

## 11.4 NR Maximum Output Power

### 11.4.1 NR Band Maximum Conducted Power

[NR FDD Band n5 Conducted Power\_  $P_{max}$ ; Free (RSI 0), RCV (RSI 1), Hotspot (RSI 2)\_ Main 1]

NR FDD Band n5\_ 5 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						165300	167300	169300	
						826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	24.59	24.54	24.32	0
				1	13	24.54	24.43	24.22	0
				1	23	24.65	24.46	24.29	0
				12	0	24.13	24.05	23.84	0.5
				12	7	24.63	24.52	24.34	0
				12	13	24.18	24.02	23.85	0.5
			25	0	24.13	24.03	23.88	0.5	
			QPSK	1	1	24.69	24.59	24.38	0
				1	13	24.56	24.45	24.30	0
				1	23	24.71	24.52	24.35	0
				12	0	23.64	23.61	23.42	1
				12	7	24.69	24.52	24.38	0
				12	13	23.67	23.52	23.38	1
			25	0	23.66	23.57	23.37	1	
			16QAM	1	1	23.65	23.63	23.37	1
			64QAM	1	1	22.28	22.14	21.91	2.5
256QAM	1	1	20.17	20.09	19.89	4.5			
CP	QPSK	1	1	23.11	23.12	22.87	1.5		

NR FDD Band n5\_ 10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
10 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	24.58		0	
				1	26	24.63		0	
				1	50	24.47		0	
				25	0	24.11		0.5	
				25	14	24.53		0	
				25	27	24.00		0.5	
			50	0	24.07		0.5		
			QPSK	1	1	24.64		0	
				1	26	24.59		0	
				1	50	24.49		0	
				25	0	23.65		1	
				25	14	24.53		0	
				25	27	23.52		1	
			50	0	23.54		1		
			16QAM	1	1	23.56		1	
			64QAM	1	1	22.42		2.5	
256QAM	1	1	20.10		4.5				
CP	QPSK	1	1	23.07		1.5			

## NR FDD Band n5\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
15 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1		24.57		0
				1	40		24.41		0
				1	77		24.37		0
				36	0		24.11		0.5
				36	22		24.56		0
				36	43		23.98		0.5
				75	0		24.05		0.5
			QPSK	1	1		24.60		0
				1	40		24.49		0
				1	77		24.47		0
				36	0		23.63		1
				36	22		24.57		0
				36	43		23.52		1
				75	0		23.57		1
		16QAM	1	1		23.65		1	
64QAM	1	1		22.21		2.5			
256QAM	1	1		19.99		4.5			
CP	QPSK	1	1		23.14		1.5		

## NR FDD Band n5\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
20 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1		24.59		0
				1	53		24.70		0
				1	104		24.35		0
				50	0		24.12		0.5
				50	28		24.56		0
				50	56		23.99		0.5
				100	0		24.03		0.5
			QPSK	1	1		24.60		0
				1	53		<b>24.64</b>		0
				1	104		24.38		0
				50	0		23.66		1
				50	28		<b>24.58</b>		0
				50	56		23.53		1
				100	0		23.59		1
			16QAM	1	1		23.79		1
			64QAM	1	1		22.23		2.5
		256QAM	1	1		20.19		4.5	
CP	QPSK	1	1		23.10		1.5		

[NR TDD Band n41 Conducted Power\_  $P_{max}$  Main 2]

## NR TDD Band n41\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						500202	509400	518598	527802	537000		
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz		
10 MHz	30	DFT-s	pi/2 BPSK	1	1	22.99	23.01	23.18	22.85	22.89	0	
				1	12	22.94	23.06	23.17	22.82	22.85	0	
				1	22	22.99	23.13	23.26	22.84	22.87	0	
				12	0	22.43	22.50	22.65	22.68	22.34	0.5	
				12	6	22.94	23.29	23.19	22.84	22.94	0	
				12	12	22.48	22.58	22.71	22.42	22.44	0.5	
			QPSK	1	1	22.97	22.97	23.16	22.86	22.86	0	
				1	12	22.97	23.01	23.14	22.79	22.81	0	
				1	22	22.97	23.07	23.23	22.79	22.82	0	
				12	0	21.94	22.02	22.16	21.49	21.86	1	
				12	6	22.95	23.05	23.17	22.84	22.83	0	
				12	12	21.95	22.08	22.22	21.52	21.47	1	
			16QAM	24	0	21.93	22.05	22.19	21.82	21.84	1	
				16QAM	1	1	21.97	22.03	22.19	21.84	21.96	1
				64QAM	1	1	20.53	20.49	20.60	20.39	20.41	2.5
			256QAM	1	1	18.41	18.47	18.58	18.32	18.27	4.5	
		CP	QPSK	1	1	21.48	21.49	21.70	21.37	21.39	1.5	

## NR TDD Band n41\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	23.23	23.06	23.21	22.91	22.49	0
				1	18	22.98	23.11	23.19	22.82	22.59	0
				1	36	23.11	23.28	23.29	22.85	22.65	0
				18	0	22.51	22.61	22.71	22.38	22.15	0.5
				18	9	22.78	23.14	23.23	22.87	22.64	0
				18	18	22.56	22.68	22.77	22.34	22.14	0.5
			QPSK	36	0	22.58	22.65	22.73	22.37	22.14	0.5
				1	1	22.92	23.07	23.21	22.88	22.62	0
				1	18	22.99	23.09	23.18	22.81	22.61	0
				1	36	23.09	23.24	23.29	22.84	22.61	0
				18	0	22.02	22.09	22.22	21.90	21.64	1
				18	9	23.03	23.14	23.23	22.87	22.64	0
			16QAM	18	18	22.07	22.18	22.29	21.85	21.63	1
				36	0	22.03	22.14	22.24	21.87	21.66	1
				16QAM	1	1	22.06	22.11	22.18	21.82	21.66
			64QAM	1	1	20.53	20.58	20.67	20.48	20.14	2.5
		256QAM	1	1	18.50	18.43	18.65	18.39	18.05	4.5	
CP	QPSK	1	1	21.57	21.60	21.71	21.40	21.35	1.5		

## NR TDD Band n41\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	23.34	23.32	23.32	22.83	22.91	0
				1	26	23.38	23.36	23.25	22.75	23.00	0
				1	49	23.44	23.42	23.21	22.74	23.03	0
				25	0	22.86	22.83	22.79	22.31	22.48	0.5
				25	13	23.40	23.38	23.25	22.78	23.02	0
				25	26	22.95	22.91	22.78	22.27	22.54	0.5
			50	0	22.89	22.88	22.76	22.29	22.53	0.5	
			QPSK	1	1	23.36	23.32	23.26	22.79	22.88	0
				1	26	23.38	23.35	23.20	22.73	22.95	0
				1	49	23.42	23.42	23.20	22.72	22.99	0
				25	0	22.36	22.37	22.26	21.83	21.98	1
				25	13	23.39	23.38	23.26	22.79	23.03	0
				25	26	22.45	22.42	22.26	21.77	22.05	1
			50	0	22.39	22.40	22.26	21.80	22.02	1	
			16QAM	1	1	22.25	22.40	22.48	21.87	21.93	1
64QAM	1	1	20.89	20.89	20.74	20.48	20.44	2.5			
256QAM	1	1	18.88	18.84	18.86	18.39	18.39	4.5			
CP	QPSK	1	1	21.85	21.89	21.85	21.44	21.47	1.5		

## NR TDD Band n41\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	23.43	23.35	23.33	23.03	22.94	0
				1	39	23.48	23.37	23.21	22.91	23.04	0
				1	76	23.46	23.49	23.18	22.87	23.10	0
				36	0	22.99	22.90	22.82	22.51	22.54	0.5
				36	21	23.55	23.43	23.27	22.95	23.07	0
				36	42	23.04	23.03	22.76	22.38	22.62	0.5
			75	0	23.04	22.93	22.80	22.45	22.56	0.5	
			QPSK	1	1	23.43	23.32	23.31	23.05	22.94	0
				1	39	23.48	23.43	23.17	22.91	23.04	0
				1	76	23.43	23.53	23.12	22.86	23.09	0
				36	0	22.50	22.41	22.33	22.03	22.03	1
				36	21	23.54	23.45	23.27	22.96	23.09	0
				36	42	22.55	22.50	22.27	21.90	22.11	1
			75	0	22.54	22.44	22.28	21.95	22.07	1	
			16QAM	1	1	22.56	22.34	22.43	22.14	22.01	1
64QAM	1	1	21.23	20.91	20.98	20.65	20.55	2.5			
256QAM	1	1	18.97	19.03	18.77	18.58	18.53	4.5			
CP	QPSK	1	1	21.94	21.94	21.98	21.59	21.51	1.5		

## NR TDD Band n41\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						503202	513468		523734		534000
						2516.01 MHz	2567.34 MHz		2618.67 MHz		2670 MHz
40 MHz	30	DFT-s	pi/2 BPSK	1	1	23.31	23.28		23.13	22.80	0
				1	53	23.44	23.37		22.96	22.94	0
				1	104	23.29	23.22		22.80	23.04	0
				50	0	22.90	22.88		22.60	22.39	0.5
				50	28	23.46	23.44		22.99	22.95	0
				50	56	22.91	22.82		22.39	22.50	0.5
			QPSK	1	1	23.37	23.26		23.13	22.88	0
				1	53	23.47	23.34		22.95	22.97	0
				1	104	23.35	23.18		22.80	23.11	0
				50	0	22.40	22.40		22.12	21.90	1
				50	28	23.46	23.44		23.00	22.97	0
				50	56	22.43	22.32		21.90	22.02	1
			16QAM	1	1	22.23	22.22		22.08	22.00	1
			64QAM	1	1	20.89	20.80		20.89	20.26	2.5
			256QAM	1	1	18.99	18.89		18.72	18.02	4.5
			CP	QPSK	1	1	21.89	21.82		21.67	21.30

## NR TDD Band n41\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]		
						504204		518598			532998	
						2521.02 MHz		2592.99 MHz			2664.99 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	23.44		23.45		22.87	0	
				1	67	23.49		23.25		22.99	0	
				1	131	23.37		23.03		23.03	0	
				64	0	23.01		22.85		22.45	0.5	
				64	35	23.53		23.26		23.04	0	
				64	69	22.92		22.71		22.58	0.5	
			QPSK	128	0	22.99		22.78		22.55	0.5	
				1	1	23.50		23.43		22.86	0	
				1	67	23.54		23.21		23.03	0	
				1	131	23.37		23.02		23.07	0	
				64	0	22.54		22.36		21.94	1	
				64	35	23.54		23.29		23.06	0	
			16QAM	64	69	22.42		22.21		22.12	1	
				128	0	22.53		22.28		22.04	1	
				16QAM	1	1	22.47		22.44		21.80	1
				64QAM	1	1	21.18		20.97		20.68	2.5
256QAM	1	1	18.88		18.96		18.25	4.5				
CP	QPSK	1	1	21.86		22.04		21.38	1.5			

## NR TDD Band n41\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						505200		518598			531996
						2526 MHz		2592.99 MHz			2659.98 MHz
60 MHz	30	DFT-s	pi/2 BPSK	1	1	23.34		23.46		22.82	0
				1	81	23.34		23.19		22.82	0
				1	160	23.39		22.91		23.00	0
				81	0	22.95		22.85		22.31	0.5
				81	41	23.41		23.28		22.90	0
				81	81	22.82		22.70		22.46	0.5
			162	0	22.88		22.76		22.41	0.5	
			QPSK	1	1	23.36		23.43		22.80	0
				1	81	23.38		23.17		22.86	0
				1	160	23.35		22.89		22.99	0
				81	0	22.42		22.37		21.82	1
				81	41	23.41		23.30		22.92	0
				81	81	22.33		22.20		21.96	1
			162	0	22.38		22.28		21.90	1	
		16QAM	1	1	22.46		22.66		21.88	1	
		64QAM	1	1	21.04		20.93		20.52	2.5	
		256QAM	1	1	18.84		18.81		18.33	4.5	
CP	QPSK	1	1	21.96		21.97		21.45	1.5		

## NR TDD Band n41\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						506208					530994
						2531.04 MHz					2654.97 MHz
70 MHz	30	DFT-s	pi/2 BPSK	1	1	22.89				22.80	0
				1	81	23.07				22.81	0
				1	160	23.22				22.86	0
				81	0	22.73				22.29	0.5
				81	41	23.07				22.81	0
				81	81	22.23				22.36	0.5
			162	0	22.54				22.28	0.5	
			QPSK	1	1	22.87				22.82	0
				1	81	23.12				22.82	0
				1	160	23.26				22.90	0
				81	0	21.47				22.02	1
				81	41	23.08				22.80	0
				81	81	22.07				21.87	1
			162	0	22.05				21.79	1	
		16QAM	1	1	21.95				21.95	1	
		64QAM	1	1	20.48				20.35	2.5	
		256QAM	1	1	18.34				18.27	4.5	
CP	QPSK	1	1	21.36				21.31	1.5		

## NR TDD Band n41\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						507204			529998		
						2536.02 MHz			2649.99 MHz		
80 MHz	30	DFT-s	pi/2 BPSK	1	1	23.36				23.05	0
				1	109	23.26				22.77	0
				1	215	23.32				22.99	0
				108	0	22.90				22.41	0.5
				108	55	23.27				22.85	0
				108	109	22.86				22.44	0.5
				216	0	22.72				22.36	0.5
			QPSK	1	1	23.44				23.10	0
				1	109	23.29				22.84	0
				1	215	23.40				23.06	0
				108	0	22.43				21.93	1
				108	55	23.28				22.86	0
				108	109	22.36				21.95	1
				216	0	22.24				21.87	1
		16QAM	1	1	22.48				21.98	1	
		64QAM	1	1	20.98				20.65	2.5	
		256QAM	1	1	19.01				18.57	4.5	
CP	QPSK	1	1	21.89				21.58	1.5		

## NR TDD Band n41\_90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						508200			528996		
						2541 MHz			2644.98 MHz		
90 MHz	30	DFT-s	pi/2 BPSK	1	1	23.40				23.19	0
				1	123	23.32				22.87	0
				1	243	23.24				22.94	0
				120	0	22.97				22.55	0.5
				120	63	23.33				22.89	0
				120	125	22.90				22.43	0.5
				243	0	22.76				22.42	0.5
			QPSK	1	1	23.49				23.17	0
				1	123	23.40				22.91	0
				1	243	23.29				22.99	0
				120	0	22.47				22.09	1
				120	63	23.36				22.92	0
				120	125	22.40				21.94	1
				243	0	22.26				21.93	1
		16QAM	1	1	22.62				22.28	1	
		64QAM	1	1	21.10				20.85	2.5	
		256QAM	1	1	18.88				18.79	4.5	
CP	QPSK	1	1	21.87				21.68	1.5		

## NR TDD Band n41\_100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
								518598			
								2592.99			
								MHz			
100 MHz	30	DFT-s	pi/2 BPSK	1	1			23.32			0
				1	137			23.22			0
				1	271			22.68			0
				135	0			22.93			0.5
				135	69			23.25			0
				135	138			22.49			0.5
				270	0			22.74			0.5
			QPSK	1	1			23.33			0
				1	137			23.28			0
				1	271			22.73			0
				135	0			22.44			1
				135	69			23.26			0
				135	138			22.02			1
				270	0			22.24			1
		16QAM	1	1			22.23			1	
		64QAM	1	1			20.93			2.5	
		256QAM	1	1			18.76			4.5	
CP	QPSK	1	1			21.78			1.5		



## [NR FDD Band n66 Conducted Power \_ Pmax, RCV (RSI 1) Main 2]

## NR FDD Band n66\_5 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]	
						342500	349000	355500		
						1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	23.90	23.83	23.45	0	
				1	13	23.83	23.73	23.41	0	
				1	23	23.91	23.77	23.46	0	
				12	0	23.41	23.34	23.01	0.5	
				12	7	23.93	23.84	23.49	0	
				12	13	23.42	23.33	23.03	0.5	
			QPSK	25	0	23.43	23.37	23.06	0.5	
				1	1	23.93	23.94	23.57	0	
				1	13	23.85	23.80	23.49	0	
				1	23	23.93	23.83	23.59	0	
				12	0	22.95	22.91	22.58	1	
				12	7	23.93	23.87	23.54	0	
			16QAM	12	13	22.94	22.85	22.57	1	
				25	0	22.98	22.86	22.56	1	
				16QAM	1	1	23.03	22.96	22.60	1
				64QAM	1	1	21.30	21.46	21.00	2.5
256QAM	1	1	19.33	19.31	18.99	4.5				
CP	QPSK	1	1	22.39	22.40	22.00	1.5			

## NR FDD Band n66\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]	
						343000	349000	355000		
						1715 MHz	1745 MHz	1775 MHz		
10 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	23.90	23.92	23.51	0	
				1	26	23.93	23.88	23.49	0	
				1	50	23.90	23.76	23.54	0	
				25	0	23.40	23.39	23.02	0.5	
				25	14	23.92	23.83	23.53	0	
				25	27	23.44	23.30	23.06	0.5	
			QPSK	50	0	23.44	23.36	23.07	0.5	
				1	1	23.94	24.01	23.58	0	
				1	26	23.98	23.96	23.62	0	
				1	50	23.70	23.81	23.63	0	
				25	0	23.00	22.95	22.54	1	
				25	14	23.98	23.89	23.57	0	
			16QAM	25	27	22.97	22.81	22.60	1	
				50	0	22.97	22.94	22.58	1	
				16QAM	1	1	23.12	23.10	22.63	1
				64QAM	1	1	21.58	21.51	21.12	2.5
256QAM	1	1	19.45	19.54	18.91	4.5				
CP	QPSK	1	1	22.38	22.43	22.08	1.5			

## NR FDD Band n66 \_ 15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
15 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	23.88	23.45	23.52	0
				1	40	23.87	23.77	23.41	0
				1	77	23.51	23.70	23.46	0
				36	0	23.45	23.44	23.07	0.5
				36	22	23.95	23.86	23.52	0
				36	43	23.50	23.28	23.07	0.5
				75	0	23.49	23.39	23.06	0.5
			QPSK	1	1	24.00	23.36	23.63	0
				1	40	23.91	23.89	23.49	0
				1	77	23.32	23.82	23.31	0
				36	0	23.01	23.01	22.60	1
				36	22	23.99	23.91	23.57	0
				36	43	22.99	22.81	22.62	1
				75	0	23.00	22.95	22.59	1
		16QAM	1	1	23.01	22.51	22.52	1	
		64QAM	1	1	21.39	21.06	21.04	2.5	
256QAM	1	1	19.44	19.24	19.05	4.5			
CP	QPSK	1	1	22.43	22.08	22.07	1.5		

## NR FDD Band n66 \_ 20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						344000	349000	354000	
						1720 MHz	1745 MHz	1770 MHz	
20 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	23.88	23.43	23.53	0
				1	53	23.92	23.87	23.58	0
				1	104	23.59	23.72	23.55	0
				50	0	23.43	23.52	23.07	0.5
				50	28	23.95	23.90	23.60	0
				50	56	23.58	23.32	23.05	0.5
				100	0	23.50	23.43	23.12	0.5
			QPSK	1	1	23.99	23.25	23.55	0
				1	53	23.97	23.99	23.58	0
				1	104	23.46	23.78	23.35	0
				50	0	22.98	23.10	22.60	1
				50	28	23.95	23.97	23.60	0
				50	56	23.07	22.88	22.60	1
				100	0	22.99	22.96	22.60	1
		16QAM	1	1	23.09	22.37	22.67	1	
		64QAM	1	1	21.40	20.91	21.13	2.5	
256QAM	1	1	19.41	19.24	19.07	4.5			
CP	QPSK	1	1	22.46	22.13	22.05	1.5		

**[NR TDD Band n77 Power Class 3 Conducted Power \_ Pmax\_Sub 3]**
**NR TDD Band n77\_ 10 MHz Bandwidth Conducted Power**

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	23.90	24.37	24.27	23.99	24.60	24.36	0
				1	12	24.01	24.45	24.31	24.07	24.61	24.41	0
				1	22	24.00	24.51	24.29	24.06	24.59	24.36	0
				12	0	23.45	23.89	23.78	23.51	24.09	23.85	0.5
				12	6	23.97	24.45	24.29	24.02	24.60	24.37	0
				12	12	23.49	24.00	23.79	23.54	24.10	23.86	0.5
				24	0	23.47	23.94	23.78	23.51	24.12	23.86	0.5
			QPSK	1	1	24.01	24.42	24.39	24.04	24.72	24.48	0
				1	12	24.05	24.52	24.41	24.16	24.77	24.43	0
				1	22	24.04	24.49	24.36	24.13	24.71	24.39	0
				12	0	22.94	23.41	23.27	23.00	23.63	23.38	1
				12	6	23.97	24.46	24.31	24.02	24.62	24.34	0
				12	12	22.98	23.51	23.30	23.04	23.62	23.37	1
				24	0	22.97	23.46	23.30	23.02	23.61	23.36	1
		16QAM	1	1	23.13	23.46	23.21	22.98	23.47	23.30	1	
		64QAM	1	1	21.42	21.85	21.77	21.54	21.97	21.88	2.5	
		256QAM	1	1	19.44	19.76	19.80	19.38	20.19	19.73	4.5	
CP	QPSK	1	1	22.39	22.82	22.73	22.45	23.08	22.82	1.5		

**NR TDD Band n77\_ 15 MHz Bandwidth Conducted Power**

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	23.87	24.29	24.28	23.93	24.54	24.20	0
				1	18	23.88	24.37	24.21	23.94	24.53	24.19	0
				1	36	24.01	24.53	24.30	24.07	24.61	24.26	0
				18	0	23.42	23.86	23.78	23.48	24.08	23.74	0.5
				18	9	23.94	24.45	24.27	24.00	24.60	24.25	0
				18	18	23.45	23.98	23.78	23.53	24.11	23.74	0.5
				36	0	23.45	23.94	23.78	23.51	24.12	23.74	0.5
			QPSK	1	1	23.97	24.42	24.40	23.99	24.61	24.30	0
				1	18	23.99	24.47	24.24	24.02	24.67	24.29	0
				1	36	24.05	24.56	24.31	24.15	24.69	24.30	0
				18	0	22.93	23.40	23.26	23.00	23.60	23.24	1
				18	9	23.94	24.46	24.29	24.04	24.63	24.26	0
				18	18	22.98	23.49	23.29	23.05	23.61	23.26	1
				36	0	22.95	23.44	23.29	23.02	23.63	23.24	1
		16QAM	1	1	22.92	23.36	23.28	23.03	23.52	23.15	1	
		64QAM	1	1	21.32	21.81	21.87	21.43	22.11	21.82	2.5	
		256QAM	1	1	19.28	19.79	19.76	19.44	19.87	19.72	4.5	
CP	QPSK	1	1	22.41	22.75	22.70	22.42	23.05	22.69	1.5		

## NR TDD Band n77\_ 20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]	
						647334	650800	654266	657734	661200	664666		
						3710.01	3762	3813.99	3866.01	3918	3969.99		
						MHz	MHz	MHz	MHz	MHz	MHz		
20 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.87	24.28	24.29	23.97	24.56	24.25	0	
				1	26	23.95	24.47	24.25	24.00	24.62	24.27	0	
				1	49	24.01	24.58	24.30	24.12	24.66	24.29	0	
				25	0	23.44	23.90	23.79	23.49	24.14	23.79	0.5	
				25	13	23.96	24.48	24.30	24.05	24.65	24.31	0	
				25	26	23.51	24.02	23.82	23.59	24.17	23.82	0.5	
			QPSK	50	0	23.48	23.99	23.82	23.54	24.17	23.82	0.5	
				1	1	24.00	24.38	24.42	24.06	24.64	24.33	0	
				1	26	24.04	24.57	24.32	24.07	24.67	24.32	0	
				1	49	24.07	24.66	24.28	24.11	24.75	24.33	0	
				25	0	22.96	23.43	23.31	23.02	23.63	23.29	1	
				25	13	24.00	24.51	24.34	24.06	24.67	24.30	0	
			16QAM	25	26	23.03	23.54	23.33	23.09	23.68	23.32	1	
				50	0	23.00	23.49	23.30	23.06	23.67	23.33	1	
				1	1	22.87	23.34	23.43	23.05	23.61	23.27	1	
			64QAM	1	1	21.40	21.88	21.68	21.59	22.02	21.79	2.5	
1	1	19.23		19.74	19.70	19.51	20.00	19.74	4.5				
CP	QPSK	1	1	22.38	22.74	22.82	22.42	23.07	22.72	1.5			

## NR TDD Band n77\_ 25 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]	
						647500	650900	654300	657700	661100	664500		
						3712.5	3763.5	3814.5	3865.5	3916.5	3967.5		
						MHz	MHz	MHz	MHz	MHz	MHz		
25 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.89	24.30	24.36	23.99	24.52	24.26	0	
				1	32	23.98	24.51	24.30	24.05	24.64	24.31	0	
				1	63	24.06	24.55	24.30	24.14	24.66	24.33	0	
				32	0	23.46	23.92	23.82	23.51	24.13	23.81	0.5	
				32	17	24.02	24.52	24.32	24.03	24.67	24.35	0	
				32	33	23.54	24.07	23.83	23.61	24.21	23.86	0.5	
			QPSK	64	0	23.52	24.00	23.83	23.56	24.17	23.85	0.5	
				1	1	24.01	24.36	24.47	24.05	24.60	24.34	0	
				1	32	24.05	24.53	24.36	24.10	24.73	24.39	0	
				1	63	24.11	24.63	24.34	24.19	24.72	24.45	0	
				32	0	22.97	23.41	23.32	23.02	23.65	23.32	1	
				32	17	24.02	24.53	24.32	24.08	24.72	24.37	0	
			16QAM	32	33	23.06	23.60	23.33	23.11	23.67	23.36	1	
				64	0	23.02	23.52	23.32	23.08	23.67	23.35	1	
				1	1	22.98	23.37	23.52	23.03	23.72	23.49	1	
			64QAM	1	1	21.43	21.76	21.96	21.58	21.92	21.96	2.5	
1	1	19.33		19.60	19.84	19.44	20.08	19.65	4.5				
CP	QPSK	1	1	22.41	22.80	22.88	22.46	23.00	22.75	1.5			

## NR TDD Band n77\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	23.94	24.32	24.42	23.97	24.48	24.25	0
				1	39	24.04	24.56	24.41	24.06	24.73	24.33	0
				1	76	24.12	24.59	24.30	24.14	24.72	24.34	0
				36	0	23.52	23.97	23.89	23.51	24.11	23.79	0.5
				36	21	24.07	24.60	24.34	24.03	24.72	24.30	0
				36	42	23.60	24.11	23.85	23.60	24.25	23.86	0.5
			QPSK	75	0	23.57	24.08	23.87	23.54	24.23	23.81	0.5
				1	1	24.04	24.39	24.50	24.07	24.57	24.33	0
				1	39	24.17	24.67	24.43	24.14	24.77	24.36	0
				1	76	24.22	24.68	24.36	24.19	24.74	24.40	0
				36	0	23.03	23.50	23.39	23.02	23.62	23.30	1
				36	21	24.09	24.59	24.39	24.08	24.73	24.33	0
			16QAM	36	42	23.13	23.62	23.39	23.12	23.76	23.35	1
				75	0	23.07	23.58	23.37	23.03	23.73	23.31	1
				1	1	23.00	23.33	23.61	23.07	23.66	23.15	1
				1	1	21.49	21.83	21.81	21.48	22.02	21.76	2.5
256QAM	1	1	19.33	19.72	19.78	19.55	19.95	19.74	4.5			
	CP	QPSK	1	1	22.44	22.81	22.87	22.48	22.96	22.70	1.5	

## NR TDD Band n77\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.99	24.26	24.44	24.00	24.26	24.36	0
				1	53	24.12	24.58	24.36	24.03	24.70	24.38	0
				1	104	24.21	24.54	24.24	24.19	24.71	24.45	0
				50	0	23.55	23.98	23.90	23.52	23.98	23.86	0.5
				50	28	24.13	24.61	24.37	24.05	24.67	24.37	0
				50	56	23.68	24.09	23.84	23.63	24.21	23.96	0.5
			QPSK	100	0	23.62	24.08	23.89	23.57	24.20	23.89	0.5
				1	1	24.04	24.38	24.51	24.15	24.31	24.37	0
				1	53	24.09	24.75	24.47	24.17	24.74	24.37	0
				1	104	24.21	24.61	24.23	24.26	24.76	24.46	0
				50	0	23.06	23.48	23.42	23.04	23.50	23.37	1
				50	28	24.13	24.60	24.40	24.05	24.70	24.40	0
			16QAM	50	56	23.19	23.60	23.34	23.14	23.73	23.46	1
				100	0	23.12	23.60	23.37	23.07	23.67	23.40	1
				1	1	22.95	23.21	23.36	22.90	23.26	23.45	1
				1	1	21.48	21.78	21.93	21.49	21.85	21.89	2.5
256QAM	1	1	19.45	19.70	19.87	19.40	19.60	19.82	4.5			
	CP	QPSK	1	1	22.49	22.72	22.89	22.52	22.71	22.84	1.5	

## NR TDD Band n77\_ 50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]		
						648334	652166	656000		659834		663666	
						3725.01	3782.49	3840		3897.51		3954.99	
						MHz	MHz	MHz		MHz	MHz		
50 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.06	24.51	24.46		24.20	24.53	0	
				1	67	24.21	24.54	24.14		24.52	24.33	0	
				1	131	24.45	24.50	24.14		24.91	24.47	0	
				64	0	23.62	24.11	23.87		23.80	23.90	0.5	
				64	35	24.20	24.57	24.16		24.56	24.35	0	
				64	69	23.78	24.02	23.59		24.34	23.94	0.5	
			QPSK	128	0	23.72	24.06	23.70		24.06	23.86	0.5	
				1	1	24.17	24.56	24.48		24.32	24.61	0	
				1	67	24.27	24.61	24.10		24.59	24.33	0	
				1	131	24.44	24.57	24.12		24.98	24.46	0	
				64	0	23.18	23.62	23.40		23.32	23.41	1	
				64	35	24.21	24.58	24.18		24.58	24.37	0	
				64	69	23.30	23.50	23.08		23.82	23.42	1	
				128	0	23.22	23.57	23.19		23.56	23.35	1	
				16QAM	1	1	23.10	23.51	23.52		23.28	23.58	1
				64QAM	1	1	21.58	21.95	22.03		21.76	21.97	2.5
				256QAM	1	1	19.56	20.04	19.87		19.59	19.92	4.5
CP	QPSK	1	1	22.60	22.94	22.91		22.71	23.04	1.5			

## NR TDD Band n77\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]		
						648668	653556			658444		663332	
						3730.02	3803.34			3876.66		3949.98	
						MHz	MHz			MHz	MHz		
60 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.13	24.64			24.12	24.68	0	
				1	81	24.26	24.50			24.25	24.45	0	
				1	160	24.64	24.39			24.74	24.52	0	
				81	0	23.69	24.04			23.64	24.08	0.5	
				81	41	24.29	24.51			24.24	24.43	0	
				81	81	23.88	23.99			23.95	23.99	0.5	
			QPSK	162	0	23.79	24.01			23.77	23.95	0.5	
				1	1	24.24	24.78			24.22	24.77	0	
				1	81	24.39	24.57			24.27	24.46	0	
				1	160	24.75	24.46			24.78	24.6	0	
				81	0	23.24	23.55			23.15	23.56	1	
				81	41	24.33	24.51			24.25	24.44	0	
				81	81	23.41	23.48			23.44	23.48	1	
				162	0	23.32	23.50			23.26	23.44	1	
				16QAM	1	1	23.19	23.83			23.08	23.76	1
				64QAM	1	1	21.65	22.33			21.70	22.21	2.5
				256QAM	1	1	19.61	20.00			19.61	20.05	4.5
CP	QPSK	1	1	22.57	23.12			22.56	23.17	1.5			

## NR TDD Band n77\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						649000	654336			658334		663000
						3750 MHz	3804.99 MHz			3875.01 MHz		3945 MHz
70 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.21	24.76			24.28	24.80	0
				1	95	24.29	24.46			24.23	24.56	0
				1	187	24.88	24.32			24.91	24.70	0
				90	0	23.79	24.12			23.73	24.32	0.5
				90	50	24.38	24.54			24.32	24.63	0
				90	99	24.12	23.99			24.06	24.14	0.5
			180	0	23.87	24.09			23.83	24.16	0.5	
			QPSK	1	1	24.24	24.81			24.37	24.89	0
				1	95	24.28	24.60			24.38	24.68	0
				1	187	24.87	24.39			24.94	24.75	0
				90	0	23.31	23.64			23.22	23.82	1
				90	50	24.40	24.57			24.34	24.65	0
				90	99	23.62	23.52			23.58	23.67	1
			180	0	23.38	23.60			23.32	23.66	1	
			16QAM	1	1	23.30	23.76			23.32	23.96	1
		64QAM	1	1	21.72	22.35			21.89	22.22	2.5	
256QAM	1	1	19.75	20.27			19.71	20.22	4.5			
CP	QPSK	1	1	22.68	23.21			22.81	23.32	1.5		

## NR TDD Band n77\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						649334		656000		662666		
						3740.01 MHz		3840 MHz		3939.99 MHz		
80 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.25		24.73		24.62		0
				1	109	24.28		24.21		24.52		0
				1	215	24.85		24.39		24.64		0
				108	0	23.76		24.07		24.29		0.5
				108	55	24.36		24.28		24.60		0
				108	109	24.22		23.70		24.04		0.5
			216	0	23.87		23.81		24.11		0.5	
			QPSK	1	1	24.32		24.76		24.73		0
				1	109	24.34		24.16		24.59		0
				1	215	24.94		24.38		24.71		0
				108	0	23.32		23.58		23.82		1
				108	55	24.37		24.28		24.63		0
				108	109	23.71		23.22		23.56		1
			216	0	23.37		23.33		23.60		1	
			16QAM	1	1	23.33		23.73		23.72		1
		64QAM	1	1	21.79		22.36		22.09		2.5	
256QAM	1	1	19.72		20.19		20.09		4.5			
CP	QPSK	1	1	22.72		23.21		23.11		1.5		

## NR TDD Band n77\_ 90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						649668		656000		662332		
						3745.02		3840		3934.98		
						MHz		MHz		MHz		
90 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.29		24.80		24.44		0
				1	123	24.34		24.16		24.54		0
				1	243	24.83		24.54		24.71		0
				120	0	23.75		24.07		24.23		0.5
				120	63	24.40		24.27		24.63		0
				120	125	24.27		23.73		24.02		0.5
			243	0	23.92		23.79		24.15		0.5	
			QPSK	1	1	24.28		24.88		24.49		0
				1	123	24.33		24.25		24.57		0
				1	243	24.82		24.62		24.71		0
				120	0	23.30		23.60		23.72		1
				120	63	24.42		24.29		24.65		0
				120	125	23.80		23.23		23.53		1
			243	0	23.45		23.34		23.65		1	
			16QAM	1	1	23.52		24.04		23.67		1
			64QAM	1	1	21.92		22.35		21.87		2.5
			256QAM	1	1	19.86		20.23		20.00		4.5
CP	QPSK	1	1	22.82		23.31		22.89		1.5		

## NR TDD Band n77\_ 100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						650000				662000		
						3750				3930		
						MHz		MHz				
100 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.31				24.35		0
				1	137	24.37				24.59		0
				1	271	24.94				24.83		0
				135	0	23.78				24.14		0.5
				135	69	24.46				24.71		0
				135	138	24.26				24.04		0.5
			270	0	23.99				24.23		0.5	
			QPSK	1	1	24.39				24.50		0
				1	137	24.42				24.74		0
				1	271	24.09				24.97		0
				135	0	23.28				23.66		1
				135	69	24.46				24.72		0
				135	138	23.78				23.57		1
			270	0	23.49				23.74		1	
			16QAM	1	1	23.46				23.34		1
			64QAM	1	1	21.76				21.97		2.5
			256QAM	1	1	19.68				19.85		4.5
CP	QPSK	1	1	22.87				22.87		1.5		



## [NR TDD Band n77 DoD Power Class 3 Conducted Power\_ Pmax\_Sub 3]

## NR TDD Band n77 DoD\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630334	633334	636332	
						3445.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	23.94	23.93	24.37	0
				1	12	23.91	24.01	24.43	0
				1	22	23.79	24.06	24.38	0
				12	0	23.43	23.44	23.88	0.5
				12	6	23.89	24.02	24.40	0
				12	12	23.36	23.54	23.87	0.5
				24	0	23.40	23.51	23.90	0.5
			QPSK	1	1	24.07	23.88	24.50	0
				1	12	23.96	24.05	24.56	0
				1	22	23.86	24.03	24.47	0
				12	0	22.98	22.97	23.39	1
				12	6	23.91	24.01	24.39	0
			16QAM	12	12	22.87	23.05	23.39	1
				24	0	22.92	23.00	23.38	1
				1	1	23.00	22.90	23.46	1
		64QAM	1	1	21.43	21.54	21.95	2.5	
		256QAM	1	1	19.56	19.25	19.92	4.5	
		CP	QPSK	1	1	22.41	22.35	22.90	1.5

## NR TDD Band n77 DoD\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630500	633334	636166	
						3457.5 MHz	3500.01 MHz	3542.49 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	23.95	23.87	24.41	0
				1	18	23.80	23.91	24.30	0
				1	36	23.74	24.08	24.37	0
				18	0	23.44	23.42	23.90	0.5
				18	9	23.86	23.99	24.35	0
				18	18	23.30	23.55	23.86	0.5
				36	0	23.38	23.48	23.88	0.5
			QPSK	1	1	24.07	23.93	24.54	0
				1	18	23.89	23.99	24.38	0
				1	36	23.78	24.19	24.39	0
				18	0	22.97	22.94	23.40	1
				18	9	23.89	23.99	24.37	0
			16QAM	18	18	22.82	23.05	23.36	1
				36	0	22.89	23.00	23.38	1
				1	1	23.28	22.82	23.27	1
		64QAM	1	1	21.58	21.43	21.89	2.5	
		256QAM	1	1	19.44	19.30	19.83	4.5	
		CP	QPSK	1	1	22.45	22.34	22.91	1.5

## NR TDD Band n77 DoD\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630668	633334	636000	
						3460.02 MHz	3500.01 MHz	3540 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	23.99	23.79	24.41	0
				1	26	23.81	23.99	24.32	0
				1	49	23.66	24.14	24.33	0
				25	0	23.42	23.39	23.92	0.5
				25	13	23.84	24.00	24.35	0
				25	26	23.23	23.56	23.83	0.5
			50	0	23.32	23.49	23.86	0.5	
			QPSK	1	1	24.02	23.91	24.51	0
				1	26	23.80	24.07	24.39	0
				1	49	23.65	24.13	24.40	0
				25	0	22.95	22.90	23.43	1
				25	13	23.83	24.03	24.36	0
				25	26	22.74	23.05	23.34	1
			50	0	22.83	22.99	23.35	1	
		16QAM	1	1	23.07	22.75	23.61	1	
		64QAM	1	1	21.53	21.21	22.04	2.5	
		256QAM	1	1	19.33	19.22	20.03	4.5	
CP	QPSK	1	1	22.48	22.23	22.93	1.5		

## NR TDD Band n77 DoD\_25 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630834	633334	635834	
						3462.51 MHz	3500.01 MHz	3537.51 MHz	
25 MHz	30	DFT-s	pi/2 BPSK	1	1	24.00	23.70	24.38	0
				1	26	23.76	24.15	24.28	0
				1	49	23.62	24.09	24.26	0
				25	0	23.41	23.32	23.86	0.5
				25	13	23.79	23.93	24.30	0
				25	26	23.19	23.52	23.77	0.5
			50	0	23.31	23.44	23.81	0.5	
			QPSK	1	1	24.10	23.71	24.48	0
				1	26	23.81	23.96	24.46	0
				1	49	23.65	24.13	24.36	0
				25	0	22.94	22.82	23.41	1
				25	13	23.71	23.95	24.32	0
				25	26	22.61	23.06	23.27	1
			50	0	22.73	22.94	23.31	1	
		16QAM	1	1	22.97	22.77	23.43	1	
		64QAM	1	1	21.46	21.18	21.94	2.5	
		256QAM	1	1	19.49	19.01	19.89	4.5	
CP	QPSK	1	1	22.42	22.14	22.86	1.5		

## NR TDD Band n77 DoD\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	23.98	23.70	24.41	0
				1	39	23.80	23.98	24.39	0
				1	76	23.54	24.15	24.27	0
				36	0	23.35	23.30	23.93	0.5
				36	21	23.70	23.98	24.37	0
				36	42	23.13	23.57	23.82	0.5
				75	0	23.25	23.46	23.89	0.5
			QPSK	1	1	23.99	23.77	24.45	0
				1	39	23.73	24.03	24.44	0
				1	76	23.55	24.24	24.34	0
				36	0	22.86	22.83	23.44	1
				36	21	23.72	23.95	24.39	0
				36	42	22.60	23.10	23.32	1
				75	0	22.72	22.96	23.39	1
			16QAM	1	1	23.13	22.71	23.46	1
			64QAM	1	1	21.59	21.33	21.82	2.5
			256QAM	1	1	19.52	19.11	19.74	4.5
CP	QPSK	1	1	22.46	22.22	22.89	1.5		

## NR TDD Band n77 DoD\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 MHz		3529.98 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	24.03		24.21	0
				1	53	23.02		24.40	0
				1	104	23.67		24.21	0
				50	0	23.33		23.85	0.5
				50	28	23.65		24.38	0
				50	56	23.10		23.76	0.5
				100	0	23.20		23.87	0.5
			QPSK	1	1	24.11		24.33	0
				1	53	23.81		24.51	0
				1	104	23.75		24.29	0
				50	0	22.86		23.36	1
				50	28	23.69		24.39	0
				50	56	22.60		23.26	1
				100	0	22.71		23.38	1
			16QAM	1	1	23.08		23.25	1
			64QAM	1	1	21.49		21.73	2.5
			256QAM	1	1	19.47		19.72	4.5
CP	QPSK	1	1	22.52		22.70	1.5		

## NR TDD Band n77 DoD\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 MHz		3525 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	23.98		24.10	0
				1	67	23.56		24.34	0
				1	131	23.89		24.26	0
				64	0	23.28		23.64	0.5
				64	35	23.59		24.26	0
				64	69	23.15		23.68	0.5
				128	0	23.12		23.79	0.5
			QPSK	1	1	24.11		24.06	0
				1	67	23.63		24.36	0
				1	131	23.91		24.24	0
				64	0	22.79		23.18	1
				64	35	23.63		24.30	0
				64	69	22.67		23.19	1
				128	0	22.61		23.30	1
		16QAM	1	1	23.04		23.06	1	
		64QAM	1	1	21.43		21.59	2.5	
		256QAM	1	1	19.49		19.54	4.5	
CP	QPSK	1	1	22.52		22.50	1.5		

## NR TDD Band n77 DoD\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
60 MHz	30	DFT-s	pi/2 BPSK	1	1	23.63		23.63	0
				1	81	23.93		23.93	0
				1	160	24.19		24.19	0
				81	0	23.12		23.12	0.5
				81	41	23.89		23.89	0
				81	81	23.61		23.61	0.5
				162	0	23.39		23.39	0.5
			QPSK	1	1	23.64		23.64	0
				1	81	23.87		23.87	0
				1	160	24.20		24.20	0
				81	0	22.66		22.66	1
				81	41	23.92		23.92	0
				81	81	23.13		23.13	1
				162	0	22.91		22.91	1
		16QAM	1	1	22.72		22.72	1	
		64QAM	1	1	21.09		21.09	2.5	
		256QAM	1	1	19.09		19.09	4.5	
CP	QPSK	1	1	22.13		22.13	1.5		

## NR TDD Band n77 DoD\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]	
							633334			
70 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	95				23.76	0
				1	187				23.88	0
				90	0				24.22	0
				90	50				23.13	0.5
				90	99				23.96	0
			QPSK	90	99				23.71	0.5
				180	0				23.43	0.5
				1	1				23.87	0
				1	95				23.98	0
				1	187				24.29	0
				90	0				22.67	1
			16QAM	90	50				23.98	0
				90	99				23.21	1
				180	0				22.93	1
				16QAM	1	1			23.04	1
			64QAM	1	1			21.28	2.5	
			256QAM	1	1			19.18	4.5	
CP	QPSK	1	1			22.31	1.5			

## NR TDD Band n77 DoD\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]	
							633334			
80 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	109				23.90	0
				1	215				23.84	0
				108	0				24.17	0
				108	55				23.09	0.5
				108	109				23.92	0
			QPSK	108	109				23.69	0.5
				216	0				23.43	0.5
				1	1				23.93	0
				1	109				23.86	0
				1	215				24.19	0
				108	0				22.63	1
			16QAM	108	55				23.94	0
				108	109				23.21	1
				216	0				22.93	1
				16QAM	1	1			23.18	1
			64QAM	1	1			21.42	2.5	
			256QAM	1	1			19.40	4.5	
CP	QPSK	1	1			22.39	1.5			

## NR TDD Band n77 DoD\_90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
90 MHz	30	DFT-s	pi/2 BPSK	1	1		24.16		0
				1	123		23.90		0
				1	243		24.28		0
				120	0		23.17		0.5
				120	63		23.96		0
				120	125		23.78		0.5
			243	0		23.46		0.5	
			QPSK	1	1		24.22		0
				1	123		24.00		0
				1	243		24.39		0
				120	0		22.69		1
				120	63		23.99		0
				120	125		23.27		1
			243	0		22.97		1	
			16QAM	1	1		23.12		1
			64QAM	1	1		21.58		2.5
			256QAM	1	1		19.52		4.5
			CP	QPSK	1	1		22.58	

## NR TDD Band n77 DoD\_100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
100MHz	30	DFT-s	pi/2 BPSK	1	1		24.33		0
				1	137		23.88		0
				1	271		24.35		0
				135	0		23.24		0.5
				135	69		23.97		0
				135	138		23.79		0.5
			270	0		23.48		0.5	
			QPSK	1	1		24.33		0
				1	137		23.91		0
				1	271		24.37		0
				135	0		22.74		1
				135	69		23.96		0
				135	138		23.30		1
			270	0		22.98		1	
			16QAM	1	1		23.45		1
			64QAM	1	1		21.79		2.5
			256QAM	1	1		19.69		4.5
			CP	QPSK	1	1		22.83	

**[NR TDD Band n77 Power Class 2 Conducted Power \_ Pmax\_Sub 3]**
**NR TDD Band n77\_ 10 MHz Bandwidth Conducted Power**

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	24.53	25.19	24.79	24.95	25.32	24.99	0
				1	12	24.61	25.21	24.67	24.87	25.28	24.95	0
				1	22	25.34	25.27	24.64	24.91	25.33	25.06	0
				12	0	25.20	24.70	24.27	24.43	24.80	24.50	0.5
				12	6	25.20	25.26	24.72	24.93	25.30	25.01	0
				12	12	24.13	24.79	24.18	24.42	24.81	24.52	0.5
				24	0	24.10	24.77	24.23	24.42	24.80	24.52	0.5
			QPSK	1	1	24.60	25.18	24.85	24.99	25.37	25.07	0
				1	12	24.62	25.24	24.67	24.91	25.31	25.05	0
				1	22	24.74	25.32	24.67	24.96	25.37	25.10	0
				12	0	23.56	24.22	23.77	23.94	24.32	24.01	1
				12	6	24.62	25.28	24.74	24.94	25.31	25.04	0
				12	12	23.67	24.30	23.69	23.92	24.33	24.04	1
				24	0	23.62	24.28	23.73	23.94	24.31	24.02	1
		16QAM	1	1	23.61	24.18	23.75	23.92	24.39	23.91	1	
		64QAM	1	1	22.06	22.75	22.41	22.54	22.79	22.49	2.5	
		256QAM	1	1	20.01	20.61	20.29	20.31	20.81	20.54	4.5	
CP	QPSK	1	1	24.39	24.01	23.27	23.88	23.98	23.49	1.5		

**NR TDD Band n77\_ 15 MHz Bandwidth Conducted Power**

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	24.50	25.17	24.86	24.99	25.37	24.90	0
				1	18	24.66	25.30	24.71	24.91	25.28	24.94	0
				1	36	24.77	25.32	24.63	24.99	25.39	24.99	0
				18	0	24.08	24.73	24.31	24.48	24.86	24.41	0.5
				18	9	24.67	25.32	24.75	24.96	25.33	24.93	0
				18	18	24.23	24.81	24.19	24.44	24.84	24.44	0.5
				36	0	24.17	24.81	24.25	24.46	24.84	24.43	0.5
			QPSK	1	1	24.55	25.25	24.89	25.00	25.46	24.95	0
				1	18	24.70	25.33	24.76	24.98	25.37	24.97	0
				1	36	24.84	25.36	24.65	25.04	25.45	25.01	0
				18	0	23.60	24.25	23.82	23.98	24.37	23.92	1
				18	9	24.69	25.32	24.76	24.97	25.36	24.94	0
				18	18	23.76	24.31	23.69	23.95	24.35	23.94	1
				36	0	23.69	24.33	23.75	23.97	24.35	23.93	1
		16QAM	1	1	23.59	24.29	23.91	23.97	24.44	23.81	1	
		64QAM	1	1	21.99	22.93	22.36	22.42	23.00	22.53	2.5	
		256QAM	1	1	19.99	20.51	20.32	20.50	20.84	20.45	4.5	
CP	QPSK	1	1	23.83	23.63	23.35	23.80	23.88	23.44	1.5		

## NR TDD Band n77\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]	
						647334	650800	654266	657734	661200	664666		
						3710.01	3762	3813.99	3866.01	3918	3969.99		
						MHz	MHz	MHz	MHz	MHz	MHz		
20 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.73	25.50	25.28	25.23	25.79	25.47	0	
				1	26	24.95	25.62	25.11	25.23	25.72	25.43	0	
				1	49	25.07	25.56	24.95	25.34	25.76	25.52	0	
				25	0	24.32	25.05	24.70	24.73	25.28	24.94	0.5	
				25	13	24.96	25.60	25.10	25.24	25.72	25.45	0	
				25	26	24.53	25.09	24.47	24.76	25.21	24.96	0.5	
			QPSK	50	0	24.46	25.11	24.61	24.75	25.24	24.95	0.5	
				1	1	24.78	25.54	25.25	25.29	25.77	25.44	0	
				1	26	25.01	25.62	25.04	25.29	25.68	25.39	0	
				1	49	25.14	25.62	24.90	25.40	25.73	25.48	0	
				25	0	23.85	24.58	24.20	24.25	24.79	24.46	1	
				25	13	24.97	25.64	25.12	25.27	25.74	25.45	0	
			16QAM	25	26	24.02	24.60	23.99	24.26	24.74	24.49	1	
				50	0	23.96	24.63	24.10	24.26	24.74	24.45	1	
				1	1	23.67	24.49	24.32	24.29	24.67	24.55	1	
				1	1	22.36	23.04	22.87	22.87	23.46	22.99	2.5	
				1	1	20.15	20.88	20.58	20.54	21.24	20.93	4.5	
CP	QPSK	1	1	23.15	23.96	23.71	23.65	24.26	23.91	1.5			

## NR TDD Band n77\_25 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]	
						647500	650900	654300	657700	661100	664500		
						3712.5	3763.5	3814.5	3865.5	3916.5	3967.5		
						MHz	MHz	MHz	MHz	MHz	MHz		
25 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.48	25.11	24.94	24.98	25.51	25.00	0	
				1	32	24.74	25.32	24.70	24.97	25.38	25.02	0	
				1	63	24.80	25.18	24.56	25.07	25.45	25.04	0	
				32	0	24.14	24.75	24.35	24.51	24.96	24.50	0.5	
				32	17	24.76	25.30	24.74	24.99	25.42	25.01	0	
				32	33	24.31	24.79	24.12	24.48	24.90	24.51	0.5	
			QPSK	64	0	24.25	24.80	24.23	24.49	24.92	24.49	0.5	
				1	1	24.56	25.18	24.97	25.03	25.50	25.04	0	
				1	32	24.79	25.30	24.77	24.95	25.40	24.98	0	
				1	63	24.84	25.24	24.60	25.10	25.46	25.05	0	
				32	0	23.66	24.26	23.86	24.02	24.47	24.02	1	
				32	17	24.78	25.32	24.76	25.01	25.43	25.02	0	
			16QAM	32	33	23.81	24.29	23.62	23.99	24.41	24.02	1	
				64	0	23.76	24.30	23.75	24.00	24.42	24.00	1	
				1	1	23.51	24.13	23.94	23.91	24.44	24.07	1	
				1	1	22.16	22.71	22.44	22.35	22.99	22.60	2.5	
				1	1	20.08	20.63	20.42	20.43	20.83	20.42	4.5	
CP	QPSK	1	1	22.97	23.60	23.43	23.52	23.84	23.50	1.5			



## NR TDD Band n77\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3715.02	3765	3815.01	3864.99	3915	3964.98	
						MHz	MHz	MHz	MHz	MHz	MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	24.59	25.30	25.22	25.37	25.79	25.54	0
				1	39	24.91	25.52	24.98	25.27	25.67	25.43	0
				1	76	25.07	25.43	24.88	25.34	25.78	25.45	0
				36	0	24.30	24.94	24.61	24.84	25.28	25.03	0.5
				36	21	24.96	25.54	25.01	25.30	25.74	25.48	0
				36	42	24.54	25.00	24.41	24.79	25.22	24.95	0.5
			75	0	24.46	25.04	24.54	24.82	25.26	24.99	0.5	
			QPSK	1	1	24.66	25.34	25.25	25.36	25.85	25.55	0
				1	39	24.94	25.51	25.03	25.28	25.72	25.41	0
				1	76	25.08	25.39	24.91	25.34	25.86	25.41	0
				36	0	23.83	24.48	24.14	24.36	24.79	24.56	1
				36	21	24.99	25.55	25.01	25.34	25.75	25.48	0
				36	42	24.09	24.51	23.93	24.31	24.75	24.46	1
			75	0	23.97	24.56	24.04	24.32	24.77	24.50	1	
		16QAM	1	1	23.68	24.48	24.20	24.43	24.72	24.62	1	
		64QAM	1	1	22.23	22.90	22.72	22.77	23.31	23.17	2.5	
		256QAM	1	1	20.85	20.63	20.49	20.72	21.20	21.04	4.5	
CP	QPSK	1	1	23.06	23.73	23.64	23.79	24.26	24.03	1.5		

## NR TDD Band n77\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720	3768	3816	3864	3912	3960	
						MHz	MHz	MHz	MHz	MHz	MHz	
40 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.70	25.33	25.21	25.17	25.78	25.66	0
				1	53	25.04	25.55	24.94	25.31	25.74	25.46	0
				1	104	25.14	25.33	24.88	25.46	25.72	25.46	0
				50	0	24.44	25.02	24.63	24.85	25.42	25.02	0.5
				50	28	25.07	25.56	25.01	25.30	25.81	25.48	0
				50	56	24.56	24.89	24.38	24.81	25.21	24.94	0.5
			100	0	24.55	25.05	24.51	24.82	25.34	24.97	0.5	
			QPSK	1	1	24.79	25.32	25.19	25.14	25.83	25.70	0
				1	53	25.10	25.51	25.06	25.34	25.83	25.47	0
				1	104	25.15	25.30	24.97	25.47	25.72	25.48	0
				50	0	23.96	24.53	24.15	24.37	24.94	24.53	1
				50	28	25.10	25.57	25.01	25.34	25.83	25.48	0
				50	56	24.07	24.41	23.90	24.33	24.72	24.44	1
			100	0	24.06	24.56	24.04	24.32	24.83	24.49	1	
		16QAM	1	1	23.99	24.48	24.14	24.25	24.80	24.63	1	
		64QAM	1	1	22.08	22.91	22.74	22.56	23.45	23.27	2.5	
		256QAM	1	1	20.32	20.63	20.69	20.58	21.39	20.95	4.5	
CP	QPSK	1	1	23.19	23.76	23.65	23.63	24.28	24.05	1.5		

## NR TDD Band n77\_ 50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						648334	652166	656000		659834		663666
						3725.01	3782.49	3840		3897.51		3954.99
						MHz	MHz	MHz		MHz	MHz	
50 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.55	25.63	24.98		25.22	25.77	0
				1	67	24.98	25.37	24.88		25.83	25.48	0
				1	131	25.06	25.20	25.29		25.73	25.38	0
				64	0	24.36	25.11	24.34		25.05	25.20	0.5
				64	35	25.00	25.37	24.86		25.85	25.54	0
				64	69	24.61	24.80	24.81		25.32	24.91	0.5
			QPSK	128	0	24.51	24.86	24.37		25.33	25.03	0.5
				1	1	24.69	25.65	25.00		25.33	25.88	0
				1	67	25.11	25.40	24.92		25.91	25.58	0
				1	131	25.45	25.28	25.30		25.80	25.42	0
				64	0	23.90	24.63	23.83		24.56	24.73	1
				64	35	25.05	25.39	24.88		25.89	25.53	0
			16QAM	64	69	24.15	24.31	24.32		24.85	24.43	1
				128	0	24.05	24.38	23.87		24.85	24.55	1
				1	1	24.38	24.55	23.98		24.28	24.78	1
				1	1	22.21	23.05	23.02		22.68	23.27	2.5
256QAM	1	1	20.89	21.11	20.58		20.88	21.32	4.5			
	1	1	23.10	24.00	23.39		23.72	24.27	1.5			
CP		QPSK	1	1	23.10	24.00	23.39		23.72	24.27	1.5	

## NR TDD Band n77\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						648668	653556			658444		663332
						3730.02	3803.34			3876.66		3949.98
						MHz	MHz			MHz	MHz	
60 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.72	25.49			25.07	25.74	0
				1	81	25.10	25.26			25.27	25.53	0
				1	160	25.57	24.79			25.92	25.52	0
				81	0	24.51	24.82			24.72	25.24	0.5
				81	41	25.10	25.24			25.35	25.57	0
				81	81	24.77	24.48			25.29	24.99	0.5
			QPSK	162	0	24.56	24.78			24.85	25.06	0.5
				1	1	24.69	25.56			25.11	25.74	0
				1	81	25.05	25.32			25.33	25.57	0
				1	160	25.54	24.84			25.92	25.53	0
				81	0	24.05	24.34			24.23	24.75	1
				81	41	25.10	25.29			25.36	25.58	0
			16QAM	81	81	24.26	23.99			24.81	24.50	1
				162	0	24.07	24.28			24.35	24.55	1
				1	1	24.01	24.41			24.00	24.93	1
				1	1	22.38	23.05			22.58	23.46	2.5
256QAM	1	1	20.42	20.76			20.28	21.01	4.5			
	1	1	23.25	23.97			23.55	24.14	1.5			
CP		QPSK	1	1	23.25	23.97			23.55	24.14	1.5	

## NR TDD Band n77\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]		
						649000	654336			658334		663000	
						3750 MHz	3804.99 MHz			3875.01 MHz		3945 MHz	
70 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.58	25.18			24.65	25.38	0	
				1	95	24.89	24.91			25.09	25.27	0	
				1	187	25.39	24.55			25.55	25.19	0	
				90	0	24.38	24.52			24.56	24.90	0.5	
				90	50	24.96	24.99			25.13	25.33	0	
				90	99	24.78	24.15			25.06	24.69	0.5	
			QPSK	180	0	24.43	24.49			24.57	24.83	0.5	
				1	1	24.66	25.22			24.69	25.45	0	
				1	95	24.97	24.97			25.11	25.33	0	
				1	187	25.46	24.56			25.59	25.24	0	
				90	0	23.90	24.03			24.07	24.41	1	
				90	50	24.98	25.00			25.14	25.35	0	
				90	99	24.30	23.66			24.58	24.21	1	
				180	0	23.94	23.99			24.08	24.34	1	
				16QAM	1	1	23.63	24.27			23.68	24.45	1
				64QAM	1	1	22.13	22.75			22.22	23.13	2.5
				256QAM	1	1	20.00	20.64			20.10	20.82	4.5
CP	QPSK	1	1	23.14	23.67			23.13	23.88	1.5			

## NR TDD Band n77\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						649334		656000		662666		
						3740.01 MHz		3840 MHz		3939.99 MHz		
80 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.71		25.24		25.86		0
				1	109	25.31		24.81		25.65		0
				1	215	25.31		25.39		25.47		0
				108	0	24.54		24.40		25.18		0.5
				108	55	25.15		24.86		25.70		0
				108	109	25.08		24.82		24.99		0.5
				216	0	24.64		24.34		25.19		0.5
			QPSK	1	1	24.78		25.24		25.89		0
				1	109	25.18		24.83		25.68		0
				1	215	25.37		25.41		25.48		0
				108	0	24.07		23.92		24.72		1
				108	55	25.15		24.87		25.70		0
				108	109	24.59		24.30		24.49		1
				216	0	24.13		23.87		24.73		1
				16QAM	1	1	23.65		24.34		24.95	
			64QAM	1	1	22.42		22.90		23.40		2.5
			256QAM	1	1	20.22		20.60		21.60		4.5
CP	QPSK	1	1	23.21		23.67		24.36		1.5		

## NR TDD Band n77\_ 90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						649668		656000		662332		
						3745.02		3840		3934.98		
						MHz		MHz		MHz		
90 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.67		25.30		25.83		0
				1	123	25.21		25.55		25.75		0
				1	243	25.42		25.57		25.40		0
				120	0	24.47		24.46		25.37		0.5
				120	63	25.23		24.87		25.75		0
				120	125	25.12		24.80		24.93		0.5
			QPSK	243	0	24.74		24.36		25.26		0.5
				1	1	24.71		25.34		25.90		0
				1	123	25.25		24.90		25.77		0
				1	243	25.43		25.61		25.40		0
				120	0	24.03		23.99		24.88		1
				120	63	25.27		24.90		25.75		0
				120	125	24.64		24.31		24.45		1
				243	0	24.25		23.87		24.74		1
			16QAM	1	1	23.84		24.41		24.72		1
			64QAM	1	1	22.44		22.88		23.52		2.5
			256QAM	1	1	20.14		20.83		21.36		4.5
CP	QPSK	1	1	23.17		23.71		24.27		1.5		

## NR TDD Band n77\_ 100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]	
						650000				662000		
						3750				3930		
						MHz		MHz				
100 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	24.85				25.53		0
				1	137	25.39				25.77		0
				1	271	25.38				25.60		0
				135	0	24.57				25.36		0.5
				135	69	25.37				25.76		0
				135	138	24.95				25.02		0.5
			QPSK	270	0	24.87				25.28		0.5
				1	1	24.93				25.58		0
				1	137	25.48				25.86		0
				1	271	25.47				25.64		0
				135	0	24.10				24.90		1
				135	69	25.39				25.80		0
				135	138	24.47				24.55		1
				270	0	24.38				24.79		1
			16QAM	1	1	23.90				24.69		1
			64QAM	1	1	22.26				23.09		2.5
			256QAM	1	1	20.32				20.94		4.5
CP	QPSK	1	1	23.25				24.00		1.5		

## [NR TDD Band n77 DoD Power Class 2 Conducted Power\_ Pmax\_Sub 3]

## NR TDD Band n77 DoD\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630334	633334	636332	
						3445.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	25.26	25.11	24.89	0
				1	12	25.24	24.99	24.78	0
				1	22	25.23	24.98	24.73	0
				12	0	24.77	24.57	24.35	0.5
				12	6	25.26	25.06	24.80	0
				12	12	24.75	24.50	24.25	0.5
				24	0	24.78	24.53	24.31	0.5
			QPSK	1	1	25.33	25.10	24.94	0
				1	12	25.26	25.02	24.80	0
				1	22	25.29	24.98	24.75	0
				12	0	24.28	24.08	23.86	1
				12	6	25.28	25.06	24.82	0
				12	12	24.25	24.02	23.75	1
			16QAM	24	0	24.27	24.04	23.80	1
				1	1	24.27	24.24	23.95	1
				1	1	22.76	22.63	22.50	2.5
			64QAM	1	1	20.70	20.61	20.40	4.5
			256QAM	1	1	23.81	23.53	23.41	1.5
CP	QPSK	1	1	23.81	23.53	23.41	1.5		

## NR TDD Band n77 DoD\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630500	633334	636166	
						3457.5 MHz	3500.01 MHz	3542.49 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	25.27	25.12	24.93	0
				1	18	25.23	24.98	24.84	0
				1	36	25.19	24.94	24.69	0
				18	0	24.79	24.57	24.40	0.5
				18	9	25.26	25.05	24.86	0
				18	18	24.73	24.49	24.27	0.5
				36	0	24.76	24.54	24.36	0.5
			QPSK	1	1	25.37	25.13	24.97	0
				1	18	25.31	25.03	24.90	0
				1	36	25.24	24.94	24.74	0
				18	0	24.30	24.09	23.92	1
				18	9	25.29	25.06	24.86	0
				18	18	24.24	23.99	23.78	1
			16QAM	36	0	24.28	24.05	23.86	1
				1	1	24.34	24.22	23.92	1
				1	1	22.88	22.75	22.57	2.5
			64QAM	1	1	20.76	20.46	20.53	4.5
			256QAM	1	1	23.81	23.57	23.45	1.5
CP	QPSK	1	1	23.81	23.57	23.45	1.5		

## NR TDD Band n77 DoD\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630668	633334	636000	
						3460.02 MHz	3500.01 MHz	3540 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	26.01	25.45	24.98	0
				1	26	25.88	25.61	24.91	0
				1	49	25.74	25.28	24.74	0
				25	0	25.46	24.93	24.50	0.5
				25	13	25.90	25.36	24.97	0
				25	26	25.30	24.77	24.35	0.5
				50	0	25.43	24.87	24.47	0.5
			QPSK	1	1	26.07	25.49	25.01	0
				1	26	25.97	25.34	24.94	0
				1	49	25.78	25.28	24.75	0
				25	0	24.97	24.45	24.01	1
				25	13	25.92	25.38	24.99	0
				25	26	24.82	24.30	23.87	1
				50	0	24.93	24.39	23.99	1
		16QAM	1	1	24.97	24.54	24.24	1	
		64QAM	1	1	23.45	23.08	22.66	2.5	
		256QAM	1	1	21.41	20.87	20.49	4.5	
CP	QPSK	1	1	24.43	23.90	23.46	1.5		

## NR TDD Band n77 DoD\_25 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630834	633334	635834	
						3462.51 MHz	3500.01 MHz	3537.51 MHz	
25 MHz	30	DFT-s	pi/2 BPSK	1	1	26.05	25.48	24.99	0
				1	26	25.95	25.31	24.94	0
				1	49	25.72	25.13	24.73	0
				25	0	25.50	24.95	24.46	0.5
				25	13	25.90	25.37	24.92	0
				25	26	25.29	24.74	24.32	0.5
				50	0	25.42	24.87	24.44	0.5
			QPSK	1	1	26.14	25.55	25.02	0
				1	26	25.95	25.37	25.01	0
				1	49	25.78	25.17	24.75	0
				25	0	25.02	24.47	23.99	1
				25	13	25.92	25.38	24.95	0
				25	26	24.80	24.28	23.85	1
				50	0	24.93	24.40	23.95	1
		16QAM	1	1	25.24	24.49	23.96	1	
		64QAM	1	1	23.57	23.01	22.51	2.5	
		256QAM	1	1	21.35	20.96	20.48	4.5	
CP	QPSK	1	1	24.49	23.97	23.42	1.5		

## NR TDD Band n77 DoD\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	25.84	25.48	25.10	0
				1	39	25.64	25.58	25.16	0
				1	76	25.54	25.13	24.80	0
				36	0	25.31	24.97	24.61	0.5
				36	21	25.71	25.37	25.09	0
				36	42	25.10	24.73	24.47	0.5
				75	0	25.22	24.89	24.60	0.5
			QPSK	1	1	25.91	25.46	25.09	0
				1	39	25.69	25.33	25.02	0
				1	76	25.56	25.18	24.79	0
				36	0	24.88	24.51	24.17	1
				36	21	25.73	25.39	25.13	0
				36	42	24.61	24.24	24.02	1
				75	0	24.74	24.41	24.10	1
			16QAM	1	1	25.01	24.68	24.15	1
			64QAM	1	1	23.55	22.92	22.70	2.5
			256QAM	1	1	21.29	20.98	20.54	4.5
CP	QPSK	1	1	24.38	23.95	23.59	1.5		

## NR TDD Band n77 DoD\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 MHz		3529.98 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	25.95		25.16	0
				1	53	24.53		25.04	0
				1	104	25.56		24.76	0
				50	0	25.40		24.58	0.5
				50	28	25.71		25.04	0
				50	56	25.12		24.49	0.5
				100	0	25.26		24.53	0.5
			QPSK	1	1	26.04		25.15	0
				1	53	25.67		25.00	0
				1	104	25.57		24.72	0
				50	0	24.94		24.07	1
				50	28	25.74		25.06	0
				50	56	24.63		24.00	1
				100	0	24.75		24.07	1
			16QAM	1	1	24.99		23.80	1
			64QAM	1	1	23.35		22.64	2.5
			256QAM	1	1	21.47		20.57	4.5
CP	QPSK	1	1	24.44		23.64	1.5		

## NR TDD Band n77 DoD\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 MHz		3525 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	25.91		25.26	0
				1	67	25.57		24.97	0
				1	131	25.42		24.68	0
				64	0	25.27		24.55	0.5
				64	35	25.57		24.97	0
				64	69	25.05		24.41	0.5
				128	0	25.09		24.47	0.5
			QPSK	1	1	25.96		25.26	0
				1	67	25.64		24.99	0
				1	131	25.51		24.69	0
				64	0	24.78		24.07	1
				64	35	25.62		24.99	0
				64	69	24.57		23.93	1
				128	0	24.60		23.97	1
		16QAM	1	1	25.03		24.19	1	
		64QAM	1	1	23.35		22.48	2.5	
		256QAM	1	1	21.19		20.74	4.5	
CP	QPSK	1	1	24.35		23.64	1.5		

## NR TDD Band n77 DoD\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
60 MHz	30	DFT-s	pi/2 BPSK	1	1	25.59		25.59	0
				1	81	25.39		25.39	0
				1	160	25.02		25.02	0
				81	0	25.06		25.06	0.5
				81	41	25.39		25.39	0
				81	81	24.60		24.60	0.5
				162	0	24.86		24.86	0.5
			QPSK	1	1	25.62		25.62	0
				1	81	25.41		25.41	0
				1	160	25.02		25.02	0
				81	0	24.56		24.56	1
				81	41	25.40		25.40	0
				81	81	24.14		24.14	1
				162	0	24.40		24.40	1
		16QAM	1	1	24.63		24.63	1	
		64QAM	1	1	23.03		23.03	2.5	
		256QAM	1	1	21.35		21.35	4.5	
CP	QPSK	1	1	24.05		24.05	1.5		



## NR TDD Band n77 DoD\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]	
							633334			
70 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	95				25.70	0
				1	187				25.40	0
				90	0				25.01	0
				90	50				25.03	0.5
				90	99				25.38	0
			QPSK	90	99				24.57	0.5
				180	0				24.89	0.5
				1	1				25.71	0
				1	95				25.38	0
				1	187				24.99	0
				90	0				24.56	1
			16QAM	90	50				25.39	0
				90	99				24.09	1
				180	0				24.40	1
				16QAM	1	1			24.73	1
			64QAM	1	1			23.24	2.5	
			256QAM	1	1			20.98	4.5	
CP	QPSK	1	1			24.11	1.5			

## NR TDD Band n77 DoD\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]	
							633334			
80 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	109				25.81	0
				1	215				25.39	0
				108	0				24.99	0
				108	55				25.04	0.5
				108	109				25.38	0
			QPSK	108	109				24.56	0.5
				216	0				24.86	0.5
				1	1				25.86	0
				1	109				25.45	0
				1	215				25.03	0
				108	0				24.55	1
			16QAM	108	55				25.37	0
				108	109				24.08	1
				216	0				24.39	1
				16QAM	1	1			25.00	1
			64QAM	1	1			23.42	2.5	
			256QAM	1	1			21.24	4.5	
CP	QPSK	1	1			24.27	1.5			

## NR TDD Band n77 DoD\_90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
90 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0
				1	123		25.89		0
				1	243		25.37		0
				120	0		24.85		0
				120	63		25.07		0.5
				120	125		25.37		0
			120	125		24.53		0.5	
			243	0		24.84		0.5	
			QPSK	1	1		25.91		0
				1	123		25.43		0
				1	243		24.94		0
				120	0		24.58		1
				120	63		25.38		0
				120	125		24.06		1
			243	0		24.39		1	
			16QAM	1	1		25.05		1
			64QAM	1	1		23.56		2.5
			256QAM	1	1		21.43		4.5
		CP	QPSK	1	1		24.32		1.5

## NR TDD Band n77 DoD\_100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
100MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0
				1	137		25.98		0
				1	271		25.37		0
				1	271		24.80		0
				135	0		24.80		0
				135	69		25.07		0.5
				135	138		25.37		0
			135	138		24.54		0.5	
			270	0		24.87		0.5	
			QPSK	1	1		26.04		0
				1	137		25.44		0
				1	271		24.91		0
				135	0		24.62		1
				135	69		24.62		1
				135	138		25.38		0
			270	0		24.06		1	
			270	0		24.37		1	
			16QAM	1	1		25.07		1
		64QAM	1	1		23.65		2.5	
256QAM	1	1		21.47		4.5			
CP	QPSK	1	1		24.43		1.5		

### 11.4.2 NR Band Reduced Conducted Power

[NR TDD Band n41 Conducted Power\_Free (RSI 0), RCV (RSI 1), Hotspot (RSI 2)\_Main 2]

NR TDD Band n41\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	16.82	16.64	17.03	16.72	16.65	0
				1	12	16.82	16.67	17.07	16.69	16.74	0
				1	22	16.75	16.69	17.02	16.67	16.72	0
				12	0	16.80	16.64	17.01	16.67	16.67	0
				12	6	16.79	16.66	17.00	16.68	16.70	0
				12	12	16.79	16.66	17.01	16.68	17.06	0
			24	0	16.79	16.65	17.01	16.69	16.70	0	
			QPSK	1	1	16.81	16.67	16.98	16.65	16.63	0
				1	12	16.85	16.63	17.00	16.60	16.70	0
				1	22	16.75	16.68	16.97	16.60	16.67	0
				12	0	16.81	16.66	17.01	16.69	16.68	0
				12	6	16.79	16.65	17.01	16.69	16.70	0
				12	12	16.78	17.08	17.02	16.66	16.69	0
			24	0	16.81	16.65	17.01	16.69	16.71	0	
		16QAM	1	1	16.88	16.41	17.25	16.60	16.81	0	
		64QAM	1	1	16.94	16.51	16.93	16.73	16.66	0	
		256QAM	1	1	16.85	16.57	16.93	16.63	16.54	0	
CP	QPSK	1	1	16.84	16.63	16.95	16.71	16.60	0		

NR TDD Band n41\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	16.84	16.65	16.96	16.72	16.57	0
				1	18	16.74	16.58	16.94	17.04	16.57	0
				1	36	16.71	16.74	16.98	16.83	16.67	0
				18	0	16.78	16.64	16.98	16.72	16.53	0
				18	9	16.78	16.65	17.01	16.71	16.63	0
				18	18	16.73	16.67	16.76	16.69	16.67	0
			36	0	16.81	16.65	17.00	16.70	16.63	0	
			QPSK	1	1	16.77	16.61	16.95	16.70	16.55	0
				1	18	16.73	16.54	16.94	16.65	16.54	0
				1	36	16.66	16.70	16.97	16.68	16.67	0
				18	0	16.80	16.65	16.98	16.71	16.58	0
				18	9	16.77	16.64	16.99	16.70	16.63	0
				18	18	16.76	16.68	16.98	16.70	16.69	0
			36	0	16.76	16.65	17.00	16.71	16.63	0	
		16QAM	1	1	16.90	16.61	16.77	16.54	16.50	0	
		64QAM	1	1	17.11	16.60	17.07	16.64	16.76	0	
		256QAM	1	1	16.70	16.51	16.64	16.58	16.47	0	
CP	QPSK	1	1	16.80	16.61	16.99	16.73	16.90	0		

## NR TDD Band n41\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	16.80	16.63	16.97	16.74	16.55	0
				1	26	16.71	16.66	17.04	16.70	16.61	0
				1	49	16.65	16.81	16.97	16.67	16.72	0
				25	0	16.05	16.64	16.95	16.72	16.58	0
				25	13	16.73	16.64	17.01	16.70	16.62	0
				25	26	16.74	17.13	17.02	16.52	16.70	0
			QPSK	50	0	16.74	16.20	16.98	16.69	16.62	0
				1	1	16.78	16.61	16.92	16.72	16.52	0
				1	26	16.70	16.60	16.93	16.70	16.57	0
				1	49	16.65	16.79	16.97	16.64	16.69	0
				25	0	16.78	16.64	16.96	16.72	16.59	0
				25	13	16.75	16.63	17.01	16.71	16.61	0
			16QAM	25	26	16.84	16.72	16.98	16.70	16.70	0
				50	0	16.73	16.64	16.99	16.71	16.61	0
				1	1	16.92	16.80	17.08	16.71	16.56	0
				1	1	16.75	16.52	17.04	16.55	16.89	0
64QAM	1	1	16.64	16.64	16.84	16.69	16.43	0			
	1	1	16.64	16.64	16.84	16.69	16.43	0			
256QAM	1	1	16.64	16.64	16.84	16.69	16.43	0			
	1	1	16.64	16.64	16.84	16.69	16.43	0			
CP	QPSK	1	1	16.82	16.59	16.90	16.74	16.67	0		

## NR TDD Band n41\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	16.74	16.54	16.86	16.71	16.48	0
				1	39	16.68	16.68	17.02	16.74	16.62	0
				1	76	16.62	16.88	16.99	16.62	16.66	0
				36	0	16.72	16.60	16.97	16.70	16.51	0
				36	21	16.65	16.67	17.03	16.69	16.56	0
				36	42	16.62	16.76	16.74	16.64	16.64	0
			QPSK	75	0	16.65	16.60	16.96	16.68	16.79	0
				1	1	16.73	16.51	16.85	16.70	16.45	0
				1	39	16.76	16.64	16.96	16.69	16.59	0
				1	76	16.59	16.84	16.96	16.60	16.62	0
				36	0	16.72	16.60	16.95	16.72	16.50	0
				36	21	16.66	16.65	17.00	16.69	16.56	0
			16QAM	36	42	16.64	16.76	16.97	16.66	16.65	0
				75	0	16.66	16.64	17.00	16.69	16.54	0
				1	1	16.74	16.57	16.73	16.82	16.39	0
				1	1	16.84	16.64	17.02	16.63	16.68	0
64QAM	1	1	16.72	16.46	16.90	16.66	16.66	0			
	1	1	16.72	16.46	16.90	16.66	16.66	0			
256QAM	1	1	16.72	16.46	16.90	16.66	16.66	0			
	1	1	16.72	16.46	16.90	16.66	16.66	0			
CP	QPSK	1	1	16.75	16.53	16.90	16.69	16.47	0		

## NR TDD Band n41\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	16.55	17.06		16.77	16.41	0
				1	53	16.76	17.09		16.92	16.64	0
				1	104	16.71	17.17		16.79	16.69	0
				50	0	16.52	16.83		16.86	17.04	0
				50	28	16.78	17.04		16.88	16.61	0
				50	56	16.79	17.22		16.87	16.62	0
			QPSK	100	0	16.59	17.03		16.90	17.03	0
				1	1	16.53	16.30		16.78	16.36	0
				1	53	16.63	16.93		16.87	16.60	0
				1	104	16.71	17.14		16.80	16.66	0
				50	0	16.53	16.87		16.43	16.48	0
				50	28	16.60	16.98		16.90	16.58	0
			16QAM	50	56	16.82	17.23		16.62	16.63	0
				100	0	16.74	17.05		16.89	16.55	0
				1	1	16.63	16.53		16.73	16.30	0
			64QAM	1	1	16.74	16.35		16.80	16.34	0
1	1	16.24		16.68		16.69	16.39	0			
256QAM	1	1	16.24	16.68		16.69	16.39	0			
CP	QPSK	1	1	16.19	16.65		16.82	16.43	0		

## NR TDD Band n41\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	16.66		16.68		16.77	0
				1	67	16.64		17.10		16.70	0
				1	131	16.69		17.10		16.43	0
				64	0	16.76		17.05		16.69	0
				64	35	16.82		17.18		16.78	0
				64	69	16.72		17.08		16.82	0
				128	0	16.72		17.13		16.80	0
			QPSK	1	1	16.74		16.73		16.52	0
				1	67	16.72		17.04		16.69	0
				1	131	16.73		17.11		17.09	0
				64	0	16.60		17.06		16.73	0
				64	35	16.75		17.20		16.79	0
				64	69	16.77		17.11		16.84	0
			16QAM	128	0	16.75		17.14		16.80	0
				1	1	16.92		16.91		16.64	0
				1	1	16.71		16.69		16.67	0
64QAM	1	1	16.71		16.69		16.67	0			
	1	1	16.83		16.82		16.58	0			
256QAM	1	1	16.83		16.82		16.58	0			
CP	QPSK	1	1	16.80		16.67		16.54	0		

## NR TDD Band n41\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR [dB]	
						505200		518598			531996
						2526 MHz		2592.99 MHz			2659.98 MHz
60 MHz	30	DFT-s	pi/2 BPSK	1	1	16.67		17.03		16.60	0
				1	81	16.67		17.11		16.80	0
				1	160	16.76		17.01		17.06	0
				81	0	16.70		17.02		16.99	0
				81	41	16.76		17.20		16.80	0
				81	81	16.77		17.19		16.90	0
			162	0	16.72		17.17		16.81	0	
			QPSK	1	1	16.66		16.61		16.70	0
				1	81	16.74		17.18		16.80	0
				1	160	16.73		16.97		17.04	0
				81	0	16.74		17.07		16.71	0
				81	41	16.39		17.22		16.84	0
				81	81	16.78		17.22		17.06	0
			162	0	16.71		17.19		16.77	0	
			16QAM	1	1	16.87		16.83		16.80	0
			64QAM	1	1	16.71		16.56		16.41	0
			256QAM	1	1	16.80		16.63		16.61	0
			CP	QPSK	1	1	16.58		16.63		16.95

## NR TDD Band n41\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR [dB]	
						506208					530994
						2531.04 MHz					2654.97 MHz
70 MHz	30	DFT-s	pi/2 BPSK	1	1	16.69				16.61	0
				1	81	16.74				16.79	0
				1	160	16.83				16.58	0
				81	0	16.72				16.76	0
				81	41	16.78				16.86	0
				81	81	16.84				16.78	0
			162	0	16.76				16.92	0	
			QPSK	1	1	16.57				16.60	0
				1	81	16.80				16.76	0
				1	160	16.87				16.47	0
				81	0	16.75				16.74	0
				81	41	16.81				16.86	0
				81	81	16.86				17.02	0
			162	0	16.78				16.75	0	
			16QAM	1	1	16.83				16.70	0
			64QAM	1	1	16.64				16.50	0
			256QAM	1	1	16.80				16.74	0
			CP	QPSK	1	1	16.74				16.65

## NR TDD Band n41\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR [dB]	
						507204			529998		
						2536.02 MHz			2649.99 MHz		
80 MHz	30	DFT-s	pi/2 BPSK	1	1	16.67				16.72	0
				1	109	16.65				16.57	0
				1	215	17.11				16.87	0
				108	0	16.63				16.82	0
				108	55	16.51				16.84	0
				108	109	16.87				16.93	0
			216	0	16.85				16.82	0	
			QPSK	1	1	16.74				16.75	0
				1	109	16.72				16.82	0
				1	215	17.16				16.76	0
				108	0	16.68				16.86	0
				108	55	16.78				16.90	0
				108	109	16.89				16.96	0
			216	0	16.72				16.86	0	
			16QAM	1	1	16.88				16.85	0
			64QAM	1	1	16.70				16.65	0
256QAM	1	1	16.71				16.76	0			
CP	QPSK	1	1	16.82				16.79	0		

## NR TDD Band n41\_90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR [dB]	
						508200			528996		
						2541 MHz			2644.98 MHz		
90 MHz	30	DFT-s	pi/2 BPSK	1	1	16.38				16.65	0
				1	123	16.62				16.65	0
				1	243	17.17				16.94	0
				120	0	16.63				16.82	0
				120	63	16.74				16.80	0
				120	125	16.94				16.90	0
			243	0	16.73				16.75	0	
			QPSK	1	1	16.61				16.77	0
				1	123	16.67				16.81	0
				1	243	17.15				16.76	0
				120	0	16.68				16.85	0
				120	63	16.82				16.84	0
				120	125	17.02				16.93	0
			243	0	16.76				16.78	0	
			16QAM	1	1	16.77				16.70	0
			64QAM	1	1	16.70				16.91	0
256QAM	1	1	16.74				16.66	0			
CP	QPSK	1	1	16.41				16.92	0		

## NR TDD Band n41\_100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR [dB]	
								518598			
								2592.99			
								MHz			
100 MHz	30	DFT-s	pi/2 BPSK	1	1			16.31			0
				1	137			16.28			0
				1	271			16.09			0
				135	0			16.02			0
				135	69			15.97			0
				135	138			16.09			0
				270	0			16.12			0
			1	1			<b>16.34</b>			0	
			1	137			16.24			0	
			1	271			16.22			0	
			135	0			<b>16.50</b>			0	
			135	69			16.48			0	
			135	138			16.44			0	
			270	0			16.25			0	
		16QAM	1	1		16.24			0		
		64QAM	1	1		16.26			0		
		256QAM	1	1		16.38			0		
CP		QPSK	1	1			16.37			0	



## [NR FDD Band n66 Conducted Power \_Free (RSI 0), Hotspot (RSI 2)\_Main 2]

## NR FDD Band n66 \_5 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						342500	349000	355500	
						1712.5 MHz	1745 MHz	1777.5 MHz	
5 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	20.22	20.22	19.88	0
				1	13	20.17	20.04	19.83	0
				1	23	20.23	20.08	19.90	0
				12	0	20.22	20.19	19.90	0
				12	7	20.25	20.17	19.94	0
				12	13	20.23	20.12	19.93	0
				25	0	20.24	20.17	19.92	0
			QPSK	1	1	20.26	20.25	19.95	0
				1	13	20.21	20.10	19.85	0
				1	23	20.19	20.15	19.92	0
				12	0	20.24	20.25	19.91	0
				12	7	20.23	20.21	19.97	0
				12	13	20.24	20.16	19.99	0
			25	0	20.22	20.20	19.93	0	
		16QAM	1	1	20.21	20.29	19.94	0	
		64QAM	1	1	20.16	20.16	19.85	0	
		256QAM	1	1	19.30	19.43	19.16	1.5	
CP	QPSK	1	1	20.19	20.20	19.91	0		

## NR FDD Band n66 \_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343000	349000	355000	
						1715 MHz	1745 MHz	1775 MHz	
10 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	20.16	20.19	19.86	0
				1	26	20.24	20.16	19.92	0
				1	50	20.20	20.10	19.94	0
				25	0	20.19	20.20	19.88	0
				25	14	20.24	20.14	19.91	0
				25	27	20.21	20.13	19.91	0
				50	0	20.20	20.11	19.90	0
			QPSK	1	1	20.23	20.27	19.94	0
				1	26	20.23	20.19	19.92	0
				1	50	20.19	20.14	19.92	0
				25	0	20.24	20.24	19.89	0
				25	14	20.21	20.21	19.94	0
				25	27	20.25	20.13	19.97	0
			50	0	20.24	20.18	19.91	0	
		16QAM	1	1	20.29	20.37	19.89	0	
		64QAM	1	1	20.27	20.32	20.02	0	
		256QAM	1	1	19.33	19.23	18.93	1.5	
CP	QPSK	1	1	20.14	20.24	19.81	0		

## NR FDD Band n66\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
15 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	20.10	19.94	19.74	0
				1	40	20.05	20.02	19.72	0
				1	77	20.20	19.98	19.85	0
				36	0	20.20	20.25	19.84	0
				36	22	20.19	20.14	19.81	0
				36	43	20.19	20.13	19.87	0
				75	0	20.19	20.19	19.83	0
			QPSK	1	1	20.15	19.79	19.85	0
				1	40	20.15	20.11	19.81	0
				1	77	20.14	20.08	19.87	0
				36	0	20.23	20.29	19.86	0
				36	22	20.18	20.16	19.82	0
				36	43	20.23	20.09	19.89	0
				75	0	20.21	20.18	19.90	0
			16QAM	1	1	20.27	19.84	19.86	0
			64QAM	1	1	20.14	19.82	19.95	0
		256QAM	1	1	19.23	19.17	18.87	1.5	
CP	QPSK	1	1	20.08	20.19	19.78	0		

## NR FDD Band n66\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						344000	349000	354000	
						1720 MHz	1745 MHz	1770 MHz	
20 MHz	15	DFT-s OFDM	pi/2 BPSK	1	1	20.01	20.11	19.83	0
				1	53	20.10	20.11	19.94	0
				1	104	20.28	19.94	19.86	0
				50	0	20.10	20.22	19.88	0
				50	28	20.10	20.12	19.91	0
				50	56	20.22	20.09	19.91	0
				100	0	20.13	20.16	19.91	0
			QPSK	1	1	20.12	19.85	19.90	0
				1	53	20.10	<b>20.26</b>	19.91	0
				1	104	20.23	20.04	19.96	0
				50	0	20.12	<b>20.25</b>	19.88	0
				50	28	20.15	20.14	19.93	0
				50	56	20.22	20.09	19.90	0
				100	0	20.14	20.19	19.94	0
			16QAM	1	1	20.07	19.96	19.89	0
			64QAM	1	1	20.19	19.82	19.84	0
		256QAM	1	1	19.15	19.07	18.97	1.5	
CP	QPSK	1	1	20.12	20.20	19.88	0		

## [NR TDD Band n77 Conducted Power\_Free (RSI 0), RCV (RSI1), Hotspot (RSI 2)\_Sub 3]

## NR TDD Band n77\_ 10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	16.39	16.75	16.27	16.42	16.73	16.67	0
				1	12	16.52	16.79	16.25	16.59	16.77	16.69	0
				1	22	16.48	16.68	16.19	16.68	16.81	16.66	0
				12	0	16.49	16.81	16.32	16.54	16.80	16.71	0
				12	6	16.51	16.79	16.29	16.62	16.82	16.70	0
				12	12	16.53	16.77	16.27	16.69	16.83	16.72	0
			24	0	16.52	16.80	16.30	16.63	16.84	16.73	0	
			QPSK	1	1	16.48	16.85	16.34	16.51	16.66	16.61	0
				1	12	16.49	16.77	16.29	16.59	16.68	16.62	0
				1	22	16.56	16.74	16.23	16.74	16.72	16.61	0
				12	0	16.53	16.84	16.36	16.59	16.82	16.74	0
				12	6	16.54	16.81	16.32	16.64	16.84	16.73	0
				12	12	16.57	16.79	16.29	16.71	16.87	16.73	0
			24	0	16.56	16.82	16.32	16.66	16.85	16.74	0	
			16QAM	1	1	16.52	16.85	16.39	16.60	16.82	16.85	0
			64QAM	1	1	16.46	16.82	16.44	16.59	16.87	16.81	0
		256QAM	1	1	16.37	16.76	16.28	16.45	16.73	16.59	0	
CP	QPSK	1	1	16.43	16.73	16.29	16.45	16.76	16.64	0		

## NR TDD Band n77\_ 15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	16.42	16.80	16.35	16.31	16.66	16.66	0
				1	18	16.42	16.67	16.20	16.52	16.69	16.69	0
				1	36	16.55	16.64	16.15	16.70	16.80	16.66	0
				18	0	16.53	16.82	16.35	16.49	16.77	16.78	0
				18	9	16.52	16.78	16.30	16.60	16.82	16.79	0
				18	18	16.57	16.73	16.26	16.69	16.84	16.77	0
			36	0	16.57	16.80	16.29	16.61	16.82	16.80	0	
			QPSK	1	1	16.52	16.74	16.30	16.31	16.66	16.74	0
				1	18	16.51	16.62	16.14	16.43	16.74	16.75	0
				1	36	16.59	16.56	16.05	16.61	16.78	16.73	0
				18	0	16.56	16.85	16.38	16.50	16.80	16.80	0
				18	9	16.57	16.81	16.33	16.62	16.82	16.80	0
				18	18	16.59	16.76	16.26	16.71	16.85	16.76	0
			36	0	16.58	16.81	16.33	16.62	16.84	16.81	0	
			16QAM	1	1	16.62	16.94	16.50	16.38	16.67	16.78	0
			64QAM	1	1	16.45	16.93	16.53	16.52	16.68	16.76	0
		256QAM	1	1	16.46	16.81	16.37	16.28	16.70	16.62	0	
CP	QPSK	1	1	16.43	16.77	16.36	16.35	16.68	16.68	0		

## NR TDD Band n77\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]	
						647334	650800	654266	657734	661200	664666		
						3710.01	3762	3813.99	3866.01	3918	3969.99		
						MHz	MHz	MHz	MHz	MHz	MHz		
20 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.46	16.80	16.40	16.25	16.61	16.55	0	
				1	26	16.51	16.69	16.20	16.52	16.74	16.73	0	
				1	49	16.64	16.60	16.11	16.70	16.80	16.71	0	
				25	0	16.58	16.84	16.36	16.43	16.72	16.71	0	
				25	13	16.61	16.76	16.28	16.59	16.79	16.79	0	
				25	26	16.64	16.70	16.19	16.72	16.83	16.77	0	
			QPSK	50	0	16.60	16.77	16.30	16.59	16.81	16.81	0	
				1	1	16.44	16.76	16.47	16.34	16.66	16.53	0	
				1	26	16.58	16.64	16.26	16.57	16.65	16.66	0	
				1	49	16.68	16.53	16.16	16.75	16.82	16.59	0	
				25	0	16.61	16.88	16.41	16.46	16.75	16.74	0	
				25	13	16.63	16.79	16.32	16.62	16.82	16.81	0	
			16QAM	25	26	16.67	16.73	16.23	16.75	16.86	16.78	0	
				50	0	16.65	16.79	16.31	16.62	16.81	16.81	0	
				1	1	16.70	16.95	16.51	16.35	16.66	16.65	0	
			64QAM	1	1	16.64	16.99	16.63	16.39	16.77	16.74	0	
			256QAM	1	1	16.49	16.81	16.42	16.28	16.64	16.46	0	
			CP	QPSK	1	1	16.49	16.84	16.43	16.25	16.62	16.60	0

## NR TDD Band n77\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]	
						647500	650900	654300	657700	661100	664500		
						3712.5	3763.5	3814.5	3865.5	3916.5	3967.5		
						MHz	MHz	MHz	MHz	MHz	MHz		
25 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.50	16.86	16.47	16.19	16.57	16.45	0	
				1	32	16.57	16.69	16.23	16.49	16.71	16.68	0	
				1	63	16.69	16.58	16.08	16.74	16.82	16.72	0	
				32	0	16.61	16.87	16.42	16.39	16.68	16.63	0	
				32	17	16.63	16.79	16.31	16.59	16.79	16.76	0	
				32	33	16.68	16.67	16.18	16.74	16.85	16.79	0	
			QPSK	64	0	16.65	16.77	16.31	16.59	16.79	16.75	0	
				1	1	16.61	16.87	16.53	16.24	16.57	16.52	0	
				1	32	16.60	16.70	16.25	16.57	16.66	16.75	0	
				1	63	16.75	16.61	16.13	16.76	16.79	16.73	0	
				32	0	16.65	16.89	16.45	16.42	16.71	16.65	0	
				32	17	16.68	16.79	16.33	16.62	16.80	16.78	0	
			16QAM	32	33	16.71	16.69	16.23	16.77	16.86	16.81	0	
				64	0	16.66	16.79	16.34	16.61	16.79	16.78	0	
				1	1	16.71	16.99	16.68	16.27	16.66	16.53	0	
			64QAM	1	1	16.69	16.98	16.62	16.31	16.76	16.55	0	
			256QAM	1	1	16.55	16.89	16.48	16.24	16.51	16.44	0	
			CP	QPSK	1	1	16.56	16.89	16.51	16.25	16.61	16.40	0

## NR TDD Band n77\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3715.02	3765	3815.01	3864.99	3915	3964.98	
						MHz	MHz	MHz	MHz	MHz	MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	16.33	16.60	16.25	16.30	16.49	16.50	0
				1	39	16.36	16.53	16.08	16.66	16.70	16.70	0
				1	76	16.76	16.54	15.99	16.65	16.80	16.61	0
				36	0	16.33	16.52	16.11	16.47	16.65	16.63	0
				36	21	16.44	16.33	16.02	16.60	16.75	16.74	0
				36	42	16.15	16.29	16.14	16.71	16.84	16.76	0
			QPSK	75	0	16.12	16.47	16.02	16.60	16.74	16.73	0
				1	1	16.26	16.57	16.18	16.35	16.51	16.57	0
				1	39	16.42	16.48	16.00	16.58	16.65	16.76	0
				1	76	16.71	16.48	15.98	16.62	16.81	16.65	0
				36	0	16.32	16.55	15.79	16.49	16.67	16.67	0
				36	21	16.41	16.47	15.98	16.64	16.77	16.76	0
				36	42	16.55	16.46	15.94	16.73	16.86	16.78	0
			75	0	16.05	16.50	15.99	16.63	16.76	16.74	0	
			16QAM	1	1	16.16	16.48	16.14	16.33	16.57	16.61	0
			64QAM	1	1	16.15	16.65	16.03	16.40	16.59	16.57	0
			256QAM	1	1	16.11	16.51	16.22	16.30	16.49	16.53	0
CP	QPSK	1	1	16.16	16.51	16.17	16.31	16.53	16.56	0		

## NR TDD Band n77\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720	3768	3816	3864	3912	3960	
						MHz	MHz	MHz	MHz	MHz	MHz	
40 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.37	16.70	16.38	16.12	16.62	16.51	0
				1	53	16.67	15.86	16.14	16.12	16.70	15.95	0
				1	104	17.02	16.54	16.01	16.53	16.73	16.59	0
				50	0	16.56	16.66	16.28	16.33	16.66	16.45	0
				50	28	16.70	16.59	16.16	16.53	16.73	16.61	0
				50	56	16.12	16.55	16.12	16.59	16.13	15.79	0
			QPSK	100	0	16.57	16.58	16.21	16.45	16.64	16.51	0
				1	1	16.45	16.77	16.40	16.16	16.70	16.52	0
				1	53	16.63	16.56	16.21	16.52	16.71	16.58	0
				1	104	16.99	16.62	16.10	16.61	16.69	16.64	0
				50	0	16.43	16.67	16.21	16.31	16.65	16.42	0
				50	28	16.59	16.61	16.13	16.52	16.72	16.59	0
				50	56	16.83	16.63	16.08	16.67	16.79	16.76	0
			100	0	16.53	16.55	16.14	16.51	16.71	16.55	0	
			16QAM	1	1	16.47	16.83	16.25	16.36	16.70	16.60	0
			64QAM	1	1	16.40	16.12	16.37	16.17	16.11	16.63	0
			256QAM	1	1	16.41	16.73	16.34	16.14	16.67	16.53	0
CP	QPSK	1	1	16.25	16.83	16.35	15.64	16.61	16.48	0		

## NR TDD Band n77\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]	
						648334	652166	656000		659834		663666
						3725.01	3782.49	3840		3897.51		3954.99
						MHz	MHz	MHz		MHz	MHz	
50 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.23	16.67	16.04		16.51	16.79	0
				1	67	16.63	16.30	16.05		16.31	16.12	0
				1	131	16.93	16.17	16.38		16.70	16.52	0
				64	0	16.35	16.57	16.07		16.67	16.64	0
				64	35	16.67	16.57	16.08		16.69	16.57	0
				64	69	16.92	16.53	16.25		16.65	16.69	0
			QPSK	128	0	16.62	16.62	16.02		16.65	16.13	0
				1	1	16.25	16.67	16.04		16.59	16.71	0
				1	67	16.68	16.60	16.04		16.65	16.49	0
				1	131	16.95	16.25	16.45		16.78	16.41	0
				64	0	16.33	16.56	16.03		16.68	16.57	0
				64	35	16.67	16.63	16.06		16.70	16.51	0
				64	69	16.26	16.57	16.11		16.75	16.62	0
				128	0	16.59	16.58	15.95		16.63	16.46	0
				16QAM	1	1	16.32	16.69	16.01		16.70	16.91
			64QAM	1	1	16.32	16.88	16.02		16.62	16.64	0
			256QAM	1	1	16.35	16.83	16.06		16.61	16.82	0
CP	QPSK	1	1	16.24	16.78	16.02		16.62	16.76	0		

## NR TDD Band n77\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]		
						648668	653556			658444		663332	
						3730.02	3803.34			3876.66		3949.98	
						MHz	MHz			MHz	MHz		
60 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.33	16.51			16.01	16.64	0	
				1	81	16.88	16.46			16.14	16.11	0	
				1	160	16.60	15.85			16.61	16.52	0	
				81	0	16.52	16.65			16.38	16.67	0	
				81	41	16.88	16.45			16.74	16.46	0	
				81	81	16.88	16.06			16.75	16.58	0	
				162	0	16.82	16.40			16.75	16.43	0	
			QPSK	1	1	16.44	16.57			16.10	16.65	0	
				1	81	16.88	16.50			16.81	16.45	0	
				1	160	16.66	15.99			16.77	16.60	0	
				81	0	16.57	16.65			16.28	16.66	0	
				81	41	16.93	16.46			16.66	16.47	0	
				81	81	16.01	16.15			16.66	16.64	0	
				162	0	16.74	16.39			16.67	16.40	0	
				16QAM	1	1	16.47	16.38			16.14	16.73	0
				64QAM	1	1	16.30	16.68			15.94	16.75	0
			256QAM	1	1	16.41	16.54			16.00	16.57	0	
CP	QPSK	1	1	16.23	16.48			16.00	16.68	0			

## NR TDD Band n77\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]	
						649000	654336			658334		663000
						3750	3804.99			3875.01		3945
						MHz	MHz			MHz	MHz	
70 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.21	16.57			15.72	16.45	0
				1	95	16.13	16.28			16.59	15.75	0
				1	187	16.61	15.80			16.66	16.63	0
				90	0	16.42	16.63			16.16	16.31	0
				90	50	16.18	16.38			16.67	16.45	0
				90	99	16.82	16.05			16.15	16.62	0
			180	0	16.82	16.43			16.59	16.58	0	
			QPSK	1	1	16.30	16.57			15.80	16.40	0
				1	95	16.91	16.46			16.72	16.45	0
				1	187	16.75	15.94			16.71	16.70	0
				90	0	16.41	16.62			16.19	16.64	0
				90	50	16.91	16.37			16.69	16.53	0
				90	99	16.13	15.96			16.25	16.26	0
			180	0	16.80	16.40			16.62	16.47	0	
			16QAM	1	1	16.33	16.12			15.84	16.42	0
			64QAM	1	1	16.15	16.37			15.92	16.10	0
			256QAM	1	1	16.18	16.50			15.77	16.30	0
CP	QPSK	1	1	16.25	16.50			15.82	16.45	0		

## NR TDD Band n77\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]	
						649334		656000		662666		
						3740.01		3840		3939.99		
						MHz	MHz			MHz	MHz	
80 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.41		16.26		16.54		0
				1	109	16.99		15.98		16.54		0
				1	215	16.59		16.68		16.55		0
				108	0	16.51		16.03		16.68		0
				108	55	16.00		16.06		16.63		0
				108	109	16.67		16.25		16.24		0
				216	0	16.93		15.98		16.58		0
			QPSK	1	1	16.37		16.32		16.52		0
				1	109	16.97		16.03		16.66		0
				1	215	16.63		16.65		16.63		0
				108	0	16.53		16.06		16.71		0
				108	55	17.02		16.07		16.64		0
				108	109	16.01		16.40		15.84		0
			216	0	16.94		15.98		16.57		0	
			16QAM	1	1	16.42		16.38		16.58		0
			64QAM	1	1	16.52		16.24		16.27		0
			256QAM	1	1	16.46		16.22		16.53		0
CP	QPSK	1	1	16.38		16.33		15.66		0		

## NR TDD Band n77\_ 90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]	
						649668		656000		662332		
						3745.02		3840		3934.98		
						MHz		MHz		MHz		
90 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.26		16.40		16.73		0
				1	123	16.92		16.00		16.63		0
				1	243	16.78		16.66		16.41		0
				120	0	16.49		16.38		16.70		0
				120	63	16.87		16.00		16.73		0
				120	125	16.68		16.45		16.11		0
			243	0	16.16		16.26		16.66		0	
			QPSK	1	1	16.16		16.39		16.75		0
				1	123	16.82		16.03		16.78		0
				1	243	16.74		16.73		16.52		0
				120	0	16.49		16.07		16.74		0
				120	63	16.92		16.04		16.75		0
				120	125	16.15		16.14		16.45		0
			243	0	16.85		15.98		16.67		0	
			16QAM	1	1	16.38		16.61		16.78		0
			64QAM	1	1	16.25		16.13		16.14		0
			256QAM	1	1	16.22		16.42		16.81		0
			CP	QPSK	1	1	16.22		15.60		16.77	

## NR TDD Band n77\_ 100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]	
						650000				662000		
						3750				3930		
						MHz				MHz		
100 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	16.45				16.64		0
				1	137	16.90				15.95		0
				1	271	16.55				16.61		0
				135	0	15.92				16.62		0
				135	69	16.84				15.90		0
				135	138	16.56				16.46		0
			270	0	16.81				16.77		0	
			QPSK	1	1	16.33				16.68		0
				1	137	16.90				16.82		0
				1	271	16.56				<b>16.92</b>		0
				135	0	16.65				<b>16.91</b>		0
				135	69	16.90				16.80		0
				135	138	16.03				16.28		0
			270	0	16.81				16.73		0	
			16QAM	1	1	16.44				16.67		0
			64QAM	1	1	16.17				16.13		0
			256QAM	1	1	16.49				16.69		0
			CP	QPSK	1	1	16.42				16.81	



## [NR TDD Band n77 DoD Conducted Power\_Free (RSI 0), RCV (RSI 1), Hotspot (RSI 2)\_ Sub 3]

## NR TDD Band n77 DoD\_10 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630334	633334	636332	
						3445.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	30	DFT-s	pi/2 BPSK	1	1	16.62	16.44	16.44	0
				1	12	16.69	16.53	16.55	0
				1	22	16.64	16.45	16.42	0
				12	0	16.70	16.50	16.50	0
				12	6	16.71	16.49	16.52	0
				12	12	16.71	16.48	16.50	0
			24	0	16.72	16.50	16.51	0	
			QPSK	1	1	16.72	16.40	16.52	0
				1	12	16.65	16.39	16.50	0
				1	22	16.64	16.36	16.47	0
				12	0	16.75	16.54	16.56	0
				12	6	16.74	16.51	16.52	0
				12	12	16.74	16.52	16.51	0
			24	0	16.76	16.52	16.51	0	
			16QAM	1	1	16.80	16.61	16.64	0
			64QAM	1	1	16.73	16.54	16.54	0
			256QAM	1	1	16.70	16.46	16.44	0
			CP	QPSK	1	1	16.65	16.46	16.49

## NR TDD Band n77 DoD\_15 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630500	633334	636166	
						3457.5 MHz	3500.01 MHz	3542.49 MHz	
15 MHz	30	DFT-s	pi/2 BPSK	1	1	16.67	16.44	16.38	0
				1	18	16.63	16.39	16.38	0
				1	36	16.65	16.42	16.40	0
				18	0	16.77	16.51	16.49	0
				18	9	16.77	16.52	16.49	0
				18	18	16.76	16.50	16.47	0
			36	0	16.79	16.49	16.50	0	
			QPSK	1	1	16.78	16.53	16.46	0
				1	18	16.72	16.44	16.35	0
				1	36	16.72	16.48	16.36	0
				18	0	16.82	16.57	16.53	0
				18	9	16.79	16.52	16.50	0
				18	18	16.79	16.53	16.50	0
			36	0	16.81	16.52	16.52	0	
			16QAM	1	1	16.86	16.59	16.45	0
			64QAM	1	1	16.84	16.62	16.53	0
			256QAM	1	1	16.65	16.43	16.39	0
			CP	QPSK	1	1	16.72	16.47	16.43

## NR TDD Band n77 DoD\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630668	633334	636000	
						3460.02 MHz	3500.01 MHz	3540 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	16.72	16.45	16.32	0
				1	26	16.73	16.41	16.38	0
				1	49	16.66	16.41	16.37	0
				25	0	16.83	16.50	16.42	0
				25	13	16.82	16.50	16.47	0
				25	26	16.77	16.49	16.45	0
			QPSK	50	0	16.83	16.52	16.48	0
				1	1	16.84	16.54	16.39	0
				1	26	16.80	16.46	16.44	0
				1	49	16.72	16.45	16.42	0
				25	0	16.88	16.56	16.48	0
				25	13	16.84	16.52	16.49	0
			16QAM	25	26	16.80	16.51	16.48	0
				50	0	16.84	16.53	16.49	0
				1	1	16.85	16.53	16.48	0
				1	1	16.94	16.56	16.47	0
				1	1	16.74	16.44	16.27	0
				1	1	16.83	16.47	16.34	0
CP	QPSK	1	1	16.83	16.47	16.34	0		

## NR TDD Band n77 DoD\_20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630834	633334	635834	
						3462.51MHz	3500.01MHz	3537.51MHz	
25 MHz	30	DFT-s	pi/2 BPSK	1	1	16.78	16.45	16.24	0
				1	32	16.76	16.45	16.35	0
				1	63	16.64	16.39	16.31	0
				32	0	16.89	16.52	16.34	0
				32	17	16.84	16.50	16.40	0
				32	33	16.78	16.48	16.40	0
			QPSK	64	0	16.86	16.51	16.41	0
				1	1	16.89	16.52	16.32	0
				1	32	16.80	16.46	16.35	0
				1	63	16.69	16.46	16.36	0
				32	0	16.94	16.57	16.39	0
				32	17	16.87	16.52	16.42	0
			16QAM	32	33	16.80	16.50	16.44	0
				64	0	16.86	16.52	16.42	0
				1	1	17.01	16.57	16.39	0
				1	1	16.95	16.57	16.39	0
				1	1	16.80	16.50	16.30	0
				1	1	16.86	16.52	16.29	0
CP	QPSK	1	1	16.86	16.52	16.29	0		

## NR TDD Band n77 DoD\_30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631000	633334	635666	
						3465 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	16.58	16.45	16.44	0
				1	39	16.67	16.50	16.57	0
				1	76	16.50	16.38	16.41	0
				36	0	16.68	16.53	16.55	0
				36	21	16.65	16.51	16.57	0
				36	42	16.59	16.48	16.55	0
			QPSK	75	0	16.68	16.50	16.58	0
				1	1	16.57	16.48	16.53	0
				1	39	16.55	16.51	16.55	0
				1	76	16.41	16.40	16.45	0
				36	0	16.72	16.58	16.59	0
				36	21	16.67	16.52	16.58	0
			16QAM	36	42	16.62	16.50	16.58	0
				75	0	16.67	16.52	16.57	0
				1	1	16.74	16.60	16.56	0
			64QAM	1	1	16.69	16.60	16.52	0
				1	1	16.58	16.46	16.45	0
			256QAM	1	1	16.58	16.46	16.45	0
CP	QPSK	1	1	16.56	16.51	16.49	0		

## NR TDD Band n77 DoD\_40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631334		635332	
						3470.01 MHz		3529.98 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	16.73		16.34	0
				1	53	16.67		16.40	0
				1	104	16.52		16.36	0
				50	0	16.82		16.44	0
				50	28	16.75		16.45	0
				50	56	16.65		16.49	0
			QPSK	100	0	16.75		16.45	0
				1	1	16.74		16.40	0
				1	53	16.63		16.41	0
				1	104	16.49		16.38	0
				50	0	16.85		16.49	0
				50	28	16.75		16.47	0
			16QAM	50	56	16.67		16.52	0
				100	0	16.74		16.46	0
				1	1	16.89		16.49	0
			64QAM	1	1	16.95		16.56	0
				1	1	16.73		16.44	0
			256QAM	1	1	16.73		16.44	0
CP	QPSK	1	1	16.78		16.39	0		

## NR TDD Band n77 DoD\_50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631668		635000	
						3475.02 MHz		3525 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	16.58		16.25	0
				1	67	16.49		16.28	0
				1	131	16.41		16.35	0
				64	0	16.63		16.32	0
				64	35	16.57		16.35	0
				64	69	16.54		16.40	0
				128	0	16.59		16.35	0
			QPSK	1	1	16.53		16.30	0
				1	67	16.45		16.28	0
				1	131	16.36		16.33	0
				64	0	16.66		16.35	0
				64	35	16.58		16.36	0
				64	69	16.55		16.42	0
				128	0	16.59		16.34	0
		16QAM	1	1	16.76		16.54	0	
		64QAM	1	1	16.67		16.35	0	
		256QAM	1	1	16.63		16.23	0	
		CP	QPSK	1	1	16.60		16.21	0

## NR TDD Band n77 DoD\_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01 MHz		
60 MHz	30	DFT-s	pi/2 BPSK	1	1	16.46		0	
				1	81	16.50		0	
				1	160	16.28		0	
				81	0	16.52		0	
				81	41	16.49		0	
				81	81	16.42		0	
				162	0	16.47		0	
			QPSK	1	1	16.50		0	
				1	81	16.51		0	
				1	160	16.28		0	
				81	0	16.56		0	
				81	41	16.50		0	
				81	81	16.45		0	
				162	0	16.48		0	
		16QAM	1	1	16.57		0		
		64QAM	1	1	16.68		0		
		256QAM	1	1	16.52		0		
		CP	QPSK	1	1	16.52		0	

## NR TDD Band n77 DoD\_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]	
							633334			
70 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	95				16.49	0
				1	187				16.34	0
				90	0				16.27	0
				90	50				16.50	0
				90	99				16.45	0
			180	0				16.38	0	
			180	0				16.43	0	
			1	1				16.55	0	
			1	95				16.46	0	
			1	187				16.33	0	
			90	0				16.53	0	
			90	50				16.47	0	
			90	99				16.40	0	
			180	0				16.45	0	
			16QAM	1	1			16.66	0	
			64QAM	1	1			16.65	0	
			256QAM	1	1			16.50	0	
		CP	QPSK	1	1		16.52	0		

## NR TDD Band n77 DoD\_80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]	
							633334			
80 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	109				16.54	0
				1	215				16.40	0
				108	0				16.32	0
				108	55				16.54	0
				108	109				16.48	0
			108	109				16.39	0	
			216	0				16.47	0	
			1	1				16.60	0	
			1	109				16.43	0	
			1	215				16.32	0	
			108	0				16.55	0	
			108	55				16.49	0	
			108	109				16.42	0	
			216	0				16.45	0	
			16QAM	1	1			16.63	0	
			64QAM	1	1			16.72	0	
			256QAM	1	1			16.59	0	
		CP	QPSK	1	1		16.54	0		

## NR TDD Band n77 DoD\_90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]	
							633334			
90 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	123				16.56	0
				1	243				16.35	0
				120	0				16.31	0
				120	63				16.51	0
				120	125				16.44	0
			QPSK	243	0				16.35	0
				1	1				16.42	0
				1	123				16.68	0
				1	243				16.45	0
				120	0				16.37	0
				120	63				16.56	0
			16QAM	120	125				16.47	0
				120	0				16.39	0
				243	0				16.39	0
				1	1				16.43	0
				1	1				16.71	0
			CP	64QAM	1	1			16.75	0
				256QAM	1	1			16.65	0
QPSK	1	1				16.60	0			

## NR TDD Band n77 DoD\_100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]	
							633334			
100 MHz	30	DFT-s	pi/2 BPSK	1	1		3500.01 MHz		0	
				1	137				16.67	0
				1	271				16.42	0
				135	0				16.35	0
				135	69				16.59	0
				135	138				16.46	0
			QPSK	270	0				16.41	0
				1	1				16.45	0
				1	137				<b>16.74</b>	0
				1	271				16.48	0
				135	0				16.39	0
				135	69				16.61	0
			16QAM	135	138				16.48	0
				135	0				16.42	0
				270	0				16.42	0
				1	1				16.46	0
				1	1				16.82	0
			CP	64QAM	1	1			16.73	0
				256QAM	1	1			16.71	0
QPSK	1	1				16.70	0			

### 11.4.3 NR Band SRS Conducted Power

[NR TDD Band n41 SRS Conducted Power]

*P<sub>max</sub>*

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ *P<sub>max</sub>*\_ Antenna: Sub 1, SRS1

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	15.72		0

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ *P<sub>max</sub>*\_ Antenna: Main 3, SRS2

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	18.30		0

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ *P<sub>max</sub>*\_ Antenna: Sub 4, SRS3

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	19.85		0

Free(RSI 0), RCV(RSI 1), Hotspot(RSI 2)

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ Free, RCV, Hotspot\_ Antenna: Sub 1, SRS1

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	11.80		0

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ Free, RCV, Hotspot\_ Antenna: Main 3, SRS2

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	13.68		0

NR TDD Band n41\_ 100 MHz Bandwidth Conducted Power\_ Free, RCV, Hotspot\_ Antenna: Sub 4, SRS3

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]		MPR [dB]
						518598	2592.99 MHz	
100MHz	30	DFT-s	QPSK	1	137	14.44		0

## 11.5 WIFI Conducted Power measurement method

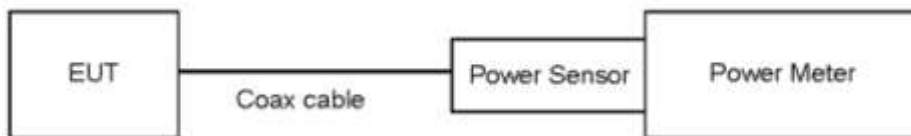
### Un-Licensed Bands (DTS Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 558074 v05 - Section 8.3.2.3 - ANSI 63.10-2013 - Section 11.9.2.3

#### Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add  $10 \log (1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

#### Test setup



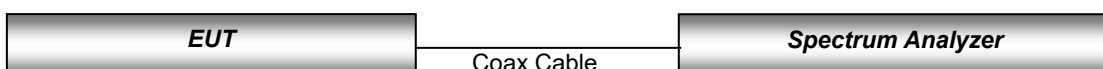
### Un-Licensed Bands (NII Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 789033 D02 v02r01 - Section E.3.a

#### Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add  $10 \log (1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

#### Test setup





## 11.5.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]	
			WIFI 1	MIMO
802.11b	2 412	1	17.42	20.53
	2 437	6	16.51	19.78
	2 462	11	17.10	20.35
	2 467	12	7.31	10.53
	2 472	13	-0.34	3.18
802.11g	2 412	1	15.66	18.66
	2 437	6	14.73	18.03
	2 462	11	13.93	17.51
	2 467	12	7.46	10.74
	2 472	13	-0.17	3.38
802.11n (HT20)	2 412	1	14.85	18.68
	2 437	6	13.78	18.05
	2 462	11	13.99	17.58
	2 467	12	7.42	10.81
	2 472	13	-0.18	3.45
802.11ax (HE20)	2 412	1	15.67	18.30
	2 437	6	14.72	18.02
	2 462	11	15.44	18.17
	2 467	12	7.28	10.11
	2 472	13	0.62	3.47

## 11.5.2 IEEE 802.11 (2.4 GHz) with RCV active Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]	
			WIFI 1	MIMO
802.11b	2 412	1	15.41	18.18
	2 437	6	14.04	17.53
	2 462	11	15.17	18.23
	2 467	12	7.31	10.53
	2 472	13	-0.34	3.18
802.11g	2 412	1	15.29	18.29
	2 437	6	14.07	17.53
	2 462	11	15.11	18.19
	2 467	12	7.46	10.74
	2 472	13	-0.17	3.38
802.11n (HT20)	2 412	1	15.79	18.54
	2 437	6	14.60	17.80
	2 462	11	15.62	18.45
	2 467	12	7.42	10.81
	2 472	13	-0.18	3.45
802.11ax (HE20)	2 412	1	15.70	18.45
	2 437	6	14.44	17.69
	2 462	11	15.47	18.32
	2 467	12	7.28	10.11
	2 472	13	0.62	3.47

## 11.5.3 IEEE 802.11 (5 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]	
			WIFI 2	MIMO
802.11a (20 MHz BW)	5 180	36	15.25	18.00
	5 200	40	15.33	18.15
	5 220	44	15.31	18.11
	5 240	48	15.61	18.27
	5 260	52	15.65	18.43
	5 280	56	15.64	18.41
	5 300	60	15.86	18.71
	5 320	64	15.88	18.51
	5 500	100	15.40	18.14
	5 600	120	15.61	18.26
	5 620	124	15.52	18.21
	5 720	144	15.30	17.99
	5 745	149	15.38	18.15
	5 785	157	15.31	18.28
	5 825	165	15.34	18.40

#### 11.5.4 IEEE 802.11(5 GHz) with RCV active Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average Conducted Power [dBm]	
			WIFI 2	MIMO
802.11ac (80 MHz BW)	5 210	42	11.76	14.41
	5 290	58	12.12	14.18
	5 530	106	11.43	14.66
	5 610	122	11.89	15.15
	5 690	138	11.35	14.70
	5 775	155	11.61	15.03

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission mode with the same maximum output power specification, powers were measured for the largest channel Bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel Bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-Band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-Band channels, due to an even number of channels, both channels were measured.

#### Test Configuration



## 11.6 Bluetooth Maximum Conducted Power

### 11.6.1 Bluetooth Maximum Conducted Power

The Burst Averaged-conducted power

Mode	Channel	Max. Average Conducted Power [dBm]
		Ant.1
DH5	0	16.55
	39	16.71
	78	16.83
2-DH5	0	11.53
	39	11.86
	78	12.05
3-DH5	0	11.54
	39	11.85
	78	12.04

### 11.6.2 Bluetooth LE Maximum Conducted Power

BT LE Averaged - Conducted Power

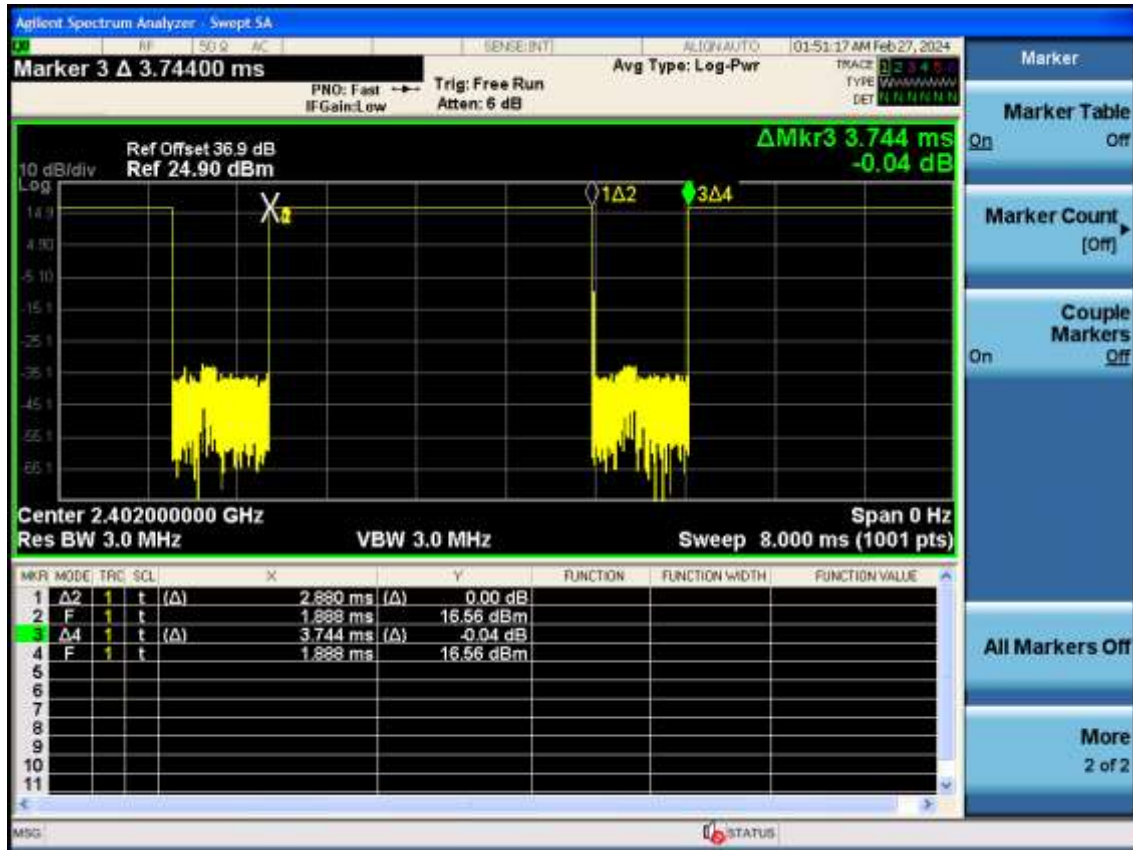
Mode	Channel	Max. Average Conducted Power [dBm]
		Ant.1
LE 1M 37 Pakcet	0	8.61
	19	8.90
	39	8.75
LE 1M 255 Pakcet	0	8.59
	19	8.73
	39	8.66
LE 2M 37 Pakcet	0	8.56
	19	8.85
	39	8.76
LE 2M 255 Pakcet	0	8.54
	19	8.84
	39	8.71
LE 125K 37 Pakcet	0	8.53
	19	8.75
	39	8.62
LE 125K 255 Pakcet	0	8.58
	19	8.73
	39	8.69
LE 500K 37 Pakcet	0	8.57
	19	8.88
	39	8.73
LE 500K 255 Pakcet	0	8.57
	19	8.70
	39	8.61

Per October 2016 TCB Workshop Notes:

When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.

Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth.

## Bluetooth DH 5 Mode



## Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.880 / 3.744) = 0.769 \text{ (DH5)}$$

## BT DH5 Maximum Duty Factor:

The theoretical maximum duty cycle defined by chipset manufacturer is 76.56%. In the ideal theory Duty Cycle, the test error tolerance [1%] of the test equipment was considered and applied to the measurement results. The duty cycle of DH5 measured by DUT was 76.9%, and the duty cycle was compensated by applying test error tolerance 1%. BTLE Mode was tested under the Worst Duty cycle condition in FTM Mode. For more information on BT, please refer to the technical description document.

## 12. System Verification

### 12.1 Tissue Verification

The head simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	Target Conductivity $\sigma$ (S/m)	Target Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
03/18/2024	20.0	750H	705	0.866	43.720	0.889	42.174	- 2.59	+ 3.67
			710	0.871	43.643	0.890	42.148	- 2.13	+ 3.55
			750	0.915	43.040	0.893	41.940	+ 2.46	+ 2.62
02/23/2024	20.4	835H	820	0.913	41.435	0.899	41.577	+ 1.56	- 0.34
			835	0.933	41.199	0.900	41.500	+ 3.67	- 0.73
			850	0.943	40.891	0.916	41.500	+ 2.95	- 1.47
02/20/2024	19.8	835H	820	0.903	41.668	0.899	41.577	+ 0.44	+ 0.22
			835	0.922	41.406	0.900	41.500	+ 2.44	- 0.23
			850	0.933	41.128	0.916	41.500	+ 1.86	- 0.90
03/19/2024	19.8	835H	820	0.915	40.995	0.899	41.577	+ 1.78	- 1.40
			835	0.931	40.695	0.900	41.500	+ 3.44	- 1.94
			850	0.946	40.467	0.916	41.500	+ 3.28	- 2.49
02/21/2024	19.4	1800H	1 710	1.329	41.560	1.348	40.144	- 1.41	+ 3.53
			1 750	1.370	41.403	1.371	40.080	- 0.07	+ 3.30
			1 800	1.425	41.170	1.400	40.000	+ 1.79	+ 2.93
02/22/2024	20.0	1800H	1 710	1.312	41.560	1.348	40.144	- 2.67	+ 3.53
			1 750	1.353	41.405	1.371	40.080	- 1.31	+ 3.31
			1 800	1.405	41.171	1.400	40.000	+ 0.36	+ 2.93
03/07/2024	21.3	1800H	1 710	1.293	41.530	1.348	40.144	- 4.08	+ 3.45
			1 750	1.343	41.354	1.371	40.080	- 2.04	+ 3.18
			1 800	1.355	41.133	1.400	40.000	- 3.21	+ 2.83
02/24/2024	20.4	1900H	1 850	1.346	39.257	1.400	40.000	- 3.86	- 1.86
			1 900	1.391	39.032	1.400	40.000	- 0.64	- 2.42
			1 910	1.399	38.976	1.400	40.000	- 0.07	- 2.56
02/22/2024	21.9	1900H	1 850	1.354	39.108	1.400	40.000	- 3.29	- 2.23
			1 900	1.403	38.870	1.400	40.000	+ 0.21	- 2.83
			1 910	1.408	38.807	1.400	40.000	+ 0.57	- 2.98
02/21/2024	21.0	1900H	1 850	1.409	40.573	1.400	40.000	+ 0.64	+ 1.43
			1 900	1.462	40.411	1.400	40.000	+ 4.43	+ 1.03
			1 910	1.469	40.339	1.400	40.000	+ 4.93	+ 0.85
03/06/2024	20.3	1900H	1 850	1.345	39.167	1.400	40.000	- 3.93	- 2.08
			1 900	1.392	38.953	1.400	40.000	- 0.57	- 2.62
			1 910	1.401	38.907	1.400	40.000	+ 0.07	- 2.73
02/22/2024	19.9	2450H	2 400	1.770	38.621	1.756	39.290	+ 0.80	- 1.70
			2 450	1.827	38.421	1.800	39.200	+ 1.50	- 1.99
			2 500	1.885	38.250	1.855	39.140	+ 1.62	- 2.27
02/23/2024	20.8	2450H	2 400	1.756	38.418	1.756	39.290	+ 0.00	- 2.22
			2 450	1.827	38.221	1.800	39.200	+ 1.50	- 2.50
			2 500	1.885	38.052	1.855	39.140	+ 1.62	- 2.78
02/13/2024	21.0	2600H	2 500	1.933	38.251	1.855	39.140	+ 4.20	- 2.27
			2 600	2.033	37.819	1.964	39.010	+ 3.51	- 3.05
			2 690	2.119	37.386	2.062	38.894	+ 2.76	- 3.88

Table for Head Tissue Verification

Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	Target Conductivity $\sigma$ (S/m)	Target Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
02/21/2024	20.8	5180H-5320H	5180	4.553	36.169	4.635	36.010	- 1.77	+ 0.44
			5250	4.685	36.016	4.706	35.930	- 0.45	+ 0.24
			5280	4.728	36.002	4.737	35.894	- 0.19	+ 0.30
			5320	4.767	36.011	4.778	35.846	- 0.23	+ 0.46
02/22/2024	20.2	5500H-5600H	5500	4.991	35.807	4.963	35.640	+ 0.56	+ 0.47
			5600	5.102	35.550	5.065	35.530	+ 0.73	+ 0.06
			5750	5.307	35.526	5.219	35.360	+ 1.69	+ 0.47
02/23/2024	22.0	5750H-5825H	5750	5.314	35.530	5.219	35.360	+ 1.82	+ 0.48
			5800	5.256	35.551	5.270	35.300	- 0.27	+ 0.71
			5825	5.234	35.502	5.296	35.270	- 1.17	+ 0.66

## - 5G NR SUB 6

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	Target Conductivity $\sigma$ (S/m)	Target Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
02/27/2024	19.8	835H	820	0.910	42.647	0.899	41.577	+ 1.22	+ 2.57
			835	0.925	42.442	0.900	41.500	+ 2.78	+ 2.27
			850	0.941	42.241	0.916	41.500	+ 2.73	+ 1.79
02/29/2024	20.4	1800H	1710	1.320	39.671	1.348	40.144	- 2.08	- 1.18
			1750	1.356	39.571	1.371	40.080	- 1.09	- 1.27
			1800	1.404	39.419	1.400	40.000	+ 0.29	- 1.45
02/14/2024	21.8	2 600H	2 500	1.932	38.246	1.855	39.140	+ 4.15	- 2.28
			2 600	2.032	37.813	1.964	39.010	+ 3.46	- 3.07
			2 690	2.119	37.367	2.062	38.894	+ 2.76	- 3.93
02/29/2024	22.1	2 600H	2 500	1.884	39.278	1.855	39.140	+ 1.56	+ 0.35
			2 600	2.008	39.144	1.964	39.010	+ 2.24	+ 0.34
			2 690	2.114	38.337	2.062	38.894	+ 2.52	- 1.43
03/04/2024	20.0	2 600H	2 500	1.883	39.274	1.855	39.140	+ 1.51	+ 0.34
			2 600	2.008	39.137	1.964	39.010	+ 2.24	+ 0.33
			2 690	2.115	38.340	2.062	38.894	+ 2.57	- 1.42
03/05/2024	20.5	2 600H	2 500	1.883	39.269	1.855	39.140	+ 1.51	+ 0.33
			2 600	2.008	39.136	1.964	39.010	+ 2.24	+ 0.32
			2 690	2.114	38.332	2.062	38.894	+ 2.52	- 1.44
02/15/2024	19.8	3500H	3400	2.847	38.254	2.810	38.040	+ 1.32	+ 0.56
			3500	2.917	38.062	2.913	37.930	+ 0.14	+ 0.35
			3550	2.958	37.987	2.964	37.870	- 0.20	+ 0.31
02/15/2024	19.8	3700H-3970	3700	3.090	37.833	3.118	37.700	- 0.90	+ 0.35
			3750	3.129	37.810	3.169	37.640	- 1.26	+ 0.45
			3800	3.167	37.782	3.220	37.590	- 1.65	+ 0.51
			3900	3.234	37.623	3.233	37.470	+ 0.03	+ 0.41
			3970	3.294	37.490	3.394	37.390	- 2.95	+ 0.27

## - Extremity

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	Target Conductivity $\sigma$ (S/m)	Target Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
03/04/2024	21.2	13H	12	0.740	53.655	0.750	55.000	- 1.33	- 2.45
			13	0.748	53.720	0.750	55.000	- 0.27	- 2.33
			14	0.756	53.790	0.750	55.000	- 0.80	- 2.20
02/21/2024	20.8	5180H-5320H	5180	4.553	36.169	4.635	36.010	- 1.77	+ 0.44
			5250	4.685	36.016	4.706	35.930	- 0.45	+ 0.24
			5280	4.728	36.002	4.737	35.894	- 0.19	+ 0.30
			5320	4.767	36.011	4.778	35.846	- 0.23	+ 0.46
02/22/2024	20.2	5500H-5600H	5500	4.991	35.807	4.963	35.640	+ 0.56	+ 0.47
			5600	5.102	35.550	5.065	35.530	+ 0.73	+ 0.06
			5750	5.307	35.526	5.219	35.360	+ 1.69	+ 0.47



## 12.2 System Verification

Input Power: 50 mW

Freq.	Date	Probe	Dipole	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR <sub>1g</sub> (SPEAG)	50mW Measured SAR <sub>1g</sub>	1 W Normalized SAR <sub>1g</sub>	Deviation	Limit
[MHz]		(S/N)	(S/N)		[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
750	03/18/2024	7679	1014	Head	20.1	20.0	8.59	0.444	8.88	+ 3.38	± 10
835	02/23/2024	7681	4d165	Head	20.5	20.4	9.74	0.521	10.42	+ 6.98	± 10
835	02/20/2024	7681		Head	19.9	19.8	9.74	0.517	10.34	+ 6.16	± 10
835	03/19/2024	7679		Head	19.9	19.8	9.74	0.505	10.10	+ 3.70	± 10
1 800	02/21/2024	7681		2d015	Head	19.6	19.4	37.8	1.78	35.6	- 5.82
1 800	02/22/2024	7679	Head		20.1	20.0	37.8	1.82	36.4	- 3.70	± 10
1 800	03/07/2024	7732	Head		21.5	21.3	37.8	1.78	35.6	- 5.82	± 10
1 900	02/24/2024	7681	5d032	Head	21.1	20.9	38.9	1.94	38.8	- 0.26	± 10
1 900	02/22/2024	7681		Head	22.0	21.9	38.9	1.96	39.2	+ 0.77	± 10
1 900	02/21/2024	7679		Head	21.1	21.0	38.9	2.03	40.6	+ 4.37	± 10
1 900	03/06/2024	7732		Head	20.6	20.3	38.9	2.00	40.0	+ 2.83	± 10
2 450	02/22/2024	7654	1049	Head	20.0	19.9	52.7	2.50	50.0	- 5.12	± 10
2 450	02/23/2024	7654		Head	20.9	20.8	52.7	2.48	49.6	- 5.88	± 10
2 600	02/13/2024	7622	1106	Head	21.1	21.0	55.6	2.68	53.6	-3.60	± 10
5 250	02/21/2024	7751	1317	Head	20.9	20.8	78.8	3.97	79.4	+ 0.76	± 10
5 600	02/22/2024	7751		Head	20.3	20.2	81.2	4.26	85.2	+ 4.93	± 10
5 750	02/23/2024	7751		Head	22.1	22.0	77.4	4.00	80.0	+ 3.36	± 10

## 5G NR SUB 6

Input Power: 50 mW

Freq.	Date	Probe	Dipole	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR <sub>1g</sub> (SPEAG)	50mW Measured SAR <sub>1g</sub>	1 W Normalized SAR <sub>1g</sub>	Deviation	Limit
[MHz]		(S/N)	(S/N)		[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
835	03/11/2024	7370	4d165	Head	19.9	19.8	9.74	0.503	10.06	+ 3.29	± 10
1 800	02/29/2024	7679	2d015	Head	20.5	20.4	37.8	1.82	36.40	- 3.70	± 10
2 600	02/14/2024	7622	1106	Head	21.8	21.8	55.6	2.68	53.60	-3.60	± 10
2 600	02/29/2024	3903		Head	22.2	22.1	55.6	2.72	54.40	- 2.16	± 10
2 600	03/04/2024	3903		Head	19.9	20.0	55.6	2.63	52.60	- 5.40	± 10
2 600	03/05/2024	3903		Head	20.6	20.5	55.6	2.72	54.40	- 2.16	± 10
3 500	02/22/2024	7622	1132	Head	19.9	19.8	65.1	3.51	70.20	+ 7.83	± 10
3 700	02/22/2024	7622	1105	Head	19.9	19.8	67.1	3.54	70.80	+ 5.51	± 10
3 900	02/22/2024	7622	1019	Head	19.9	19.8	69.7	3.55	71.00	+ 1.87	± 10

**System Verification Results – Extremity SAR**

Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR <sub>10g</sub> (SPEAG)	50mW Measured SAR <sub>10g</sub>	1 W Normalized SAR <sub>10g</sub>	Deviation	Limit
[MHz]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
13	03/04/2024	3076	1016	Head	21.3	21.2	0.353	0.018	0.36	+ 1.98	± 10
5 250	02/21/2024	7751	1317	Head	20.9	20.8	22.6	1.13	22.6	+ 0.00	± 10
5 600	02/22/2024	7751		Head	20.3	20.2	23.0	1.20	24.0	+ 4.35	± 10

**12.3 System Verification Procedure**

SAR measurement was prior to assessment; the system is verified to the ± 10 % of the specifications at each frequency Band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

### 13. SAR Test Data Summary

#### 13.1 SAR Measurement Results

GSM 850 Head SAR													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
836.6	190	GSM Voice	Main1	34.0	33.69	-0.10	Left Cheek	1:8.3		0.166	1.074	0.178	-
836.6	190	GSM Voice	Main1	34.0	33.69	-0.09	Left Tilt	1:8.3		0.086	1.074	0.092	-
836.6	190	GSM Voice	Main1	34.0	33.69	0.05	Right Cheek	1:8.3		0.184	1.074	0.198	-
836.6	190	GSM Voice	Main1	34.0	33.69	0.05	Right Tilt	1:8.3		0.088	1.074	0.095	-
836.6	190	GPRS 4Tx	Main1	29.5	29.33	-0.09	Left Cheek	1:2.07		0.290	1.040	0.302	-
836.6	190	GPRS 4Tx	Main1	29.5	29.33	0.05	Left Tilt	1:2.07		0.155	1.040	0.161	-
836.6	190	GPRS 4Tx	Main1	29.5	29.33	0.14	Right Cheek	1:2.07		<b>0.296</b>	1.040	<b>0.308</b>	A1
836.6	190	GPRS 4Tx	Main1	29.5	29.33	-0.18	Right Tilt	1:2.07		0.180	1.040	0.187	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram					

GSM 1900 Head SAR													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1 880	661	GSM	Main2	31.0	30.80	0.15	Left Touch	1:8.3		0.086	1.047	0.090	-
1 880	661	GSM	Main2	31.0	30.80	-0.11	Left Tilt	1:8.3		0.053	1.047	0.055	-
1 880	661	GSM	Main2	31.0	30.80	0.19	Right Touch	1:8.3		0.069	1.047	0.072	-
1 880	661	GSM	Main2	31.0	30.80	0.10	Right Tilt	1:8.3		0.049	1.047	0.051	-
1850.2	512	GPRS 4Tx	Main2	27.5	27.00	0.13	Left Touch	1:2.07		<b>0.151</b>	1.122	<b>0.169</b>	A2
1 850.2	512	GPRS 4Tx	Main2	27.5	27.00	-0.08	Left Tilt	1:2.07		0.109	1.122	0.122	-
1 850.2	512	GPRS 4Tx	Main2	27.5	27.00	0.17	Right Touch	1:2.07		0.135	1.122	0.151	-
1 850.2	512	GPRS 4Tx	Main2	27.5	27.00	-0.14	Right Tilt	1:2.07		0.093	1.122	0.104	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram					

UMTS Band 5 Head SAR													
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
836.6	4183	RMC	Main1	25.0	24.48	-0.17	Left Touch	1:1		0.169	1.127	0.190	-
836.6	4183	RMC	Main1	25.0	24.48	-0.13	Left Tilt	1:1		0.075	1.127	0.085	-
836.6	4183	RMC	Main1	25.0	24.48	-0.01	Right Touch	1:1		<b>0.211</b>	1.127	<b>0.238</b>	A3
836.6	4183	RMC	Main1	25.0	24.48	-0.15	Right Tilt	1:1		0.102	1.127	0.115	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram					

**UMTS Band 4 Head SAR**

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1732.4	1412	RMC	Main2	24.0	23.05	0.09	Left Touch	1:1		<b>0.116</b>	1.245	<b>0.144</b>	A4
1732.4	1412	RMC	Main2	24.0	23.05	-0.14	Left Tilt	1:1		0.066	1.245	0.082	-
1732.4	1412	RMC	Main2	24.0	23.05	-0.08	Right Touch	1:1		0.067	1.245	0.083	-
1732.4	1412	RMC	Main2	24.0	23.05	-0.18	Right Tilt	1:1		0.086	1.245	0.107	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

**UMTS Band 2 Head SAR**

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)				(W/kg)		(W/kg)	
1880.0	9400	RMC	Main2	24.0	22.84	-0.09	Left Touch	1:1		<b>0.191</b>	1.306	<b>0.249</b>	A5
1880.0	9400	RMC	Main2	24.0	22.84	0.02	Left Tilt	1:1		0.092	1.306	0.120	-
1880.0	9400	RMC	Main2	24.0	22.84	0.10	Right Touch	1:1		0.130	1.306	0.170	-
1880.0	9400	RMC	Main2	24.0	22.84	-0.00	Right Tilt	1:1		0.120	1.306	0.157	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram						

**LTE FDD Band 2 Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	offset			(W/kg)		(W/kg)	
1900	19100	QPSK	Main2	20	24.0	23.27	0.11	Left Touch	0	1	49	1:1		0.191	1.183	0.226	-
1900	19100	QPSK	Main2	20	23.0	22.45	-0.10	Left Touch	1	50	49	1:1		0.154	1.135	0.175	-
1900	19100	QPSK	Main2	20	24.0	23.27	0.12	Left Tilt	0	1	49	1:1		0.087	1.183	0.103	-
1900	19100	QPSK	Main2	20	23.0	22.45	0.15	Left Tilt	1	50	49	1:1		0.073	1.135	0.083	-
1900	19100	QPSK	Main2	20	24.0	23.27	0.16	Right Touch	0	1	49	1:1		0.163	1.183	0.193	-
1900	19100	QPSK	Main2	20	23.0	22.45	0.01	Right Touch	1	50	49	1:1		0.136	1.135	0.154	-
1900	19100	QPSK	Main2	20	24.0	23.27	0.16	Right Tilt	0	1	49	1:1		0.130	1.183	0.154	-
1900	19100	QPSK	Main2	20	23.0	22.45	-0.04	Right Tilt	1	50	49	1:1		0.104	1.135	0.118	-
1900	19100	QPSK	Main3	20	24.0	23.13	-0.13	Left Touch	0	1	0	1:1		0.144	1.222	0.176	-
1900	19100	QPSK	Main3	20	23.0	22.18	0.19	Left Touch	1	50	25	1:1		0.110	1.208	0.133	-
1900	19100	QPSK	Main3	20	24.0	23.13	0.17	Left Tilt	0	1	0	1:1		0.063	1.222	0.077	-
1900	19100	QPSK	Main3	20	23.0	22.18	0.04	Left Tilt	1	50	25	1:1		0.049	1.208	0.059	-
1900	19100	QPSK	Main3	20	24.0	23.13	-0.08	Right Touch	0	1	0	1:1		<b>0.468</b>	1.222	<b>0.572</b>	A6
1900	19100	QPSK	Main3	20	23.0	22.18	0.04	Right Touch	1	50	25	1:1		0.348	1.208	0.420	-
1900	19100	QPSK	Main3	20	24.0	23.13	0.10	Right Tilt	0	1	0	1:1		0.174	1.222	0.213	-
1900	19100	QPSK	Main3	20	23.0	22.18	0.04	Right Tilt	1	50	25	1:1		0.125	1.208	0.151	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram										

**LTE FDD Band 12 Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.																
707.5	23095	QPSK	Main1	10	25.5	24.17	-0.17	Left Touch	0	1	0	1:1		0.096	1.358	0.130	-
707.5	23095	QPSK	Main1	10	24.5	23.18	0.14	Left Touch	1	25	0	1:1		0.078	1.355	0.106	-
707.5	23095	QPSK	Main1	10	25.5	24.17	0.15	Left Tilt	0	1	0	1:1		0.057	1.358	0.077	-
707.5	23095	QPSK	Main1	10	24.5	23.18	0.16	Left Tilt	1	25	0	1:1		0.048	1.355	0.065	-
707.5	23095	QPSK	Main1	10	25.5	24.17	0.12	Right Touch	0	1	0	1:1		<b>0.124</b>	1.358	<b>0.168</b>	A7
707.5	23095	QPSK	Main1	10	24.5	23.18	-0.11	Right Touch	1	25	0	1:1		0.103	1.355	0.140	-
707.5	23095	QPSK	Main1	10	25.5	24.17	-0.11	Right Tilt	0	1	0	1:1		0.067	1.358	0.091	-
707.5	23095	QPSK	Main1	10	24.5	23.18	0.18	Right Tilt	1	25	0	1:1		0.056	1.355	0.076	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

**LTE FDD Band 26 Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.																
831.5	26865	QPSK	Main1	15	25.5	24.28	0.18	Left Touch	0	1	0	1:1		0.117	1.324	0.155	-
831.5	26865	QPSK	Main1	15	24.5	23.31	0.13	Left Touch	1	36	0	1:1		0.111	1.315	0.146	-
831.5	26865	QPSK	Main1	15	25.5	24.28	0.16	Left Tilt	0	1	0	1:1		0.077	1.324	0.102	-
831.5	26865	QPSK	Main1	15	24.5	23.31	0.17	Left Tilt	1	36	0	1:1		0.070	1.315	0.092	-
831.5	26865	QPSK	Main1	15	25.5	24.28	-0.12	Right Touch	0	1	0	1:1		<b>0.160</b>	1.324	<b>0.212</b>	A8
831.5	26865	QPSK	Main1	15	24.5	23.31	0.14	Right Touch	1	36	0	1:1		0.130	1.315	0.171	-
831.5	26865	QPSK	Main1	15	25.5	24.28	-0.09	Right Tilt	0	1	0	1:1		0.090	1.324	0.119	-
831.5	26865	QPSK	Main1	15	24.5	23.31	-0.15	Right Tilt	1	36	0	1:1		0.076	1.315	0.100	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

**LTE TDD Band 41 (Power Class 3) Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.																
2 593	40620	QPSK	Main2	20	24.0	23.62	-0.12	Left Touch	0	1	49	1:1.58		<b>0.223</b>	1.091	<b>0.243</b>	A9
2 593	40620	QPSK	Main2	20	23.0	22.67	-0.09	Left Touch	1	50	0	1:1.58		0.192	1.079	0.207	-
2 593	40620	QPSK	Main2	20	24.0	23.62	0.11	Left Tilt	0	1	49	1:1.58		0.064	1.091	0.070	-
2 593	40620	QPSK	Main2	20	23.0	22.67	0.12	Left Tilt	1	50	0	1:1.58		0.055	1.079	0.059	-
2 593	40620	QPSK	Main2	20	24.0	23.62	0.08	Right Touch	0	1	49	1:1.58		0.130	1.091	0.142	-
2 593	40620	QPSK	Main2	20	23.0	22.67	0.11	Right Touch	1	50	0	1:1.58		0.110	1.079	0.119	-
2 593	40620	QPSK	Main2	20	24.0	23.62	0.07	Right Tilt	0	1	49	1:1.58		0.123	1.091	0.134	-
2 593	40620	QPSK	Main2	20	23.0	22.67	0.16	Right Tilt	1	50	0	1:1.58		0.107	1.079	0.115	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

**LTE FDD Band 66 Head SAR**

Frequency		Mode	Ant.	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
1745	132322	QPSK	Main2	20	24.0	23.24	-0.13	Left Touch	0	1	49	1:1		0.224	1.191	0.267	-
1745	132322	QPSK	Main2	20	23.0	22.21	0.15	Left Touch	1	50	0	1:1		0.174	1.199	0.209	-
1745	132322	QPSK	Main2	20	24.0	23.24	-0.10	Left Tilt	0	1	49	1:1		0.139	1.191	0.166	-
1745	132322	QPSK	Main2	20	23.0	22.21	-0.09	Left Tilt	1	50	0	1:1		0.104	1.199	0.125	-
1745	132322	QPSK	Main2	20	24.0	23.24	0.14	Right Touch	0	1	49	1:1		0.216	1.191	0.257	-
1745	132322	QPSK	Main2	20	23.0	22.21	0.12	Right Touch	1	50	0	1:1		0.167	1.199	0.200	-
1745	132322	QPSK	Main2	20	24.0	23.24	0.08	Right Tilt	0	1	49	1:1		0.153	1.191	0.182	-
1745	132322	QPSK	Main2	20	23.0	22.21	0.05	Right Tilt	1	50	0	1:1		0.117	1.199	0.140	-
1770	132572	QPSK	Main3	20	24.0	23.10	0.16	Left Touch	0	1	0	1:1		0.159	1.230	0.196	-
1720	132072	QPSK	Main3	20	23.0	22.12	0.01	Left Touch	1	50	0	1:1		0.156	1.225	0.191	-
1770	132572	QPSK	Main3	20	24.0	23.10	-0.08	Left Tilt	0	1	0	1:1		0.113	1.230	0.139	-
1720	132072	QPSK	Main3	20	23.0	22.12	0.10	Left Tilt	1	50	0	1:1		0.122	1.225	0.149	-
1770	132572	QPSK	Main3	20	24.0	23.10	-0.18	Right Touch	0	1	0	1:1		<b>0.309</b>	1.230	<b>0.380</b>	A10
1720	132072	QPSK	Main3	20	23.0	22.12	0.08	Right Touch	1	50	0	1:1		0.293	1.225	0.359	-
1770	132572	QPSK	Main3	20	24.0	23.10	0.08	Right Tilt	0	1	0	1:1		0.105	1.230	0.129	-
1720	132072	QPSK	Main3	20	23.0	22.12	0.16	Right Tilt	1	50	0	1:1		0.103	1.225	0.126	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram								

**NR FDD Band n5 (Cell) Head SAR**

Frequency		Mode	Ant.	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.19	Left Cheek	0	1	53	1:1		0.130	1.219	0.158	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.16	Left Cheek	0	50	28	1:1		0.126	1.236	0.156	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.10	Left Tilt	0	1	53	1:1		0.073	1.219	0.089	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.16	Left Tilt	0	50	28	1:1		0.073	1.236	0.090	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	-0.10	Right Cheek	0	1	53	1:1		0.157	1.219	0.191	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	-0.02	Right Cheek	0	50	28	1:1		<b>0.159</b>	1.236	<b>0.197</b>	A11
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.14	Right Tilt	0	1	53	1:1		0.080	1.219	0.098	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.17	Right Tilt	0	50	28	1:1		0.079	1.236	0.098	-
836.5	167300	CP QPSK	Main1	20	24.0	23.10	0.04	Right Cheek	1.5	1	1	1:1		0.095	1.230	0.117	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram								

**NR TDD Band n41 Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	Size	offset		Cycle	(W/kg)	(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	-0.12	Left Cheek	0	1	1	1:1		0.095	1.466	0.139	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	-0.11	Left Cheek	0	135	0	1:1		0.102	1.413	0.144	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	0.06	Left Tilt	0	1	1	1:1		0.038	1.466	0.056	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	0.08	Left Tilt	0	135	0	1:1		0.027	1.413	0.038	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	-0.09	Right Cheek	0	1	1	1:1		0.055	1.466	0.081	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	-0.05	Right Cheek	0	135	0	1:1		0.056	1.413	0.079	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	0.14	Right Tilt	0	1	1	1:1		0.064	1.466	0.094	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	0.12	Right Tilt	0	135	0	1:1		0.081	1.413	0.114	-
2 592.99	518598	CP OFDM QPSK	Main2	100	18.0	16.37	-0.14	Left Cheek	0	1	1	1:1		<b>0.118</b>	1.455	<b>0.172</b>	A12
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram								

**NR TDD Band n41 SRS Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	Size	offset		Cycle	(W/kg)	(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	SRS# 1 Sub1	100	13.0	11.80	-0.12	Left Cheek	0	1	137	1:1		<b>0.149</b>	1.318	<b>0.196</b>	A13
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	0.08	Left Tilt	0	1	137	1:1		0.148	1.318	0.195	-
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	-0.14	Right Cheek	0	1	137	1:1		0.052	1.318	0.069	-
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	0.11	Right Tilt	0	1	137	1:1		0.049	1.318	0.065	-
2 592.99	518598	DFT-s OFDM QPSK	SRS# 2 Main	100	15.0	13.68	-0.16	Left Cheek	0	1	137	1:1		0.00489	1.355	0.007	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.0	13.68	0.13	Left Tilt	0	1	137	1:1		0.00198	1.355	0.003	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.0	13.68	-0.16	Right Cheek	0	1	137	1:1		0.035	1.355	0.047	-
2 592.99	518598	DFT-s OFDM QPSK	SRS# 3 Sub4	100	15.0	13.68	0.08	Right Tilt	0	1	137	1:1		0.014	1.355	0.019	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	-0.12	Left Cheek	0	1	137	1:1		0.087	1.276	0.111	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	-0.04	Left Tilt	0	1	137	1:1		0.039	1.276	0.050	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	0.08	Right Cheek	0	1	137	1:1		0.035	1.276	0.045	-
2 592.99	518598	DFT-s OFDM QPSK	100	15.5	14.44	0.04	Right Tilt	0	1	137	1:1		0.026	1.276	0.033	-	
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram								

**NR FDD Band n66 Head SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	Size	offset		Cycle		(W/kg)	
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.99	0.04	Left Cheek	0	1	53	1:1		0.211	1.125	0.237	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.97	0.10	Left Cheek	0	50	28	1:1		0.209	1.130	0.236	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.99	0.19	Left Tilt	0	1	53	1:1		0.142	1.125	0.160	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.97	0.12	Left Tilt	0	50	28	1:1		0.140	1.130	0.158	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.99	-0.18	Right Cheek	0	1	53	1:1		0.227	1.125	0.255	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.97	0.16	Right Cheek	0	50	28	1:1		<b>0.231</b>	1.130	<b>0.261</b>	A14
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.99	0.15	Right Tilt	0	1	53	1:1		0.146	1.125	0.164	-
1745	349000	DFT-s OFDM QPSK	Main2	20	24.5	23.97	0.07	Right Tilt	0	50	28	1:1		0.139	1.130	0.157	-
1745	349000	CP QPSK	Main2	20	23.0	22.46	0.16	Right Cheek	1.5	1	1	1:1		0.134	1.132	0.152	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									

**NR TDD Band n77 Head SAR (RCV-ON)**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	Size	offset		Cycle		(W/kg)	
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.92	0.14	Left Touch	0	1	271	1:1		0.087	1.282	0.112	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.91	-0.16	Left Touch	0	135	0	1:1		0.100	1.285	0.129	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.92	0.15	Left Tilt	0	1	271	1:1		0.076	1.282	0.097	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.91	0.11	Left Tilt	0	135	0	1:1		0.070	1.285	0.090	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.92	0.15	Right Touch	0	1	271	1:1		0.235	1.282	0.301	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.91	-0.14	Right Touch	0	135	0	1:1		0.285	1.285	0.366	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.92	0.14	Right Tilt	0	1	271	1:1		0.154	1.282	0.197	-
3 930.00	662000	DFT-s QPSK	Sub3	100	18.0	16.91	-0.10	Right Tilt	0	135	0	1:1		0.193	1.285	0.248	-
3 930.00	662000	CP QPSK	Sub3	100	18.0	16.81	0.09	Right Touch	0	1	1	1:1		0.280	1.315	0.368	-
3 500.01	633334	DFT-s QPSK	Sub3	100	18.0	16.74	-0.18	Right Touch	0	1	1	1:1		<b>0.414</b>	1.337	<b>0.554</b>	A15
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram									



**DTS Head SAR – RCV ON**

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.															
2 412	1	802.11b	Sub2	20	1	16.0	15.41	-0.08	Left Touch	98.7	0.289	0.183	1.146	1.013	0.212	-
2 412	1	802.11b	Sub2	20	1	16.0	15.41	-0.06	Left Tilt	98.7	0.277	0.182	1.146	1.013	0.211	-
2 412	1	802.11b	Sub2	20	1	16.0	15.41	-0.19	Right Touch	98.7	0.604	0.329	1.146	1.013	0.382	-
2 412	1	802.11b	Sub2	20	1	16.0	15.41	-0.04	Right Tilt	98.7	0.515	0.329	1.146	1.013	0.382	-
2 462	11	802.11b	Sub2+5	20	1	19.0	18.23	0.05	Left Cheek	98.7	0.288	0.182	1.211	1.013	0.223	-
2 462	11	802.11b	Sub2+5	20	1	19.0	18.23	-0.03	Left Tilt	98.7	0.283	0.176	1.211	1.013	0.216	-
2 462	11	802.11b	Sub2+5	20	1	19.0	18.23	-0.01	Right Cheek	98.7	1.09	<b>0.544</b>	1.211	1.013	<b>0.667</b>	A16
2 462	11	802.11b	Sub2+5	20	1	19.0	18.23	-0.17	Right Tilt	98.7	0.5	0.267	1.211	1.013	0.328	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Head 1.6 W/kg Averaged over 1 gram					

- For the SAR measurement results of MIMO Ant Mode(802.11b), higher power scaling factor among each SISO ANT was applied.

**NII Head SAR – RCV-ON**

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.															
5 290	58	802.11ac	Sub5	80	MCS0	13.0	12.12	0.00	Left Cheek	88.9	0	0	1.225	1.125	0.000	-
5 290	58	802.11ac	Sub5	80	MCS0	13.0	12.12	0.00	Left Tilt	88.9	0	0	1.225	1.125	0.000	-
5 290	58	802.11ac	Sub5	80	MCS0	13.0	12.12	0.00	Right Cheek	88.9	0	0	1.225	1.125	0.000	-
5 290	58	802.11ac	Sub5	80	MCS0	13.0	12.12	0.00	Right Tilt	88.9	0	0	1.225	1.125	0.000	-
5 610	122	802.11ac	Sub5	80	MCS0	13.0	11.89	0.00	Left Cheek	88.9	0	0	1.291	1.125	0.000	-
5 610	122	802.11ac	Sub5	80	MCS0	13.0	11.89	0.00	Left Tilt	88.9	0	0	1.291	1.125	0.000	-
5 610	122	802.11ac	Sub5	80	MCS0	13.0	11.89	0.00	Right Cheek	88.9	0	0	1.291	1.125	0.000	-
5 610	122	802.11ac	Sub5	80	MCS0	13.0	11.89	0.00	Right Tilt	88.9	0	0	1.291	1.125	0.000	-
5 775	155	802.11ac	Sub5	80	MCS0	13.0	11.61	0.00	Left Cheek	88.9	0	0	1.377	1.125	0.000	-
5 775	155	802.11ac	Sub5	80	MCS0	13.0	11.61	0.00	Left Tilt	88.9	0	0	1.377	1.125	0.000	-
5 775	155	802.11ac	Sub5	80	MCS0	13.0	11.61	0.00	Right Cheek	88.9	0	0	1.377	1.125	0.000	-
5 775	155	802.11ac	Sub5	80	MCS0	13.0	11.61	0.00	Right Tilt	88.9	0	0	1.377	1.125	0.000	-
5 290	58	802.11ac	Sub2+5	80	MCS0	16.0	14.18	-0.13	Left Cheek	85.1	0.581	0.139	1.556	1.175	0.254	-
5 290	58	802.11ac	Sub2+5	80	MCS0	16.0	14.18	0.11	Left Tilt	85.1	0.412	0.168	1.556	1.175	0.307	-
5 290	58	802.11ac	Sub2+5	80	MCS0	16.0	14.18	-0.10	Right Cheek	85.1	0.77	0.169	1.556	1.175	0.309	-
5 290	58	802.11ac	Sub2+5	80	MCS0	16.0	14.18	0.17	Right Tilt	85.1	0.515	<b>0.200</b>	1.556	1.175	<b>0.366</b>	A17
5 610	122	802.11ac	Sub2+5	80	MCS0	16.0	15.15	-0.17	Left Cheek	85.1	0.294	0.102	1.265	1.175	0.152	-
5 610	122	802.11ac	Sub2+5	80	MCS0	16.0	15.15	-0.13	Left Tilt	85.1	0.382	0.129	1.265	1.175	0.192	-
5 610	122	802.11ac	Sub2+5	80	MCS0	16.0	15.15	-0.15	Right Cheek	85.1	0.474	0.108	1.265	1.175	0.161	-
5 610	122	802.11ac	Sub2+5	80	MCS0	16.0	15.15	0.11	Right Tilt	85.1	0.474	0.130	1.265	1.175	0.193	-
5 775	155	802.11ac	Sub2+5	80	MCS0	16.0	15.03	0.00	Left Cheek	85.1	0	0	1.276	1.175	0.000	-
5 775	155	802.11ac	Sub2+5	80	MCS0	16.0	15.03	-0.11	Left Tilt	85.1	0.11	0.031	1.276	1.175	0.046	-
5 775	155	802.11ac	Sub2+5	80	MCS0	16.0	15.03	0.00	Right Cheek	85.1	0	0	1.276	1.175	0.000	-
5 775	155	802.11ac	Sub2+5	80	MCS0	16.0	15.03	0.11	Right Tilt	85.1	0.14	0.030	1.276	1.175	0.045	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population											Head 1.6 W/kg Averaged over 1 gram					

- For the SAR measurement results of MIMO Ant Mode(802.11ac 80MHz BW), higher power scaling factor among each SISO ANT was applied.

**DSS Head SAR – RCV ON**

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)		(W/kg)			(Duty)	
2 480	78	Bluetooth DH5	Sub 2	17.0	16.83	0.16	Left Cheek	0.110	1.040	1.010	0.116	-
2 480	78	Bluetooth DH5	Sub 2	17.0	16.83	0.10	Left Tilt	0.106	1.040	1.010	0.111	-
2 480	78	Bluetooth DH5	Sub 2	17.0	16.83	-0.14	Right Cheek	<b>0.221</b>	1.040	1.010	<b>0.232</b>	A18
2 480	78	Bluetooth DH5	Sub 2	17.0	16.83	0.01	Right Tilt	0.214	1.040	1.010	0.225	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram					

### 13.2 Body / Hotspot SAR Measurement Results

#### GSM 850 Body / Hotspot SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 4Tx	Main1	29.5	29.33	-0.17	Rear	1:2.07	10		<b>0.788</b>	1.040	0.820	B1
824.2	128	GPRS 4Tx	Main1	29.5	29.16	-0.03	Rear	1:2.07	10		0.744	1.081	0.804	
848.8	251	GPRS 4Tx	Main1	29.5	28.54	-0.10	Rear	1:2.07	10		0.757	1.247	<b>0.944</b>	
836.6	190	GPRS 4Tx	Main1	29.5	29.33	-0.06	Front	1:2.07	10		0.242	1.040	0.252	-
836.6	190	GPRS 4Tx	Main1	29.5	29.33	-0.07	Left	1:2.07	10		0.235	1.040	0.244	-
836.6	190	GPRS 4Tx	Main1	29.5	29.33	0.00	Right	1:2.07	10		0.482	1.040	0.501	-
836.6	190	GPRS 4Tx	Main1	29.5	28.54	0.16	Bottom	1:2.07	10		0.574	1.247	0.716	-
836.6	190	Voice	Main1	34.0	33.69	-0.06	Rear	1:8.3	10		0.497	1.074	0.534	-
836.6	190	Voice	Main1	34.0	33.69	0.04	Front	1:8.3	10		0.173	1.074	0.186	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

#### GSM 1900 Body / Hotspot SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1850.2	512	GPRS 2Tx	Main2	27.5	27.40	0.08	Rear	1:4.15	10		<b>0.486</b>	1.023	<b>0.497</b>	B2
1850.2	512	GPRS 2Tx	Main2	27.5	27.40	-0.05	Front	1:4.15	10		0.185	1.023	0.189	-
1850.2	512	GPRS 2Tx	Main2	27.5	27.40	0.07	Left	1:4.15	10		0.088	1.023	0.090	-
1850.2	512	GPRS 2Tx	Main2	27.5	27.40	0.12	Bottom	1:4.15	10		0.317	1.023	0.324	-
1850.2	512	GSM Voice	Main2	30.5	29.81	-0.04	Rear	1:8.3	10		0.267	1.172	0.313	-
1850.2	512	GSM Voice	Main2	30.5	29.81	0.03	Front	1:8.3	10		0.185	1.172	0.217	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

#### UMTS Band 5 Body / Hotspot SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	4183	RMC	Main1	25.0	24.48	0.01	Rear	1:1	10		<b>0.709</b>	1.127	<b>0.799</b>	B3
836.6	4183	RMC	Main1	25.0	24.48	-0.04	Front	1:1	10		0.195	1.127	0.220	-
836.6	4183	RMC	Main1	25.0	24.48	0.00	Left	1:1	10		0.153	1.127	0.172	-
836.6	4183	RMC	Main1	25.0	24.48	0.06	Right	1:1	10		0.255	1.127	0.287	-
836.6	4183	RMC	Main1	25.0	24.48	0.13	Bottom	1:1	10		0.399	1.127	0.450	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

**UMTS Band 4 Body / Hotspot SAR**

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)					(W/kg)		(W/kg)	
1732.4	1412	RMC	Main2	21.0	19.67	-0.09	Rear	1:1	10		0.309	1.358	0.420	-
1732.4	1412	RMC	Main2	21.0	19.67	0.02	Front	1:1	10		0.234	1.358	0.318	-
1732.4	1412	RMC	Main2	21.0	19.67	0.04	Left	1:1	10		0.201	1.358	0.273	-
1732.4	1412	RMC	Main2	21.0	19.67	0.12	Bottom	1:1	10		<b>0.343</b>	1.358	<b>0.466</b>	B4
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

**UMTS Band 2 Body / Hotspot SAR**

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dBm)	(dBm)	(dB)					(W/kg)		(W/kg)	
1880.0	9400	RMC	Main2	21.0	19.39	-0.00	Rear	1:1	10		0.242	1.449	0.351	-
1880.0	9400	RMC	Main2	21.0	19.39	-0.04	Front	1:1	10		0.175	1.449	0.254	-
1880.0	9400	RMC	Main2	21.0	19.39	0.03	Left	1:1	10		0.067	1.449	0.097	-
1880.0	9400	RMC	Main2	21.0	19.39	0.13	Bottom	1:1	10		<b>0.330</b>	1.449	<b>0.478</b>	B5
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram							

**LTE FDD Band 2 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width (MHz)	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.				(dBm)	(dBm)	(dB)		(dB)								(W/kg)	
1900	19100	QPSK	Main2	20	21.0	19.79	-0.04	Rear	0	1	49	1:1		10	0.236	1.321	0.312	-
1900	19100	QPSK	Main2	20	21.0	19.82	0.09	Rear	0	50	49	1:1		10	0.224	1.312	0.294	-
1900	19100	QPSK	Main2	20	21.0	19.79	-0.11	Front	0	1	49	1:1		10	0.179	1.321	0.236	-
1900	19100	QPSK	Main2	20	21.0	19.82	-0.14	Front	0	50	49	1:1		10	0.181	1.312	0.237	-
1900	19100	QPSK	Main2	20	21.0	19.79	-0.01	Left	0	1	49	1:1		10	0.095	1.321	0.125	-
1900	19100	QPSK	Main2	20	21.0	19.82	0.15	Left	0	50	49	1:1		10	0.096	1.312	0.126	-
1900	19100	QPSK	Main2	20	21.0	19.79	0.07	Bottom	0	1	49	1:1		10	0.315	1.321	0.416	-
1900	19100	QPSK	Main2	20	21.0	19.82	0.08	Bottom	0	50	49	1:1		10	0.310	1.312	0.407	-
1900	19100	QPSK	Main3	20	21.0	19.72	0.09	Rear	0	1	0	1:1		10	<b>0.400</b>	1.343	<b>0.537</b>	B6
1900	19100	QPSK	Main3	20	21.0	19.76	0.12	Rear	0	50	49	1:1		10	0.359	1.330	0.477	-
1900	19100	QPSK	Main3	20	21.0	19.72	0.13	Front	0	1	0	1:1		10	0.048	1.343	0.064	-
1900	19100	QPSK	Main3	20	21.0	19.76	0.13	Front	0	50	49	1:1		10	0.042	1.330	0.056	-
1900	19100	QPSK	Main3	20	21.0	19.72	0.02	Left	0	1	0	1:1		10	0.189	1.343	0.254	-
1900	19100	QPSK	Main3	20	21.0	19.76	0.05	Left	0	50	49	1:1		10	0.164	1.330	0.218	-
1900	19100	QPSK	Main3	20	21.0	19.72	0.13	Top	0	1	0	1:1		10	0.023	1.343	0.031	-
1900	19100	QPSK	Main3	20	21.0	19.76	-0.02	Top	0	50	49	1:1		10	0.021	1.330	0.028	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

**LTE FDD Band 12 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
707.5	23095	QPSK	Main1	10	25.5	24.17	0.00	Rear	0	1	0	1:1		10	<b>0.345</b>	1.358	<b>0.469</b>	B7
707.5	23095	QPSK	Main1	10	24.5	23.18	-0.01	Rear	1	25	0	1:1		10	0.282	1.355	0.382	-
707.5	23095	QPSK	Main1	10	25.5	24.17	0.04	Front	0	1	0	1:1		10	0.155	1.358	0.210	-
707.5	23095	QPSK	Main1	10	24.5	23.18	-0.03	Front	1	25	0	1:1		10	0.122	1.355	0.165	-
707.5	23095	QPSK	Main1	10	25.5	24.17	-0.02	Left	0	1	0	1:1		10	0.109	1.358	0.148	-
707.5	23095	QPSK	Main1	10	24.5	23.18	0.01	Left	1	25	0	1:1		10	0.090	1.355	0.122	-
707.5	23095	QPSK	Main1	10	25.5	24.17	-0.02	Right	0	1	0	1:1		10	0.222	1.358	0.301	-
707.5	23095	QPSK	Main1	10	24.5	23.18	-0.01	Right	1	25	0	1:1		10	0.185	1.355	0.251	-
707.5	23095	QPSK	Main1	10	25.5	24.17	0.13	Bottom	0	1	0	1:1		10	0.149	1.358	0.202	-
707.5	23095	QPSK	Main1	10	24.5	23.18	0.07	Bottom	1	25	0	1:1		10	0.126	1.355	0.171	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

**LTE FDD Band 26 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
831.5	26865	QPSK	Main1	15	25.5	24.28	0.05	Rear	0	1	0	1:1		10	<b>0.655</b>	1.324	<b>0.867</b>	B8
831.5	26865	QPSK	Main1	15	24.5	23.31	-0.13	Rear	1	36	0	1:1		10	0.598	1.315	0.786	-
831.5	26865	QPSK	Main1	15	24.5	23.32	0.06	Rear	1	75	0	1:1		10	0.521	1.312	0.684	-
831.5	26865	QPSK	Main1	15	25.5	24.28	0.05	Front	0	1	0	1:1		10	0.170	1.324	0.225	-
831.5	26865	QPSK	Main1	15	24.5	23.31	0.02	Front	1	36	0	1:1		10	0.140	1.315	0.184	-
831.5	26865	QPSK	Main1	15	25.5	24.28	-0.01	Left	0	1	0	1:1		10	0.135	1.324	0.179	-
831.5	26865	QPSK	Main1	15	24.5	23.31	0.02	Left	1	36	0	1:1		10	0.098	1.315	0.129	-
831.5	26865	QPSK	Main1	15	25.5	24.28	-0.10	Right	0	1	0	1:1		10	0.258	1.324	0.342	-
831.5	26865	QPSK	Main1	15	24.5	23.31	-0.01	Right	1	36	0	1:1		10	0.208	1.315	0.274	-
831.5	26865	QPSK	Main1	15	25.5	24.28	0.16	Bottom	0	1	0	1:1		10	0.272	1.324	0.360	-
831.5	26865	QPSK	Main1	15	24.5	23.31	0.16	Bottom	1	36	0	1:1		10	0.231	1.315	0.304	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

**LTE TDD Band 41 Body / Hotspot SAR (Power Class 3)**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
2 593	40620	QPSK	Main2	20	23.0	21.42	-0.02	Rear	0	1	49	1:1.58		10	0.139	1.439	0.200	-
2 593	40620	QPSK	Main2	20	23.0	21.47	-0.12	Rear	0	50	0	1:1.58		10	0.150	1.422	0.213	-
2 593	40620	QPSK	Main2	20	23.0	21.47	-0.09	Front	0	1	49	1:1.58		10	0.163	1.439	0.235	-
2 593	40620	QPSK	Main2	20	23.0	21.47	-0.07	Front	0	50	0	1:1.58		10	<b>0.171</b>	1.422	<b>0.243</b>	B9
2 593	40620	QPSK	Main2	20	23.0	21.47	0.17	Left	0	1	49	1:1.58		10	0.044	1.439	0.063	-
2 593	40620	QPSK	Main2	20	23.0	21.47	0.14	Left	0	50	0	1:1.58		10	0.047	1.422	0.067	-
2 593	40620	QPSK	Main2	20	23.0	21.47	0.05	Bottom	0	1	49	1:1.58		10	0.019	1.439	0.027	-
2 593	40620	QPSK	Main2	20	23.0	21.47	-0.03	Bottom	0	50	0	1:1.58		10	0.021	1.422	0.030	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

**LTE FDD Band 66 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.																	
1 720	132072	QPSK	Main2	20	21.0	19.64	-0.10	Rear	0	1	49	1:1		10	0.273	1.368	0.373	-
1 720	132072	QPSK	Main2	20	21.0	19.60	0.02	Rear	0	50	0	1:1		10	0.257	1.380	0.355	-
1 720	132072	QPSK	Main2	20	21.0	19.64	-0.18	Front	0	1	49	1:1		10	0.228	1.368	0.312	-
1 720	132072	QPSK	Main2	20	21.0	19.60	0.09	Front	0	50	0	1:1		10	0.209	1.380	0.288	-
1 720	132072	QPSK	Main2	20	21.0	19.64	0.14	Left	0	1	49	1:1		10	0.166	1.368	0.227	-
1 720	132072	QPSK	Main2	20	21.0	19.60	0.07	Left	0	50	0	1:1		10	0.160	1.380	0.221	-
1 720	132072	QPSK	Main2	20	21.0	19.64	0.08	Bottom	0	1	49	1:1		10	<b>0.392</b>	1.368	<b>0.536</b>	B10
1 720	132072	QPSK	Main2	20	21.0	19.60	0.10	Bottom	0	50	0	1:1		10	0.379	1.380	0.523	-
1720	132072	QPSK	Main3	20	21.0	19.73	0.11	Rear	0	1	49	1:1		10	0.290	1.340	0.389	
1770	132572	QPSK	Main3	20	21.0	19.68	0.17	Rear	0	50	0	1:1		10	0.251	1.355	0.340	
1720	132072	QPSK	Main3	20	21.0	19.64	-0.04	Front	0	1	49	1:1		10	0.052	1.368	0.071	
1770	132572	QPSK	Main3	20	21.0	19.60	-0.16	Front	0	50	0	1:1		10	0.040	1.380	0.055	
1720	132072	QPSK	Main3	20	21.0	19.64	0.11	Left	0	1	49	1:1		10	0.174	1.368	0.238	
1770	132572	QPSK	Main3	20	21.0	19.60	0.17	Left	0	50	0	1:1		10	0.157	1.380	0.217	
1720	132072	QPSK	Main3	20	21.0	19.64	0.19	Top	0	1	49	1:1		10	0.015	1.368	0.021	
1770	132572	QPSK	Main3	20	21.0	19.60	0.09	Top	0	50	0	1:1		10	0.00931	1.380	0.013	
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

**NR FDD Band n5 (Cell) Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)				(mm)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.02	Rear	0	1	53	1:1	10	<b>0.566</b>	1.219	<b>0.690</b>	B11
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.08	Rear	0	50	28	1:1	10	0.553	1.236	0.684	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	-0.09	Front	0	1	53	1:1	10	0.164	1.219	0.200	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	-0.06	Front	0	50	28	1:1	10	0.157	1.236	0.194	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	-0.02	Left	0	1	53	1:1	10	0.140	1.219	0.171	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	-0.03	Left	0	50	28	1:1	10	0.137	1.236	0.169	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.04	Right	0	1	53	1:1	10	0.240	1.219	0.293	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.12	Right	0	50	28	1:1	10	0.241	1.236	0.298	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.64	0.12	Bottom	0	1	53	1:1	10	0.426	1.219	0.519	-
836.5	167300	DFT-s OFDM QPSK	Main1	20	25.5	24.58	0.10	Bottom	0	50	28	1:1	10	0.424	1.236	0.524	-
836.5	167300	CP QPSK	Main1	20	24.0	23.10	0.07	Rear	1.5	1	1	1:1	10	0.436	1.230	0.536	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

**NR TDD Band n41 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)				(mm)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	0.02	Rear	0	1	1	1:1	10	0.180	1.466	0.264	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	-0.15	Rear	0	135	0	1:1	10	0.163	1.413	0.230	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	-0.07	Front	0	1	1	1:1	10	0.203	1.466	0.298	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	0.04	Front	0	135	0	1:1	10	0.176	1.413	0.249	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	0.11	Left	0	1	1	1:1	10	0.103	1.466	0.151	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	0.12	Left	0	135	0	1:1	10	0.068	1.413	0.096	-
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.34	0.12	Bottom	0	1	1	1:1	10	<b>0.211</b>	1.466	<b>0.309</b>	B12
2 592.99	518598	DFT-s OFDM QPSK	Main2	100	18.0	16.50	-0.05	Bottom	0	135	0	1:1	10	0.194	1.413	0.274	-
2 592.99	518598	CP QPSK	Main2	100	18.0	16.37	-0.02	Bottom	0	1	1	1:1	10	0.208	1.455	0.303	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

**NR TDD Band n41 SRS Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)		(W/kg)				
2 592.99	518598	DFT-s OFDM QPSK	SRS #1 Sub1	100	13.0	11.80	0.00	Rear	0	1	137	1:1	10	0.065	1.318	0.086	-
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	0.00	Front	0	1	137	1:1	10	0.029	1.318	0.038	-
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	0.04	Right	0	1	137	1:1	10	0.014	1.318	0.018	-
2 592.99	518598	DFT-s OFDM QPSK		100	13.0	11.80	-0.18	Top	0	1	137	1:1	10	0.061	1.318	0.080	-
2 592.99	518598	DFT-s OFDM QPSK	SRS #2 Main3	100	15.0	13.68	0.00	Rear	0	1	137	1:1	10	<b>0.132</b>	1.355	<b>0.179</b>	B13
2 592.99	518598	DFT-s OFDM QPSK		100	15.0	13.68	0.00	Front	0	1	137	1:1	10	0.00638	1.355	0.009	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.0	13.68	0.00	Left	0	1	137	1:1	10	0.046	1.355	0.062	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.0	13.68	0.16	Top	0	1	137	1:1	10	0.00298	1.355	0.004	-
2 592.99	518598	DFT-s OFDM QPSK	SRS #3 Sub4	100	15.5	14.44	0.00	Rear	0	1	137	1:1	10	0.049	1.276	0.063	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	0.05	Front	0	1	137	1:1	10	0.021	1.276	0.027	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	0.01	Right	0	1	137	1:1	10	0.044	1.276	0.056	-
2 592.99	518598	DFT-s OFDM QPSK		100	15.5	14.44	-0.01	Top	0	1	137	1:1	10	0.010	1.276	0.013	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

**NR FDD Band n66 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)		(W/kg)				
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.26	-0.08	Rear	0	1	53	1:1	10	0.262	1.186	0.311	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.25	0.06	Rear	0	50	0	1:1	10	0.273	1.189	0.325	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.26	-0.19	Front	0	1	53	1:1	10	0.201	1.186	0.238	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.25	-0.02	Front	0	50	0	1:1	10	0.206	1.189	0.245	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.26	0.13	Left	0	1	53	1:1	10	0.158	1.186	0.187	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.25	0.10	Left	0	50	0	1:1	10	0.162	1.189	0.193	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.26	0.06	Bottom	0	1	53	1:1	10	0.303	1.186	0.359	-
1 745	349000	DFT-s OFDM QPSK	Main2	20	21.0	20.25	0.09	Bottom	0	50	0	1:1	10	<b>0.314</b>	1.189	0.373	B14
1 745	349000	CP OFDM QPSK	Main2	20	21.0	20.00	0.13	Bottom	0	1	1	1:1	10	0.310	1.259	<b>0.390</b>	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									



**NR TDD Band n77 Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width (MHz)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
Mhz	Ch.																
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.92	-0.12	Rear	0	1	271	1:1	10	0.258	1.282	0.331	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.91	-0.16	Rear	0	135	0	1:1	10	0.302	1.285	0.388	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.92	-0.14	Front	0	1	271	1:1	10	0.06	1.282	0.077	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.91	-0.14	Front	0	135	0	1:1	10	0.095	1.285	0.122	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.92	-0.10	Left	0	1	271	1:1	10	0.180	1.282	0.231	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.91	-0.06	Left	0	135	0	1:1	10	0.245	1.285	0.315	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.92	-0.07	Top	0	1	271	1:1	10	0.077	1.282	0.099	-
3 930.00	662000	DFT-s OFDM QPSK	Sub3	100	18.0	16.91	-0.05	Top	0	135	0	1:1	10	0.081	1.285	0.104	-
3 930.00	662000	CP OFDM QPSK	Sub3	100	18.0	16.81	0.07	Rear	0	1	1	1:1	10	0.323	1.315	0.425	-
3 500.01	633334	DFT-s OFDM QPSK	Sub3	100	18.0	16.74	-0.07	Rear	0	1	1	1:1	10	<b>0.415</b>	1.337	<b>0.555</b>	B15
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

**DTS Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
Mhz	Ch.																
2 412	1	802.11b	Sub2	20	1	18.0	17.42	-0.14	Rear	98.7	10	0.492	0.304	1.143	1.013	0.352	-
2 412	1	802.11b	Sub2	20	1	18.0	17.42	0.18	Front	98.7	10	0.0859	0.054	1.143	1.013	0.063	-
2 412	1	802.11b	Sub2	20	1	18.0	17.42	0.14	Left	98.7	10	0.0678	0.044	1.143	1.013	0.051	-
2 412	1	802.11b	Sub2	20	1	18.0	17.42	0.03	Top	98.7	10	0.221	0.145	1.143	1.013	0.168	-
2 412	1	802.11b	Sub2+5	20	1	18.0	17.42	0.14	Rear	98.7	10	0.744	<b>0.443</b>	1.143	1.013	<b>0.513</b>	B16
2 412	1	802.11b	Sub2+5	20	1	18.0	17.42	0.10	Front	98.7	10	0.172	0.114	1.143	1.013	0.132	-
2 412	1	802.11b	Sub2+5	20	1	18.0	17.42	-0.10	Left	98.7	10	0.093	0.060	1.143	1.013	0.069	-
2 412	1	802.11b	Sub2+5	20	1	18.0	17.42	0.18	Right	98.7	10	0.0657	0.043	1.143	1.013	0.050	-
2 412	1	802.11b	Sub2+5	20	1	18.0	17.42	0.13	Top	98.7	10	0.51	0.334	1.143	1.013	0.387	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

- For the SAR measurement results of MIMO Ant Mode(802.11b), higher power scaling factor among each SISO ANT was applied.

**5 GHz WLAN Body / Hotspot SAR**

Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Rear	92.8	10	0.0667	0.026	1.028	1.078	0.029	-
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Front	92.8	10	0	0	1.028	1.078	0.000	-
5 500	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Rear	92.8	10	0.0875	0.026	1.094	1.078	0.031	-
5 500	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Front	92.8	10	0	0	1.094	1.078	0.000	-
5 745	149	802.11a	Sub5	20	6	16.0	15.38	0.16	Rear	92.8	10	0.156	0.070	1.153	1.078	0.087	-
5 745	149	802.11a	Sub5	20	6	16.0	15.38	0.00	Front	92.8	10	0	0	1.153	1.078	0.000	-
5 745	149	802.11a	Sub5	20	6	16.0	15.38	0.00	Right	92.8	10	0	0	1.153	1.078	0.000	-
5 745	149	802.11a	Sub5	20	6	16.0	15.38	0.00	Top	92.8	10	0	0	1.153	1.078	0.000	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	-0.13	Rear	92.8	10	0.65	0.28	1.112	1.078	0.336	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.00	Front	92.8	10	0.113	0.042	1.112	1.078	0.050	-
5 500	120	802.11a	Sub2+5	20	6	19.0	18.26	0.17	Rear	92.8	10	0.692	<b>0.271</b>	1.300	1.078	<b>0.380</b>	B17
5 500	120	802.11a	Sub2+5	20	6	19.0	18.26	0.00	Front	92.8	10	0.19	0.041	1.300	1.078	0.057	-
5 825	165	802.11a	Sub2+5	20	6	19.0	18.40	-0.19	Rear	92.8	10	0.303	0.126	1.164	1.078	0.158	-
5 825	165	802.11a	Sub2+5	20	6	19.0	18.40	0.00	Front	92.8	10	0	0	1.164	1.078	0.000	-
5 825	165	802.11a	Sub2+5	20	6	19.0	18.40	0.00	Left	92.8	10	0	0	1.164	1.078	0.000	-
5 825	165	802.11a	Sub2+5	20	6	19.0	18.40	0.00	Right	92.8	10	0.02	0.00743	1.164	1.078	0.009	-
5 825	165	802.11a	Sub2+5	20	6	19.0	18.40	0.18	Top	92.8	10	0.262	0.106	1.164	1.078	0.133	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Body 1.6 W/kg Averaged over 1 gram					

**DSS Tethering SAR**

Frequency		Mode	Ant.	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.												
2 480	78	Bluetooth DH5	Sub2	17.0	16.83	0.17	Rear	10	<b>0.193</b>	1.040	1.010	<b>0.203</b>	B18
2 480	78	Bluetooth DH5	Sub2	17.0	16.83	0.12	Front	10	0.033	1.040	1.010	0.035	-
2 480	78	Bluetooth DH5	Sub2	17.0	16.83	-0.18	Left	10	0.016	1.040	1.010	0.017	-
2 480	78	Bluetooth DH5	Sub2	17.0	16.83	0.11	Top	10	0.070	1.040	1.010	0.074	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram					

### 13.3 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

### 13.4 Phablet SAR Measurement Results

5 GHz WLAN Phablet SAR_10g																	
Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Rear	92.8	0	2.95	0.221	1.028	1.078	0.245	-
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Front	92.8	0	0	0	1.028	1.078	0.000	-
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Right	92.8	0	0	0	1.028	1.078	0.000	-
5 320	64	802.11a	Sub5	20	6	16.0	15.88	0.00	Top	92.8	0	0	0	1.028	1.078	0.000	-
5 600	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Rear	92.8	0	5.56	0.444	1.094	1.078	0.524	-
5 600	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Front	92.8	0	0	0	1.094	1.078	0.000	-
5 600	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Right	92.8	0	0	0	1.094	1.078	0.000	-
5 600	120	802.11a	Sub5	20	6	16.0	15.61	0.00	Top	92.8	0	0	0	1.094	1.078	0.000	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.00	Rear	92.8	0	7.44	<b>0.687</b>	1.112	1.078	<b>0.824</b>	C1
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.00	Front	92.8	0	1.07	0.11	1.112	1.078	0.132	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.00	Left	92.8	0	0.524	0.045	1.112	1.078	0.054	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.00	Right	92.8	0	0.193	0.00797	1.112	1.078	0.010	-
5 300	60	802.11a	Sub2+5	20	6	19.0	18.71	0.03	Top	92.8	0	7.79	0.482	1.112	1.078	0.578	-
5 600	120	802.11a	Sub2+5	20	6	19.0	18.26	0.00	Rear	92.8	0	4.04	0.436	1.300	1.078	0.611	-
5 600	120	802.11a	Sub2+5	20	6	19.0	18.26	0.00	Front	92.8	0	1.6	0.066	1.300	1.078	0.093	-
5 600	120	802.11a	Sub2+5	20	6	19.0	18.26	0.00	Left	92.8	0	0.235	0.013	1.300	1.078	0.018	-
5 600	120	802.11a	Sub2+5	20	6	19.0	18.26	0.10	Right	92.8	0	0.114	0.009	1.300	1.078	0.013	-
5 600	120	802.11a	Sub2+5	20	6	19.0	18.26	0.10	Top	92.8	0	4.14	0.310	1.300	1.078	0.435	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population												Hand 4.0 W/kg Averaged over 10 gram					

NFC Phablet SAR_10g								
Frequency		Mode	Data Rate	Power Drift	Test Position	Distance	Meas. SAR	Plot No.
MHz	(Kbps)		(dB)	(mm)		(W/kg)		
13.56	NFC (Type A)	106	0.19	Rear	0	0.026	-	
13.56	NFC (Type B)	106	0.00	Rear	0	<b>0.029</b>	C2	
13.56	NFC (Type F)	106	0.00	Rear	0	0	-	
13.56	NFC (Type B)	106	0.00	Front	0	0	-	
13.56	NFC (Type B)	106	0.00	Left	0	0	-	
13.56	NFC (Type B)	106	0.00	Top	0	0	-	
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population				Hand 4.0 W/kg Averaged over 10 gram				

## 13.5 SAR Test Notes

### General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency Band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

### GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

**UMTS Notes:**

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

**LTE Notes:**

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:  
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.  
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. SAR test reduction is applied using the following criteria:  
Start with the largest channel Bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel Bandwidths is not required because the reported SAR for the highest channel Bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel Bandwidth.

**NR Notes:**

1. This device supports SA and NSA mode for NR implementation. In EN-DC Mode, NR operate with the LTE Bands shown in the NR FR1 checklist acting as anchor Bands.
2. Due to Limitations of the SAR measurement equipment, SAR testing for NR and LTE anchor Bands was performed separately using test mode (FTM) software.
3. More detailed specifications of the NR Bands are contained in the Technical description document.
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power was evaluated for SAR tests.

**WLAN Notes:**

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is  $\leq 0.4$  W/kg for 1g SAR and  $\leq 1.0$  W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is  $\leq 0.8$  W/kg for 1g SAR and  $\leq 2.0$  W/kg for 10g SAR or all test position are measured.

2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.

3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode was not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.

4. When the maximum reported 1g averaged SAR is  $\leq 0.8$  W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was  $\leq 1.20$  W/kg or all test channels were measured.

5. The device was configured to transmit continuously at the required data rated, channel Bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

**Bluetooth Notes:**

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to maximum transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

## 14. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 section 4.3.2 and IEEE 1528-2013 section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is  $\leq 1.6\text{W/kg}$  for 1g SAR and  $\leq 4\text{W/kg}$  for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

When operating in the same antenna group, Samsung S.LSI TAS algorithm in WWAN directly adds the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. S.LSI algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.

This device is enabled with S.LSI Time average SAR algorithm with pre-defined sub6 antenna groups (AG0 and AG1). Simultaneous transmission analysis is performed per antenna groups. Section 14.5 contains analysis to demonstrate the AG0 and AG1 are operate mutually exclusive.

## 14.1 Sub6 Antenna Groups

S.LSI Time average SAR(TAS) algorithm operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside TAS is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs. This device supports two sub6 AG: AG0 and AG1, with AG0 having 2 antennas (Main1 Ant, Main2 Ant) and AG1 having 4 antennas (Main 3 Ant, Sub1 Ant, Sub3 Ant, Sub4 Ant). The conditions are verified through the following criteria.

The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported WWAN technologies and frequency bands for each exposure condition. Demonstrate that the sum of reported SAR of antenna from each of the sub6 AGs and the sum of RF exposure of TAS should be less than the regulatory limit as given below for each RSI.

Obtain the worst-case reported SAR for each antenna group (i.e., maximum reported SAR at Plimit (or Pmax when Plimit > Pmax) out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure, and demonstrate that the sum of these RF exposures meets

$$[\text{Max.SAR.AG0} + \text{Max.SAR.AG1}] + [\text{Max.WLAN} + \text{Max.Bluetooth}] \leq 1.6 \text{ (for 1g SAR or 4.0 for 10g)}$$

If sum result with both antenna group and BT/WAN exceeds the FCC SAR limit of 1.6 W/kg 1g, 4.0W/kg 10g, can use below contents.

Section 14.5 contains analysis to demonstrate the AG0 and AG1 are operate mutually exclusive. The simultaneous transmission analysis of each antenna group was evaluated based on the maximum Reported SAR of the antenna in each Antenna group and the nearest y-axis coordinate of each antenna Group. Additional analysis is provided below to show compliance between AG0 and AG1.

$$[\text{Max.SAR.AG0} + \text{Max.WLAN} + \text{Max.Bluetooth}] \leq 1.6 \text{ (for 1g SAR or 4.0 for 10g)}$$

$$[\text{Max.SAR.AG1} + \text{Max.WLAN} + \text{Max.Bluetooth}] \leq 1.6 \text{ (for 1g SAR or 4.0 for 10g)}$$

If the sum result with each antenna group and BT/WLAN exceeds the FCC SAR limit of 1.6 W/kg 1g ,4.0 W/kg 10g, the SPLSR was re-evaluated according to FCC KDB 447498 D01v06 4.3.2.



AG0, AG1, WLAN/BT are described in the table below.

AG0	
Main1	GSM850, UMTS 5, LTE 5/12/17/26, NR n5
Main2	GSM1900, UMTS 2/4, LTE 2/4/41/66, NR n41 SRS0

AG1	
Main 3	NR n41 SRS2
Sub 1	NR n41 SRS1
Sub 3	NR n77
Sub 4	NR n41 SRS3

WLAN/BT	
Sub 2	WLAN 2.4GHz,5GHz, Bluetooth
Sub 5	WLAN 2.4GHz,5GHz

## 14.2 Head SAR Simultaneous Transmission Analysis

The Maximum measurement result for AG0			
Position	Main1	Main2	Max.AG0
Left Touch	0.302	0.267	0.302
Left Tilt	0.161	0.166	0.166
Right Touch	0.308	0.261	0.308
Right Tilt	0.187	0.182	0.187

The Maximum measurement result for AG1					
Position	Main3	Sub1	Sub3	Sub4	Max.AG1
Left Touch	0.196	0.196	0.129	0.111	0.196
Left Tilt	0.149	0.195	0.097	0.050	0.195
Right Touch	0.572	0.069	0.554	0.045	0.572
Right Tilt	0.213	0.065	0.248	0.033	0.248

The measurement result for WLAN/ BT					
Position	WLAN2.4G SISO(Sub2)	WLAN2.4G MIMO(Sub2+5)	WLAN5G SISO(Sub5)	WLAN5G MIMO(Sub2+5)	BlueTooth (Sub2)
Left Touch	0.212	0.223	0.000	0.254	0.116
Left Tilt	0.211	0.216	0.000	0.307	0.111
Right Touch	0.382	0.667	0.000	0.309	0.232
Right Tilt	0.382	0.328	0.000	0.366	0.225

The Maximum measurement result for WLAN/BT					
Position	WLAN2.4G SISO(Sub2)	WLAN2.4G MIMO(Sub2+5)	WLAN5G SISO(Sub5)+BT	WLAN5G MIMO(Sub2+5)+BT	Max.WLAN/BT
Left Touch	0.212	0.223	0.116	0.370	0.370
Left Tilt	0.211	0.216	0.111	0.418	0.418
Right Touch	0.382	0.667	0.232	0.541	0.667
Right Tilt	0.382	0.328	0.225	0.591	0.591

Simultaneous Transmission analysis for Head SAR				
Position	Max.AG0	Max.AG1	Max.WLAN/BT	AG0+AG1+WLAN/BT
Left Touch	0.302	0.196	0.370	0.868
Left Tilt	0.166	0.195	0.418	0.779
Right Touch	0.308	0.572	0.667	<b>1.547</b>
Right Tilt	0.187	0.248	0.591	1.026

### 14.3 Hotspot/BodyWorn SAR Simultaneous Transmission Analysis

The Maximum measurement result for AG0			
Position	Main1	Main2	Max.AG0
Rear	0.944	0.497	0.944
Front	0.252	0.318	0.318
Left	0.244	0.273	0.273
Right	0.501		0.501
Top			0
Bottom	0.716	0.536	0.716

The Maximum measurement result for AG1					
Position	Main3	Sub1	Sub3	Sub4	Max.AG1
Rear	0.537	0.086	0.555	0.063	0.555
Front	0.071	0.038	0.122	0.027	0.122
Left	0.254		0.315		0.315
Right		0.018		0.056	0.056
Top	0.031	0.080	0.104	0.013	0.104
Bottom					0

The measurement result for WLAN/ BT					
Position	WLAN2.4G SISO(Sub2)	WLAN2.4G MIMO(Sub2+5)	WLAN5G SISO(Sub5)	WLAN5G MIMO(Sub2+5)	Bluetooth (Sub2)
Rear	0.352	0.513	0.087	0.380	0.203
Front	0.063	0.132	0.000	0.057	0.035
Left	0.051	0.069		0.000	0.017
Right		0.050	0.000	0.009	
Top	0.168	0.387	0.000	0.133	0.074
Bottom					

The Maximum measurement result for WLAN/BT					
Position	WLAN2.4G SISO(Sub2)	WLAN2.4G MIMO(Sub2+5)	WLAN5G SISO(Sub5)+BT	WLAN5G MIMO(Sub2+5)+BT	Max.WLAN/BT
Rear	0.352	0.513	0.467	0.583	0.583
Front	0.063	0.132	0.057	0.092	0.132
Left	0.051	0.069	0.000	0.017	0.069
Right		0.050	0.009	0.009	0.050
Top	0.168	0.387	0.133	0.207	0.387
Bottom					0

Simultaneous Transmission Analysis for Body SAR				
Position	Max.AG0	Max.AG1	Max.WLAN/BT	AG0+AG1+WLAN/BT
Rear	0.944	0.555	0.583	See Sec. 14.5
Front	0.318	0.122	0.132	0.572
Left	0.273	0.315	0.069	0.657
Right	0.501	0.056	0.050	0.607
Top		0.104	0.387	0.491
Bottom	0.716			0.716

#### 14.4 Phablet SAR Simultaneous Transmission Analysis

Head Simultaneous SAR				
Position	WLAN 5G SISO	WLAN 5G MIMO	NFC	Max
Rear	0.524	0.824	0.029	<b>0.853</b>
Front	0	0.132	0	0.132
Left	0	0.054	0	0.054
Right		0.013		0.013
Top	0	0.578	0	0.578
Bottom				0

## 14.5 SAR to Peak Location Separation Ratio (SPLSR)

FCC KDB 447498 D01v06 General RF Exposure Guidance introduces a new formula for calculating the SAR a Peak Location Separation Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR_i = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

**SAR<sub>1</sub>** is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

**SAR<sub>2</sub>** is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

**R<sub>i</sub>** is the separation distance between the pair of simultaneous transmitting antennas, When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of  $[(X_1 - X_2)^2 + (Y_1 - Y_2)^2 + (Z_1 - Z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum 1-g of SAR > 1.6 W/kg and with the sum 10-g of SAR > 4 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04 \text{ for 1g SAR and } (SAR_1 + SAR_2)^{1.5} / R_i \leq 0.1 \text{ for 10g SAR}$$

## 14.5.1 Hotspot/BodyWorn(Rear) SPLSR Evaluation

## Ant Group 0

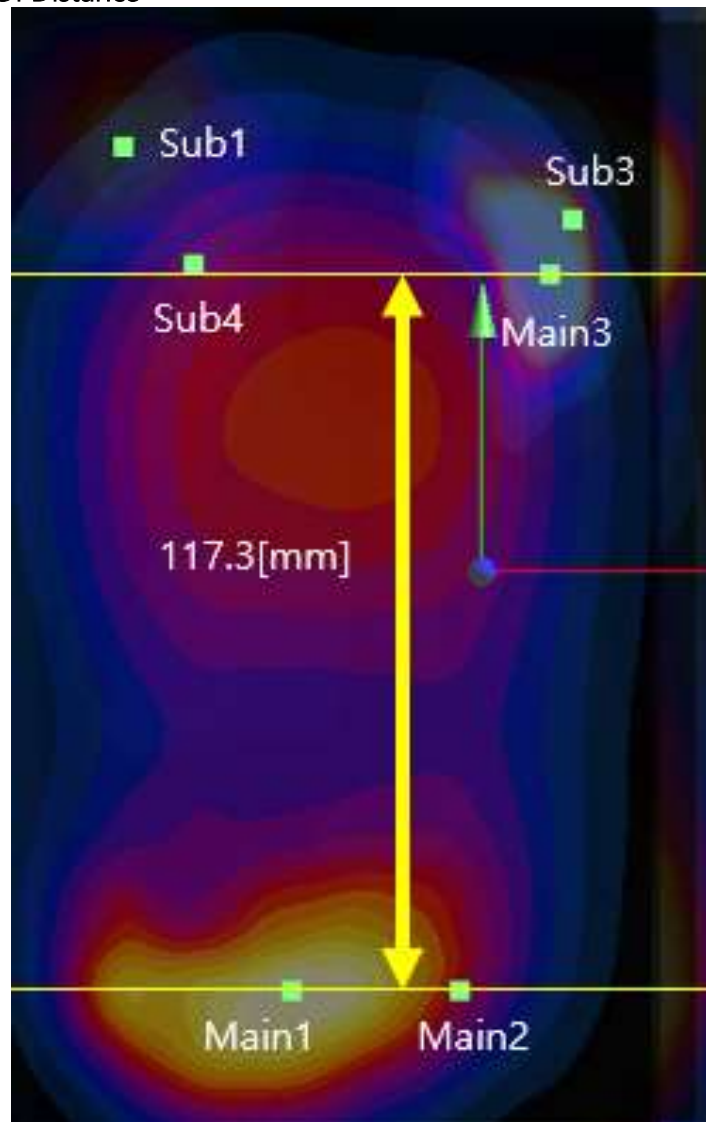
Mode/Band	Antenna	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
GSM850	Main 1	-32	-82	-205	0.944
GSM1900	Main 2	-3.5	-68.5	-204	0.497
WCDMA 2	Main 2	-24.5	-83.5	-205	0.351
WCDMA 4	Main 2	2.5	-68.5	-204	0.420
WCDMA 5	Main 1	1	-77.5	-204	0.799
LTE 2	Main 2	-5.5	-80.5	-210	0.312
LTE 12	Main 1	-26.5	-79.5	-209	0.469
LTE 26	Main 1	-37	-85.5	-209	0.867
LTE 41	Main 2	-5.5	-80.5	-210	0.185
LTE 66	Main 2	-5.5	-79	-210	0.373
NR n5	Main 1	-28	-68.5	-209	0.690
NR n41	Main 2	-4.6	-71.2	-207	0.264
NR n66	Main 2	-7	-79	-210	0.325

## Ant Group 1

Mode/Band	Antenna	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
LTE 2	Main 3	7	53	-208	0.537
LTE 66	Main 3	8.5	51.5	-208	0.389
NR n41 SRS1	Sub 1	-57.2	69.6	-206	0.086
NR n41 SRS2	Main 3	11	48.8	-207	0.179
NR n41 SRS3	Sub 4	-47	50.4	-205	0.063
NR n77	Sub 3	14.6	57.6	-206	0.555

**Group analysis SPLSR**

	AG0		AG1			
	Main1	Main 2	Main 3	Sub1	Sub3	Sub4
Max Y-axis(mm)	-68.5	-68.5				
Max SAR(W/kg)	0.944	0.497				
Min Y-axis(mm)			48.8	69.6	57.6	50.4
Max SAR(W/kg)			0.537	0.086	0.555	0.063
Main 1 Distance			117.3	138.1	126.1	118.9
Main 1 SPLSR			0.015	0.008	0.015	0.008
Main 2 Distance			117.3	138.1	126.1	118.9
Main 2 SPLSR			0.009	0.003	0.009	0.004

**Nearest AG0/AG1 Distance**


## Simultaneous Hotspot/BodyWorn Rear Position Spatial AG0+WLAN/BT, AG1+WLAN/BT

Ant Group 0	Worst SAR	WLAN 2.4G SISO	WLAN 2.4G MIMO	WLAN 5G SISO	WLAN 5G MIMO	BT	WWAN +WLAN2.4G SISO	WWAN +WLAN2.4G MIMO	WWAN +WLAN5G SISO	WWAN +WLAN5G MIMO	WWAN +BT	WWAN +WLAN5G SISO +BT	WWAN +WLAN5G MIMO +BT
Main1	0.944	0.352	0.513	0.087	0.380	0.203	1.296	1.457	1.031	1.324	1.147	1.234	<b>1.527</b>
Main 2	0.497	0.352	0.513	0.087	0.380	0.203	0.849	1.010	0.584	0.877	0.700	0.787	1.080

Ant Group 1	Worst SAR	WLAN 2.4G SISO	WLAN 2.4G MIMO	WLAN 5G SISO	WLAN 5G MIMO	BT	WWAN +WLAN2.4G SISO	WWAN +WLAN2.4G MIMO	WWAN +WLAN5G SISO	WWAN +WLAN5G MIMO	WWAN +BT	WWAN +WLAN5G SISO +BT	WWAN +WLAN5G MIMO +BT
Main 3	0.537	0.352	0.513	0.087	0.380	0.203	0.889	1.050	0.624	0.917	0.740	0.827	1.120
Sub1	0.086	0.352	0.513	0.087	0.380	0.203	0.438	0.599	0.173	0.466	0.289	0.376	0.669
Sub3	0.555	0.352	0.513	0.087	0.380	0.203	0.907	1.068	0.642	0.935	0.758	0.845	1.138
Sub4	0.063	0.352	0.513	0.087	0.380	0.203	0.415	0.576	0.150	0.443	0.266	0.353	0.646



## 15. Measurement Uncertainty

The measured SAR was  $<1.5$  W/Kg for 1g SAR and  $<3.75$  W/Kg For 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

## 16. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/5K3RA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/5K9GA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/59CHA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/59RAA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/5R4XF1/A/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/5SD0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/55B8A1/C/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F11/5K3RA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/5K9GA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/59CHA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/59RAA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/5R4XF1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/5SD0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/55B8A1/A/01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0306	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331915309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331922309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331949309	12/26/2023	Annual	12/26/2024
TESTO	608-H1/Thermometer	83348029	03/27/2023	Annual	03/27/2024
TESTO	608-H1/Thermometer	83348021	03/27/2023	Annual	03/27/2024
SPEAG	DAE4	1687	07/18/2023	Annual	07/18/2024
SPEAG	DAE4	652	01/17/2024	Annual	01/17/2025
SPEAG	DAE4	504	01/30/2024	Annual	01/30/2025
SPEAG	DAE4	466	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	648	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	1629	08/21/2023	Annual	08/21/2024
SPEAG	DAE4	780	07/04/2023	Annual	07/04/2024
SPEAG	DAE4	1417	02/16/2024	Annual	02/16/2025
SPEAG	DAE4	446	11/16/2023	Annual	11/16/2024
SPEAG	E-Field Probe ES3DV3	3076	07/18/2023	Annual	07/18/2024
SPEAG	E-Field Probe EX3DV4	7732	06/20/2023	Annual	06/20/2024
SPEAG	E-Field Probe EX3DV4	7370	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	3903	07/19/2023	Annual	07/19/2024
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7679	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	7622	11/24/2023	Annual	11/24/2024
SPEAG	E-Field Probe EX3DV4	7751	10/06/2023	Annual	10/06/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	CLA13	1016	09/21/2023	Annual	09/21/2024
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/18/2025
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1105	11/20/2023	Annual	11/20/2023
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
Agilent	11636B/Power Divider	58698	01/25/2024	Annual	01/25/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	00141013	01/11/2024	Annual	01/11/2025
SPEAG	Vector Reflectometer	21393001	03/30/2023	Annual	03/30/2024
SPEAG	MXA Signal Analyzer	MY49100108	01/09/2024	Annual	01/09/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2023	Annual	12/26/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
R&S	Wireless Communication Test Set CMW500	115733	03/23/2023	Annual	03/23/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/23/2023	Annual	03/23/2024
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024
OSI	Power Divider	#3	05/26/2023	Annual	05/26/2024
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/07/2023	Annual	06/07/2024
HP	Dual Directional Coupler	16072	09/21/2023	Annual	09/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261987928	01/18/2024	Annual	01/18/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8820C	6201074225	01/17/2024	Annual	01/17/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/23/2023	Annual	03/23/2024
Anritsu	Radio Communication Tester MT8821C	6201502997	05/26/2023	Annual	05/26/2024
Anritsu	Radio Communication Tester MT8821C	6262044720	11/28/2023	Annual	11/28/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Anritsu	Radio Communication Tester MT8821C	6201664725	01/17/2024	Annual	01/17/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/26/2023	Annual	05/26/2024
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/16/2024	Annual	01/16/2025

\* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

## 17. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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## Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

Report No.
HCT-SR-2403-FC004-P