

APPENDIX A: SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

A.1 PLIMIT ADJUSTMENTS

SAR test results and powers are referenced from the original filing. Only EFS Plimits were adjusted for simultaneous sum purposes.

Table A-1
DSI = 3 P_{Limit} Calculations – GSM 1900 Antenna B Head SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 1900	GSM	B	0337M	1:8.3	-0.20	1850.20	512	31.0	29.83	Right Cheek	0	0.032	1.309	0.042	0.175	0.109	35.5	34.0	28.0
Head	GSM 1900	GSM	B	0337M	1:8.3	-0.10	1850.20	512	31.0	29.83	Right Tilt	0	0.026	1.309	0.034	0.142	0.089	36.4		
Head	GSM 1900	GSM	B	0337M	1:8.3	0.02	1850.20	512	31.0	29.83	Left Cheek	0	0.045	1.309	0.099	0.246	0.154	34.0		
Head	GSM 1900	GSM	B	0337M	1:8.3	0.04	1850.20	512	31.0	29.83	Left Tilt	0	0.029	1.309	0.038	0.158	0.099	36.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-2
DSI = 3 P_{Limit} Calculations UMTS 850 Antenna A+C Head SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 850	RMC	A+C	0343M	1:1	0.02	826.40	4132	25.3	24.36	Right Cheek	0	0	0.130	1.242	0.161	0.378	0.236	33.2	33.2	29.0
Head	UMTS 850	RMC	A+C	0343M	1:1	-0.04	826.40	4132	25.3	24.36	Right Tilt	0	0	0.071	1.242	0.088	0.207	0.129	35.8		
Head	UMTS 850	RMC	A+C	0343M	1:1	-0.07	826.40	4132	25.3	24.36	Left Cheek	0	0	0.096	1.242	0.119	0.279	0.174	34.5		
Head	UMTS 850	RMC	A+C	0343M	1:1	0.00	826.40	4132	25.3	24.36	Left Tilt	0	0	0.064	1.242	0.079	0.186	0.116	36.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table A-3
DSI = 3 P_{Limit} Calculations – UMTS 850 Antenna A Head SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 850	RMC	A	0343M	1:1	0.01	826.40	4132	25.3	24.36	Right Cheek	0	9	0.064	1.242	0.079	0.186	0.116	36.2	36.0	29.0
Head	UMTS 850	RMC	A	0343M	1:1	0.00	826.40	4132	25.3	24.36	Right Tilt	0	100	0.043	1.242	0.053	0.125	0.078	38.0		
Head	UMTS 850	RMC	A	0343M	1:1	0.01	826.40	4132	25.3	24.36	Left Cheek	0	9	0.067	1.242	0.083	0.195	0.122	36.0		
Head	UMTS 850	RMC	A	0343M	1:1	0.07	826.40	4132	25.3	24.36	Left Tilt	0	9	0.041	1.242	0.051	0.119	0.074	38.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table A-4
DSI = 3 P_{Limit} Calculations – UMTS 1900 Antenna B Head SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Head	UMTS 1900	RMC	B	0311M	1:1	0.08	1852.40	9262	24.8	23.69	Right Cheek	0	0.096	1.291	0.124	0.259	0.162	33.8	33.5	28.0	
Head	UMTS 1900	RMC	B	0311M	1:1	0.07	1852.40	9262	24.8	23.69	Right Tilt	0	0.051	1.291	0.066	0.138	0.086	36.6			
Head	UMTS 1900	RMC	B	0311M	1:1	0.09	1852.40	9262	24.8	23.69	Left Cheek	0	0.109	1.291	0.139	0.278	0.174	33.5			
Head	UMTS 1900	RMC	B	0311M	1:1	0.06	1852.40	9262	24.8	23.69	Left Tilt	0	0.059	1.291	0.076	0.159	0.099	35.9			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table A-5
DSI = 3 P_{Limit} Calculations – LTE Band 12 Antenna A+C Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]		
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	0.09	207.50	23095	0.0	25.2	24.06	1	49	Right Cheek	0	45	0.126	1.300	0.164	0.381	0.246	33.0	32.0	29.0		
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	0.16	207.50	23095	1.0	24.2	23.07	25	25	Right Cheek	0	45	0.102	1.297	0.132	0.400	0.250	32.9				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	-0.10	207.50	23095	0.0	25.2	24.06	1	49	Right Tilt	0	11	0.076	1.300	0.099	0.237	0.148	35.2				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	-0.05	207.50	23095	1.0	24.2	23.07	25	25	Right Tilt	0	11	0.062	1.297	0.074	0.223	0.139	35.3				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	0.19	207.50	23095	0.0	25.2	24.06	1	49	Left Cheek	0	11	0.089	1.300	0.090	0.215	0.134	35.4				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	0.04	207.50	23095	1.0	24.2	23.07	25	25	Left Cheek	0	11	0.064	1.297	0.083	0.213	0.137	35.0				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	-0.01	207.50	23095	0.0	25.2	24.06	1	49	Left Tilt	0	9	0.053	1.300	0.060	0.165	0.103	36.8				
Head	LTE Band 12	10	QPSK	A+C	0363M	1:1	0.15	207.50	23095	1.0	24.2	23.07	25	25	Left Tilt	0	9	0.032	1.297	0.016	0.047	0.029	42.2				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head															
Spatial Peak												1.6 W/kg (mW/g)															
Uncontrolled Exposure/General Population												averaged over 1 gram															

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Table A-6
DSI = 3 P_{Limit} Calculations – LTE Band 12 Antenna A Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	0363M	1:1	-0.13	707.50	23095	0.0	25.2	24.06	1	49	Right Cheek	0	9	0.077	1.300	0.100	0.240	0.150	35.1	35.1	29.0
Head	LTE Band 12	10	QPSK	A	0363M	1:1	0.09	707.50	23095	1.0	24.2	23.07	25	25	Right Cheek	0	9	0.057	1.297	0.074	0.223	0.139	35.5		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	0.07	707.50	23095	0.0	25.2	24.06	1	49	Right Tilt	0	9	0.051	1.300	0.066	0.159	0.099	36.9		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	0.06	707.50	23095	1.0	24.2	23.07	25	25	Right Tilt	0	9	0.029	1.297	0.051	0.153	0.096	37.1		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	0.03	707.50	23095	0.0	25.2	24.06	1	49	Left Cheek	0	103	0.051	1.300	0.066	0.159	0.099	36.9		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	0.01	707.50	23095	1.0	24.2	23.07	25	25	Left Cheek	0	103	0.037	1.297	0.048	0.145	0.091	37.3		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	-0.21	707.50	23095	0.0	25.2	24.06	1	49	Left Tilt	0	67	0.030	1.300	0.046	0.109	0.068	38.6		
Head	LTE Band 12	10	QPSK	A	0363M	1:1	-0.04	707.50	23095	1.0	24.2	23.07	25	25	Left Tilt	0	67	0.025	1.297	0.032	0.098	0.061	39.0		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-7
DSI = 3 P_{Limit} Calculations – LTE Band 26 Antenna A+C Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	-0.05	831.500	26865	0.0	25.5	24.60	1	0	Right Cheek	0	108	0.124	1.230	0.153	0.341	0.213	33.6		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.01	831.500	26865	1.0	24.5	23.49	36	0	Right Cheek	0	108	0.097	1.262	0.122	0.340	0.219	33.6		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.05	831.500	26865	0.0	25.5	24.60	1	0	Right Tilt	0	0	0.069	1.230	0.085	0.190	0.119	36.2		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	-0.07	831.500	26865	1.0	24.5	23.49	36	0	Right Tilt	0	0	0.056	1.262	0.071	0.199	0.124	36.0		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.15	831.500	26865	0.0	25.5	24.60	1	0	Left Cheek	0	108	0.084	1.230	0.103	0.231	0.144	35.1	33.6	29.0
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.02	831.500	26865	1.0	24.5	23.49	36	0	Left Cheek	0	108	0.067	1.262	0.085	0.239	0.149	35.2		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.01	831.500	26865	0.0	25.5	24.60	1	0	Left Tilt	0	108	0.061	1.260	0.075	0.189	0.105	36.7		
Head	LTE Band 26	15	QPSK	A+C	0357M	1:1	0.01	831.500	26865	1.0	24.5	23.49	36	0	Left Tilt	0	108	0.053	1.262	0.064	0.181	0.113	36.4		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-8
DSI = 3 P_{Limit} Calculations – LTE Band 26 Antenna A Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.02	831.50	26865	0.0	25.5	24.60	1	0	Right Cheek	0	9	0.062	1.230	0.076	0.171	0.107	36.6	36.4	29.0
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.07	831.50	26865	1.0	24.5	23.49	36	0	Right Cheek	0	9	0.051	1.262	0.064	0.181	0.113	36.4		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.09	831.50	26865	0.0	25.5	24.60	1	0	Right Tilt	0	9	0.038	1.230	0.047	0.105	0.066	38.6		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.09	831.50	26865	1.0	24.5	23.49	36	0	Right Tilt	0	9	0.029	1.262	0.037	0.103	0.064	38.8		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	-0.05	831.50	26865	0.0	25.5	24.60	1	0	Left Cheek	0	64	0.046	1.230	0.057	0.127	0.079	37.4		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	1.0	24.5	23.49	36	0	Left Cheek	0	64	0.027	1.262	0.047	0.132	0.083	37.8		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.09	831.50	26865	0.0	25.5	24.60	1	0	Left Tilt	0	64	0.033	1.230	0.041	0.101	0.057	39.4		
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.09	831.50	26865	1.0	24.5	23.49	36	0	Left Tilt	0	64	0.030	1.262	0.038	0.107	0.067	38.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-9
DSI = 3 P_{Limit} Calculations – LTE Band 66 Antenna B Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.07	1720.00	132072	0.0	25.5	24.13	1	0	Right Cheek	0	0.079	1.371	0.108	0.216	0.135	35.1		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.09	1720.00	132072	1.0	24.5	23.08	50	0	Right Cheek	0	0.061	1.387	0.079	0.199	0.124	35.5		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.09	1720.00	132072	0.0	25.5	24.13	1	0	Right Tilt	0	0.064	1.371	0.088	0.175	0.109	36.0		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.05	1720.00	132072	1.0	24.5	23.08	50	0	Right Tilt	0	0.057	1.387	0.079	0.199	0.124	35.5		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.08	1720.00	132072	0.0	25.5	24.13	1	0	Left Cheek	0	0.077	1.371	0.108	0.211	0.132	35.3		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.19	1720.00	132072	1.0	24.5	23.08	50	0	Left Cheek	0	0.058	1.387	0.080	0.202	0.126	35.4		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.06	1720.00	132072	0.0	25.5	24.13	1	0	Left Tilt	0	0.074	1.371	0.101	0.202	0.126	35.4		
Head	LTE Band 66	20	QPSK	B	0357M	1:1	0.01	1720.00	132072	1.0	24.5	23.08	50	0	Left Tilt	0	0.051	1.387	0.076	0.192	0.120	35.6		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table A-10
DSI = 3 P_{Limit} Calculations – LTE Band 25 Antenna B Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.04	1860.00	26140	0.0	25.0	23.89	1	0	Right Cheek	0	0.117	1.291	0.145	0.324	0.203	33.3		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.00	1860.00	26140	1.0	24.0	22.70	50	25	Right Cheek	0	0.080	1.349	0.121	0.342	0.214	33.1		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.06	1860.00	26140	0.0	25.0	23.89	1	0	Right Tilt	0	0.076	1.291	0.098	0.220	0.138	35.0		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.08	1860.00	26140	1.0	24.0	22.70	50	25	Right Tilt	0	0.061	1.349	0.082	0.212	0.145	34.8		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.09	1860.00	26140	0.0	25.0	23.89	1	0	Left Cheek	0	0.117	1.291	0.151	0.338	0.211	33.2		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.04	1860.00	26140	1.0	24.0	22.70	50	25	Left Cheek	0	0.102	1.349	0.138	0.388	0.243	32.6		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.09	1860.00	26140	0.0	25.0	23.89	1	0	Left Tilt	0	0.056	1.291	0.072	0.162	0.101	36.4		
Head	LTE Band 25	20	QPSK	B	0357M	1:1	0.17	1860.00	26140	1.0	24.0	22.70	50	25	Left Tilt	0	0.049	1.349	0.060	0.162	0.114	35.8		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table A-11
DSI = 3 P_{Limit} Calculations – NR Band n71 Antenna A+C Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPEI [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.16	680.50	136100	DFT-F-OFDM	0.0	25.0	23.65	1	1	Right Cheek	0	0	0.111	1.365	0.152	0.479	0.299	33.1		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.04	680.50	136100	DFT-F-OFDM	0.0	25.0	23.80	90	49	Right Cheek	0	0	0.107	1.318	0.141	0.446	0.279	33.5		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	0.09	680.50	136100	CP-OFDM	1.5	23.5	22.20	1	1	Right Cheek	0	0	0.079	1.349	0.107	0.476	0.288	33.1		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.06	680.50	136100	DFT-F-OFDM	0.0	25.0	23.80	1	1	Right Tib	0	0	0.043	1.385	0.186	0.516	0.37	34.2		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.14	680.50	136100	DFT-F-OFDM	0.0	25.0	23.65	90	49	Right Tib	0	0	0.046	1.318	0.061	0.432	0.120	33.7		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.06	680.50	136100	CP-OFDM	1.5	23.5	22.80	1	1	Left Tib	0	0	0.077	1.318	0.077	0.476	0.288	33.1		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.08	680.50	136100	DFT-F-OFDM	0.0	25.0	23.80	90	49	Left Cheek	0	0	0.077	1.318	0.101	0.521	0.201	34.9		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	0.09	680.50	136100	DFT-F-OFDM	0.0	25.0	23.65	1	1	Left Tib	0	0	0.047	1.365	0.064	0.203	0.127	36.6		
Head	NR Band n71	35	QPSK	A+C	0357M	1:1	-0.17	680.50	136100	DFT-F-OFDM	0.0	25.0	23.80	90	49	Left Tib	0	0	0.049	1.318	0.065	0.204	0.118	36.8		
ANSI/IEEE C63.17-2012 - SAFETY LIMIT																			1.6 W/kg (mW/g)							
Spatial Peak																			Head							
Uncontrolled Exposure/General Population																			average over 1 gram							

Table A-12
DSI = 3 P_{Limit} Calculations – NR Band n71 Antenna A Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]			
Head	NR Band n71	35	QPSK	A	0320M	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	25.0	23.65	1	1	Right Cheek	0	63	0.069	1.365	0.094	0.298	0.186	35.2					
Head	NR Band n71	35	QPSK	A	0320M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	22.80	90	49	Right Cheek	0	63	0.066	1.318	0.086	0.271	0.169	35.6					
Head	NR Band n71	35	QPSK	A	0320M	1:1	-0.02	680.50	136100	CP-OFDM	1.5	23.5	22.30	1	1	Right Cheek	0	63	0.045	1.348	0.061	0.271	0.169	35.6					
Head	NR Band n71	35	QPSK	A	0320M	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	25.0	23.65	1	1	Right Thr	0	63	0.085	1.365	0.048	0.151	0.094	38.2					
Head	NR Band n71	35	QPSK	A	0320M	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	25.0	23.65	90	49	Right Thr	0	63	0.044	1.318	0.046	0.161	0.086	38.4					
Head	NR Band n71	35	QPSK	A	0320M	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.0	23.65	1	1	Left Cheek	0	63	0.058	1.365	0.079	0.250	0.156	36.0					
Head	NR Band n71	35	QPSK	A	0320M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	23.80	90	49	Left Cheek	0	63	0.051	1.318	0.067	0.213	0.133	36.7					
Head	NR Band n71	35	QPSK	A	0320M	1:1	0.14	680.50	136100	DFT-s-OFDM	0.0	25.0	23.85	1	1	Left Thr	0	63	0.031	1.365	0.043	0.134	0.084	38.7					
Head	NR Band n71	35	QPSK	A	0320M	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	23.80	90	49	Left Thr	0	63	0.030	1.318	0.040	0.125	0.078	39.0					
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																Spatial Peak		Head										1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																		averaged over 1 gram											

Table A-13
DSI = 3 P_{Limit} Calculations – NR Band n5 Antenna A+C Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.12	836.50	167300	DFT-s-OFDM	25.0	23.98	1	53	Right Cheek	0	108	0.108	1.265	0.117	0.385	0.241	33.6		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.03	836.50	167300	DFT-s-OFDM	25.0	24.03	50	28	Right Cheek	0	108	0.123	1.250	0.156	0.441	0.278	33.0		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.10	836.50	167300	CP-OFDM	23.5	22.40	1	1	Right Cheek	0	108	0.087	1.271	0.111	0.440	0.275	33.0		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.16	836.50	167300	DFT-s-OFDM	25.0	23.98	1	53	Right Thr	0	108	0.046	1.265	0.058	0.164	0.103	37.3		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.03	836.50	167300	DFT-s-OFDM	25.0	24.03	50	28	Right Thr	0	108	0.093	1.250	0.109	0.309	0.208	39.1		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.05	836.50	167300	DFT-s-OFDM	25.0	23.98	1	53	Left Cheek	0	108	0.077	1.265	0.097	0.375	0.172	35.1		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.06	836.50	167300	DFT-s-OFDM	25.0	24.03	50	28	Left Cheek	0	108	0.068	1.250	0.085	0.240	0.150	35.7		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.01	836.50	167300	DFT-s-OFDM	25.0	24.03	50	28	Left Thr	0	108	0.061	1.265	0.077	0.217	0.136	36.1		
Head	NR Band n5	20	QPSK	A+C	0327M	1:1	0.05	836.50	167300	DFT-s-OFDM	25.0	24.03	50	28	Left Thr	0	108	0.062	1.250	0.078	0.218	0.136	36.1		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT												Spatial Peak		Head										1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population														averaged over 1 gram											

Table A-14
DSI = 3 P_{Limit} Calculations – NR Band n5 Antenna A Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.17	836.50	167300	DFT-s-OFDM	0.0	25.0	23.98	1	53	Right Cheek	0	101	0.096	1.265	0.071	0.200	0.125	36.4			
Head	NR Band n5	20	QPSK	A	0327M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Right Cheek	0	101	0.051	1.250	0.066	0.187	0.117	36.7			
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.06	836.50	167300	CP-OFDM	1.5	23.5	22.46	1	1	Right Cheek	0	101	0.085	1.271	0.044	0.177	0.111	37.0			
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	25.0	23.98	1	53	Right Thr	0	101	0.031	1.265	0.019	0.111	0.069	39.0			
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Right Thr	0	101	0.031	1.250	0.019	0.109	0.068	39.1			
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	23.98	1	53	Left Cheek	0	101	0.061	1.265	0.066	0.182	0.114	36.9	36.4	29.5	
Head	NR Band n5	20	QPSK	A	0327M	1:1	-0.18	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Left Cheek	0	101	0.042	1.250	0.061	0.181	0.114	36.8			
Head	NR Band n5	20	QPSK	A	0327M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	23.98	1	53	Left Thr	0	101	0.032	1.265	0.040	0.114	0.071	38.9			
Head	NR Band n5	20	QPSK	A	0327M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Left Thr	0	101	0.034	1.250	0.043	0.120	0.075	38.7			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT														Spatial Peak		Head										1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																averaged over 1 gram											

Table A-15
DSI = 3 P_{Limit} Calculations – NR Band n66 Antenna B Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]		
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.74	1	1	Right Cheek	0	0.138	1.191	0.164	0.557	0.348	32.3				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	120	61	Right Cheek	0	0.130	1.225	0.159	0.540	0.338	32.4				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.07	1745.00	349000	CP-OFDM	1.5	23.0	22.18	1	1	Right Cheek	0	0.093	1.208	0.112	0.538	0.536	32.4				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.74	1	1	Right Thr	0	0.091	1.191	0.096	0.327	0.240	34.6				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	120	61	Right Thr	0	0.080	1.225	0.098	0.322	0.288	34.5	32.3			
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.74	1	1	Left Cheek	0	0.025	1.191	0.030	0.105	0.063	38.7				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	120	61	Left Cheek	0	0.027	1.225	0.033	0.112	0.070	39.2				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.74	1	1	Left Thr	0	0.028	1.191	0.033	0.113	0.071	39.2				
Head	NR Band n66	45	QPSK	B	0344M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	120	61	Left Thr	0	0.031	1.225	0.038	0.128	0.081	38.7				
ANSI/IEEE C63.1-1997 - SAFETY LIMIT														Spatial Peak		Head										1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																averaged over 1 gram											

Table A-16
DSI = 3 P_{Limit} Calculations – NR Band n25 Antenna B Head SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.01	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	1	1	Right Cheek	0	0.069	1.265	0.087	0.312	0.208	14.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.09	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	108	54	Right Cheek	0	0.068	1.303	0.089	0.337	0.211	14.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.04	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	1	1	Right Thigh	0	0.066	1.265	0.071	0.297	0.168	14.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.26	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	108	54	Right Thigh	0	0.065	1.303	0.084	0.328	0.161	14.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.07	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	1	1	Left Cheek	0	0.082	1.265	0.104	0.394	0.246	18.4		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.13	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	108	54	Left Cheek	0	0.081	1.303	0.103	0.404	0.245	18.4	33.8	
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.01	1882.50	376200	CP-OFDM	1.5	22.5	21.24	1	1	Left Cheek	0	0.064	1.317	0.072	0.388	0.243	18.9		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.07	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	1	1	Left Thigh	0	0.037	1.265	0.034	0.130	0.081	18.6		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.07	1882.50	376200	DFT-s-OFDM	0.0	24.0	22.88	108	54	Left Thigh	0	0.028	1.303	0.033	0.124	0.078	18.6		
AND/EUTRA CEN 1882 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg							
Uncontrolled Exposure/General Population																		averaged over 10gsm							

A.2 SAR TEST RESULTS

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation. See the original filing for all other operations that were not evaluated in this permissive change.

Table A-17
DSI = 1 P_{Limit} Calculations – UMTS 1750 Antenna G Phablet SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 1750	RMC	G	1476M	1:1	-0.04	1732.40	1412	15.94	Back	9	0.093	30.2	26.2	16.0
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.00	1732.40	1412	15.94	Front	0	0.233	26.2		
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.04	1732.40	1412	15.94	Top	11	0.072	31.3		
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.12	1732.40	1412	15.94	Right	0	0.058	32.2		

Table A-18
DSI = 5 P_{Limit} Calculations – UMTS 1750 Antenna G Phablet SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.01	1732.40	1412	15.94	Back	0	0.338	24.6	19.7	16.0
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.00	1732.40	1412	15.94	Front	0	0.233	26.2		
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.01	1732.40	1412	15.94	Top	0	1.050	19.7		
Phablet	UMTS 1750	RMC	G	1476M	1:1	0.12	1732.40	1412	15.94	Right	0	0.058	32.2		

FCC ID: A3LSMF966B	PART 0 SAR CHAR REPORT	Approved by: Technical Manager
Document S/N: 1M2504220045-02.A3L	DUT Type: Portable Handset	Appendix A: Page 4 of 4

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