	10.68	
100	QPSK	135	0	11.05	11.29	11.20	
100	QPSK	135	69	11.23	11.36	11.18	12.5
100	QPSK	135	138	11.17	11.34	11.00	
100	QPSK	270	0	11.14	11.44	11.08	
100	16QAM	1	1	10.59	10.95	10.90	12.0
100	64QAM	1	1	10.35	10.74	10.64	12.0
100	256QAM	1	1	10.91	11.18	11.14	12.0
Channel				649334	656000	662666	12.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	10.65	10.76	10.95	
Channel				648668	656000	663332	12.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	10.63	10.74	10.98	
Channel				648334	656000	663666	12.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	10.66	10.78	11.02	
Channel				648000	656000	664000	12.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	10.68	10.75	10.96	
Channel				647334	656000	664666	12.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	10.60	10.75	11.01	
Channel				647168	656000	664832	12.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	10.64	10.74	10.94	
Channel				647000	656000	665000	12.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	10.61	10.75	10.92	

**<FR1 n77 HPUE Main Ant Default Power> (Part 270)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	26.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.56	24.65	24.56	
100	PI/2 BPSK	1	137	24.53	24.50	24.58	26.0
100	PI/2 BPSK	1	271	24.68	24.72	24.76	
100	PI/2 BPSK	135	0	24.88	24.89	24.90	
100	PI/2 BPSK	135	69	24.71	25.00	24.88	26.0
100	PI/2 BPSK	135	138	24.77	24.72	24.79	
100	PI/2 BPSK	270	0	24.67	24.76	24.65	
100	QPSK	1	1	24.80	24.70	24.65	26.5
100	QPSK	1	137	24.50	24.51	24.54	
100	QPSK	1	271	24.62	24.51	24.59	
100	QPSK	135	0	24.72	24.96	24.91	26.5
100	QPSK	135	69	24.73	24.76	24.77	
100	QPSK	135	138	24.75	24.83	24.87	
100	QPSK	270	0	24.90	24.86	24.97	25.5
100	16QAM	1	1	24.40	24.60	24.70	25.5
100	64QAM	1	1	22.71	22.65	22.58	24.0
100	256QAM	1	1	21.33	21.41	21.36	22.0
Channel				649334	656000	662666	26.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.58	24.55	24.55	
Channel				648668	656000	663332	26.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.51	24.65	24.50	
Channel				648334	656000	663666	26.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.65	24.61	24.59	
Channel				648000	656000	664000	26.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.52	24.65	24.57	
Channel				647334	656000	664666	26.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.53	24.68	24.56	
Channel				647168	656000	664832	26.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.55	24.58	24.50	
Channel				647000	656000	665000	26.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.59	24.68	24.52	

**<FR1 n77 HPUE MIMO 2 Ant Default Power> (Part 270)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.21	25.35	25.39	
100	PI/2 BPSK	1	137	25.72	26.21	26.22	26.5
100	PI/2 BPSK	1	271	25.41	25.49	25.69	
100	PI/2 BPSK	135	0	25.71	25.91	25.79	
100	PI/2 BPSK	135	69	25.07	26.20	25.80	26.5
100	PI/2 BPSK	135	138	25.45	25.72	25.62	
100	PI/2 BPSK	270	0	25.52	25.84	25.96	
100	QPSK	1	1	25.14	25.25	25.23	27.0
100	QPSK	1	137	25.83	25.98	26.16	
100	QPSK	1	271	25.15	25.52	25.55	
100	QPSK	135	0	25.62	25.79	25.84	27.0
100	QPSK	135	69	26.04	25.91	26.09	
100	QPSK	135	138	25.75	26.09	25.96	
100	QPSK	270	0	24.66	24.89	25.21	26.0
100	16QAM	1	1	24.89	25.18	25.13	26.0
100	64QAM	1	1	23.30	23.31	23.39	24.5
100	256QAM	1	1	21.04	21.06	21.41	22.5
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.16	25.23	25.21	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.00	25.13	25.13	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.21	25.27	25.14	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.15	25.21	25.16	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.24	25.32	25.22	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.09	25.22	25.24	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.21	25.22	25.16	

**<FR1 n77 HPUE Main Ant Reduced Power> (Part 270)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	13.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.36	12.45	12.23	
100	PI/2 BPSK	1	137	12.49	12.50	12.36	13.0
100	PI/2 BPSK	1	271	12.17	12.33	11.97	
100	PI/2 BPSK	135	0	12.35	12.44	12.49	
100	PI/2 BPSK	135	69	12.48	12.42	12.31	13.0
100	PI/2 BPSK	135	138	12.31	12.41	12.12	13.0
100	PI/2 BPSK	270	0	12.32	12.46	12.31	
100	QPSK	1	1	12.05	11.98	11.97	
100	QPSK	1	137	12.41	12.38	12.31	13.0
100	QPSK	1	271	12.13	12.13	11.91	
100	QPSK	135	0	12.33	12.26	12.35	
100	QPSK	135	69	12.46	12.39	12.36	13.0
100	QPSK	135	138	12.18	12.38	12.41	
100	QPSK	270	0	12.29	12.41	12.49	
100	16QAM	1	1	11.91	12.02	12.00	13.0
100	64QAM	1	1	11.74	11.71	11.62	13.0
100	256QAM	1	1	12.19	12.15	12.10	13.0
Channel				649334	656000	662666	13.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.28	12.44	12.22	
Channel				648668	656000	663332	13.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.31	12.37	12.14	
Channel				648334	656000	663666	13.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.30	12.43	12.17	
Channel				648000	656000	664000	13.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.29	12.44	12.20	
Channel				647334	656000	664666	13.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.29	12.38	12.22	
Channel				647168	656000	664832	13.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	12.32	12.40	12.22	
Channel				647000	656000	665000	13.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	12.34	12.41	12.14	

**<FR1 n77 HPUE MIMO 2 Ant Reduced Power> (Part 270)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	15.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.33	14.42	14.51	
100	PI/2 BPSK	1	137	14.85	14.95	14.85	15.5
100	PI/2 BPSK	1	271	14.61	14.59	14.65	
100	PI/2 BPSK	135	0	14.91	14.95	14.87	
100	PI/2 BPSK	135	69	15.00	15.10	15.15	15.5
100	PI/2 BPSK	135	138	15.03	14.97	15.01	15.5
100	PI/2 BPSK	270	0	14.94	14.95	14.92	
100	QPSK	1	1	14.32	14.40	14.42	
100	QPSK	1	137	14.77	14.96	14.80	15.5
100	QPSK	1	271	14.51	14.64	14.59	
100	QPSK	135	0	14.88	14.89	14.77	
100	QPSK	135	69	14.91	15.09	15.08	15.5
100	QPSK	135	138	14.93	14.99	14.95	
100	QPSK	270	0	14.87	14.86	14.83	
100	16QAM	1	1	14.29	14.31	14.35	15.5
100	64QAM	1	1	14.72	14.95	14.72	15.5
100	256QAM	1	1	14.43	14.62	14.54	15.5
Channel				649334	656000	662666	15.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.29	14.38	14.45	
Channel				648668	656000	663332	15.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.32	14.35	14.47	
Channel				648334	656000	663666	15.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.23	14.32	14.41	
Channel				648000	656000	664000	15.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.26	14.39	14.44	
Channel				647334	656000	664666	15.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.24	14.42	14.45	
Channel				647168	656000	664832	15.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.30	14.37	14.47	
Channel				647000	656000	665000	15.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.24	14.37	14.42	



<FR1 n77 Main Ant Default Power> (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		22.56		24.0
100	PI/2 BPSK	1	137		23.20		
100	PI/2 BPSK	1	271		23.00		
100	PI/2 BPSK	135	0		23.05		23.5
100	PI/2 BPSK	135	69		23.33		24.0
100	PI/2 BPSK	135	138		23.27		23.5
100	PI/2 BPSK	270	0		23.27		
100	QPSK	1	1		22.44		24.0
100	QPSK	1	137		23.25		
100	QPSK	1	271		22.91		
100	QPSK	135	0		23.26		24.0
100	QPSK	135	69		23.32		
100	QPSK	135	138		23.20		
100	QPSK	270	0		22.32		23.0
100	16QAM	1	1		22.55		23.0
100	64QAM	1	1		21.36		21.5
100	256QAM	1	1		19.42		19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.63	22.48	22.43	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.49	22.63	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.61	22.62	22.44	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.52	22.51	22.56	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.46	22.47	22.62	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.48	22.48	22.49	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.53	22.60	22.62	24.0



<FR1 n77 MIMO 2 Ant Default Power>(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		22.91		24.0
100	PI/2 BPSK	1	137		23.86		
100	PI/2 BPSK	1	271		23.10		
100	PI/2 BPSK	135	0		23.42		23.5
100	PI/2 BPSK	135	69		23.78		24.0
100	PI/2 BPSK	135	138		23.32		23.5
100	PI/2 BPSK	270	0		23.47		
100	QPSK	1	1		22.84		24.0
100	QPSK	1	137		23.72		
100	QPSK	1	271		23.20		
100	QPSK	135	0		23.44		24.0
100	QPSK	135	69		23.65		
100	QPSK	135	138		23.55		
100	QPSK	270	0		22.62		23.0
100	16QAM	1	1		22.68		23.0
100	64QAM	1	1		20.95		21.5
100	256QAM	1	1		18.50		19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.92	22.87	22.94	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.94	22.92	22.92	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.95	22.89	22.94	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.94	22.85	22.76	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.92	22.93	22.81	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.86	22.96	22.76	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.86	22.91	22.92	24.0

**<FR1 n77 MIMO 1 Ant Default Power> (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		9.87		11.0
100	PI/2 BPSK	1	137		10.19		
100	PI/2 BPSK	1	271		10.13		
100	PI/2 BPSK	135	0		10.15		11.0
100	PI/2 BPSK	135	69		10.27		11.0
100	PI/2 BPSK	135	138		10.21		11.0
100	PI/2 BPSK	270	0		10.19		
100	QPSK	1	1		9.84		11.0
100	QPSK	1	137		10.13		
100	QPSK	1	271		10.08		
100	QPSK	135	0		10.16		11.0
100	QPSK	135	69		10.25		
100	QPSK	135	138		10.21		
100	QPSK	270	0		10.18		11.0
100	16QAM	1	1		9.77		11.0
100	64QAM	1	1		9.54		11.0
100	256QAM	1	1		10.06		11.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.84	9.87	9.83	11.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.83	9.79	9.75	11.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.79	9.77	9.81	11.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.81	9.84	9.79	11.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.77	9.87	9.79	11.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	9.77	9.78	9.76	11.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	9.81	9.78	9.82	11.0

**<FR1 n77 Aux Ant Default Power> (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		10.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		8.57		10.0
100	PI/2 BPSK	1	137		8.75		
100	PI/2 BPSK	1	271		8.63		
100	PI/2 BPSK	135	0		8.77		10.0
100	PI/2 BPSK	135	69		8.84		10.0
100	PI/2 BPSK	135	138		8.72		10.0
100	PI/2 BPSK	270	0		8.78		
100	QPSK	1	1		8.58		10.0
100	QPSK	1	137		8.68		
100	QPSK	1	271		8.60		
100	QPSK	135	0		8.83		10.0
100	QPSK	135	69		8.82		
100	QPSK	135	138		8.73		
100	QPSK	270	0		8.77		10.0
100	16QAM	1	1		8.49		9.5
100	64QAM	1	1		8.21		9.5
100	256QAM	1	1		8.70		9.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	8.20	8.28	8.22	10.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	8.14	8.26	8.21	10.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	8.17	8.27	8.20	10.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.16	8.26	8.18	10.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	8.18	8.25	8.15	10.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	8.10	8.26	8.14	10.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	8.19	8.22	8.18	10.0

**<FR1 n77 Main Ant Reduced Power> (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		8.96		10.0
100	PI/2 BPSK	1	137		9.38		
100	PI/2 BPSK	1	271		9.33		
100	PI/2 BPSK	135	0		9.30		10.0
100	PI/2 BPSK	135	69		9.47		10.0
100	PI/2 BPSK	135	138		9.39		10.0
100	PI/2 BPSK	270	0		9.41		
100	QPSK	1	1		8.95		10.0
100	QPSK	1	137		9.30		
100	QPSK	1	271		9.23		
100	QPSK	135	0		9.34		10.0
100	QPSK	135	69		9.45		
100	QPSK	135	138		9.36		
100	QPSK	270	0		9.39		10.0
100	16QAM	1	1		8.98		10.0
100	64QAM	1	1		8.75		10.0
100	256QAM	1	1		9.20		10.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	8.81	8.92	8.84	10.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	8.84	8.87	8.87	10.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	8.82	8.92	8.82	10.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.86	8.93	8.77	10.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	8.80	8.87	8.85	10.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	8.86	8.91	8.87	10.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	8.80	8.94	8.84	10.0



<FR1 n77 MIMO 2 Ant Reduced Power> (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		10.76		12.5
100	PI/2 BPSK	1	137		11.05		
100	PI/2 BPSK	1	271		10.78		
100	PI/2 BPSK	135	0		11.01		12.5
100	PI/2 BPSK	135	69		11.15		12.5
100	PI/2 BPSK	135	138		10.95		12.5
100	PI/2 BPSK	270	0		11.00		
100	QPSK	1	1		10.67		12.5
100	QPSK	1	137		10.98		
100	QPSK	1	271		10.73		
100	QPSK	135	0		10.98		12.5
100	QPSK	135	69		11.10		
100	QPSK	135	138		10.92		
100	QPSK	270	0		11.00		12.5
100	16QAM	1	1		10.75		12.0
100	64QAM	1	1		10.50		12.0
100	256QAM	1	1		10.91		12.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	10.74	10.68	10.66	12.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	10.66	10.66	10.63	12.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	10.71	10.58	10.66	12.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	10.64	10.68	10.64	12.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	10.70	10.64	10.61	12.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	10.66	10.60	10.59	12.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	10.69	10.68	10.56	12.5



<FR1 n77 HPUE Main Ant Default Power> (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		24.56		26.5
100	PI/2 BPSK	1	137		24.88		
100	PI/2 BPSK	1	271		24.99		
100	PI/2 BPSK	135	0		24.95		26.0
100	PI/2 BPSK	135	69		24.98		26.5
100	PI/2 BPSK	135	138		24.97		26.0
100	PI/2 BPSK	270	0		24.97		
100	QPSK	1	1		24.50		26.5
100	QPSK	1	137		24.56		
100	QPSK	1	271		24.91		
100	QPSK	135	0		24.96		26.5
100	QPSK	135	69		24.90		
100	QPSK	135	138		24.92		
100	QPSK	270	0		24.32		25.5
100	16QAM	1	1		24.55		25.5
100	64QAM	1	1		23.36		24.0
100	256QAM	1	1		21.42		22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.77	24.70	24.62	26.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.58	24.61	24.75	26.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.59	24.61	24.65	26.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.66	24.65	24.61	26.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.67	24.55	24.56	26.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.56	24.53	24.71	26.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.57	24.62	24.64	26.5



<FR1 n77 HPUE MIMO 2 Ant Default Power> (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		24.85		26.5
100	PI/2 BPSK	1	137		25.00		
100	PI/2 BPSK	1	271		24.92		
100	PI/2 BPSK	135	0		24.32		26.0
100	PI/2 BPSK	135	69		24.87		26.5
100	PI/2 BPSK	135	138		24.24		26.0
100	PI/2 BPSK	270	0		24.82		
100	QPSK	1	1		24.83		26.5
100	QPSK	1	137		24.58		
100	QPSK	1	271		24.57		
100	QPSK	135	0		24.50		26.5
100	QPSK	135	69		24.57		
100	QPSK	135	138		24.63		
100	QPSK	270	0		24.57		25.5
100	16QAM	1	1		24.49		25.5
100	64QAM	1	1		22.76		24.0
100	256QAM	1	1		20.34		22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.78	24.90	24.78	26.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.89	24.80	24.67	26.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.75	24.81	24.87	26.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.89	24.94	24.67	26.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.75	24.78	24.70	26.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.80	24.78	24.82	26.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.74	24.92	24.67	26.5



<FR1 n77 HPUE Main Ant Reduced Power> (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		13.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.10		
100	PI/2 BPSK	1	137		11.66		13.0
100	PI/2 BPSK	1	271		11.58		
100	PI/2 BPSK	135	0		11.55		
100	PI/2 BPSK	135	69		11.58		13.0
100	PI/2 BPSK	135	138		11.45		13.0
100	PI/2 BPSK	270	0		11.53		
100	QPSK	1	1		11.11		
100	QPSK	1	137		11.40		13.0
100	QPSK	1	271		11.40		
100	QPSK	135	0		11.55		
100	QPSK	135	69		11.60		13.0
100	QPSK	135	138		11.54		
100	QPSK	270	0		11.56		
100	16QAM	1	1		11.03		13.0
100	64QAM	1	1		11.00		13.0
100	256QAM	1	1		11.41		13.0
Channel				632668	633332	634000	13.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.01	11.03	11.05	
Channel				632000	633332	634666	13.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.04	11.03	11.02	
Channel				631668	633332	635000	13.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.05	11.03	11.00	
Channel				631334	633332	635332	13.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.07	11.02	11.03	
Channel				630668	633332	636000	13.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.00	11.02	11.03	
Channel				630500	633332	636166	13.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	11.01	11.00	11.04	
Channel				630334	633332	636332	13.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	11.50	11.05	11.02	

**<FR1 n77 HPUE MIMO 2 Ant Reduced Power> (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		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.89		15.5
100	PI/2 BPSK	1	137		14.46		
100	PI/2 BPSK	1	271		14.16		
100	PI/2 BPSK	135	0		14.30		15.5
100	PI/2 BPSK	135	69		14.52		15.5
100	PI/2 BPSK	135	138		14.39		15.5
100	PI/2 BPSK	270	0		14.31		
100	QPSK	1	1		13.82		15.5
100	QPSK	1	137		14.37		
100	QPSK	1	271		14.18		
100	QPSK	135	0		14.26		15.5
100	QPSK	135	69		14.50		
100	QPSK	135	138		14.36		
100	QPSK	270	0		14.23		15.5
100	16QAM	1	1		14.20		15.5
100	64QAM	1	1		14.25		15.5
100	256QAM	1	1		14.00		15.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.88	13.85	13.84	15.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.82	13.81	13.77	15.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.87	13.76	13.76	15.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.88	13.81	13.80	15.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.83	13.77	13.79	15.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.88	13.80	13.81	15.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.79	13.78	13.77	15.5

**<FR1 n78 Main Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.26		24.0
100	PI/2 BPSK	1	137		23.18		
100	PI/2 BPSK	1	271		22.28		
100	PI/2 BPSK	135	0		22.78		23.5
100	PI/2 BPSK	135	69		23.04		24.0
100	PI/2 BPSK	135	138		22.79		23.5
100	PI/2 BPSK	270	0		22.94		
100	QPSK	1	1		22.23		24.0
100	QPSK	1	137		22.92		
100	QPSK	1	271		22.25		
100	QPSK	135	0		23.03		24.0
100	QPSK	135	69		23.10		
100	QPSK	135	138		22.89		
100	QPSK	270	0		22.90		23.0
100	16QAM	1	1		22.29		23.0
100	64QAM	1	1		21.39		21.5
100	256QAM	1	1		19.46		19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.17	22.34	22.30	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.17	22.30	22.30	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.16	22.21	22.22	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.24	22.23	22.34	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.26	22.33	22.28	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.22	22.27	22.26	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.28	22.30	22.18	24.0



<FR1 n78 MIMO 2 Ant Default Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.14		24.0
100	PI/2 BPSK	1	137		22.99		
100	PI/2 BPSK	1	271		22.44		
100	PI/2 BPSK	135	0		22.62		23.5
100	PI/2 BPSK	135	69		22.95		24.0
100	PI/2 BPSK	135	138		22.80		23.5
100	PI/2 BPSK	270	0		22.80		
100	QPSK	1	1		22.12		24.0
100	QPSK	1	137		22.88		
100	QPSK	1	271		22.54		
100	QPSK	135	0		22.62		24.0
100	QPSK	135	69		22.88		
100	QPSK	135	138		22.80		
100	QPSK	270	0		22.68		23.0
100	16QAM	1	1		21.90		23.0
100	64QAM	1	1		20.45		21.5
100	256QAM	1	1		18.60		19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.02	22.09	22.03	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.08	22.02	22.11	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.03	22.01	22.11	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.13	22.01	22.04	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.20	22.09	22.08	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.05	22.02	22.21	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.04	22.00	22.02	24.0

**<FR1 n78 MIMO 1 Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		9.97		11.0
100	PI/2 BPSK	1	137		10.01		
100	PI/2 BPSK	1	271		10.20		
100	PI/2 BPSK	135	0		10.18		11.0
100	PI/2 BPSK	135	69		10.19		11.0
100	PI/2 BPSK	135	138		10.25		11.0
100	PI/2 BPSK	270	0		10.23		
100	QPSK	1	1		9.65		11.0
100	QPSK	1	137		10.08		
100	QPSK	1	271		10.27		
100	QPSK	135	0		9.99		11.0
100	QPSK	135	69		10.13		
100	QPSK	135	138		10.16		
100	QPSK	270	0		10.20		11.0
100	16QAM	1	1		9.89		11.0
100	64QAM	1	1		9.63		11.0
100	256QAM	1	1		10.08		11.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.81	9.84	9.82	11.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.80	9.74	9.81	11.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.79	9.74	9.81	11.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.76	9.84	9.80	11.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.76	9.74	9.82	11.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	9.72	9.79	9.72	11.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	9.77	9.84	9.82	11.0

**<FR1 n78 Aux Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		8.67		10.0
100	PI/2 BPSK	1	137		8.95		
100	PI/2 BPSK	1	271		8.88		
100	PI/2 BPSK	135	0		9.03		10.0
100	PI/2 BPSK	135	69		9.10		10.0
100	PI/2 BPSK	135	138		8.90		10.0
100	PI/2 BPSK	270	0		8.97		
100	QPSK	1	1		8.60		10.0
100	QPSK	1	137		8.90		
100	QPSK	1	271		8.79		
100	QPSK	135	0		9.01		10.0
100	QPSK	135	69		9.07		
100	QPSK	135	138		8.90		
100	QPSK	270	0		8.95		10.0
100	16QAM	1	1		8.53		9.5
100	64QAM	1	1		8.34		9.5
100	256QAM	1	1		8.72		9.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	8.87	8.93	8.91	10.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	8.80	8.89	8.89	10.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	8.79	8.87	8.82	10.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	8.79	8.93	8.88	10.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	8.78	8.87	8.87	10.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	8.82	8.85	8.83	10.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	8.87	8.85	8.82	10.0

**<FR1 n78 Main Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		8.33		10.0
100	PI/2 BPSK	1	137		8.63		
100	PI/2 BPSK	1	271		8.55		
100	PI/2 BPSK	135	0		8.60		10.0
100	PI/2 BPSK	135	69		8.68		10.0
100	PI/2 BPSK	135	138		8.51		10.0
100	PI/2 BPSK	270	0		8.65		
100	QPSK	1	1		8.26		10.0
100	QPSK	1	137		8.46		
100	QPSK	1	271		8.52		
100	QPSK	135	0		8.43		10.0
100	QPSK	135	69		8.58		
100	QPSK	135	138		8.64		
100	QPSK	270	0		8.60		10.0
100	16QAM	1	1		8.24		10.0
100	64QAM	1	1		8.20		10.0
100	256QAM	1	1		8.28		10.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	8.19	8.29	8.23	10.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	8.15	8.26	8.31	10.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	8.16	8.22	8.32	10.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	8.21	8.23	8.30	10.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	8.15	8.27	8.27	10.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	8.16	8.28	8.24	10.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	8.15	8.30	8.23	10.0



<FR1 n78 MIMO 2 Ant Reduced Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		10.65		12.5
100	PI/2 BPSK	1	137		10.97		
100	PI/2 BPSK	1	271		11.07		
100	PI/2 BPSK	135	0		11.04		12.5
100	PI/2 BPSK	135	69		11.10		12.5
100	PI/2 BPSK	135	138		11.07		12.5
100	PI/2 BPSK	270	0		11.03		
100	QPSK	1	1		10.50		12.5
100	QPSK	1	137		10.66		
100	QPSK	1	271		10.80		
100	QPSK	135	0		10.65		12.5
100	QPSK	135	69		10.74		
100	QPSK	135	138		10.72		
100	QPSK	270	0		10.71		12.5
100	16QAM	1	1		10.61		12.0
100	64QAM	1	1		10.32		12.0
100	256QAM	1	1		10.78		12.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	10.60	10.56	10.65	12.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	10.54	10.53	10.58	12.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	10.58	10.54	10.63	12.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	10.56	10.52	10.63	12.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	10.51	10.55	10.63	12.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	10.59	10.50	10.59	12.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	10.50	10.52	10.60	12.5

**<FR1 n78 HPUE Main Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.65		26.5
100	PI/2 BPSK	1	137		25.08		
100	PI/2 BPSK	1	271		24.60		
100	PI/2 BPSK	135	0		24.68		26.0
100	PI/2 BPSK	135	69		24.94		26.5
100	PI/2 BPSK	135	138		24.69		26.0
100	PI/2 BPSK	270	0		24.84		
100	QPSK	1	1		24.51		26.5
100	QPSK	1	137		24.82		
100	QPSK	1	271		24.55		
100	QPSK	135	0		24.93		26.5
100	QPSK	135	69		25.00		
100	QPSK	135	138		24.79		
100	QPSK	270	0		24.80		25.5
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		23.29		24.0
100	256QAM	1	1		21.36		22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.57	24.75	24.59	26.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.50	24.70	24.56	26.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.65	24.59	24.63	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.59	24.69	24.70	26.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.50	24.59	24.57	26.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.55	24.56	24.78	26.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.64	24.61	24.56	26.5

**<FR1 n78 HPUE MIMO 2 Ant Default Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.52		26.5
100	PI/2 BPSK	1	137		25.02		
100	PI/2 BPSK	1	271		24.50		
100	PI/2 BPSK	135	0		24.60		26.0
100	PI/2 BPSK	135	69		24.75		26.5
100	PI/2 BPSK	135	138		24.80		26.0
100	PI/2 BPSK	270	0		24.78		
100	QPSK	1	1		24.50		26.5
100	QPSK	1	137		24.69		
100	QPSK	1	271		24.52		
100	QPSK	135	0		24.52		26.5
100	QPSK	135	69		24.88		
100	QPSK	135	138		24.67		
100	QPSK	270	0		24.57		25.5
100	16QAM	1	1		23.89		25.5
100	64QAM	1	1		22.26		24.0
100	256QAM	1	1		20.48		22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.65	24.50	24.61	26.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.54	24.58	24.60	26.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.52	24.63	24.56	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.50	24.53	24.51	26.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.50	24.61	24.54	26.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.57	24.50	24.51	26.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.52	24.54	24.63	26.5

**<FR1 n78 HPUE Main Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		12.35		13.0
100	PI/2 BPSK	1	137		12.65		
100	PI/2 BPSK	1	271		12.37		
100	PI/2 BPSK	135	0		12.63		13.0
100	PI/2 BPSK	135	69		12.61		13.0
100	PI/2 BPSK	135	138		12.46		13.0
100	PI/2 BPSK	270	0		12.63		
100	QPSK	1	1		12.10		13.0
100	QPSK	1	137		12.40		
100	QPSK	1	271		12.42		
100	QPSK	135	0		12.42		13.0
100	QPSK	135	69		12.44		
100	QPSK	135	138		12.57		
100	QPSK	270	0		12.63		13.0
100	16QAM	1	1		12.19		13.0
100	64QAM	1	1		12.16		13.0
100	256QAM	1	1		12.18		13.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.22	12.30	12.22	13.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.18	12.32	12.29	13.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.22	12.23	12.20	13.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.24	12.24	12.22	13.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.17	12.24	12.25	13.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	12.24	12.25	12.24	13.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	12.17	12.33	12.22	13.0

**<FR1 n78 HPUE MIMO 2 Ant Reduced Power>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.82		15.5
100	PI/2 BPSK	1	137		14.33		
100	PI/2 BPSK	1	271		14.01		
100	PI/2 BPSK	135	0		14.15		15.5
100	PI/2 BPSK	135	69		14.41		15.5
100	PI/2 BPSK	135	138		14.33		15.5
100	PI/2 BPSK	270	0		14.26		
100	QPSK	1	1		13.62		15.5
100	QPSK	1	137		14.20		
100	QPSK	1	271		14.17		
100	QPSK	135	0		14.25		15.5
100	QPSK	135	69		14.34		
100	QPSK	135	138		14.29		
100	QPSK	270	0		14.10		15.5
100	16QAM	1	1		14.00		15.5
100	64QAM	1	1		14.15		15.5
100	256QAM	1	1		13.88		15.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.76	13.75	13.82	15.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.73	13.67	13.73	15.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.73	13.73	13.82	15.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.71	13.74	13.81	15.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.69	13.65	13.82	15.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.71	13.74	13.72	15.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.69	13.73	13.76	15.5



<SAR test exclusion table>

General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- 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.
- 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.
- 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
- 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
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

<WWAN Main Antenna>

Exposure Position	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 71/n71	LTE Band 12	LTE Band 13	LTE Band 14	LTE Band 17	LTE Band 5/n5	LTE Band 26	LTE Band 4	LTE Band 66/n66	LTE Band 2/n2	LTE Band 25/n25	LTE Band 30/n30	LTE Band 7/n7	LTE Band 38/n38	LTE Band 41/n41	LTE Band 48	LTE Band n77/n78
	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	713	848	848	1754	1779	1909	1914	2312	2567	2617	2687	3697	3975
	Maximum power (dBm)	24.5	24.5	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0	24.0	21.0	24.0
	Maximum rated power(mW)	281.84	281.84	281.84	316.23	316.23	316.23	316.23	316.23	316.23	316.23	251.19	251.19	251.19	251.19	199.53	251.19	251.19	251.19	125.89	251.19
Bottom Face	Separation distance(mm)	5.0																			
	exclusion threshold	51.9	74.6	77.8	52.7	53.5	56.0	56.4	53.4	58.2	58.2	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	48.4	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0																			
	exclusion threshold	51.9	74.6	77.8	52.7	53.5	56.0	56.4	53.4	58.2	58.2	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	48.4	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	5.0																			
	exclusion threshold	51.9	74.6	77.8	52.7	53.5	56.0	56.4	53.4	58.2	58.2	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	48.4	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 3	Separation distance(mm)	202.0																			
	exclusion threshold	1020.0	1633.0	1629.0	884.0	902.0	964.0	974.0	900.0	1022.0	1022.0	1633.0	1632.0	1629.0	1628.0	1619.0	1614.0	1613.0	1612.0	1598.0	1595.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	226.0																			
	exclusion threshold	1156.0	1873.0	1869.0	995.0	1016.0	1089.0	1101.0	1014.0	1158.0	1158.0	1873.0	1872.0	1869.0	1868.0	1859.0	1854.0	1853.0	1852.0	1838.0	1835.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom of Laptop	Separation distance(mm)	5.0																			
	exclusion threshold	51.9	74.6	77.8	52.7	53.5	56.0	56.4	53.4	58.2	58.2	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	48.4	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<WWAN Aux Antenna>

Exposure Position	Wireless Interface	LTE Band n41	LTE Band n77/n78
	Calculated Frequency (MHz)	2687	3975
	Maximum power (dBm)	12.0	10.0
	Maximum rated power(mW)	15.85	10.00
Bottom Face	Separation distance(mm)	5.0	
	exclusion threshold	5.2	4.0
	Testing required?	Yes	Yes
Edge 1	Separation distance(mm)	5.0	
	exclusion threshold	5.2	4.0
	Testing required?	Yes	Yes
Edge 2	Separation distance(mm)	227.6	
	exclusion threshold	1868.0	1851.0
	Testing required?	No	No
Edge 3	Separation distance(mm)	202.0	
	exclusion threshold	1612.0	1595.0
	Testing required?	No	No
Edge 4	Separation distance(mm)	5.0	
	exclusion threshold	5.2	4.0
	Testing required?	Yes	Yes
Bottom of Laptop	Separation distance(mm)	5.0	
	exclusion threshold	5.2	4.0
	Testing required?	Yes	Yes

<WWAN MIMO 1 Antenna>

Exposure Position	Wireless Interface	LTE Band n41	LTE Band n77/n78
	Calculated Frequency (MHz)	2687	3975
	Maximum power (dBm)	9.0	11.0
	Maximum rated power(mW)	7.94	12.59
Bottom Face	Separation distance(mm)	5.0	
	exclusion threshold	2.6	5.0
	Testing required?	No	Yes
Edge 1	Separation distance(mm)	23.9	
	exclusion threshold	0.5	1.1
	Testing required?	No	No
Edge 2	Separation distance(mm)	5.0	
	exclusion threshold	2.6	5.0
	Testing required?	No	Yes
Edge 3	Separation distance(mm)	159.6	
	exclusion threshold	1188.0	1171.0
	Testing required?	No	No
Edge 4	Separation distance(mm)	301.0	
	exclusion threshold	2602.0	2585.0
	Testing required?	No	No
Bottom of Laptop	Separation distance(mm)	5.0	
	exclusion threshold	2.6	5.0
	Testing required?	No	Yes

<WWAN MIMO 2 Antenna>

Exposure Position	Wireless Interface	WCDMA Band IV	WCDMA Band II	LTE Band 4	LTE Band 66/n66	LTE Band 2/n2	LTE Band 25/n25	LTE Band 30/n30	LTE Band 7/n7	LTE Band 38/n38	LTE Band 41/n41	LTE Band 48	LTE Band n77/n78
	Calculated Frequency (MHz)	1750	1907	1754	1779	1909	1914	2312	2567	2617	2687	3697	3975
	Maximum power (dBm)	24.0	24.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0	24.0	22.0	24.0
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	251.19	251.19	199.53	251.19	251.19	251.19	158.49	251.19
Bottom Face	Separation distance(mm)	5.0											
	exclusion threshold	66.5	69.4	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	61.0	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	25.5											
	exclusion threshold	13.0	13.6	13.1	13.1	13.6	13.6	11.9	15.8	15.9	16.2	12.0	19.6
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	301.0											
	exclusion threshold	2623.0	2619.0	2623.0	2622.0	2619.0	2618.0	2609.0	2604.0	2603.0	2602.0	2588.0	2585.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	158.0											
	exclusion threshold	1193.0	1189.0	1193.0	1192.0	1189.0	1188.0	1179.0	1174.0	1173.0	1172.0	1158.0	1155.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	5.0											
	exclusion threshold	66.5	69.4	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	61.0	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom of Laptop	Separation distance(mm)	5.0											
	exclusion threshold	66.5	69.4	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	61.0	100.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

13. 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.
4. For the exposure positions that proximity sensor power reduction is applied for SAR compliance, additional SAR testing with EUT transmitting full power in sensor trigger distance was performed according to section 4. The test results just verification the sensor trigger distance to meet KDB 616217 requirement, when in normal usage will not operate at trigger distance, therefore, these results were not using performed Sim-Tx analysis

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. The device support SCS 15KHz and 30KHz for NR FDD and TDD and have the same maximum power, in this report only select SCS 15KHz for NR FDD and SCS 30KHz for NR TDD power measurement, due to SCS 15KHz for FDD and SCS 30KHz for TDD have highest support bandwidth, and the NR SAR is $< 1g$ SAR 1.45W/kg. Output power and SAR measurement for SCS30KHz for FDD and SCS15KHz for TDD shall be not necessary.
2. 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. The NR n5/41/66/71/77 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.
 - f. The NR n2/38 SAR test was covered by NR n25/41; due to SAR test for overlapping NR bands can be reduced if the maximum power including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
 - g. 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

**13.1 Body SAR****<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Main	RMC 12.2Kbps	Bottom of Laptop	0mm	Amphenol	ON	9538	1907.6	13.04	13.50	1.112	-0.17	0.352	0.391
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9538	1907.6	13.04	13.50	1.112	-0.07	1.000	1.112
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9262	1852.4	12.98	13.50	1.127	0.14	0.874	0.985
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9400	1880	12.97	13.50	1.130	0.04	0.914	1.033
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	Amphenol	ON	9538	1907.6	13.04	13.50	1.112	-0.05	0.279	0.310
	WCDMA II_Main	RMC 12.2Kbps	Edge 2	0mm	Amphenol	ON	9538	1907.6	13.04	13.50	1.112	0.07	0.075	0.083
	WCDMA II_Main	RMC 12.2Kbps	Bottom of Laptop	29mm	Amphenol	OFF	9538	1907.6	22.96	24.50	1.426	0.04	0.098	0.140
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	34mm	Amphenol	OFF	9538	1907.6	22.96	24.50	1.426	-0.03	0.063	0.090
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	24mm	Amphenol	OFF	9538	1907.6	22.96	24.50	1.426	0.02	0.105	0.150
	WCDMA II_Main	RMC 12.2Kbps	Edge 2	6mm	Amphenol	OFF	9538	1907.6	22.96	24.50	1.426	0.08	0.085	0.121
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	9538	1907.6	13.04	13.50	1.112	0.03	0.858	0.954
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	9262	1852.4	12.98	13.50	1.127	0.12	0.750	0.845
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	9400	1880	12.97	13.50	1.130	0.04	0.784	0.886
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom of Laptop	0mm	Amphenol	ON	9538	1907.6	12.41	12.50	1.021	-0.14	0.219	0.224
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9538	1907.6	12.41	12.50	1.021	0.06	1.050	1.072
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9262	1852.4	12.30	12.50	1.047	0.18	0.889	0.931
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	9400	1880	12.33	12.50	1.040	0.11	0.962	1.000
01	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	9538	1907.6	12.41	12.50	1.021	-0.15	1.140	1.164
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	9262	1852.4	12.30	12.50	1.047	0.05	1.030	1.079
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	9400	1880	12.33	12.50	1.040	0.07	1.070	1.113
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom of Laptop	22mm	Amphenol	OFF	9538	1907.6	22.73	24.00	1.340	0.04	0.188	0.252
	WCDMA II_MIMO 2	RMC 12.2Kbps	Bottom Face	24mm	Amphenol	OFF	9538	1907.6	22.73	24.00	1.340	-0.09	0.164	0.220
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 1	0mm	Amphenol	OFF	9538	1907.6	22.73	24.00	1.340	0.13	0.045	0.060
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	22mm	Amphenol	OFF	9538	1907.6	22.73	24.00	1.340	0.05	0.261	0.350
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	9538	1907.6	12.41	12.50	1.021	0.12	0.934	0.954
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	9262	1852.4	12.30	12.50	1.047	-0.11	0.089	0.093
	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	9400	1880	12.33	12.50	1.040	-0.03	0.865	0.900



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
02	WCDMA IV_Main	RMC 12.2Kbps	Bottom of Laptop	0mm	Amphenol	ON	1312	1712.4	13.44	13.50	1.014	-0.07	0.333	0.338
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1312	1712.4	13.44	13.50	1.014	-0.13	1.070	1.085
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1413	1732.6	13.35	13.50	1.035	0	1.100	1.139
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1513	1752.6	13.29	13.50	1.050	-0.17	1.080	1.134
	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	0mm	Amphenol	ON	1312	1712.4	13.44	13.50	1.014	-0.05	0.303	0.307
	WCDMA IV_Main	RMC 12.2Kbps	Edge 2	0mm	Amphenol	ON	1312	1712.4	13.44	13.50	1.014	-0.12	0.145	0.147
	WCDMA IV_Main	RMC 12.2Kbps	Bottom of Laptop	29mm	Amphenol	OFF	1312	1712.4	23.30	24.50	1.318	0.04	0.136	0.179
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	34mm	Amphenol	OFF	1312	1712.4	23.30	24.50	1.318	0.07	0.091	0.120
	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	24mm	Amphenol	OFF	1312	1712.4	23.30	24.50	1.318	0.12	0.137	0.181
	WCDMA IV_Main	RMC 12.2Kbps	Edge 2	6mm	Amphenol	OFF	1312	1712.4	23.30	24.50	1.318	0.09	0.087	0.115
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	1413	1732.6	13.35	13.50	1.035	-0.14	1.040	1.077
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	1312	1712.4	13.44	13.50	1.014	-0.03	0.868	0.880
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	1513	1752.6	13.29	13.50	1.050	-0.02	0.958	1.005
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom of Laptop	0mm	Amphenol	ON	1513	1752.6	11.76	12.50	1.186	0.14	0.220	0.261
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1513	1752.6	11.76	12.50	1.186	-0.17	0.816	0.968
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1312	1712.4	11.70	12.50	1.202	0.08	0.790	0.950
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1413	1732.6	11.74	12.50	1.191	-0.01	0.816	0.972
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	1513	1752.6	11.76	12.50	1.186	-0.18	0.893	1.059
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	1312	1712.4	11.70	12.50	1.202	-0.13	0.912	1.096
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	1413	1732.6	11.74	12.50	1.191	0.15	0.912	1.086
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom of Laptop	22mm	Amphenol	OFF	1413	1732.6	23.00	24.00	1.259	0.03	0.207	0.261
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Bottom Face	24mm	Amphenol	OFF	1413	1732.6	23.00	24.00	1.259	0.08	0.128	0.161
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 1	0mm	Amphenol	OFF	1413	1732.6	23.00	24.00	1.259	0.06	0.001	0.001
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	22mm	Amphenol	OFF	1413	1732.6	23.00	24.00	1.259	-0.02	0.212	0.267
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	1312	1712.4	11.70	12.50	1.202	-0.07	0.809	0.973
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	1513	1752.6	11.76	12.50	1.186	0.03	0.841	0.997
	WCDMA IV_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	NVC	ON	1413	1732.6	11.74	12.50	1.191	0.08	0.738	0.879
	WCDMA V_Main	RMC 12.2Kbps	Bottom of Laptop	0mm	Amphenol	ON	4132	826.4	13.98	14.50	1.127	-0.13	0.227	0.256
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	4132	826.4	13.98	14.50	1.127	-0.12	0.789	0.889
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	4182	836.4	13.94	14.50	1.138	-0.03	0.850	0.967
03	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	4233	846.6	13.85	14.50	1.161	-0.13	0.869	1.009
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Amphenol	ON	4132	826.4	13.98	14.50	1.127	0.11	0.204	0.230
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	0mm	Amphenol	ON	4132	826.4	13.98	14.50	1.127	-0.17	0.771	0.869
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	0mm	Amphenol	ON	4182	836.4	13.94	14.50	1.138	0.16	0.789	0.898
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	0mm	Amphenol	ON	4233	846.6	13.85	14.50	1.161	0.18	0.829	0.963
	WCDMA V_Main	RMC 12.2Kbps	Bottom of Laptop	29mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	0.04	0.127	0.185
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	34mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	-0.07	0.001	0.001
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	24mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	0.03	0.001	0.001
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	6mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	0.05	0.430	0.626
	WCDMA V_Main	RMC 12.2Kbps	Edge 3	0mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	0.17	0.001	0.001
	WCDMA V_Main	RMC 12.2Kbps	Edge 4	0mm	Amphenol	OFF	4132	826.4	22.87	24.50	1.455	0.19	0.001	0.001
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	4233	846.6	13.85	14.50	1.161	-0.09	0.810	0.941
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	4132	826.4	13.98	14.50	1.127	-0.12	0.843	0.950
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	NVC	ON	4182	836.4	13.94	14.50	1.138	-0.05	0.806	0.917



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	21350	2560	10.31	10.50	1.045	0.02	0.244	0.255
	LTE Band 7_Main	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	21350	2560	10.08	10.50	1.102	0.03	0.237	0.261
	LTE Band 7_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	21350	2560	10.31	10.50	1.045	0.09	0.957	1.000
	LTE Band 7_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	20850	2510	10.16	10.50	1.081	-0.05	0.859	0.929
	LTE Band 7_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	21100	2535	10.24	10.50	1.062	-0.03	0.935	0.993
	LTE Band 7_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	21350	2560	10.08	10.50	1.102	-0.02	0.996	1.097
	LTE Band 7_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	20850	2510	9.87	10.50	1.156	-0.04	0.867	1.002
	LTE Band 7_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	21100	2535	9.98	10.50	1.127	-0.02	0.938	1.057
	LTE Band 7_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	21350	2560	10.05	10.50	1.109	-0.03	0.986	1.094
	LTE Band 7_Main	20M	QPSK	1	49	Edge 1	0mm	Amphenol	ON	21350	2560	10.31	10.50	1.045	0.02	0.191	0.200
	LTE Band 7_Main	20M	QPSK	50	24	Edge 1	0mm	Amphenol	ON	21350	2560	10.08	10.50	1.102	0.08	0.194	0.214
	LTE Band 7_Main	20M	QPSK	1	49	Edge 2	0mm	Amphenol	ON	21350	2560	10.31	10.50	1.045	0.12	0.001	0.001
	LTE Band 7_Main	20M	QPSK	50	24	Edge 2	0mm	Amphenol	ON	21350	2560	10.08	10.50	1.102	0.11	0.001	0.001
	LTE Band 7_Main	20M	QPSK	1	49	Bottom of Laptop	29mm	Amphenol	OFF	21350	2560	22.57	24.00	1.390	0.08	0.069	0.096
	LTE Band 7_Main	20M	QPSK	50	24	Bottom of Laptop	29mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	-0.16	0.052	0.072
	LTE Band 7_Main	20M	QPSK	1	49	Bottom Face	34mm	Amphenol	OFF	21350	2560	22.57	24.00	1.390	0.19	0.082	0.114
	LTE Band 7_Main	20M	QPSK	50	24	Bottom Face	34mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	-0.03	0.067	0.093
	LTE Band 7_Main	20M	QPSK	1	49	Edge 1	24mm	Amphenol	OFF	21350	2560	22.57	24.00	1.390	-0.12	0.104	0.145
	LTE Band 7_Main	20M	QPSK	50	24	Edge 1	24mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	0.06	0.088	0.122
	LTE Band 7_Main	20M	QPSK	1	49	Edge 2	6mm	Amphenol	OFF	21350	2560	22.57	24.00	1.390	-0.13	0.156	0.217
	LTE Band 7_Main	20M	QPSK	50	24	Edge 2	6mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	-0.11	0.128	0.178
	LTE Band 7C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	21350	2560	9.74	10.50	1.191	0.18	0.852	1.015
	LTE Band 7C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	20850	2510	9.60	10.50	1.230	0.05	0.848	1.043
	LTE Band 7C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	21100	2535	9.72	10.50	1.197	0.16	0.877	1.050
	LTE Band 7_Main	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	21350	2560	10.08	10.50	1.102	0.01	0.648	0.714
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	21100	2535	8.98	9.50	1.127	0	0.153	0.172
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	21100	2535	8.97	9.50	1.130	0.03	0.164	0.185
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	21100	2535	8.98	9.50	1.127	-0.03	0.927	1.045
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	20850	2510	8.84	9.50	1.164	0.03	0.877	1.021
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	21350	2560	8.90	9.50	1.148	0.01	0.946	1.086
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	21100	2535	8.97	9.50	1.130	-0.05	0.976	1.103
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	20850	2510	8.94	9.50	1.138	0.01	0.912	1.038
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	21350	2560	8.96	9.50	1.132	-0.03	0.995	1.127
	LTE Band 7_MIMO 2	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	21100	2535	8.96	9.50	1.132	0.03	0.988	1.119
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	21100	2535	8.98	9.50	1.127	0.02	0.929	1.047
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	20850	2510	8.84	9.50	1.164	-0.02	0.872	1.015
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	21350	2560	8.90	9.50	1.148	0.01	0.982	1.127
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	21100	2535	8.97	9.50	1.130	0.05	0.986	1.114
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	20850	2510	8.94	9.50	1.138	-0.03	0.933	1.061
04	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	21350	2560	8.96	9.50	1.132	-0.04	1.020	1.155
	LTE Band 7_MIMO 2	20M	QPSK	100	0	Edge 4	0mm	Amphenol	ON	21100	2535	8.96	9.50	1.132	0.04	0.989	1.120
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	22mm	Amphenol	OFF	21350	2560	22.53	24.00	1.403	-0.19	0.294	0.412
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	22mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	-0.13	0.249	0.345
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Bottom Face	24mm	Amphenol	OFF	21350	2560	22.53	24.00	1.403	0.18	0.381	0.534
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Bottom Face	24mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	0.05	0.324	0.449
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Edge 1	0mm	Amphenol	OFF	21350	2560	22.53	24.00	1.403	-0.01	0.001	0.001
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 1	0mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	0.05	0.001	0.001
	LTE Band 7_MIMO 2	20M	QPSK	1	49	Edge 4	22mm	Amphenol	OFF	21350	2560	22.53	24.00	1.403	0.09	0.395	0.554
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	22mm	Amphenol	OFF	21350	2560	21.58	23.00	1.387	-0.08	0.335	0.465
	LTE Band 7C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	21100	2535	8.99	9.50	1.125	0.02	0.835	0.939
	LTE Band 7C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	20850	2510	8.94	9.50	1.138	0.18	0.867	0.986
	LTE Band 7C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	21350	2560	8.94	9.50	1.138	0.05	0.829	0.943
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	21350	2560	8.96	9.50	1.132	0.04	0.769	0.871
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	21100	2535	8.97	9.50	1.130	-0.03	0.753	0.851
	LTE Band 7_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	20850	2510	8.94	9.50	1.138	0.01	0.760	0.865



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 12_Main	10M	QPSK	1	25	Bottom of Laptop	0mm	Amphenol	ON	23095	707.5	14.50	14.50	1.000	0.11	0.130	0.130
	LTE Band 12_Main	10M	QPSK	25	12	Bottom of Laptop	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026	-0.01	0.124	0.127
	LTE Band 12_Main	10M	QPSK	1	25	Bottom Face	0mm	Amphenol	ON	23095	707.5	14.50	14.50	1.000	0.09	0.301	0.301
	LTE Band 12_Main	10M	QPSK	25	12	Bottom Face	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026	-0.11	0.317	0.325
	LTE Band 12_Main	10M	QPSK	1	25	Edge 1	0mm	Amphenol	ON	23095	707.5	14.50	14.50	1.000	0.11	0.050	0.050
	LTE Band 12_Main	10M	QPSK	25	12	Edge 1	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026	-0.19	0.049	0.050
	LTE Band 12_Main	10M	QPSK	1	25	Edge 2	0mm	Amphenol	ON	23095	707.5	14.50	14.50	1.000	-0.05	0.845	0.845
05	LTE Band 12_Main	10M	QPSK	25	12	Edge 2	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026	-0.02	0.964	0.989
	LTE Band 12_Main	10M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	23095	707.5	14.23	14.50	1.064	0.15	0.858	0.913
	LTE Band 12_Main	10M	QPSK	1	25	Bottom of Laptop	29mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	-0.07	0.052	0.068
	LTE Band 12_Main	10M	QPSK	25	25	Bottom of Laptop	29mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	0.15	0.041	0.055
	LTE Band 12_Main	10M	QPSK	1	25	Bottom Face	34mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	0.04	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	25	Bottom Face	34mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	-0.04	0.001	0.001
	LTE Band 12_Main	10M	QPSK	1	25	Edge 1	24mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	-0.08	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	25	Edge 1	24mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	0.06	0.001	0.001
	LTE Band 12_Main	10M	QPSK	1	25	Edge 2	6mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	-0.15	0.310	0.408
	LTE Band 12_Main	10M	QPSK	25	25	Edge 2	6mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	0.14	0.275	0.366
	LTE Band 12_Main	10M	QPSK	1	25	Edge 3	0mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	0.1	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	25	Edge 3	0mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	0.09	0.001	0.001
	LTE Band 12_Main	10M	QPSK	1	25	Edge 4	0mm	Amphenol	OFF	23095	707.5	23.81	25.00	1.315	0.01	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	25	Edge 4	0mm	Amphenol	OFF	23095	707.5	22.76	24.00	1.330	-0.08	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	12	Edge 2	0mm	NVC	ON	23095	707.5	14.39	14.50	1.026	-0.1	0.920	0.944
	LTE Band 13_Main	10M	QPSK	1	25	Bottom of Laptop	0mm	Amphenol	ON	23230	782	14.92	15.00	1.019	0.15	0.235	0.239
	LTE Band 13_Main	10M	QPSK	25	12	Bottom of Laptop	0mm	Amphenol	ON	23230	782	14.74	15.00	1.062	-0.08	0.227	0.241
	LTE Band 13_Main	10M	QPSK	1	25	Bottom Face	0mm	Amphenol	ON	23230	782	14.92	15.00	1.019	-0.08	0.455	0.463
	LTE Band 13_Main	10M	QPSK	25	12	Bottom Face	0mm	Amphenol	ON	23230	782	14.74	15.00	1.062	0.08	0.443	0.470
	LTE Band 13_Main	10M	QPSK	1	25	Edge 1	0mm	Amphenol	ON	23230	782	14.92	15.00	1.019	0.02	0.142	0.145
	LTE Band 13_Main	10M	QPSK	25	12	Edge 1	0mm	Amphenol	ON	23230	782	14.74	15.00	1.062	0.14	0.132	0.140
06	LTE Band 13_Main	10M	QPSK	1	25	Edge 2	0mm	Amphenol	ON	23230	782	14.92	15.00	1.019	-0.05	0.804	0.819
	LTE Band 13_Main	10M	QPSK	25	12	Edge 2	0mm	Amphenol	ON	23230	782	14.74	15.00	1.062	0.14	0.752	0.798
	LTE Band 13_Main	10M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	23230	782	14.66	15.00	1.081	-0.08	0.753	0.814
	LTE Band 13_Main	10M	QPSK	1	25	Bottom of Laptop	29mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	-0.1	0.111	0.144
	LTE Band 13_Main	10M	QPSK	25	12	Bottom of Laptop	29mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	0.18	0.092	0.121
	LTE Band 13_Main	10M	QPSK	1	25	Bottom Face	34mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	0.18	0.001	0.001
	LTE Band 13_Main	10M	QPSK	25	12	Bottom Face	34mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	0.11	0.001	0.001
	LTE Band 13_Main	10M	QPSK	1	25	Edge 1	24mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	-0.14	0.001	0.001
	LTE Band 13_Main	10M	QPSK	25	12	Edge 1	24mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	-0.19	0.001	0.001
	LTE Band 13_Main	10M	QPSK	1	25	Edge 2	6mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	0.04	0.232	0.301
	LTE Band 13_Main	10M	QPSK	25	12	Edge 2	6mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	-0.09	0.178	0.235
	LTE Band 13_Main	10M	QPSK	1	25	Edge 3	0mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	0.04	0.001	0.001
	LTE Band 13_Main	10M	QPSK	25	12	Edge 3	0mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	-0.17	0.001	0.001
	LTE Band 13_Main	10M	QPSK	1	25	Edge 4	0mm	Amphenol	OFF	23230	782	23.87	25.00	1.297	0.05	0.001	0.001
	LTE Band 13_Main	10M	QPSK	25	12	Edge 4	0mm	Amphenol	OFF	23230	782	22.80	24.00	1.318	-0.12	0.001	0.001
	LTE Band 13_Main	10M	QPSK	1	25	Edge 2	0mm	NVC	ON	23230	782	14.92	15.00	1.019	0.05	0.769	0.783



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Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 14_Main	10M	QPSK	1	25	Bottom of Laptop	0mm	Amphenol	ON	23330	793	15.30	15.50	1.047	-0.12	0.251	0.263
	LTE Band 14_Main	10M	QPSK	25	12	Bottom of Laptop	0mm	Amphenol	ON	23330	793	15.17	15.50	1.079	0.11	0.257	0.277
	LTE Band 14_Main	10M	QPSK	1	25	Bottom Face	0mm	Amphenol	ON	23330	793	15.30	15.50	1.047	-0.08	0.501	0.525
	LTE Band 14_Main	10M	QPSK	25	12	Bottom Face	0mm	Amphenol	ON	23330	793	15.17	15.50	1.079	0.05	0.519	0.560
	LTE Band 14_Main	10M	QPSK	1	25	Edge 1	0mm	Amphenol	ON	23330	793	15.30	15.50	1.047	0.06	0.161	0.169
	LTE Band 14_Main	10M	QPSK	25	12	Edge 1	0mm	Amphenol	ON	23330	793	15.17	15.50	1.079	-0.19	0.164	0.177
	LTE Band 14_Main	10M	QPSK	1	25	Edge 2	0mm	Amphenol	ON	23330	793	15.30	15.50	1.047	-0.14	0.807	0.845
07	LTE Band 14_Main	10M	QPSK	25	12	Edge 2	0mm	Amphenol	ON	23330	793	15.17	15.50	1.079	-0.08	0.843	0.910
	LTE Band 14_Main	10M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	23330	793	15.14	15.50	1.086	0.1	0.835	0.907
	LTE Band 14_Main	10M	QPSK	1	25	Bottom of Laptop	29mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	0.09	0.109	0.144
	LTE Band 14_Main	10M	QPSK	25	12	Bottom of Laptop	29mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	-0.12	0.092	0.124
	LTE Band 14_Main	10M	QPSK	1	25	Bottom Face	34mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	-0.19	0.001	0.001
	LTE Band 14_Main	10M	QPSK	25	12	Bottom Face	34mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	0.11	0.001	0.001
	LTE Band 14_Main	10M	QPSK	1	25	Edge 1	24mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	-0.18	0.001	0.001
	LTE Band 14_Main	10M	QPSK	25	12	Edge 1	24mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	0.08	0.001	0.001
	LTE Band 14_Main	10M	QPSK	1	25	Edge 2	6mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	-0.18	0.115	0.152
	LTE Band 14_Main	10M	QPSK	25	12	Edge 2	6mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	-0.1	0.157	0.211
	LTE Band 14_Main	10M	QPSK	1	25	Edge 3	0mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	-0.13	0.001	0.001
	LTE Band 14_Main	10M	QPSK	25	12	Edge 3	0mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	0.17	0.001	0.001
	LTE Band 14_Main	10M	QPSK	1	25	Edge 4	0mm	Amphenol	OFF	23330	793	23.79	25.00	1.321	0.02	0.001	0.001
	LTE Band 14_Main	10M	QPSK	25	12	Edge 4	0mm	Amphenol	OFF	23330	793	22.71	24.00	1.346	-0.13	0.001	0.001
	LTE Band 14_Main	10M	QPSK	50	0	Edge 2	0mm	NVC	ON	23330	793	15.14	15.50	1.086	-0.13	0.721	0.783



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 25_Main	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	26590	1905	12.99	13.00	1.002	-0.05	0.404	0.405
	LTE Band 25_Main	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	26590	1905	12.93	13.00	1.016	-0.06	0.406	0.413
	LTE Band 25_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26590	1905	12.99	13.00	1.002	-0.13	0.934	0.936
	LTE Band 25_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26140	1860	12.97	13.00	1.007	-0.09	0.991	0.998
	LTE Band 25_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26340	1880	12.94	13.00	1.014	-0.11	1.020	1.034
	LTE Band 25_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26590	1905	12.93	13.00	1.016	0.13	1.080	1.098
	LTE Band 25_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26140	1860	12.92	13.00	1.019	-0.07	1.070	1.090
	LTE Band 25_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26340	1880	12.84	13.00	1.038	0.04	1.030	1.069
08	LTE Band 25_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	26590	1905	12.83	13.00	1.040	-0.04	1.090	1.134
	LTE Band 25_Main	20M	QPSK	1	49	Edge 1	0mm	Amphenol	ON	26590	1905	12.99	13.00	1.002	0.1	0.277	0.278
	LTE Band 25_Main	20M	QPSK	50	24	Edge 1	0mm	Amphenol	ON	26590	1905	12.93	13.00	1.016	0.18	0.286	0.291
	LTE Band 25_Main	20M	QPSK	1	49	Edge 2	0mm	Amphenol	ON	26590	1905	12.99	13.00	1.002	-0.06	0.074	0.074
	LTE Band 25_Main	20M	QPSK	50	24	Edge 2	0mm	Amphenol	ON	26590	1905	12.93	13.00	1.016	0.19	0.072	0.073
	LTE Band 25_Main	20M	QPSK	1	49	Bottom of Laptop	29mm	Amphenol	OFF	26590	1905	22.55	24.00	1.396	-0.15	0.097	0.135
	LTE Band 25_Main	20M	QPSK	50	0	Bottom of Laptop	29mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	0.01	0.088	0.123
	LTE Band 25_Main	20M	QPSK	1	49	Bottom Face	34mm	Amphenol	OFF	26590	1905	22.55	24.00	1.396	0.1	0.057	0.080
	LTE Band 25_Main	20M	QPSK	50	0	Bottom Face	34mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	0	0.051	0.072
	LTE Band 25_Main	20M	QPSK	1	49	Edge 1	24mm	Amphenol	OFF	26590	1905	22.55	24.00	1.396	0.11	0.092	0.128
	LTE Band 25_Main	20M	QPSK	50	0	Edge 1	24mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	-0.11	0.079	0.111
	LTE Band 25_Main	20M	QPSK	1	49	Edge 2	6mm	Amphenol	OFF	26590	1905	22.55	24.00	1.396	-0.03	0.082	0.115
	LTE Band 25_Main	20M	QPSK	50	0	Edge 2	6mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	-0.03	0.071	0.100
	LTE Band 25_Main	20M	QPSK	100	0	Bottom Face	0mm	NVC	ON	26590	1905	12.83	13.00	1.040	-0.11	0.877	0.912
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	26340	1880	11.75	12.00	1.059	-0.18	0.215	0.228
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	26340	1880	11.71	12.00	1.069	0.18	0.218	0.233
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26340	1880	11.75	12.00	1.059	0.12	0.821	0.870
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26140	1860	11.57	12.00	1.104	-0.06	0.784	0.866
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	26590	1905	11.67	12.00	1.079	-0.06	0.914	0.986
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26340	1880	11.71	12.00	1.069	-0.04	0.833	0.891
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26140	1860	11.70	12.00	1.072	-0.14	0.802	0.859
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	26590	1905	11.68	12.00	1.076	-0.05	0.950	1.023
	LTE Band 25_MIMO 2	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	26590	1905	11.70	12.00	1.072	-0.03	0.821	0.880
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	26340	1880	11.75	12.00	1.059	-0.04	0.896	0.949
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	26140	1860	11.57	12.00	1.104	0.09	0.850	0.938
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	26590	1905	11.67	12.00	1.079	0.11	0.958	1.034
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	26340	1880	11.71	12.00	1.069	-0.02	0.913	0.976
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	26140	1860	11.70	12.00	1.072	-0.05	0.869	0.931
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	26590	1905	11.68	12.00	1.076	-0.02	0.995	1.071
	LTE Band 25_MIMO 2	20M	QPSK	100	0	Edge 4	0mm	Amphenol	ON	26590	1905	11.70	12.00	1.072	0.09	0.924	0.990
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	22mm	Amphenol	OFF	26590	1905	22.52	24.00	1.406	-0.01	0.196	0.276
	LTE Band 25_MIMO 2	20M	QPSK	50	0	Bottom of Laptop	22mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	-0.02	0.198	0.278
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Bottom Face	24mm	Amphenol	OFF	26590	1905	22.52	24.00	1.406	-0.1	0.146	0.205
	LTE Band 25_MIMO 2	20M	QPSK	50	0	Bottom Face	24mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	0.17	0.141	0.198
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Edge 1	0mm	Amphenol	OFF	26590	1905	22.52	24.00	1.406	0.1	0.001	0.001
	LTE Band 25_MIMO 2	20M	QPSK	50	0	Edge 1	0mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	0.05	0.001	0.001
	LTE Band 25_MIMO 2	20M	QPSK	1	49	Edge 4	22mm	Amphenol	OFF	26590	1905	22.52	24.00	1.406	-0.16	0.251	0.353
	LTE Band 25_MIMO 2	20M	QPSK	50	0	Edge 4	22mm	Amphenol	OFF	26590	1905	21.53	23.00	1.403	0.09	0.243	0.341
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	26590	1905	11.68	12.00	1.076	-0.16	0.961	1.034
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	26140	1860	11.70	12.00	1.072	0.04	0.953	1.021
	LTE Band 25_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	26340	1880	11.71	12.00	1.069	-0.06	0.934	0.998



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 26_Main	15M	QPSK	1	37	Bottom of Laptop	0mm	Amphenol	ON	26865	831.5	14.35	14.50	1.035	-0.12	0.171	0.177
	LTE Band 26_Main	15M	QPSK	36	20	Bottom of Laptop	0mm	Amphenol	ON	26865	831.5	14.11	14.50	1.094	0.15	0.174	0.190
	LTE Band 26_Main	15M	QPSK	1	37	Bottom Face	0mm	Amphenol	ON	26865	831.5	14.35	14.50	1.035	-0.06	0.565	0.585
09	LTE Band 26_Main	15M	QPSK	36	20	Bottom Face	0mm	Amphenol	ON	26865	831.5	14.11	14.50	1.094	-0.08	0.586	0.641
	LTE Band 26_Main	15M	QPSK	1	37	Edge 1	0mm	Amphenol	ON	26865	831.5	14.35	14.50	1.035	0.18	0.121	0.125
	LTE Band 26_Main	15M	QPSK	36	20	Edge 1	0mm	Amphenol	ON	26865	831.5	14.11	14.50	1.094	0.02	0.126	0.138
	LTE Band 26_Main	15M	QPSK	1	37	Edge 2	0mm	Amphenol	ON	26865	831.5	14.35	14.50	1.035	0.14	0.518	0.536
	LTE Band 26_Main	15M	QPSK	36	20	Edge 2	0mm	Amphenol	ON	26865	831.5	14.11	14.50	1.094	0.09	0.510	0.558
	LTE Band 26_Main	15M	QPSK	1	37	Bottom of Laptop	29mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.05	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	20	Bottom of Laptop	29mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	-0.18	0.001	0.001
	LTE Band 26_Main	15M	QPSK	1	37	Bottom Face	34mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.04	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	20	Bottom Face	34mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	0.15	0.001	0.001
	LTE Band 26_Main	15M	QPSK	1	37	Edge 1	24mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.02	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	20	Edge 1	24mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	0.08	0.001	0.001
	LTE Band 26_Main	15M	QPSK	1	37	Edge 2	6mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.12	0.101	0.133
	LTE Band 26_Main	15M	QPSK	36	20	Edge 2	6mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	-0.14	0.092	0.122
	LTE Band 26_Main	15M	QPSK	1	37	Edge 3	0mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.19	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	20	Edge 3	0mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	-0.07	0.001	0.001
	LTE Band 26_Main	15M	QPSK	1	37	Edge 4	0mm	Amphenol	OFF	26865	831.5	23.80	25.00	1.318	-0.12	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	20	Edge 4	0mm	Amphenol	OFF	26865	831.5	22.77	24.00	1.327	0.19	0.001	0.001
	LTE Band 5B_Main	10M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	20575	841.5	13.14	14.50	1.368	-0.07	0.456	0.624
	LTE Band 26_Main	15M	QPSK	36	20	Bottom Face	0mm	NVC	ON	26865	831.5	14.11	14.50	1.094	0.01	0.453	0.496



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 30_Main	10M	QPSK	1	0	Bottom of Laptop	0mm	Amphenol	ON	27710	2310	10.86	11.50	1.159	-0.17	0.294	0.341
	LTE Band 30_Main	10M	QPSK	25	12	Bottom of Laptop	0mm	Amphenol	ON	27710	2310	10.76	11.50	1.186	0.08	0.294	0.349
	LTE Band 30_Main	10M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	27710	2310	10.86	11.50	1.159	0.17	0.935	1.083
	LTE Band 30_Main	10M	QPSK	25	12	Bottom Face	0mm	Amphenol	ON	27710	2310	10.76	11.50	1.186	0.14	0.944	1.119
10	LTE Band 30_Main	10M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	27710	2310	10.61	11.50	1.227	-0.18	0.932	1.144
	LTE Band 30_Main	10M	QPSK	1	0	Edge 1	0mm	Amphenol	ON	27710	2310	10.86	11.50	1.159	-0.05	0.197	0.228
	LTE Band 30_Main	10M	QPSK	25	12	Edge 1	0mm	Amphenol	ON	27710	2310	10.76	11.50	1.186	-0.15	0.188	0.223
	LTE Band 30_Main	10M	QPSK	1	0	Edge 2	0mm	Amphenol	ON	27710	2310	10.86	11.50	1.159	-0.16	0.381	0.441
	LTE Band 30_Main	10M	QPSK	25	12	Edge 2	0mm	Amphenol	ON	27710	2310	10.76	11.50	1.186	0.09	0.382	0.453
	LTE Band 30_Main	10M	QPSK	1	25	Bottom of Laptop	29mm	Amphenol	OFF	27710	2310	21.78	23.00	1.324	0.14	0.078	0.103
	LTE Band 30_Main	10M	QPSK	25	0	Bottom of Laptop	29mm	Amphenol	OFF	27710	2310	20.75	22.00	1.334	0.06	0.067	0.089
	LTE Band 30_Main	10M	QPSK	1	25	Bottom Face	34mm	Amphenol	OFF	27710	2310	21.78	23.00	1.324	0	0.055	0.073
	LTE Band 30_Main	10M	QPSK	25	0	Bottom Face	34mm	Amphenol	OFF	27710	2310	20.75	22.00	1.334	0.19	0.047	0.063
	LTE Band 30_Main	10M	QPSK	1	25	Edge 1	24mm	Amphenol	OFF	27710	2310	21.78	23.00	1.324	0.02	0.069	0.091
	LTE Band 30_Main	10M	QPSK	25	0	Edge 1	24mm	Amphenol	OFF	27710	2310	20.75	22.00	1.334	-0.07	0.061	0.081
	LTE Band 30_Main	10M	QPSK	1	25	Edge 2	6mm	Amphenol	OFF	27710	2310	21.78	23.00	1.324	0.17	0.146	0.193
	LTE Band 30_Main	10M	QPSK	25	0	Edge 2	6mm	Amphenol	OFF	27710	2310	20.75	22.00	1.334	0.04	0.122	0.163
	LTE Band 30_Main	10M	QPSK	50	0	Bottom Face	0mm	NVC	ON	27710	2310	10.61	11.50	1.227	0.14	0.650	0.798
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Bottom of Laptop	0mm	Amphenol	ON	27710	2310	10.15	10.50	1.084	-0.17	0.161	0.175
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Bottom of Laptop	0mm	Amphenol	ON	27710	2310	10.08	10.50	1.102	0.02	0.156	0.172
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	27710	2310	10.15	10.50	1.084	-0.13	0.891	0.966
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Bottom Face	0mm	Amphenol	ON	27710	2310	10.08	10.50	1.102	-0.06	0.854	0.941
	LTE Band 30_MIMO 2	10M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	27710	2310	9.92	10.50	1.143	-0.02	0.860	0.983
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	27710	2310	10.15	10.50	1.084	0.19	0.784	0.850
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Edge 4	0mm	Amphenol	ON	27710	2310	10.08	10.50	1.102	0.16	0.747	0.823
	LTE Band 30_MIMO 2	10M	QPSK	50	0	Edge 4	0mm	Amphenol	ON	27710	2310	9.92	10.50	1.143	0.08	0.745	0.851
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Bottom of Laptop	22mm	Amphenol	OFF	27710	2310	21.39	23.00	1.449	0.07	0.180	0.261
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Bottom of Laptop	22mm	Amphenol	OFF	27710	2310	20.34	22.00	1.466	0.15	0.148	0.217
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Bottom Face	24mm	Amphenol	OFF	27710	2310	21.39	23.00	1.449	-0.08	0.196	0.284
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Bottom Face	24mm	Amphenol	OFF	27710	2310	20.34	22.00	1.466	0.09	0.161	0.236
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Edge 1	0mm	Amphenol	OFF	27710	2310	21.39	23.00	1.449	-0.07	0.001	0.001
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Edge 1	0mm	Amphenol	OFF	27710	2310	20.34	22.00	1.466	0.01	0.001	0.001
	LTE Band 30_MIMO 2	10M	QPSK	1	0	Edge 4	22mm	Amphenol	OFF	27710	2310	21.39	23.00	1.449	-0.09	0.293	0.424
	LTE Band 30_MIMO 2	10M	QPSK	25	0	Edge 4	22mm	Amphenol	OFF	27710	2310	20.34	22.00	1.466	-0.12	0.249	0.365
	LTE Band 30_MIMO 2	10M	QPSK	50	0	Bottom Face	0mm	NVC	ON	27710	2310	9.92	10.50	1.143	-0.07	0.585	0.669



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	132322	1745	13.33	13.50	1.040	0.01	0.343	0.357
	LTE Band 66_Main	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	132322	1745	13.12	13.50	1.091	0.05	0.362	0.395
	LTE Band 66_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132322	1745	13.33	13.50	1.040	0.19	0.993	1.033
	LTE Band 66_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132072	1720	13.29	13.50	1.050	-0.12	0.988	1.037
	LTE Band 66_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132572	1770	13.26	13.50	1.057	-0.11	0.998	1.055
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132322	1745	13.12	13.50	1.091	0.07	1.030	1.124
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132072	1720	13.11	13.50	1.094	0.18	1.000	1.094
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132572	1770	13.07	13.50	1.104	-0.19	1.060	1.170
	LTE Band 66_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	132072	1720	13.03	13.50	1.114	-0.05	1.040	1.159
	LTE Band 66_Main	20M	QPSK	1	49	Edge 1	0mm	Amphenol	ON	132322	1745	13.33	13.50	1.040	-0.11	0.315	0.328
	LTE Band 66_Main	20M	QPSK	50	24	Edge 1	0mm	Amphenol	ON	132322	1745	13.12	13.50	1.091	0.02	0.321	0.350
	LTE Band 66_Main	20M	QPSK	1	49	Edge 2	0mm	Amphenol	ON	132322	1745	13.33	13.50	1.040	-0.05	0.134	0.139
	LTE Band 66_Main	20M	QPSK	50	24	Edge 2	0mm	Amphenol	ON	132322	1745	13.12	13.50	1.091	0.01	0.148	0.162
	LTE Band 66_Main	20M	QPSK	1	49	Bottom of Laptop	29mm	Amphenol	OFF	132072	1720	22.83	24.00	1.309	-0.12	0.103	0.135
	LTE Band 66_Main	20M	QPSK	50	24	Bottom of Laptop	29mm	Amphenol	OFF	132072	1720	21.80	23.00	1.318	-0.14	0.091	0.120
	LTE Band 66_Main	20M	QPSK	1	49	Bottom Face	34mm	Amphenol	OFF	132072	1720	22.83	24.00	1.309	0.06	0.076	0.099
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	34mm	Amphenol	OFF	132072	1720	21.80	23.00	1.318	-0.18	0.065	0.086
	LTE Band 66_Main	20M	QPSK	1	49	Edge 1	24mm	Amphenol	OFF	132072	1720	22.83	24.00	1.309	-0.04	0.103	0.135
	LTE Band 66_Main	20M	QPSK	50	24	Edge 1	24mm	Amphenol	OFF	132072	1720	21.80	23.00	1.318	0.08	0.089	0.117
	LTE Band 66_Main	20M	QPSK	1	49	Edge 2	6mm	Amphenol	OFF	132072	1720	22.83	24.00	1.309	-0.11	0.054	0.071
	LTE Band 66_Main	20M	QPSK	50	24	Edge 2	6mm	Amphenol	OFF	132072	1720	21.80	23.00	1.318	-0.1	0.047	0.062
	LTE Band 66B_Main	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132597	1772.5	12.64	13.50	1.219	0.16	0.812	0.990
	LTE Band 66B_Main	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132047	1717.5	12.63	13.50	1.222	0.06	0.793	0.969
	LTE Band 66B_Main	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132322	1745	12.52	13.50	1.253	0.19	0.774	0.970
	LTE Band 66C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132322	1745	12.75	13.50	1.189	-0.01	0.754	0.896
	LTE Band 66C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132072	1720	12.69	13.50	1.205	-0.03	0.732	0.882
	LTE Band 66C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132572	1770	12.70	13.50	1.202	0.12	0.726	0.873
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132572	1770	13.07	13.50	1.104	0.05	0.836	0.923
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132072	1720	13.11	13.50	1.094	0.04	0.828	0.906
	LTE Band 66_Main	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132322	1745	13.12	13.50	1.091	-0.09	0.796	0.869



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	132322	1745	12.76	13.00	1.057	-0.05	0.318	0.336
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	132322	1745	12.61	13.00	1.094	0.14	0.325	0.356
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132322	1745	12.76	13.00	1.057	0.05	1.030	1.089
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132072	1720	12.64	13.00	1.086	0.02	1.040	1.130
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	132572	1770	12.58	13.00	1.102	0.15	1.030	1.135
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132322	1745	12.61	13.00	1.094	0.13	1.040	1.138
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132072	1720	12.42	13.00	1.143	-0.01	1.030	1.177
11	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	132572	1770	12.58	13.00	1.102	-0.15	1.070	1.179
	LTE Band 66_MIMO 2	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	132322	1745	12.43	13.00	1.140	-0.12	1.030	1.174
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	132322	1745	12.76	13.00	1.057	-0.07	1.030	1.089
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	132072	1720	12.64	13.00	1.086	-0.1	1.020	1.108
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	132572	1770	12.58	13.00	1.102	-0.06	0.984	1.084
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	132322	1745	12.61	13.00	1.094	-0.14	1.060	1.160
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	132072	1720	12.42	13.00	1.143	0.16	1.010	1.154
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	132572	1770	12.58	13.00	1.102	0.19	0.992	1.093
	LTE Band 66_MIMO 2	20M	QPSK	100	0	Edge 4	0mm	Amphenol	ON	132322	1745	12.43	13.00	1.140	0.13	1.000	1.140
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	22mm	Amphenol	OFF	132322	1745	22.45	24.00	1.429	-0.15	0.258	0.369
	LTE Band 66_MIMO 2	20M	QPSK	50	0	Bottom of Laptop	22mm	Amphenol	OFF	132322	1745	21.50	23.00	1.413	0.11	0.208	0.294
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Bottom Face	24mm	Amphenol	OFF	132322	1745	22.45	24.00	1.429	0.07	0.144	0.206
	LTE Band 66_MIMO 2	20M	QPSK	50	0	Bottom Face	24mm	Amphenol	OFF	132322	1745	21.50	23.00	1.413	0.08	0.112	0.158
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Edge 1	0mm	Amphenol	OFF	132322	1745	22.45	24.00	1.429	0.05	0.001	0.001
	LTE Band 66_MIMO 2	20M	QPSK	50	0	Edge 1	0mm	Amphenol	OFF	132322	1745	21.50	23.00	1.413	-0.04	0.001	0.001
	LTE Band 66_MIMO 2	20M	QPSK	1	49	Edge 4	22mm	Amphenol	OFF	132322	1745	22.45	24.00	1.429	0.03	0.258	0.369
	LTE Band 66_MIMO 2	20M	QPSK	50	0	Edge 4	22mm	Amphenol	OFF	132322	1745	21.50	23.00	1.413	0.17	0.212	0.299
	LTE Band 66B_MIMO 2	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132597	1772.5	12.30	13.00	1.175	-0.03	0.742	0.872
	LTE Band 66B_MIMO 2	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132047	1717.5	12.06	13.00	1.242	-0.15	0.778	0.966
	LTE Band 66B_MIMO 2	15M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132322	1745	12.21	13.00	1.199	-0.09	0.752	0.902
	LTE Band 66C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132322	1745	12.17	13.00	1.211	-0.07	0.660	0.799
	LTE Band 66C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132072	1720	12.05	13.00	1.245	0.16	0.703	0.875
	LTE Band 66C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	132572	1770	12.13	13.00	1.222	-0.03	0.647	0.791
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132572	1770	12.58	13.00	1.102	0.01	0.773	0.851
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132072	1720	12.42	13.00	1.143	-0.01	0.683	0.781
	LTE Band 66_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	NVC	ON	132322	1745	12.61	13.00	1.094	0.13	0.744	0.814



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 71_Main	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	133297	680.5	13.52	14.00	1.117	-0.15	0.121	0.135
	LTE Band 71_Main	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	133297	680.5	13.49	14.00	1.125	0.1	0.130	0.146
	LTE Band 71_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	133297	680.5	13.52	14.00	1.117	-0.15	0.287	0.321
	LTE Band 71_Main	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	133297	680.5	13.49	14.00	1.125	0.19	0.298	0.335
	LTE Band 71_Main	20M	QPSK	1	49	Edge 1	0mm	Amphenol	ON	133297	680.5	13.52	14.00	1.117	-0.02	0.077	0.086
	LTE Band 71_Main	20M	QPSK	50	24	Edge 1	0mm	Amphenol	ON	133297	680.5	13.49	14.00	1.125	0.02	0.088	0.099
	LTE Band 71_Main	20M	QPSK	1	49	Edge 2	0mm	Amphenol	ON	133297	680.5	13.52	14.00	1.117	0.18	0.852	0.952
12	LTE Band 71_Main	20M	QPSK	50	24	Edge 2	0mm	Amphenol	ON	133297	680.5	13.49	14.00	1.125	-0.04	0.892	1.003
	LTE Band 71_Main	20M	QPSK	100	0	Edge 2	0mm	Amphenol	ON	133297	680.5	13.48	14.00	1.127	-0.16	0.856	0.965
	LTE Band 71_Main	20M	QPSK	1	49	Bottom of Laptop	29mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	0.08	0.055	0.070
	LTE Band 71_Main	20M	QPSK	50	50	Bottom of Laptop	29mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	-0.16	0.047	0.058
	LTE Band 71_Main	20M	QPSK	1	49	Bottom Face	34mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	-0.16	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	50	Bottom Face	34mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	-0.07	0.001	0.001
	LTE Band 71_Main	20M	QPSK	1	49	Edge 1	24mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	-0.15	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	50	Edge 1	24mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	0.03	0.001	0.001
	LTE Band 71_Main	20M	QPSK	1	49	Edge 2	6mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	0.19	0.281	0.357
	LTE Band 71_Main	20M	QPSK	50	50	Edge 2	6mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	0.18	0.242	0.297
	LTE Band 71_Main	20M	QPSK	1	49	Edge 3	0mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	0.08	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	50	Edge 3	0mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	-0.06	0.001	0.001
	LTE Band 71_Main	20M	QPSK	1	49	Edge 4	0mm	Amphenol	OFF	133297	680.5	23.96	25.00	1.271	0.03	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	50	Edge 4	0mm	Amphenol	OFF	133297	680.5	23.11	24.00	1.227	0.19	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	24	Edge 2	0mm	NVC	ON	133297	680.5	13.49	14.00	1.125	0.03	0.878	0.987

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 38_Main	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	0.14	0.225	0.235
	LTE Band 38_Main	20M	QPSK	50	0	Bottom of Laptop	0mm	Amphenol	ON	38000	2595	11.89	12.00	1.026	62.9	1.006	0.1	0.222	0.229
	LTE Band 38_Main	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	-0.16	0.920	0.962
	LTE Band 38_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	38000	2595	11.89	12.00	1.026	62.9	1.006	0.11	0.918	0.947
13	LTE Band 38_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	-0.11	0.923	0.966
	LTE Band 38_Main	20M	QPSK	1	49	Edge 1	0mm	Amphenol	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	0.05	0.246	0.257
	LTE Band 38_Main	20M	QPSK	50	0	Edge 1	0mm	Amphenol	ON	38000	2595	11.89	12.00	1.026	62.9	1.006	-0.07	0.201	0.207
	LTE Band 38_Main	20M	QPSK	1	49	Edge 2	0mm	Amphenol	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	0.1	0.001	0.001
	LTE Band 38_Main	20M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	38000	2595	11.89	12.00	1.026	62.9	1.006	0.11	0.001	0.001
	LTE Band 38_Main	20M	QPSK	1	49	Bottom of Laptop	29mm	Amphenol	OFF	38000	2595	22.53	24.00	1.403	62.9	1.006	0.04	0.060	0.085
	LTE Band 38_Main	20M	QPSK	50	0	Bottom of Laptop	29mm	Amphenol	OFF	38000	2595	21.61	23.00	1.377	62.9	1.006	0.19	0.049	0.068
	LTE Band 38_Main	20M	QPSK	1	49	Bottom Face	34mm	Amphenol	OFF	38000	2595	22.53	24.00	1.403	62.9	1.006	0.07	0.087	0.123
	LTE Band 38_Main	20M	QPSK	50	0	Bottom Face	34mm	Amphenol	OFF	38000	2595	21.61	23.00	1.377	62.9	1.006	-0.01	0.068	0.094
	LTE Band 38_Main	20M	QPSK	1	49	Edge 1	24mm	Amphenol	OFF	38000	2595	22.53	24.00	1.403	62.9	1.006	-0.11	0.107	0.151
	LTE Band 38_Main	20M	QPSK	50	0	Edge 1	24mm	Amphenol	OFF	38000	2595	21.61	23.00	1.377	62.9	1.006	0.17	0.086	0.119
	LTE Band 38_Main	20M	QPSK	1	49	Edge 2	6mm	Amphenol	OFF	38000	2595	22.53	24.00	1.403	62.9	1.006	0.03	0.001	0.001
	LTE Band 38_Main	20M	QPSK	50	0	Edge 2	6mm	Amphenol	OFF	38000	2595	21.61	23.00	1.377	62.9	1.006	0.18	0.001	0.001
	LTE Band 38C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	37901	2585.1	11.36	12.00	1.159	62.9	1.006	0.18	0.603	0.703
	LTE Band 38_Main	20M	QPSK	100	0	Bottom Face	0mm	NVC	ON	38000	2595	11.83	12.00	1.040	62.9	1.006	0.16	0.620	0.649



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	20M	QPSK	1	0	Bottom of Laptop	0mm	Amphenol	ON	41055	2636.5	11.62	12.00	1.091	62.9	1.006	-0.17	0.193	0.212
	LTE Band 41_Main	20M	QPSK	50	0	Bottom of Laptop	0mm	Amphenol	ON	41055	2636.5	11.58	12.00	1.102	62.9	1.006	-0.16	0.190	0.211
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	41055	2636.5	11.62	12.00	1.091	62.9	1.006	0.06	0.771	0.847
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	39750	2506	11.52	12.00	1.117	62.9	1.006	-0.07	0.463	0.520
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	40185	2549.5	10.52	12.00	1.406	62.9	1.006	0.17	0.516	0.730
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	40620	2593	11.02	12.00	1.253	62.9	1.006	0	0.729	0.919
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	41490	2680	11.14	12.00	1.219	62.9	1.006	-0.08	0.621	0.762
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	41055	2636.5	11.58	12.00	1.102	62.9	1.006	0.11	0.792	0.878
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	39750	2506	11.57	12.00	1.104	62.9	1.006	0.08	0.469	0.521
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	40185	2549.5	10.62	12.00	1.374	62.9	1.006	0.13	0.531	0.734
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	40620	2593	11.02	12.00	1.253	62.9	1.006	-0.07	0.764	0.963
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	41490	2680	11.22	12.00	1.197	62.9	1.006	0.08	0.630	0.758
	LTE Band 41_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	41055	2636.5	11.52	12.00	1.117	62.9	1.006	0.1	0.764	0.858
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Amphenol	ON	41055	2636.5	11.62	12.00	1.091	62.9	1.006	-0.16	0.225	0.247
	LTE Band 41_Main	20M	QPSK	50	0	Edge 1	0mm	Amphenol	ON	41055	2636.5	11.58	12.00	1.102	62.9	1.006	0.14	0.224	0.248
	LTE Band 41_Main	20M	QPSK	1	0	Edge 2	0mm	Amphenol	ON	41055	2636.5	11.62	12.00	1.091	62.9	1.006	0.09	0.001	0.001
	LTE Band 41_Main	20M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	41055	2636.5	11.58	12.00	1.102	62.9	1.006	0.18	0.001	0.001
	LTE Band 41_Main	20M	QPSK	1	0	Bottom of Laptop	29mm	Amphenol	OFF	41055	2636.5	21.35	22.00	1.161	62.9	1.006	0.07	0.053	0.062
	LTE Band 41_Main	20M	QPSK	50	0	Bottom of Laptop	29mm	Amphenol	OFF	41055	2636.5	20.46	21.00	1.132	62.9	1.006	0.18	0.047	0.054
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	34mm	Amphenol	OFF	41055	2636.5	21.35	22.00	1.161	62.9	1.006	-0.07	0.029	0.034
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	34mm	Amphenol	OFF	41055	2636.5	20.46	21.00	1.132	62.9	1.006	0	0.025	0.028
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	24mm	Amphenol	OFF	41055	2636.5	21.35	22.00	1.161	62.9	1.006	0.14	0.056	0.065
	LTE Band 41_Main	20M	QPSK	50	0	Edge 1	24mm	Amphenol	OFF	41055	2636.5	20.46	21.00	1.132	62.9	1.006	-0.03	0.048	0.055
	LTE Band 41_Main	20M	QPSK	1	0	Edge 2	6mm	Amphenol	OFF	41055	2636.5	21.35	22.00	1.161	62.9	1.006	0.1	0.035	0.041
	LTE Band 41_Main	20M	QPSK	50	0	Edge 2	6mm	Amphenol	OFF	41055	2636.5	20.46	21.00	1.132	62.9	1.006	-0.1	0.029	0.033
	LTE Band 41C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	39750	2506	11.49	12.00	1.125	62.9	1.006	0.19	0.789	0.893
	LTE Band 41C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	40185	2549.5	11.38	12.00	1.153	62.9	1.006	-0.13	0.798	0.926
	LTE Band 41C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	40620	2593	11.19	12.00	1.205	62.9	1.006	0.01	0.777	0.942
	LTE Band 41C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	41055	2636.5	11.37	12.00	1.156	62.9	1.006	-0.15	0.651	0.757
	LTE Band 41C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	41490	2680	11.43	12.00	1.140	62.9	1.006	-0.09	0.652	0.748
	LTE Band 41_HPUE_Main	20M	QPSK	1	99	Bottom Face	0mm	Amphenol	ON	41055	2636.5	11.76	12.00	1.057	42.9	1.009	-0.13	0.560	0.597
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	40620	2593	11.02	12.00	1.253	62.9	1.006	-0.02	0.503	0.634
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	39750	2506	11.57	12.00	1.104	62.9	1.006	0.06	0.468	0.520
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	41055	2636.5	11.58	12.00	1.102	62.9	1.006	-0.15	0.781	0.865
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	40185	2549.5	10.62	12.00	1.374	62.9	1.006	0.16	0.689	0.952
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	41490	2680	11.22	12.00	1.197	62.9	1.006	-0.11	0.630	0.758



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	40620	2593	10.64	11.00	1.086	62.9	1.006	0.03	0.128	0.140
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	0mm	Amphenol	ON	40620	2593	10.57	11.00	1.104	62.9	1.006	-0.08	0.133	0.148
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	40620	2593	10.64	11.00	1.086	62.9	1.006	-0.17	0.829	0.906
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	39750	2506	10.44	11.00	1.138	62.9	1.006	-0.01	0.724	0.829
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	40185	2549.5	10.42	11.00	1.143	62.9	1.006	-0.11	0.826	0.950
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	41055	2636.5	10.34	11.00	1.164	62.9	1.006	-0.02	0.881	1.032
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	41490	2680	10.39	11.00	1.151	62.9	1.006	0.05	0.855	0.990
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	40620	2593	10.57	11.00	1.104	62.9	1.006	-0.05	0.864	0.960
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	39750	2506	10.52	11.00	1.117	62.9	1.006	-0.19	0.780	0.876
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	40185	2549.5	10.45	11.00	1.135	62.9	1.006	0.18	0.831	0.949
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	41055	2636.5	10.42	11.00	1.143	62.9	1.006	-0.15	0.889	1.022
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	0mm	Amphenol	ON	41490	2680	10.48	11.00	1.127	62.9	1.006	-0.05	0.897	1.017
	LTE Band 41_MIMO 2	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	40620	2593	10.54	11.00	1.112	62.9	1.006	0.03	0.875	0.979
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	40620	2593	10.64	11.00	1.086	62.9	1.006	-0.12	0.836	0.914
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	39750	2506	10.44	11.00	1.138	62.9	1.006	0	0.644	0.737
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	40185	2549.5	10.42	11.00	1.143	62.9	1.006	0.04	0.783	0.900
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	41055	2636.5	10.34	11.00	1.164	62.9	1.006	0.11	0.876	1.026
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	41490	2680	10.39	11.00	1.151	62.9	1.006	0.18	0.883	1.022
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	40620	2593	10.57	11.00	1.104	62.9	1.006	0.13	0.860	0.955
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	39750	2506	10.52	11.00	1.117	62.9	1.006	0.1	0.696	0.782
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	40185	2549.5	10.45	11.00	1.135	62.9	1.006	0.01	0.806	0.920
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	41055	2636.5	10.42	11.00	1.143	62.9	1.006	0.06	0.906	1.042
14	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	Amphenol	ON	41490	2680	10.48	11.00	1.127	62.9	1.006	-0.06	0.949	1.076
	LTE Band 41_MIMO 2	20M	QPSK	100	0	Edge 4	0mm	Amphenol	ON	40620	2593	10.54	11.00	1.112	62.9	1.006	0.16	0.865	0.967
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	22mm	Amphenol	OFF	40620	2593	22.66	24.00	1.361	62.9	1.006	-0.13	0.237	0.325
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	22mm	Amphenol	OFF	40620	2593	21.72	23.00	1.343	62.9	1.006	0.12	0.216	0.292
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Bottom Face	24mm	Amphenol	OFF	40620	2593	22.66	24.00	1.361	62.9	1.006	0.14	0.648	0.888
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Bottom Face	24mm	Amphenol	OFF	40620	2593	21.72	23.00	1.343	62.9	1.006	0.03	0.601	0.812
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 1	0mm	Amphenol	OFF	40620	2593	22.66	24.00	1.361	62.9	1.006	-0.03	0.034	0.047
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 1	0mm	Amphenol	OFF	40620	2593	21.72	23.00	1.343	62.9	1.006	-0.11	0.037	0.050
	LTE Band 41_MIMO 2	20M	QPSK	1	49	Edge 4	22mm	Amphenol	OFF	40620	2593	22.66	24.00	1.361	62.9	1.006	0.03	0.305	0.418
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	22mm	Amphenol	OFF	40620	2593	21.72	23.00	1.343	62.9	1.006	0.06	0.287	0.388
	LTE Band 41C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	41490	2680	10.68	11.00	1.076	62.9	1.006	0.17	0.676	0.732
	LTE Band 41C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	39750	2506	10.00	11.00	1.259	62.9	1.006	0.03	0.645	0.817
	LTE Band 41C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	40185	2549.5	10.28	11.00	1.180	62.9	1.006	-0.05	0.524	0.622
	LTE Band 41C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	40620	2593	10.32	11.00	1.169	62.9	1.006	-0.02	0.497	0.585
	LTE Band 41C_MIMO 2	20M	QPSK	1	0	Edge 4	0mm	Amphenol	ON	41055	2636.5	10.47	11.00	1.130	62.9	1.006	0.13	0.604	0.686
	LTE Band 41_HPUE_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	40620	2593	10.66	11.00	1.081	42.9	1.009	-0.11	0.550	0.600
	LTE Band 41_HPUE_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	39750	2506	10.39	11.00	1.151	42.9	1.009	0.15	0.464	0.539
	LTE Band 41_HPUE_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	40185	2549.5	10.34	11.00	1.164	42.9	1.009	-0.16	0.490	0.576
	LTE Band 41_HPUE_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	41055	2636.5	10.27	11.00	1.183	42.9	1.009	0.16	0.579	0.691
	LTE Band 41_HPUE_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	41490	2680	10.34	11.00	1.164	42.9	1.009	-0.02	0.573	0.673
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	41490	2680	10.48	11.00	1.127	62.9	1.006	0.13	0.755	0.856
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	39750	2506	10.52	11.00	1.117	62.9	1.006	0.1	0.695	0.781
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	40620	2593	10.57	11.00	1.104	62.9	1.006	0.13	0.859	0.954
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	40185	2549.5	10.45	11.00	1.135	62.9	1.006	0.01	0.805	0.919
	LTE Band 41_MIMO 2	20M	QPSK	50	24	Edge 4	0mm	NVC	ON	41055	2636.5	10.42	11.00	1.143	62.9	1.006	0.06	0.905	1.041



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 48_Main	20M	QPSK	1	0	Bottom of Laptop	0mm	Amphenol	ON	56640	3690	11.04	11.50	1.112	62.9	1.006	-0.03	0.068	0.076
	LTE Band 48_Main	20M	QPSK	50	0	Bottom of Laptop	0mm	Amphenol	ON	56640	3690	11.03	11.50	1.114	62.9	1.006	0.13	0.074	0.083
	LTE Band 48_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	56640	3690	11.04	11.50	1.112	62.9	1.006	-0.15	0.489	0.547
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	56640	3690	11.03	11.50	1.114	62.9	1.006	0.09	0.493	0.553
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	55340	3560	10.35	11.50	1.303	62.9	1.006	-0.04	0.612	0.802
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	55830	3609	10.65	11.50	1.216	62.9	1.006	-0.08	0.601	0.735
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	56150	3641	10.72	11.50	1.197	62.9	1.006	-0.09	0.570	0.686
	LTE Band 48_Main	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	56640	3690	10.84	11.50	1.164	62.9	1.006	0	0.477	0.559
	LTE Band 48_Main	20M	QPSK	1	0	Edge 1	0mm	Amphenol	ON	56640	3690	11.04	11.50	1.112	62.9	1.006	-0.09	0.089	0.100
	LTE Band 48_Main	20M	QPSK	50	0	Edge 1	0mm	Amphenol	ON	56640	3690	11.03	11.50	1.114	62.9	1.006	-0.13	0.095	0.106
	LTE Band 48_Main	20M	QPSK	1	0	Edge 2	0mm	Amphenol	ON	56640	3690	11.04	11.50	1.112	62.9	1.006	-0.02	0.031	0.035
	LTE Band 48_Main	20M	QPSK	50	0	Edge 2	0mm	Amphenol	ON	56640	3690	11.03	11.50	1.114	62.9	1.006	-0.16	0.028	0.031
	LTE Band 48_Main	20M	QPSK	1	0	Bottom of Laptop	29mm	Amphenol	OFF	55340	3560	20.12	21.00	1.225	62.9	1.006	-0.15	0.052	0.064
	LTE Band 48_Main	20M	QPSK	50	0	Bottom of Laptop	29mm	Amphenol	OFF	55340	3560	19.25	20.00	1.189	62.9	1.006	-0.08	0.044	0.053
	LTE Band 48_Main	20M	QPSK	1	0	Bottom Face	34mm	Amphenol	OFF	55340	3560	20.12	21.00	1.225	62.9	1.006	0.12	0.047	0.058
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	34mm	Amphenol	OFF	55340	3560	19.25	20.00	1.189	62.9	1.006	0.15	0.041	0.049
	LTE Band 48_Main	20M	QPSK	1	0	Edge 1	24mm	Amphenol	OFF	55340	3560	20.12	21.00	1.225	62.9	1.006	0.01	0.021	0.026
	LTE Band 48_Main	20M	QPSK	50	0	Edge 1	24mm	Amphenol	OFF	55340	3560	19.25	20.00	1.189	62.9	1.006	0.16	0.189	0.226
	LTE Band 48_Main	20M	QPSK	1	0	Edge 2	6mm	Amphenol	OFF	55340	3560	20.12	21.00	1.225	62.9	1.006	-0.19	0.074	0.091
	LTE Band 48_Main	20M	QPSK	50	0	Edge 2	6mm	Amphenol	OFF	55340	3560	19.25	20.00	1.189	62.9	1.006	-0.15	0.068	0.081
	LTE Band 48C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	56150	3641	10.63	11.50	1.222	62.9	1.006	-0.09	0.577	0.709
	LTE Band 48C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	55340	3560	10.67	11.50	1.211	62.9	1.006	0.15	0.440	0.536
	LTE Band 48C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	55830	3609	10.84	11.50	1.164	62.9	1.006	-0.12	0.640	0.750
	LTE Band 48C_Main	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	56640	3690	10.81	11.50	1.172	62.9	1.006	0.09	0.533	0.629
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	55340	3560	10.35	11.50	1.303	62.9	1.006	0.06	0.510	0.669
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	55830	3609	10.65	11.50	1.216	62.9	1.006	-0.1	0.404	0.494
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	56150	3641	10.72	11.50	1.197	62.9	1.006	0.15	0.532	0.640
	LTE Band 48_Main	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	56640	3690	11.03	11.50	1.114	62.9	1.006	0.13	0.568	0.637



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 48_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	0mm	Amphenol	ON	55830	3609	13.08	13.50	1.102	62.9	1.006	-0.05	0.127	0.141
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom of Laptop	0mm	Amphenol	ON	55830	3609	13.06	13.50	1.107	62.9	1.006	0.11	0.141	0.157
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	55830	3609	13.08	13.50	1.102	62.9	1.006	-0.11	0.754	0.836
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	55340	3560	12.69	13.50	1.205	62.9	1.006	0.07	0.796	0.965
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	56150	3641	12.87	13.50	1.156	62.9	1.006	-0.15	0.831	0.966
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom Face	0mm	Amphenol	ON	56640	3690	12.82	13.50	1.169	62.9	1.006	-0.1	0.900	1.059
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	55830	3609	13.06	13.50	1.107	62.9	1.006	0.08	0.772	0.859
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	55340	3560	12.64	13.50	1.219	62.9	1.006	-0.1	0.811	0.995
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	56150	3641	12.89	13.50	1.151	62.9	1.006	0.18	0.862	0.998
15	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	Amphenol	ON	56640	3690	12.77	13.50	1.183	62.9	1.006	-0.11	0.938	1.116
	LTE Band 48_MIMO 2	20M	QPSK	100	0	Bottom Face	0mm	Amphenol	ON	56150	3641	12.86	13.50	1.159	62.9	1.006	-0.09	0.777	0.906
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	55830	3609	13.08	13.50	1.102	62.9	1.006	0.15	0.728	0.807
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	55340	3560	12.69	13.50	1.205	62.9	1.006	0.15	0.765	0.927
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	56150	3641	12.87	13.50	1.156	62.9	1.006	0.03	0.705	0.820
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 4	0mm	Amphenol	ON	56640	3690	12.82	13.50	1.169	62.9	1.006	-0.04	0.684	0.805
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Edge 4	0mm	Amphenol	ON	55830	3609	13.06	13.50	1.107	62.9	1.006	-0.12	0.732	0.815
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Edge 4	0mm	Amphenol	ON	55340	3560	12.64	13.50	1.219	62.9	1.006	0.13	0.803	0.985
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Edge 4	0mm	Amphenol	ON	56150	3641	12.89	13.50	1.151	62.9	1.006	-0.18	0.724	0.838
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Edge 4	0mm	Amphenol	ON	56640	3690	12.77	13.50	1.183	62.9	1.006	-0.01	0.689	0.820
	LTE Band 48_MIMO 2	20M	QPSK	100	0	Edge 4	0mm	Amphenol	ON	56150	3641	12.86	13.50	1.159	62.9	1.006	-0.13	0.722	0.842
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom of Laptop	22mm	Amphenol	OFF	55830	3609	21.25	22.00	1.189	62.9	1.006	0.05	0.126	0.151
	LTE Band 48_MIMO 2	20M	QPSK	50	24	Bottom of Laptop	22mm	Amphenol	OFF	55830	3609	20.28	21.00	1.180	62.9	1.006	-0.15	0.112	0.133
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Bottom Face	24mm	Amphenol	OFF	55830	3609	21.25	22.00	1.189	62.9	1.006	0.09	0.100	0.120
	LTE Band 48_MIMO 2	20M	QPSK	50	24	Bottom Face	24mm	Amphenol	OFF	55830	3609	20.28	21.00	1.180	62.9	1.006	0.05	0.091	0.108
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 1	0mm	Amphenol	OFF	55830	3609	21.25	22.00	1.189	62.9	1.006	0.09	0.053	0.063
	LTE Band 48_MIMO 2	20M	QPSK	50	24	Edge 1	0mm	Amphenol	OFF	55830	3609	20.28	21.00	1.180	62.9	1.006	0.17	0.055	0.065
	LTE Band 48_MIMO 2	20M	QPSK	1	49	Edge 4	22mm	Amphenol	OFF	55830	3609	21.25	22.00	1.189	62.9	1.006	-0.17	0.164	0.196
	LTE Band 48_MIMO 2	20M	QPSK	50	24	Edge 4	22mm	Amphenol	OFF	55830	3609	20.28	21.00	1.180	62.9	1.006	0.13	0.142	0.169
	LTE Band 48C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	56150	3641	12.16	13.50	1.361	62.9	1.006	0.08	0.512	0.701
	LTE Band 48C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	55340	3560	11.76	13.50	1.493	62.9	1.006	0.09	0.520	0.781
	LTE Band 48C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	55830	3609	11.92	13.50	1.439	62.9	1.006	0.02	0.571	0.826
	LTE Band 48C_MIMO 2	20M	QPSK	1	0	Bottom Face	0mm	Amphenol	ON	56640	3690	11.97	13.50	1.422	62.9	1.006	-0.03	0.494	0.707
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	56640	3690	12.77	13.50	1.183	62.9	1.006	0.08	0.801	0.953
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	55340	3560	12.64	13.50	1.219	62.9	1.006	-0.18	0.750	0.920
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	55830	3609	13.06	13.50	1.107	62.9	1.006	0.07	0.818	0.911
	LTE Band 48_MIMO 2	20M	QPSK	50	0	Bottom Face	0mm	NVC	ON	56150	3641	12.89	13.50	1.151	62.9	1.006	-0.09	0.795	0.920

**<5G NR SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n5_Main	20M	BPSK	1	53	Bottom of Laptop	0mm	Amphenol	ON	167300	836.5	13.31	14.50	1.315	0.01	0.182	0.239
	FR1 n5_Main	20M	BPSK	50	28	Bottom of Laptop	0mm	Amphenol	ON	167300	836.5	13.26	14.50	1.330	0.02	0.181	0.241
16	FR1 n5_Main	20M	BPSK	1	53	Bottom Face	0mm	Amphenol	ON	167300	836.5	13.31	14.50	1.315	-0.06	0.612	0.805
	FR1 n5_Main	20M	BPSK	50	28	Bottom Face	0mm	Amphenol	ON	167300	836.5	13.26	14.50	1.330	0.14	0.593	0.789
	FR1 n5_Main	20M	BPSK	100	0	Bottom Face	0mm	Amphenol	ON	167300	836.5	13.15	14.50	1.365	0.12	0.545	0.744
	FR1 n5_Main	20M	BPSK	1	53	Edge 1	0mm	Amphenol	ON	167300	836.5	13.31	14.50	1.315	0.03	0.168	0.221
	FR1 n5_Main	20M	BPSK	50	28	Edge 1	0mm	Amphenol	ON	167300	836.5	13.26	14.50	1.330	-0.02	0.109	0.145
	FR1 n5_Main	20M	BPSK	1	53	Edge 2	0mm	Amphenol	ON	167300	836.5	13.31	14.50	1.315	-0.13	0.507	0.667
	FR1 n5_Main	20M	BPSK	50	28	Edge 2	0mm	Amphenol	ON	167300	836.5	13.26	14.50	1.330	-0.1	0.384	0.511
	FR1 n5_Main	20M	BPSK	1	53	Bottom of Laptop	29mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	-0.06	0.001	0.001
	FR1 n5_Main	20M	BPSK	50	28	Bottom of Laptop	29mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	0.12	0.001	0.001
	FR1 n5_Main	20M	BPSK	1	53	Bottom Face	34mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	-0.04	0.001	0.001
	FR1 n5_Main	20M	BPSK	50	28	Bottom Face	34mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	-0.05	0.001	0.001
	FR1 n5_Main	20M	BPSK	1	53	Edge 1	24mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	-0.13	0.001	0.001
	FR1 n5_Main	20M	BPSK	50	28	Edge 1	24mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	-0.16	0.001	0.001
	FR1 n5_Main	20M	BPSK	1	53	Edge 2	6mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	-0.05	0.232	0.274
	FR1 n5_Main	20M	BPSK	50	28	Edge 2	6mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	0.03	0.187	0.219
	FR1 n5_Main	20M	BPSK	1	53	Edge 3	0mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	-0.18	0.001	0.001
	FR1 n5_Main	20M	BPSK	50	28	Edge 3	0mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	0.17	0.001	0.001
	FR1 n5_Main	20M	BPSK	1	53	Edge 4	0mm	Amphenol	OFF	167300	836.5	24.27	25.00	1.183	0.05	0.001	0.001
	FR1 n5_Main	20M	BPSK	50	28	Edge 4	0mm	Amphenol	OFF	167300	836.5	24.31	25.00	1.172	0.01	0.001	0.001
	FR1 n5_Main	20M	BPSK	1	53	Bottom Face	0mm	NVC	ON	167300	836.5	13.31	14.50	1.315	-0.16	0.432	0.568



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	20M	BPSK	1	53	Bottom of Laptop	0mm	Amphenol	ON	512000	2560	9.80	10.50	1.175	0.02	0.258	0.303
	FR1 n7_Main	20M	BPSK	50	28	Bottom of Laptop	0mm	Amphenol	ON	512000	2560	9.78	10.50	1.180	-0.02	0.255	0.301
	FR1 n7_Main	20M	BPSK	1	53	Bottom Face	0mm	Amphenol	ON	512000	2560	9.80	10.50	1.175	0	0.867	1.019
	FR1 n7_Main	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	502000	2510	9.58	10.50	1.236	-0.05	0.767	0.948
	FR1 n7_Main	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	507000	2535	9.37	10.50	1.297	0.03	0.772	1.001
	FR1 n7_Main	20M	BPSK	50	28	Bottom Face	0mm	Amphenol	ON	512000	2560	9.78	10.50	1.180	-0.16	0.876	1.034
	FR1 n7_Main	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	502000	2510	9.58	10.50	1.236	-0.03	0.772	0.954
	FR1 n7_Main	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	507000	2535	9.56	10.50	1.242	-0.04	0.804	0.998
	FR1 n7_Main	20M	BPSK	100	0	Bottom Face	0mm	Amphenol	ON	512000	2560	9.79	10.50	1.178	-0.02	0.782	0.921
	FR1 n7_Main	20M	BPSK	1	53	Edge 1	0mm	Amphenol	ON	512000	2560	9.80	10.50	1.175	0.01	0.197	0.231
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	0mm	Amphenol	ON	512000	2560	9.78	10.50	1.180	-0.01	0.139	0.164
	FR1 n7_Main	20M	BPSK	1	53	Edge 2	0mm	Amphenol	ON	512000	2560	9.80	10.50	1.175	0.03	0.001	0.001
	FR1 n7_Main	20M	BPSK	50	28	Edge 2	0mm	Amphenol	ON	512000	2560	9.78	10.50	1.180	0.04	0.001	0.001
	FR1 n7_Main	20M	BPSK	1	104	Bottom of Laptop	29mm	Amphenol	OFF	507000	2535	23.15	24.00	1.216	-0.02	0.092	0.112
	FR1 n7_Main	20M	BPSK	50	28	Bottom of Laptop	29mm	Amphenol	OFF	507000	2535	23.24	24.00	1.191	0.12	0.079	0.094
	FR1 n7_Main	20M	BPSK	1	104	Bottom Face	34mm	Amphenol	OFF	507000	2535	23.15	24.00	1.216	0.08	0.093	0.113
	FR1 n7_Main	20M	BPSK	50	28	Bottom Face	34mm	Amphenol	OFF	507000	2535	23.24	24.00	1.191	0.17	0.081	0.096
	FR1 n7_Main	20M	BPSK	1	104	Edge 1	24mm	Amphenol	OFF	507000	2535	23.15	24.00	1.216	0.19	0.138	0.168
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	24mm	Amphenol	OFF	507000	2535	23.24	24.00	1.191	0.01	0.123	0.147
	FR1 n7_Main	20M	BPSK	1	104	Edge 2	6mm	Amphenol	OFF	507000	2535	23.15	24.00	1.216	-0.04	0.190	0.231
	FR1 n7_Main	20M	BPSK	50	28	Edge 2	6mm	Amphenol	OFF	507000	2535	23.24	24.00	1.191	-0.08	0.167	0.199
	FR1 n7_Main	20M	BPSK	50	28	Bottom Face	0mm	NVC	ON	512000	2560	9.78	10.50	1.180	-0.07	0.605	0.714
	FR1 n7_MIMO 2	20M	BPSK	1	104	Bottom of Laptop	0mm	Amphenol	ON	507000	2535	8.50	10.00	1.413	0.19	0.127	0.179
	FR1 n7_MIMO 2	20M	BPSK	50	56	Bottom of Laptop	0mm	Amphenol	ON	507000	2535	8.46	10.00	1.426	-0.15	0.123	0.175
	FR1 n7_MIMO 2	20M	BPSK	1	104	Bottom Face	0mm	Amphenol	ON	507000	2535	8.50	10.00	1.413	0.15	0.711	1.004
	FR1 n7_MIMO 2	20M	QPSK	1	104	Bottom Face	0mm	Amphenol	ON	502000	2510	8.44	10.00	1.432	0.08	0.642	0.919
	FR1 n7_MIMO 2	20M	QPSK	1	104	Bottom Face	0mm	Amphenol	ON	512000	2560	8.42	10.00	1.439	-0.05	0.740	1.065
	FR1 n7_MIMO 2	20M	BPSK	50	56	Bottom Face	0mm	Amphenol	ON	507000	2535	8.46	10.00	1.426	0.07	0.703	1.002
	FR1 n7_MIMO 2	20M	QPSK	50	56	Bottom Face	0mm	Amphenol	ON	502000	2510	8.34	10.00	1.466	0.15	0.731	1.071
	FR1 n7_MIMO 2	20M	QPSK	50	56	Bottom Face	0mm	Amphenol	ON	512000	2560	8.33	10.00	1.469	0.01	0.763	1.121
	FR1 n7_MIMO 2	20M	BPSK	100	0	Bottom Face	0mm	Amphenol	ON	512000	2560	8.43	10.00	1.435	0.06	0.718	1.031
	FR1 n7_MIMO 2	20M	BPSK	1	104	Edge 4	0mm	Amphenol	ON	507000	2535	8.50	10.00	1.413	-0.13	0.685	0.968
	FR1 n7_MIMO 2	20M	QPSK	1	104	Edge 4	0mm	Amphenol	ON	502000	2510	8.44	10.00	1.432	0.17	0.707	1.013
	FR1 n7_MIMO 2	20M	BPSK	1	104	Edge 4	0mm	Amphenol	ON	512000	2560	8.41	10.00	1.442	0.05	0.672	0.969
	FR1 n7_MIMO 2	20M	BPSK	50	56	Edge 4	0mm	Amphenol	ON	507000	2535	8.46	10.00	1.426	-0.14	0.712	1.015
	FR1 n7_MIMO 2	20M	QPSK	50	56	Edge 4	0mm	Amphenol	ON	502000	2510	8.34	10.00	1.466	0.18	0.695	1.019
17	FR1 n7_MIMO 2	20M	BPSK	50	56	Edge 4	0mm	Amphenol	ON	512000	2560	8.44	10.00	1.432	-0.09	0.806	1.154
	FR1 n7_MIMO 2	20M	BPSK	100	0	Edge 4	0mm	Amphenol	ON	512000	2560	8.43	10.00	1.435	-0.18	0.665	0.955
	FR1 n7_MIMO 2	20M	BPSK	1	53	Bottom of Laptop	22mm	Amphenol	OFF	512000	2560	23.23	24.00	1.194	0.03	0.284	0.339
	FR1 n7_MIMO 2	20M	QPSK	50	28	Bottom of Laptop	22mm	Amphenol	OFF	512000	2560	23.21	24.00	1.199	-0.06	0.256	0.307
	FR1 n7_MIMO 2	20M	BPSK	1	53	Bottom Face	24mm	Amphenol	OFF	512000	2560	23.23	24.00	1.194	0.07	0.422	0.504
	FR1 n7_MIMO 2	20M	QPSK	50	28	Bottom Face	24mm	Amphenol	OFF	512000	2560	23.21	24.00	1.199	0.07	0.391	0.469
	FR1 n7_MIMO 2	20M	QPSK	1	104	Edge 1	0mm	Amphenol	OFF	512000	2560	23.10	24.00	1.230	-0.07	0.649	0.798
	FR1 n7_MIMO 2	20M	QPSK	50	28	Edge 1	0mm	Amphenol	OFF	512000	2560	23.21	24.00	1.199	0.05	0.624	0.748
	FR1 n7_MIMO 2	20M	BPSK	1	53	Edge 4	22mm	Amphenol	OFF	512000	2560	23.23	24.00	1.194	0.03	0.652	0.778
	FR1 n7_MIMO 2	20M	QPSK	50	28	Edge 4	22mm	Amphenol	OFF	512000	2560	23.21	24.00	1.199	0.18	0.634	0.760
	FR1 n7_MIMO 2	20M	BPSK	50	56	Edge 4	0mm	NVC	ON	512000	2560	8.44	10.00	1.432	0.11	0.757	1.084
	FR1 n7_MIMO 2	20M	BPSK	50	56	Edge 4	0mm	NVC	ON	507000	2535	8.46	10.00	1.426	0.04	0.727	1.036
	FR1 n7_MIMO 2	20M	QPSK	50	56	Edge 4	0mm	NVC	ON	502000	2510	8.34	10.00	1.466	-0.19	0.721	1.057



FCC SAR TEST REPORT

Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n25_Main	20M	BPSK	1	53	Bottom of Laptop	0mm	Amphenol	ON	381000	1905	12.05	13.00	1.245	-0.12	0.232	0.289
	FR1 n25_Main	20M	BPSK	50	28	Bottom of Laptop	0mm	Amphenol	ON	381000	1905	12.03	13.00	1.250	0.09	0.232	0.290
	FR1 n25_Main	20M	BPSK	1	53	Bottom Face	0mm	Amphenol	ON	381000	1905	12.05	13.00	1.245	-0.1	0.714	0.889
	FR1 n25_Main	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	372000	1860	11.73	13.00	1.340	0.09	0.613	0.821
	FR1 n25_Main	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	376500	1882.5	11.89	13.00	1.291	0.04	0.678	0.875
	FR1 n25_Main	20M	BPSK	50	28	Bottom Face	0mm	Amphenol	ON	381000	1905	12.03	13.00	1.250	0.06	0.606	0.758
	FR1 n25_Main	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	372000	1860	11.77	13.00	1.327	-0.08	0.625	0.830
	FR1 n25_Main	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	376500	1882.5	11.91	13.00	1.285	-0.03	0.683	0.878
	FR1 n25_Main	20M	BPSK	100	0	Bottom Face	0mm	Amphenol	ON	381000	1905	11.88	13.00	1.294	-0.13	0.613	0.793
	FR1 n25_Main	20M	BPSK	1	53	Edge 1	0mm	Amphenol	ON	381000	1905	12.05	13.00	1.245	-0.09	0.172	0.214
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	0mm	Amphenol	ON	381000	1905	12.03	13.00	1.250	0.06	0.189	0.236
	FR1 n25_Main	20M	BPSK	1	53	Edge 2	0mm	Amphenol	ON	381000	1905	12.05	13.00	1.245	0.08	0.034	0.042
	FR1 n25_Main	20M	BPSK	50	28	Edge 2	0mm	Amphenol	ON	381000	1905	12.03	13.00	1.250	-0.19	0.047	0.059
	FR1 n25_Main	20M	BPSK	1	53	Bottom of Laptop	29mm	Amphenol	OFF	381000	1905	23.62	24.00	1.091	0.08	0.081	0.088
	FR1 n25_Main	20M	BPSK	50	28	Bottom of Laptop	29mm	Amphenol	OFF	381000	1905	23.53	24.00	1.114	0.13	0.071	0.079
	FR1 n25_Main	20M	BPSK	1	53	Bottom Face	34mm	Amphenol	OFF	381000	1905	23.62	24.00	1.091	0	0.052	0.057
	FR1 n25_Main	20M	BPSK	50	28	Bottom Face	34mm	Amphenol	OFF	381000	1905	23.53	24.00	1.114	0.09	0.045	0.050
	FR1 n25_Main	20M	BPSK	1	53	Edge 1	24mm	Amphenol	OFF	381000	1905	23.62	24.00	1.091	-0.19	0.054	0.059
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	24mm	Amphenol	OFF	381000	1905	23.53	24.00	1.114	-0.04	0.047	0.052
	FR1 n25_Main	20M	BPSK	1	53	Edge 2	6mm	Amphenol	OFF	381000	1905	23.62	24.00	1.091	-0.15	0.071	0.077
	FR1 n25_Main	20M	BPSK	50	28	Edge 2	6mm	Amphenol	OFF	381000	1905	23.53	24.00	1.114	-0.12	0.062	0.069
	FR1 n25_Main	20M	BPSK	1	53	Bottom Face	0mm	NVC	ON	381000	1905	12.05	13.00	1.245	0.04	0.507	0.631
	FR1 n25_MIMO 2	20M	BPSK	1	53	Bottom of Laptop	0mm	Amphenol	ON	381000	1905	12.31	12.50	1.045	0.15	0.197	0.206
	FR1 n25_MIMO 2	20M	BPSK	50	28	Bottom of Laptop	0mm	Amphenol	ON	381000	1905	12.29	12.50	1.050	-0.17	0.200	0.210
	FR1 n25_MIMO 2	20M	BPSK	1	53	Bottom Face	0mm	Amphenol	ON	381000	1905	12.31	12.50	1.045	-0.12	0.838	0.875
	FR1 n25_MIMO 2	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	372000	1860	12.15	12.50	1.084	-0.03	0.694	0.752
	FR1 n25_MIMO 2	20M	QPSK	1	53	Bottom Face	0mm	Amphenol	ON	376500	1882.5	12.18	12.50	1.076	-0.05	0.784	0.844
	FR1 n25_MIMO 2	20M	BPSK	50	28	Bottom Face	0mm	Amphenol	ON	381000	1905	12.29	12.50	1.050	-0.14	0.842	0.884
	FR1 n25_MIMO 2	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	372000	1860	12.07	12.50	1.104	-0.08	0.705	0.778
	FR1 n25_MIMO 2	20M	QPSK	50	28	Bottom Face	0mm	Amphenol	ON	376500	1882.5	12.24	12.50	1.062	-0.08	0.787	0.836
	FR1 n25_MIMO 2	20M	BPSK	100	0	Bottom Face	0mm	Amphenol	ON	381000	1905	12.05	12.50	1.109	-0.18	0.751	0.833
	FR1 n25_MIMO 2	20M	BPSK	1	53	Edge 4	0mm	Amphenol	ON	381000	1905	12.31	12.50	1.045	-0.08	1.050	1.097
	FR1 n25_MIMO 2	20M	QPSK	1	53	Edge 4	0mm	Amphenol	ON	372000	1860	12.15	12.50	1.084	-0.15	0.911	0.987
	FR1 n25_MIMO 2	20M	QPSK	1	53	Edge 4	0mm	Amphenol	ON	376500	1882.5	12.18	12.50	1.076	0.16	0.994	1.070
18	FR1 n25_MIMO 2	20M	BPSK	50	28	Edge 4	0mm	Amphenol	ON	381000	1905	12.29	12.50	1.050	-0.06	1.070	1.123
	FR1 n25_MIMO 2	20M	QPSK	50	28	Edge 4	0mm	Amphenol	ON	372000	1860	12.07	12.50	1.104	0.06	0.902	0.996
	FR1 n25_MIMO 2	20M	QPSK	50	28	Edge 4	0mm	Amphenol	ON	376500	1882.5	12.24	12.50	1.062	0.11	0.994	1.055
	FR1 n25_MIMO 2	20M	BPSK	100	0	Edge 4	0mm	Amphenol	ON	381000	1905	12.05	12.50	1.109	0.18	0.994	1.103
	FR1 n25_MIMO 2	20M	BPSK	1	53	Bottom of Laptop	22mm	Amphenol	OFF	381000	1905	23.96	24.00	1.009	-0.13	0.205	0.207
	FR1 n25_MIMO 2	20M	BPSK	50	28	Bottom of Laptop	22mm	Amphenol	OFF	376500	1882.5	23.40	24.00	1.148	0.17	0.190	0.218
	FR1 n25_MIMO 2	20M	BPSK	1	53	Bottom Face	24mm	Amphenol	OFF	381000	1905	23.96	24.00	1.009	-0.04	0.161	0.162
	FR1 n25_MIMO 2	20M	BPSK	50	28	Bottom Face	24mm	Amphenol	OFF	376500	1882.5	23.40	24.00	1.148	-0.19	0.144	0.165
	FR1 n25_MIMO 2	20M	BPSK	1	53	Edge 1	0mm	Amphenol	OFF	381000	1905	23.96	24.00	1.009	0.01	0.001	0.001
	FR1 n25_MIMO 2	20M	BPSK	50	28	Edge 1	0mm	Amphenol	OFF	376500	1882.5	23.40	24.00	1.148	0.11	0.001	0.001
	FR1 n25_MIMO 2	20M	BPSK	1	53	Edge 4	22mm	Amphenol	OFF	381000	1905	23.96	24.00	1.009	0.06	0.271	0.274
	FR1 n25_MIMO 2	20M	BPSK	50	28	Edge 4	22mm	Amphenol	OFF	376500	1882.5	23.40	24.00	1.148	0.05	0.253	0.290
	FR1 n25_MIMO 2	20M	BPSK	50	28	Edge 4	0mm	NVC	ON	381000	1905	12.29	12.50	1.050	-0.13	0.943	0.990
	FR1 n25_MIMO 2	20M	QPSK	50	28	Edge 4	0mm	NVC	ON	372000	1860	12.07	12.50	1.104	0.05	0.921	1.017
	FR1 n25_MIMO 2	20M	QPSK	50	28	Edge 4	0mm	NVC	ON	376500	1882.5	12.24	12.50	1.062	0.03	0.930	0.987



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Report No. : FA2O2027

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n30_Main	10M	BPSK	1	50	Bottom of Laptop	0mm	Amphenol	ON	462000	2310	11.03	12.00	1.250	-0.13	0.322	0.403
	FR1 n30_Main	10M	BPSK	25	14	Bottom of Laptop	0mm	Amphenol	ON	462000	2310	10.76	12.00	1.330	-0.11	0.314	0.418
19	FR1 n30_Main	10M	BPSK	1	50	Bottom Face	0mm	Amphenol	ON	462000	2310	11.03	12.00	1.250	-0.19	0.949	1.186
	FR1 n30_Main	10M	BPSK	25	14	Bottom Face	0mm	Amphenol	ON	462000	2310	10.76	12.00	1.330	0.16	0.834	1.110
	FR1 n30_Main	10M	BPSK	50	0	Bottom Face	0mm	Amphenol	ON	462000	2310	10.98	12.00	1.265	-0.05	0.850	1.075
	FR1 n30_Main	10M	BPSK	1	50	Edge 1	0mm	Amphenol	ON	462000	2310	11.03	12.00	1.250	-0.12	0.143	0.179
	FR1 n30_Main	10M	BPSK	25	14	Edge 1	0mm	Amphenol	ON	462000	2310	10.76	12.00	1.330	-0.19	0.151	0.201
	FR1 n30_Main	10M	BPSK	1	50	Edge 2	0mm	Amphenol	ON	462000	2310	11.03	12.00	1.250	-0.03	0.303	0.379
	FR1 n30_Main	10M	BPSK	25	14	Edge 2	0mm	Amphenol	ON	462000	2310	10.76	12.00	1.330	0.12	0.170	0.226
	FR1 n30_Main	10M	BPSK	1	50	Bottom of Laptop	29mm	Amphenol	OFF	462000	2310	22.22	23.00	1.197	-0.06	0.094	0.112
	FR1 n30_Main	10M	BPSK	25	14	Bottom of Laptop	29mm	Amphenol	OFF	462000	2310	22.18	23.00	1.208	0.19	0.084	0.101
	FR1 n30_Main	10M	BPSK	1	50	Bottom Face	34mm	Amphenol	OFF	462000	2310	22.22	23.00	1.197	0.09	0.061	0.073
	FR1 n30_Main	10M	BPSK	25	14	Bottom Face	34mm	Amphenol	OFF	462000	2310	22.18	23.00	1.208	-0.12	0.053	0.064
	FR1 n30_Main	10M	BPSK	1	50	Edge 1	24mm	Amphenol	OFF	462000	2310	22.22	23.00	1.197	0.19	0.069	0.083
	FR1 n30_Main	10M	BPSK	25	14	Edge 1	24mm	Amphenol	OFF	462000	2310	22.18	23.00	1.208	-0.03	0.061	0.074
	FR1 n30_Main	10M	BPSK	1	50	Edge 2	6mm	Amphenol	OFF	462000	2310	22.22	23.00	1.197	0.03	0.120	0.144
	FR1 n30_Main	10M	BPSK	25	14	Edge 2	6mm	Amphenol	OFF	462000	2310	22.18	23.00	1.208	0.02	0.106	0.128
	FR1 n30_Main	10M	BPSK	1	50	Bottom Face	0mm	NVC	ON	462000	2310	11.03	12.00	1.250	0.14	0.705	0.881
	FR1 n30_MIMO 2	10M	BPSK	1	26	Bottom of Laptop	0mm	Amphenol	ON	462000	2310	10.86	11.00	1.033	-0.16	0.198	0.204
	FR1 n30_MIMO 2	10M	BPSK	25	14	Bottom of Laptop	0mm	Amphenol	ON	462000	2310	10.82	11.00	1.042	-0.1	0.220	0.229
	FR1 n30_MIMO 2	10M	BPSK	1	26	Bottom Face	0mm	Amphenol	ON	462000	2310	10.86	11.00	1.033	0	0.920	0.950
	FR1 n30_MIMO 2	10M	BPSK	25	14	Bottom Face	0mm	Amphenol	ON	462000	2310	10.82	11.00	1.042	0.06	0.743	0.774
	FR1 n30_MIMO 2	10M	BPSK	50	0	Bottom Face	0mm	Amphenol	ON	462000	2310	10.74	11.00	1.062	0.11	0.791	0.840
	FR1 n30_MIMO 2	10M	BPSK	1	26	Edge 4	0mm	Amphenol	ON	462000	2310	10.86	11.00	1.033	-0.16	1.090	1.126
	FR1 n30_MIMO 2	10M	BPSK	25	14	Edge 4	0mm	Amphenol	ON	462000	2310	10.82	11.00	1.042	-0.13	1.040	1.084
	FR1 n30_MIMO 2	10M	BPSK	50	0	Edge 4	0mm	Amphenol	ON	462000	2310	10.74	11.00	1.062	0	1.050	1.115
	FR1 n30_MIMO 2	10M	BPSK	1	26	Bottom of Laptop	22mm	Amphenol	OFF	462000	2310	22.80	23.00	1.047	-0.1	0.212	0.222
	FR1 n30_MIMO 2	10M	BPSK	25	14	Bottom of Laptop	22mm	Amphenol	OFF	462000	2310	22.78	23.00	1.052	0.02	0.187	0.197
	FR1 n30_MIMO 2	10M	BPSK	1	26	Bottom Face	24mm	Amphenol	OFF	462000	2310	22.80	23.00	1.047	-0.18	0.243	0.254
	FR1 n30_MIMO 2	10M	BPSK	25	14	Bottom Face	24mm	Amphenol	OFF	462000	2310	22.78	23.00	1.052	0	0.222	0.234
	FR1 n30_MIMO 2	10M	BPSK	1	26	Edge 1	0mm	Amphenol	OFF	462000	2310	22.80	23.00	1.047	-0.15	0.001	0.001
	FR1 n30_MIMO 2	10M	BPSK	25	14	Edge 1	0mm	Amphenol	OFF	462000	2310	22.78	23.00	1.052	-0.11	0.001	0.001
	FR1 n30_MIMO 2	10M	BPSK	1	26	Edge 4	22mm	Amphenol	OFF	462000	2310	22.80	23.00	1.047	0	0.335	0.351
	FR1 n30_MIMO 2	10M	BPSK	25	14	Edge 4	22mm	Amphenol	OFF	462000	2310	22.78	23.00	1.052	-0.08	0.304	0.320
	FR1 n30_MIMO 2	10M	BPSK	1	26	Edge 4	0mm	NVC	ON	462000	2310	10.86	11.00	1.033	0.06	0.958	0.989



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	40M	BPSK	1	108	Bottom of Laptop	0mm	Amphenol	ON	349000	1745	13.20	13.50	1.072	-0.17	0.282	0.302
	FR1 n66_Main	40M	BPSK	108	54	Bottom of Laptop	0mm	Amphenol	ON	349000	1745	13.14	13.50	1.086	-0.11	0.298	0.324
	FR1 n66_Main	40M	BPSK	1	108	Bottom Face	0mm	Amphenol	ON	349000	1745	13.20	13.50	1.072	0.07	0.796	0.853
	FR1 n66_Main	40M	BPSK	108	54	Bottom Face	0mm	Amphenol	ON	349000	1745	13.14	13.50	1.086	0.11	0.777	0.844
	FR1 n66_Main	40M	BPSK	216	0	Bottom Face	0mm	Amphenol	ON	349000	1745	12.88	13.50	1.153	-0.08	0.842	0.971
	FR1 n66_Main	40M	BPSK	1	108	Edge 1	0mm	Amphenol	ON	349000	1745	13.20	13.50	1.072	0.13	0.194	0.208
	FR1 n66_Main	40M	BPSK	108	54	Edge 1	0mm	Amphenol	ON	349000	1745	13.14	13.50	1.086	-0.03	0.199	0.216
	FR1 n66_Main	40M	BPSK	1	108	Edge 2	0mm	Amphenol	ON	349000	1745	13.20	13.50	1.072	-0.08	0.082	0.088
	FR1 n66_Main	40M	BPSK	108	54	Edge 2	0mm	Amphenol	ON	349000	1745	13.14	13.50	1.086	0.07	0.132	0.143
	FR1 n66_Main	40M	BPSK	1	108	Bottom of Laptop	29mm	Amphenol	OFF	349000	1745	22.99	24.00	1.262	-0.12	0.105	0.132
	FR1 n66_Main	40M	BPSK	108	54	Bottom of Laptop	29mm	Amphenol	OFF	349000	1745	23.09	24.00	1.233	-0.01	0.096	0.118
	FR1 n66_Main	40M	BPSK	1	108	Bottom Face	34mm	Amphenol	OFF	349000	1745	22.99	24.00	1.262	-0.06	0.074	0.093
	FR1 n66_Main	40M	BPSK	108	54	Bottom Face	34mm	Amphenol	OFF	349000	1745	23.09	24.00	1.233	0.11	0.067	0.083
	FR1 n66_Main	40M	BPSK	1	108	Edge 1	24mm	Amphenol	OFF	349000	1745	22.99	24.00	1.262	0.12	0.100	0.126
	FR1 n66_Main	40M	BPSK	108	54	Edge 1	24mm	Amphenol	OFF	349000	1745	23.09	24.00	1.233	-0.04	0.089	0.110
	FR1 n66_Main	40M	BPSK	1	108	Edge 2	6mm	Amphenol	OFF	349000	1745	22.99	24.00	1.262	0.19	0.052	0.066
	FR1 n66_Main	40M	BPSK	108	54	Edge 2	6mm	Amphenol	OFF	349000	1745	23.09	24.00	1.233	-0.04	0.046	0.057
	FR1 n66_Main	40M	BPSK	216	0	Bottom Face	0mm	NVC	ON	349000	1745	12.88	13.50	1.153	-0.04	0.799	0.922
	FR1 n66_MIMO 2	40M	BPSK	1	108	Bottom of Laptop	0mm	Amphenol	ON	349000	1745	12.45	13.00	1.135	0.03	0.225	0.255
	FR1 n66_MIMO 2	40M	BPSK	108	54	Bottom of Laptop	0mm	Amphenol	ON	349000	1745	12.42	13.00	1.143	0.02	0.212	0.242
	FR1 n66_MIMO 2	40M	BPSK	1	108	Bottom Face	0mm	Amphenol	ON	349000	1745	12.45	13.00	1.135	-0.13	0.580	0.658
	FR1 n66_MIMO 2	40M	BPSK	108	54	Bottom Face	0mm	Amphenol	ON	349000	1745	12.42	13.00	1.143	0.12	0.605	0.691
	FR1 n66_MIMO 2	40M	BPSK	216	0	Bottom Face	0mm	Amphenol	ON	349000	1745	12.18	13.00	1.208	-0.1	0.556	0.672
20	FR1 n66_MIMO 2	40M	BPSK	1	108	Edge 4	0mm	Amphenol	ON	349000	1745	12.45	13.00	1.135	-0.04	0.884	1.003
	FR1 n66_MIMO 2	40M	BPSK	108	54	Edge 4	0mm	Amphenol	ON	349000	1745	12.42	13.00	1.143	-0.16	0.793	0.906
	FR1 n66_MIMO 2	40M	BPSK	216	0	Edge 4	0mm	Amphenol	ON	349000	1745	12.18	13.00	1.208	-0.12	0.738	0.891
	FR1 n66_MIMO 2	40M	BPSK	1	108	Bottom of Laptop	22mm	Amphenol	OFF	349000	1745	22.94	24.00	1.276	0.15	0.231	0.295
	FR1 n66_MIMO 2	40M	BPSK	108	54	Bottom of Laptop	22mm	Amphenol	OFF	349000	1745	23.24	24.00	1.191	0.02	0.212	0.253
	FR1 n66_MIMO 2	40M	BPSK	1	108	Bottom Face	24mm	Amphenol	OFF	349000	1745	22.94	24.00	1.276	-0.07	0.141	0.180
	FR1 n66_MIMO 2	40M	BPSK	108	54	Bottom Face	24mm	Amphenol	OFF	349000	1745	23.24	24.00	1.191	-0.17	0.129	0.154
	FR1 n66_MIMO 2	40M	BPSK	1	108	Edge 1	0mm	Amphenol	OFF	349000	1745	22.94	24.00	1.276	0.03	0.001	0.001
	FR1 n66_MIMO 2	40M	BPSK	108	54	Edge 1	0mm	Amphenol	OFF	349000	1745	23.24	24.00	1.191	0.16	0.001	0.001
	FR1 n66_MIMO 2	40M	BPSK	1	108	Edge 4	22mm	Amphenol	OFF	349000	1745	22.94	24.00	1.276	0.15	0.239	0.305
	FR1 n66_MIMO 2	40M	BPSK	108	54	Edge 4	22mm	Amphenol	OFF	349000	1745	23.24	24.00	1.191	-0.09	0.228	0.272
	FR1 n66_MIMO 2	40M	BPSK	1	108	Edge 4	0mm	NVC	ON	349000	1745	12.45	13.00	1.135	-0.08	0.859	0.975



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n71_Main	20M	BPSK	1	53	Bottom of Laptop	0mm	Amphenol	ON	136100	680.5	13.20	13.50	1.072	-0.12	0.085	0.091
	FR1 n71_Main	20M	BPSK	50	28	Bottom of Laptop	0mm	Amphenol	ON	136100	680.5	13.18	13.50	1.076	0.01	0.089	0.096
	FR1 n71_Main	20M	BPSK	1	53	Bottom Face	0mm	Amphenol	ON	136100	680.5	13.20	13.50	1.072	0.12	0.181	0.194
	FR1 n71_Main	20M	BPSK	50	28	Bottom Face	0mm	Amphenol	ON	136100	680.5	13.18	13.50	1.076	0.05	0.175	0.188
	FR1 n71_Main	20M	BPSK	1	53	Edge 1	0mm	Amphenol	ON	136100	680.5	13.20	13.50	1.072	-0.11	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 1	0mm	Amphenol	ON	136100	680.5	13.18	13.50	1.076	-0.04	0.001	0.001
21	FR1 n71_Main	20M	BPSK	1	53	Edge 2	0mm	Amphenol	ON	136100	680.5	13.20	13.50	1.072	-0.04	0.476	0.510
	FR1 n71_Main	20M	BPSK	50	28	Edge 2	0mm	Amphenol	ON	136100	680.5	13.18	13.50	1.076	-0.16	0.470	0.506
	FR1 n71_Main	20M	BPSK	1	53	Bottom of Laptop	29mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	0.02	0.070	0.091
	FR1 n71_Main	20M	BPSK	50	28	Bottom of Laptop	29mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	-0.04	0.060	0.080
	FR1 n71_Main	20M	BPSK	1	53	Bottom Face	34mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	0.16	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Bottom Face	34mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	-0.18	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	53	Edge 1	24mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	0.13	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 1	24mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	-0.09	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	53	Edge 2	6mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	0.11	0.354	0.460
	FR1 n71_Main	20M	BPSK	50	28	Edge 2	6mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	0.18	0.321	0.426
	FR1 n71_Main	20M	BPSK	1	53	Edge 3	0mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	0.14	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 3	0mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	-0.12	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	53	Edge 4	0mm	Amphenol	OFF	136100	680.5	23.86	25.00	1.300	-0.02	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 4	0mm	Amphenol	OFF	136100	680.5	23.77	25.00	1.327	-0.05	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	53	Edge 2	0mm	NVC	ON	136100	680.5	13.20	13.50	1.072	-0.03	0.266	0.285



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n41_Main	100M	BPSK	1	271	Bottom of Laptop	0mm	Amphenol	ON	518598	2592.99	9.36	9.50	1.033	-0.04	0.150	0.155
	FR1 n41_Main	100M	BPSK	135	138	Bottom of Laptop	0mm	Amphenol	ON	518598	2592.99	9.24	9.50	1.062	0.08	0.194	0.206
	FR1 n41_Main	100M	BPSK	1	271	Bottom Face	0mm	Amphenol	ON	518598	2592.99	9.36	9.50	1.033	-0.11	0.524	0.541
	FR1 n41_Main	100M	BPSK	135	138	Bottom Face	0mm	Amphenol	ON	518598	2592.99	9.24	9.50	1.062	-0.1	0.727	0.772
	FR1 n41_Main	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	518598	2592.99	8.78	9.50	1.180	0.03	0.644	0.760
	FR1 n41_Main	100M	BPSK	1	271	Edge 1	0mm	Amphenol	ON	518598	2592.99	9.36	9.50	1.033	-0.02	0.106	0.109
	FR1 n41_Main	100M	BPSK	135	138	Edge 1	0mm	Amphenol	ON	518598	2592.99	9.24	9.50	1.062	-0.02	0.190	0.202
	FR1 n41_Main	100M	BPSK	1	271	Edge 2	0mm	Amphenol	ON	518598	2592.99	9.36	9.50	1.033	0.09	0.001	0.001
	FR1 n41_Main	100M	BPSK	135	138	Edge 2	0mm	Amphenol	ON	518598	2592.99	9.24	9.50	1.062	0.12	0.001	0.001
	FR1 n41_Main	100M	BPSK	1	137	Bottom of Laptop	29mm	Amphenol	OFF	518598	2592.99	22.21	24.00	1.510	0	0.380	0.574
	FR1 n41_Main	100M	BPSK	135	69	Bottom of Laptop	29mm	Amphenol	OFF	518598	2592.99	22.43	24.00	1.435	-0.16	0.357	0.512
	FR1 n41_Main	100M	BPSK	1	137	Bottom Face	34mm	Amphenol	OFF	518598	2592.99	22.21	24.00	1.510	-0.17	0.246	0.371
	FR1 n41_Main	100M	BPSK	135	69	Bottom Face	34mm	Amphenol	OFF	518598	2592.99	22.43	24.00	1.435	-0.1	0.232	0.333
	FR1 n41_Main	100M	BPSK	1	137	Edge 1	24mm	Amphenol	OFF	518598	2592.99	22.21	24.00	1.510	0.17	0.217	0.328
	FR1 n41_Main	100M	BPSK	135	69	Edge 1	24mm	Amphenol	OFF	518598	2592.99	22.43	24.00	1.435	-0.14	0.189	0.271
	FR1 n41_Main	100M	BPSK	1	137	Edge 2	6mm	Amphenol	OFF	518598	2592.99	22.21	24.00	1.510	0.01	0.123	0.186
	FR1 n41_Main	100M	BPSK	135	69	Edge 2	6mm	Amphenol	OFF	518598	2592.99	22.43	24.00	1.435	-0.06	0.109	0.156
	FR1 n41_HPUE_Main	100M	BPSK	1	271	Bottom Face	0mm	Amphenol	ON	518598	2592.99	12.44	12.50	1.014	0.01	0.712	0.722
	FR1 n41_Main	100M	BPSK	135	138	Bottom Face	0mm	NVC	ON	518598	2592.99	9.24	9.50	1.062	0.19	0.500	0.531
	FR1 n41_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	ON	518598	2592.99	8.86	10.00	1.300	0.02	0.139	0.181
	FR1 n41_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	ON	518598	2592.99	8.98	10.00	1.265	0.11	0.141	0.178
	FR1 n41_MIMO 2	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	518598	2592.99	8.86	10.00	1.300	-0.08	0.833	1.083
	FR1 n41_MIMO 2	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	ON	518598	2592.99	8.98	10.00	1.265	0.19	0.797	1.008
	FR1 n41_MIMO 2	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	518598	2592.99	8.88	10.00	1.294	0.05	0.783	1.013
	FR1 n41_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	518598	2592.99	8.86	10.00	1.300	0.19	0.790	1.027
22	FR1 n41_MIMO 2	100M	BPSK	135	69	Edge 4	0mm	Amphenol	ON	518598	2592.99	8.98	10.00	1.265	-0.04	0.905	1.145
	FR1 n41_MIMO 2	100M	BPSK	270	0	Edge 4	0mm	Amphenol	ON	518598	2592.99	8.88	10.00	1.294	0.08	0.776	1.004
	FR1 n41_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	22mm	Amphenol	OFF	518598	2592.99	22.71	24.00	1.346	-0.07	0.253	0.341
	FR1 n41_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	22mm	Amphenol	OFF	518598	2592.99	23.09	24.00	1.233	0.05	0.235	0.290
	FR1 n41_MIMO 2	100M	BPSK	1	137	Bottom Face	24mm	Amphenol	OFF	518598	2592.99	22.71	24.00	1.346	0.15	0.322	0.433
	FR1 n41_MIMO 2	100M	BPSK	135	69	Bottom Face	24mm	Amphenol	OFF	518598	2592.99	23.09	24.00	1.233	-0.07	0.308	0.380
	FR1 n41_MIMO 2	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	518598	2592.99	22.71	24.00	1.346	-0.11	0.037	0.050
	FR1 n41_MIMO 2	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	518598	2592.99	23.09	24.00	1.233	-0.13	0.033	0.041
	FR1 n41_MIMO 2	100M	BPSK	1	137	Edge 4	22mm	Amphenol	OFF	518598	2592.99	22.71	24.00	1.346	0.16	0.663	0.892
	FR1 n41_MIMO 2	100M	BPSK	135	69	Edge 4	22mm	Amphenol	OFF	518598	2592.99	23.09	24.00	1.233	0.07	0.631	0.778
	FR1 n41_HPUE_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	518598	2592.99	11.98	13.00	1.265	0.07	0.853	1.079
	FR1 n41_MIMO 2	100M	BPSK	135	69	Edge 4	0mm	NVC	ON	518598	2592.99	8.98	10.00	1.265	0.07	0.826	1.045



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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 n41_MIMO 1	100M	BPSK	1	271	Bottom of Laptop	0mm	Amphenol	OFF	518598	2592.99	7.96	9.00	1.271	-0.14	0.095	0.121
	FR1 n41_MIMO 1	100M	BPSK	135	138	Bottom of Laptop	0mm	Amphenol	OFF	518598	2592.99	8.05	9.00	1.245	0	0.096	0.119
	FR1 n41_MIMO 1	100M	BPSK	1	271	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	7.96	9.00	1.271	-0.08	0.665	0.845
	FR1 n41_MIMO 1	100M	BPSK	135	138	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	8.05	9.00	1.245	0.08	0.616	0.767
	FR1 n41_MIMO 1	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	7.71	9.00	1.346	-0.18	0.556	0.748
	FR1 n41_MIMO 1	100M	BPSK	1	271	Edge 1	0mm	Amphenol	OFF	518598	2592.99	7.96	9.00	1.271	0.02	0.107	0.136
	FR1 n41_MIMO 1	100M	BPSK	135	138	Edge 1	0mm	Amphenol	OFF	518598	2592.99	8.05	9.00	1.245	-0.12	0.096	0.119
	FR1 n41_MIMO 1	100M	BPSK	1	271	Edge 2	0mm	Amphenol	OFF	518598	2592.99	7.96	9.00	1.271	0.13	0.810	1.029
	FR1 n41_MIMO 1	100M	BPSK	135	138	Edge 2	0mm	Amphenol	OFF	518598	2592.99	8.05	9.00	1.245	-0.08	0.859	1.069
	FR1 n41_MIMO 1	100M	BPSK	270	0	Edge 2	0mm	Amphenol	OFF	518598	2592.99	7.71	8.50	1.199	0.11	0.729	0.874
	FR1 n41_MIMO 1	100M	BPSK	135	138	Edge 2	0mm	NVC	OFF	518598	2592.99	8.05	9.00	1.245	-0.18	0.779	0.969
	FR1 n41_Aux	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	OFF	518598	2592.99	10.86	12.00	1.300	0.03	0.143	0.186
	FR1 n41_Aux	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	OFF	518598	2592.99	11.11	12.00	1.227	-0.04	0.179	0.220
	FR1 n41_Aux	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	10.86	12.00	1.300	0.01	0.867	1.127
	FR1 n41_Aux	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	11.11	12.00	1.227	-0.05	0.729	0.895
	FR1 n41_Aux	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	518598	2592.99	10.92	12.00	1.282	-0.01	0.723	0.927
	FR1 n41_Aux	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	518598	2592.99	10.86	12.00	1.300	0.01	0.175	0.228
	FR1 n41_Aux	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	518598	2592.99	11.11	12.00	1.227	-0.15	0.219	0.269
	FR1 n41_Aux	100M	BPSK	1	137	Edge 4	0mm	Amphenol	OFF	518598	2592.99	10.86	12.00	1.300	0.13	0.090	0.117
	FR1 n41_Aux	100M	BPSK	135	69	Edge 4	0mm	Amphenol	OFF	518598	2592.99	11.11	12.00	1.227	-0.09	0.103	0.126
	FR1 n41_Aux	100M	BPSK	1	137	Bottom Face	0mm	NVC	OFF	518598	2592.99	10.86	12.00	1.300	0.01	0.352	0.458



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_Main	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	ON	656000	3840	9.02	10.00	1.253	-0.1	0.182	0.228
	FR1 n77_Main	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	ON	656000	3840	9.11	10.00	1.227	0.11	0.189	0.232
23	FR1 n77_Main	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	656000	3840	9.02	10.00	1.253	-0.17	0.926	1.160
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	ON	656000	3840	9.11	10.00	1.227	-0.1	0.797	0.978
	FR1 n77_Main	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	656000	3840	8.97	10.00	1.268	-0.04	0.865	1.097
	FR1 n77_Main	100M	BPSK	1	137	Edge 1	0mm	Amphenol	ON	656000	3840	9.02	10.00	1.253	0.05	0.199	0.249
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	0mm	Amphenol	ON	656000	3840	9.11	10.00	1.227	-0.01	0.187	0.230
	FR1 n77_Main	100M	BPSK	1	137	Edge 2	0mm	Amphenol	ON	656000	3840	9.02	10.00	1.253	0.05	0.032	0.040
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	0mm	Amphenol	ON	656000	3840	9.11	10.00	1.227	0.06	0.025	0.031
	FR1 n77_Main	100M	BPSK	1	137	Bottom of Laptop	29mm	Amphenol	OFF	656000	3840	23.07	24.00	1.239	0.15	0.450	0.557
	FR1 n77_Main	100M	BPSK	135	69	Bottom of Laptop	29mm	Amphenol	OFF	656000	3840	23.04	24.00	1.247	-0.08	0.424	0.529
	FR1 n77_Main	100M	BPSK	1	137	Bottom Face	34mm	Amphenol	OFF	656000	3840	23.07	24.00	1.239	-0.19	0.394	0.488
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	34mm	Amphenol	OFF	656000	3840	23.04	24.00	1.247	0.09	0.375	0.468
	FR1 n77_Main	100M	BPSK	1	137	Edge 1	24mm	Amphenol	OFF	656000	3840	23.07	24.00	1.239	-0.05	0.243	0.301
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	24mm	Amphenol	OFF	656000	3840	23.04	24.00	1.247	-0.05	0.228	0.284
	FR1 n77_Main	100M	BPSK	1	137	Edge 2	6mm	Amphenol	OFF	656000	3840	23.07	24.00	1.239	0.09	0.470	0.582
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	6mm	Amphenol	OFF	656000	3840	23.04	24.00	1.247	0.19	0.451	0.563
	FR1 n77_HPUE_Main	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	656000	3840	12.50	13.00	1.122	-0.04	0.958	1.075
	FR1 n77_Main	100M	BPSK	1	137	Bottom Face	0mm	NVC	ON	656000	3840	9.02	10.00	1.253	-0.15	0.506	0.634
	FR1 n77_Main	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	ON	633332	3499.98	9.38	10.00	1.153	-0.07	0.155	0.179
	FR1 n77_Main	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	ON	633332	3499.98	9.47	10.00	1.130	0.05	0.130	0.147
	FR1 n77_Main	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	633332	3499.98	9.38	10.00	1.153	-0.01	0.960	1.107
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	ON	633332	3499.98	9.47	10.00	1.130	-0.07	0.730	0.825
	FR1 n77_Main	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	633332	3499.98	9.41	10.00	1.146	0.16	0.914	1.047
	FR1 n77_Main	100M	BPSK	1	137	Edge 1	0mm	Amphenol	ON	633332	3499.98	9.38	10.00	1.153	0.13	0.155	0.179
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	0mm	Amphenol	ON	633332	3499.98	9.47	10.00	1.130	0.03	0.157	0.177
	FR1 n77_Main	100M	BPSK	1	137	Edge 2	0mm	Amphenol	ON	633332	3499.98	9.38	10.00	1.153	0.12	0.069	0.080
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	0mm	Amphenol	ON	633332	3499.98	9.47	10.00	1.130	-0.07	0.060	0.068
	FR1 n77_Main	100M	BPSK	1	137	Bottom of Laptop	29mm	Amphenol	OFF	633332	3499.98	23.20	24.00	1.202	0.13	0.077	0.093
	FR1 n77_Main	100M	BPSK	135	69	Bottom of Laptop	29mm	Amphenol	OFF	633332	3499.98	23.33	24.00	1.167	0.04	0.067	0.078
	FR1 n77_Main	100M	BPSK	1	137	Bottom Face	34mm	Amphenol	OFF	633332	3499.98	23.20	24.00	1.202	-0.02	0.144	0.173
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	34mm	Amphenol	OFF	633332	3499.98	23.33	24.00	1.167	0.07	0.139	0.162
	FR1 n77_Main	100M	BPSK	1	137	Edge 1	24mm	Amphenol	OFF	633332	3499.98	23.20	24.00	1.202	0.17	0.228	0.274
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	24mm	Amphenol	OFF	633332	3499.98	23.33	24.00	1.167	-0.1	0.209	0.244
	FR1 n77_Main	100M	BPSK	1	137	Edge 2	6mm	Amphenol	OFF	633332	3499.98	23.20	24.00	1.202	0.11	0.392	0.471
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	6mm	Amphenol	OFF	633332	3499.98	23.33	24.00	1.167	-0.07	0.378	0.441
	FR1 n77_HPUE_Main	100M	BPSK	1	137	Bottom Face	0mm	NVC	ON	633332	3499.98	11.66	13.00	1.361	0.14	0.779	1.061
	FR1 n77_Main	100M	BPSK	1	271	Bottom Face	0mm	NVC	ON	633332	3499.98	9.33	10.00	1.167	0.13	0.649	0.757



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	ON	656000	3840	11.49	12.50	1.262	0.11	0.179	0.226
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	ON	656000	3840	11.40	12.50	1.288	-0.12	0.181	0.233
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	656000	3840	11.49	12.50	1.262	-0.06	0.535	0.675
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	ON	656000	3840	11.40	12.50	1.288	-0.18	0.515	0.663
	FR1 n77_MIMO 2	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	656000	3840	11.35	12.50	1.303	0.09	0.541	0.705
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	656000	3840	11.49	12.50	1.262	-0.06	0.701	0.885
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 4	0mm	Amphenol	ON	656000	3840	11.40	12.50	1.288	-0.16	0.672	0.866
	FR1 n77_MIMO 2	100M	BPSK	270	0	Edge 4	0mm	Amphenol	ON	656000	3840	11.35	12.50	1.303	0.15	0.569	0.742
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	22mm	Amphenol	OFF	656000	3840	23.73	24.00	1.064	0.03	0.372	0.396
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	22mm	Amphenol	OFF	656000	3840	23.60	24.00	1.096	0.18	0.344	0.377
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom Face	24mm	Amphenol	OFF	656000	3840	23.73	24.00	1.064	0.13	0.243	0.259
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom Face	24mm	Amphenol	OFF	656000	3840	23.60	24.00	1.096	0.17	0.233	0.255
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	656000	3840	23.73	24.00	1.064	0.01	0.041	0.044
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	656000	3840	23.60	24.00	1.096	0.08	0.067	0.073
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 4	22mm	Amphenol	OFF	656000	3840	23.73	24.00	1.064	-0.05	0.569	0.605
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 4	22mm	Amphenol	OFF	656000	3840	23.60	24.00	1.096	-0.18	0.555	0.609
	FR1 n77_HPUE_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	656000	3840	14.95	15.50	1.135	-0.09	0.627	0.712
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	NVC	ON	656000	3840	11.49	12.50	1.262	0.03	0.551	0.695
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	ON	633332	3499.98	11.05	12.50	1.396	0.15	0.175	0.244
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	ON	633332	3499.98	11.15	12.50	1.365	0.16	0.166	0.227
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	ON	633332	3499.98	11.05	12.50	1.396	-0.14	0.753	1.051
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	ON	633332	3499.98	11.15	12.50	1.365	-0.1	0.724	0.988
	FR1 n77_MIMO 2	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	ON	633332	3499.98	11.00	12.50	1.413	-0.07	0.654	0.924
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	633332	3499.98	11.05	12.50	1.396	-0.01	0.739	1.032
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 4	0mm	Amphenol	ON	633332	3499.98	11.15	12.50	1.365	-0.09	0.803	1.096
	FR1 n77_MIMO 2	100M	BPSK	270	0	Edge 4	0mm	Amphenol	ON	633332	3499.98	11.00	12.50	1.413	0.13	0.773	1.092
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom of Laptop	22mm	Amphenol	OFF	633332	3499.98	23.86	24.00	1.033	-0.05	0.318	0.328
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom of Laptop	22mm	Amphenol	OFF	633332	3499.98	23.78	24.00	1.052	0.06	0.316	0.332
	FR1 n77_MIMO 2	100M	BPSK	1	137	Bottom Face	24mm	Amphenol	OFF	633332	3499.98	23.86	24.00	1.033	0.03	0.492	0.508
	FR1 n77_MIMO 2	100M	BPSK	135	69	Bottom Face	24mm	Amphenol	OFF	633332	3499.98	23.78	24.00	1.052	0.17	0.491	0.517
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	633332	3499.98	23.86	24.00	1.033	0.01	0.062	0.064
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	633332	3499.98	23.78	24.00	1.052	-0.19	0.067	0.070
	FR1 n77_MIMO 2	100M	BPSK	1	137	Edge 4	22mm	Amphenol	OFF	633332	3499.98	23.86	24.00	1.033	-0.12	0.423	0.437
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 4	22mm	Amphenol	OFF	633332	3499.98	23.78	24.00	1.052	-0.19	0.416	0.438
	FR1 n77_HPUE_MIMO 2	100M	BPSK	1	137	Edge 4	0mm	Amphenol	ON	633332	3499.98	14.46	15.50	1.271	-0.05	0.793	1.008
	FR1 n77_MIMO 2	100M	BPSK	135	69	Edge 4	0mm	NVC	ON	633332	3499.98	11.15	12.50	1.365	-0.13	0.744	1.015



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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_MIMO 1	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016	0.14	0.181	0.184
	FR1 n77_MIMO 1	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	OFF	656000	3840	10.99	11.00	1.002	0.14	0.188	0.188
	FR1 n77_MIMO 1	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016	0.18	0.697	0.708
	FR1 n77_MIMO 1	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	OFF	656000	3840	10.99	11.00	1.002	0.19	0.854	0.856
	FR1 n77_MIMO 1	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	656000	3840	10.91	11.00	1.021	0.1	0.766	0.782
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016	0.01	0.033	0.034
	FR1 n77_MIMO 1	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	656000	3840	10.99	11.00	1.002	-0.17	0.040	0.040
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 2	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016	-0.05	0.967	0.983
	FR1 n77_MIMO 1	100M	BPSK	135	69	Edge 2	0mm	Amphenol	OFF	656000	3840	10.99	11.00	1.002	0.01	0.936	0.938
	FR1 n77_MIMO 1	100M	BPSK	270	0	Edge 2	0mm	Amphenol	OFF	656000	3840	10.91	11.00	1.021	0.1	0.910	0.929
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 2	0mm	NVC	OFF	656000	3840	10.93	11.00	1.016	0.02	0.923	0.938
	FR1 n77_MIMO 1	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	0.02	0.140	0.169
	FR1 n77_MIMO 1	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	OFF	633332	3499.98	10.27	11.00	1.183	0.01	0.141	0.167
	FR1 n77_MIMO 1	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	-0.14	0.706	0.851
	FR1 n77_MIMO 1	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	10.27	11.00	1.183	0.02	0.760	0.899
	FR1 n77_MIMO 1	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	-0.18	0.717	0.864
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	0.02	0.021	0.025
	FR1 n77_MIMO 1	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	633332	3499.98	10.27	11.00	1.183	-0.1	0.021	0.025
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 2	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	-0.1	0.947	1.141
	FR1 n77_MIMO 1	100M	BPSK	135	69	Edge 2	0mm	Amphenol	OFF	633332	3499.98	10.27	11.00	1.183	0.02	0.915	1.082
	FR1 n77_MIMO 1	100M	BPSK	270	0	Edge 2	0mm	Amphenol	OFF	633332	3499.98	10.19	11.00	1.205	0.08	0.888	1.070
	FR1 n77_MIMO 1	100M	BPSK	1	137	Edge 2	0mm	NVC	OFF	633332	3499.98	10.19	11.00	1.205	0.1	0.856	1.032
	FR1 n77_Aux	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	OFF	656000	3840	8.56	10.00	1.393	-0.18	0.165	0.230
	FR1 n77_Aux	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	OFF	656000	3840	8.63	10.00	1.371	0.01	0.166	0.228
	FR1 n77_Aux	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	OFF	656000	3840	8.56	10.00	1.393	0	0.767	1.069
	FR1 n77_Aux	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	OFF	656000	3840	8.63	10.00	1.371	0.1	0.664	0.910
	FR1 n77_Aux	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	656000	3840	8.55	10.00	1.396	0.06	0.745	1.040
	FR1 n77_Aux	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	656000	3840	8.56	10.00	1.393	0.16	0.256	0.357
	FR1 n77_Aux	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	656000	3840	8.63	10.00	1.371	0.13	0.204	0.280
	FR1 n77_Aux	100M	BPSK	270	0	Edge 1	0mm	Amphenol	OFF	656000	3840	8.55	10.00	1.396	-0.18	0.226	0.316
	FR1 n77_Aux	100M	BPSK	1	137	Edge 4	0mm	Amphenol	OFF	656000	3840	8.56	10.00	1.393	-0.05	0.123	0.171
	FR1 n77_Aux	100M	BPSK	135	69	Edge 4	0mm	Amphenol	OFF	656000	3840	8.63	10.00	1.371	-0.02	0.115	0.158
	FR1 n77_Aux	100M	BPSK	1	137	Bottom Face	0mm	NVC	OFF	656000	3840	8.56	10.00	1.393	-0.03	0.661	0.921
	FR1 n77_Aux	100M	BPSK	1	137	Bottom of Laptop	0mm	Amphenol	OFF	633332	3499.98	8.75	10.00	1.334	-0.13	0.092	0.123
	FR1 n77_Aux	100M	BPSK	135	69	Bottom of Laptop	0mm	Amphenol	OFF	633332	3499.98	8.84	10.00	1.306	-0.07	0.095	0.124
	FR1 n77_Aux	100M	BPSK	1	137	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	8.75	10.00	1.334	0.01	0.579	0.772
	FR1 n77_Aux	100M	BPSK	135	69	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	8.84	10.00	1.306	0.05	0.601	0.785
	FR1 n77_Aux	100M	BPSK	270	0	Bottom Face	0mm	Amphenol	OFF	633332	3499.98	8.78	10.00	1.324	0.07	0.525	0.695
	FR1 n77_Aux	100M	BPSK	1	137	Edge 1	0mm	Amphenol	OFF	633332	3499.98	8.75	10.00	1.334	-0.18	0.063	0.084
	FR1 n77_Aux	100M	BPSK	135	69	Edge 1	0mm	Amphenol	OFF	633332	3499.98	8.84	10.00	1.306	-0.18	0.076	0.099
	FR1 n77_Aux	100M	BPSK	1	137	Edge 4	0mm	Amphenol	OFF	633332	3499.98	8.75	10.00	1.334	-0.06	0.052	0.069
	FR1 n77_Aux	100M	BPSK	135	69	Edge 4	0mm	Amphenol	OFF	633332	3499.98	8.84	10.00	1.306	0.02	0.064	0.084
	FR1 n77_Aux	100M	BPSK	135	69	Bottom Face	0mm	NVC	OFF	633332	3499.98	8.84	10.00	1.306	-0.15	0.394	0.515

13.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna Vendor	Power Reduction	Ch.	Freq. (MHz)	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)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	9538	1907.6	12.41	12.50	1.021			-0.15	1.140	-	1.164
2nd	WCDMA II_MIMO 2	RMC 12.2Kbps	Edge 4	0mm	Amphenol	ON	9538	1907.6	12.41	12.50	1.021			0.04	1.020	1.118	1.041
1st	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1413	1732.6	13.35	13.50	1.035			0	1.100	-	1.139
2nd	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	1413	1732.6	13.35	13.50	1.035			0.09	1.040	1.058	1.077
1st	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	4233	846.6	13.85	14.50	1.161			-0.13	0.869	-	1.009
2nd	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Amphenol	ON	4233	846.6	13.85	14.50	1.161			-0.03	0.843	1.031	0.979
1st	LTE Band 7_MIMO 2	20M_QPSK_50_24	Edge 4	0mm	Amphenol	ON	21350	2560	8.96	9.50	1.132			-0.04	1.020	-	1.155
2nd	LTE Band 7_MIMO 2	20M_QPSK_50_24	Edge 4	0mm	Amphenol	ON	21350	2560	8.96	9.50	1.132			-0.06	0.998	1.022	1.130
1st	LTE Band 12_Main	10M_QPSK_25_12	Edge 2	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026			-0.02	0.964	-	0.989
2nd	LTE Band 12_Main	10M_QPSK_25_12	Edge 2	0mm	Amphenol	ON	23095	707.5	14.39	14.50	1.026			0.04	0.953	1.012	0.977
1st	LTE Band 48_MIMO 2	20M_QPSK_50_0	Bottom Face	0mm	Amphenol	ON	56640	3690	12.77	13.50	1.183	62.9	1.006	-0.11	0.938	-	1.116
2nd	LTE Band 48_MIMO 2	20M_QPSK_50_0	Bottom Face	0mm	Amphenol	ON	56640	3690	12.77	13.50	1.183	62.9	1.006	0.08	0.912	1.029	1.085
1st	FR1 n30_MIMO 2	10M_BPSK_1_26	Edge 4	0mm	Amphenol	ON	462000	2310	10.86	11.00	1.033			-0.16	1.090	-	1.126
2nd	FR1 n30_MIMO 2	10M_BPSK_1_26	Edge 4	0mm	Amphenol	ON	462000	2310	10.86	11.00	1.033			0.02	1.050	1.038	1.084
1st	FR1 n77_MIMO 1	100M_BPSK_1_137	Edge 2	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016			-0.05	0.967	-	0.983
2nd	FR1 n77_MIMO 1	100M_BPSK_1_137	Edge 2	0mm	Amphenol	OFF	656000	3840	10.93	11.00	1.016			0.03	0.951	1.017	0.966

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

13.3 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. 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 configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in 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%

	LTE Band 41_Main Ant	LTE Band 41_Main Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	12	12
Reported 1g SAR (W/kg)	0.963	0.597
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	10.03	6.86
Linearity SAR(W/kg)	0.66	
% deviation from expected linearity		-9.37%

	LTE Band 41_MIMO 2 Ant	LTE Band 41_MIMO 2 Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	11	11
Reported 1g SAR (W/kg)	1.076	0.691
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	7.97	5.45
Linearity SAR(W/kg)	0.74	
% deviation from expected linearity		-6.12%

13.4 FR1 n41/n77 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 50% using UL-DL configuration 1. 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 FR1 configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in 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%

	FR1 n41_Main Ant	FR1 n41_Main Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	9.5	12.5
Reported 1g SAR (W/kg)	0.772	0.722
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	8.91	8.89
Linearity SAR(W/kg)	0.77	
% deviation from expected linearity		-6.25%

	FR1 n41_MIMO 2 Ant	FR1 n41_MIMO 2 Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	10	13
Reported 1g SAR (W/kg)	1.145	1.079
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	10.00	9.98
Linearity SAR(W/kg)	1.14	
% deviation from expected linearity		-5.54%

	FR1 n77_Main Ant	FR1 n77_Main Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	10	13
Reported 1g SAR (W/kg)	1.16	1.075
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	10.00	9.98
Linearity SAR(W/kg)	1.16	
% deviation from expected linearity		-7.11%

	FR1 n77_MIMO 2 Ant	FR1 n77_MIMO 2 Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	12.5	15.5
Reported 1g SAR (W/kg)	1.096	1.008
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	17.78	17.74
Linearity SAR(W/kg)	1.09	
% deviation from expected linearity		-7.81%

14. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN Main + WWAN MIMO 2 + 2.4GHz WLAN Ant 1 + 2.4GHz WLAN Ant 2	Yes
2.	WWAN Main + WWAN MIMO 2 + 2.4GHz WLAN Ant 1 + Bluetooth Ant 2	Yes
3.	WWAN Main + WWAN MIMO 2 + 5/6GHz WLAN Ant 1 + 5/6GHz WLAN Ant 2 + Bluetooth Ant 2	Yes
4.	WWAN MIMO 1 + 2.4GHz WLAN Ant 1 + 2.4GHz WLAN Ant 2	Yes
5.	WWAN MIMO 1 + 2.4GHz WLAN Ant 1 + Bluetooth Ant 2	Yes
6.	WWAN MIMO 1 + 5/6GHz WLAN Ant 1 + 5/6GHz WLAN Ant 2 + Bluetooth Ant 2	Yes
7.	WWAN Aux+ 2.4GHz WLAN Ant 1 + 2.4GHz WLAN Ant 2	Yes
8.	WWAN Aux + 2.4GHz WLAN Ant 1 + Bluetooth Ant 2	Yes
9.	WWAN Aux + 5/6GHz WLAN Ant 1 + 5/6GHz WLAN Ant 2 + Bluetooth Ant 2	Yes

General Note:

1. The Intel AX211D2W WLAN/BT module is also integrated into this host. The 2.4GHz, 5GHz and Bluetooth SAR results are referenced from Intel SAR report, report number: 210922-01.TR01 (FCC ID: PD9AX211D2), WLAN 6E SAR refers new report number.: 210922-01.TR02 (FCC ID: PD9AX211D2) and these SAR results are also used to perform simultaneous transmission analysis.
2. The worst case SAR from each WWAN transmit antenna is used for Sim-Tx analysis. Therefore, the following summations represent the absolute worst cases for simultaneous transmission for this device and it is conservative.
3. The Sim-Tx analysis for EN-DC active is choose the worst case standalone SAR from the WWAN main and MIMO2 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.
4. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 14.2.

14.1 Body Exposure Conditions

<WWAN Main + WWAN MIMO 2 + WLAN + Bluetooth>

Exposure Position	1	2	3	4	5	6	7	8	9	1+2+3+4 Summed 1g SAR (W/kg)	1+2+3+9 Summed 1g SAR (W/kg)	1+2+5+6+9 Summed 1g SAR (W/kg)	1+2+7+8+9 Summed 1g SAR (W/kg)	SPLSR	Case No
	Maximum WWAN Main Ant	Maximum WWAN MIMO 2 Ant	WLAN 2.4GHz Ant 1	WLAN 2.4GHz Ant 2	WLAN 5GHz Ant 1	WLAN 5GHz Ant 2	WLAN 6GHz Ant 1	WLAN 6GHz Ant 2	Bluetooth Ant 2						
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
Bottom of Laptop at 0mm	0.418	0.356	0.610	1.160	1.580	1.110	1.590	0.200		2.544	1.584	3.664	4.154	0.04	Case 1
Bottom Face at 0mm	1.186	1.179	0.760	0.930	0.580	0.590	0.300	0.920	0.120	4.055	3.245	3.655	3.705	0.02	Case 2
Edge 1 at 0mm	0.350	0.798								1.148	1.148	1.148	1.148		
Edge 2 at 0mm	1.003									1.003	1.003	1.003	1.003		
Edge 3 at 0mm	0.001		0.850	1.140	1.480	0.930	1.340	1.590	0.200	1.991	1.051	2.611	3.131	0.03	Case 3
Edge 4 at 0mm	0.001	1.164								1.165	1.165	1.165	1.165		

<WWAN MIMO 1 + WLAN + Bluetooth>

Exposure Position	1	2	3	4	5	6	7	8	1+2+3 Summed 1g SAR (W/kg)	1+2+8 Summed 1g SAR (W/kg)	1+4+5+8 Summed 1g SAR (W/kg)	1+6+7+8 Summed 1g SAR (W/kg)	SPLSR	Case No
	Maximum WWAN MIMO 1 Ant	WLAN 2.4GHz Ant 1	WLAN 2.4GHz Ant 2	WLAN 5GHz Ant 1	WLAN 5GHz Ant 2	WLAN 6GHz Ant 1	WLAN 6GHz Ant 2	Bluetooth Ant 2						
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
Bottom of Laptop at 0mm	0.188	0.610	1.160	1.580	1.110	1.590	1.590	0.200	1.958	0.998	3.078	3.568	0.04	Case 4
Bottom Face at 0mm	0.899	0.760	0.930	0.580	0.590	0.300	0.920	0.120	2.589	1.779	2.189	2.239	0.01	Case 5
Edge 1 at 0mm	0.136								0.136	0.136	0.136	0.136		
Edge 2 at 0mm	1.141								1.141	1.141	1.141	1.141		

<WWAN Aux + WLAN + Bluetooth>

Exposure Position	1	2	3	4	5	6	7	8	1+2+3 Summed 1g SAR (W/kg)	1+2+8 Summed 1g SAR (W/kg)	1+4+5+8 Summed 1g SAR (W/kg)	1+6+7+8 Summed 1g SAR (W/kg)	SPLSR	Case No
	Maximum WWAN Aux Ant	WLAN 2.4GHz Ant 1	WLAN 2.4GHz Ant 2	WLAN 5GHz Ant 1	WLAN 5GHz Ant 2	WLAN 6GHz Ant 1	WLAN 6GHz Ant 2	Bluetooth Ant 2						
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
Bottom of Laptop at 0mm	0.230	0.610	1.160	1.580	1.110	1.590	1.590	0.200	2.000	1.040	3.120	3.610	0.04	Case 6
Bottom Face at 0mm	1.127	0.760	0.930	0.580	0.590	0.300	0.920	0.120	2.817	2.007	2.417	2.467	0.02	Case 7
Edge 1 at 0mm	0.357								0.357	0.357	0.357	0.357		
Edge 4 at 0mm	0.171								0.171	0.171	0.171	0.171		

14.2 SPLSR Evaluation and Analysis

General Note:

1. According to antenna location of appendix D, the minimum distance between each WWAN/WLAN/BT transmit antenna are using for SPLSR analysis.
2. For SPLSR analysis is selected highest standalone SAR from each WWAN transmit antenna to be evaluated and it is conservative.
3. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary

	Band	Position	SAR (W/kg)	Gap	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)				
Case 1	Maximum Main Ant	Bottom of Laptop	0.418	0mm	152.0	0.77	0.00	Not required
	Maximum MIMO2 Ant		0.356	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	198.0	1.03	0.01	Not required
	WLAN2.4GHz_Ant 1		0.61	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	252.0	1.58	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	198.0	2.00	0.01	Not required
	WLAN5GHz_Ant 1		1.58	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	198.0	2.01	0.01	Not required
	WLAN6GHz_Ant 1		1.59	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	252.0	1.73	0.01	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	Maximum Main Ant	Bottom of Laptop	0.418	0mm	252.0	2.21	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	276.0	0.97	0.00	Not required
	WLAN2.4GHz_Ant 1		0.61	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	152.0	1.52	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	276.0	1.94	0.01	Not required
	WLAN5GHz_Ant 1		1.58	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	276.0	1.95	0.01	Not required
	WLAN6GHz_Ant 1		1.59	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	152.0	1.67	0.01	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	Maximum MIMO2 Ant	Bottom of Laptop	0.356	0mm	152.0	2.15	0.02	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
	WLAN2.4GHz_Ant 1	Bottom of Laptop	0.61	0mm	175.0	1.77	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	WLAN5GHz_Ant 1	Bottom of Laptop	1.58	0mm	175.0	2.89	0.03	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	WLAN6GHz_Ant 1	Bottom of Laptop	1.59	0mm	175.0	3.38	0.04	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Maximum Main Ant	Bottom Face	1.186	0mm	152.0	2.37	0.02	Not required
	Maximum MIMO2 Ant		1.179	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	198.0	1.95	0.01	Not required
	WLAN2.4GHz_Ant 1		0.76	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	252.0	2.12	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	198.0	1.77	0.01	Not required
	WLAN5GHz_Ant 1		0.58	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	198.0	1.49	0.01	Not required
	WLAN6GHz_Ant 1		0.3	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	252.0	1.90	0.01	Not required

	WLAN5GHz+BT_Ant 2		0.71	0mm				
	Maximum Main Ant	Bottom Face	1.186	0mm	252.0	2.23	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	276.0	1.94	0.01	Not required
	WLAN2.4GHz_Ant 1		0.76	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	152.0	2.11	0.02	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	276.0	1.76	0.01	Not required
	WLAN5GHz_Ant 1		0.58	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	276.0	1.48	0.01	Not required
	WLAN6GHz_Ant 1		0.3	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	152.0	1.89	0.02	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	Maximum MIMO2 Ant	Bottom Face	1.179	0mm	152.0	2.22	0.02	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	1.69	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	0.88	0.00	Not required
	BT_Ant 2		0.12	0mm				
	WLAN5GHz_Ant 1	Bottom Face	0.58	0mm	175.0	1.29	0.01	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	WLAN6GHz_Ant 1	Bottom Face	0.3	0mm	175.0	1.34	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
Case 3	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Maximum Main Ant	Edge 3	0.001	0mm	198.0	0.85	0.00	Not required
	WLAN2.4GHz_Ant 1		0.85	0mm				
	Maximum Main Ant	Edge 3	0.001	0mm	252.0	1.14	0.00	Not required
	WLAN2.4GHz_Ant 2		1.14	0mm				
	Maximum Main Ant	Edge 3	0.001	0mm	198.0	1.48	0.01	Not required
	WLAN5GHz_Ant 1		1.48	0mm				
	Maximum Main Ant	Edge 3	0.001	0mm	198.0	1.34	0.01	Not required
	WLAN6GHz_Ant 1		1.34	0mm				
	Maximum Main Ant	Edge 3	0.001	0mm	252.0	1.13	0.00	Not required
	WLAN5GHz+BT_Ant 2		1.13	0mm				
	Maximum Main Ant	Edge 3	0.001	0mm	252.0	1.61	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.61	0mm				
	WLAN2.4GHz_Ant 1	Edge 3	0.85	0mm	175.0	1.99	0.02	Not required
	WLAN2.4GHz_Ant 2		1.14	0mm				
	WLAN2.4GHz_Ant 1	Edge 3	0.85	0mm	175.0	1.05	0.01	Not required
	BT_Ant 2		0.2	0mm				
	WLAN5GHz_Ant 1	Edge 3	1.48	0mm	175.0	2.61	0.02	Not required
	WLAN5GHz+BT_Ant 2		1.13	0mm				
	WLAN6GHz_Ant 1	Edge 3	1.34	0mm	175.0	2.95	0.03	Not required
	WLAN6GHz+BT_Ant 2		1.61	0mm				

	Band	Position	SAR (W/kg)	Gap	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)				
Case 4	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	158.0	0.80	0.00	Not required
	WLAN2.4GHz_Ant 1		0.61	0mm				
	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	282.0	1.35	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	158.0	1.77	0.01	Not required
	WLAN5GHz_Ant 1		1.58	0mm				
	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	158.0	1.78	0.02	Not required
	WLAN6GHz_Ant 1		1.59	0mm				
	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	282.0	1.50	0.01	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	Maximum MIMO1 Ant	Bottom of Laptop	0.188	0mm	282.0	1.98	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
	WLAN2.4GHz_Ant 1	Bottom of Laptop	0.61	0mm	175.0	1.77	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	WLAN5GHz_Ant 1	Bottom of Laptop	1.58	0mm	175.0	2.89	0.03	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	WLAN6GHz_Ant 1	Bottom of Laptop	1.59	0mm	175.0	3.38	0.04	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	158.0	1.66	0.01	Not required
	WLAN2.4GHz_Ant 1		0.76	0mm				
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	282.0	1.83	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	158.0	1.48	0.01	Not required
	WLAN5GHz_Ant 1		0.58	0mm				
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	158.0	1.20	0.01	Not required
	WLAN6GHz_Ant 1		0.3	0mm				
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	282.0	1.61	0.01	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	Maximum MIMO1 Ant	Bottom Face	0.899	0mm	282.0	1.94	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	1.69	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	0.88	0.00	Not required
	BT_Ant 2		0.12	0mm				
	WLAN5GHz_Ant 1	Bottom Face	0.58	0mm	175.0	1.29	0.01	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	WLAN6GHz_Ant 1	Bottom Face	0.3	0mm	175.0	1.34	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Maximum Aux Ant	Bottom of Laptop	0.23	0mm	263.0	0.84	0.00	Not required
	WLAN2.4GHz_Ant 1		0.61	0mm				
	Maximum Aux Ant	Bottom of Laptop	0.23	0mm	198.0	1.39	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	Maximum Aux Ant	Bottom of Laptop	0.23	0mm	263.0	1.81	0.01	Not required
	WLAN5GHz_Ant 1		1.58	0mm				
	Maximum Aux Ant	Bottom of Laptop	0.23	0mm	263.0	1.82	0.01	Not required
	WLAN6GHz_Ant 1		1.59	0mm				
	Maximum Aux Ant	Bottom of Laptop	0.23	0mm	198.0	1.54	0.01	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	Maximum Aux Ant	Bottom of	0.23	0mm	198.0	2.02	0.01	Not required

	WLAN6GHz+BT_Ant 2	Laptop	1.79	0mm				
	WLAN2.4GHz_Ant 1	Bottom of Laptop	0.61	0mm	175.0	1.77	0.01	Not required
	WLAN2.4GHz_Ant 2		1.16	0mm				
	WLAN5GHz_Ant 1	Bottom of Laptop	1.58	0mm	175.0	2.89	0.03	Not required
	WLAN5GHz+BT_Ant 2		1.31	0mm				
	WLAN6GHz_Ant 1	Bottom of Laptop	1.59	0mm	175.0	3.38	0.04	Not required
	WLAN6GHz+BT_Ant 2		1.79	0mm				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Maximum Aux Ant	Bottom Face	1.127	0mm	263.0	1.89	0.01	Not required
	WLAN2.4GHz_Ant 1		0.76	0mm				
	Maximum Aux Ant	Bottom Face	1.127	0mm	198.0	2.06	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	Maximum Aux Ant	Bottom Face	1.127	0mm	263.0	1.71	0.01	Not required
	WLAN5GHz_Ant 1		0.58	0mm				
	Maximum Aux Ant	Bottom Face	1.127	0mm	263.0	1.43	0.01	Not required
	WLAN6GHz_Ant 1		0.3	0mm				
	Maximum Aux Ant	Bottom Face	1.127	0mm	198.0	1.84	0.01	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	Maximum Aux Ant	Bottom Face	1.127	0mm	198.0	2.17	0.02	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	1.69	0.01	Not required
	WLAN2.4GHz_Ant 2		0.93	0mm				
	WLAN2.4GHz_Ant 1	Bottom Face	0.76	0mm	175.0	0.88	0.00	Not required
	BT_Ant 2		0.12	0mm				
	WLAN5GHz_Ant 1	Bottom Face	0.58	0mm	175.0	1.29	0.01	Not required
	WLAN5GHz+BT_Ant 2		0.71	0mm				
	WLAN6GHz_Ant 1	Bottom Face	0.3	0mm	175.0	1.34	0.01	Not required
	WLAN6GHz+BT_Ant 2		1.04	0mm				

Test Engineer : Randy Lin, Sing Lim, Henry Chou and Kevin Guo

15. 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.

16. 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 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.