

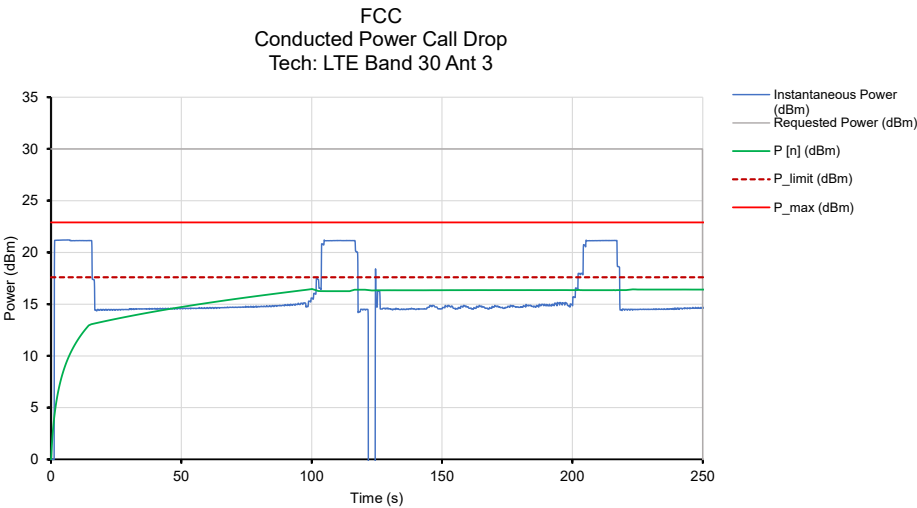


Figure 8-23: Time-averaged conducted TX power over time for Call Disconnection case (LTE Band 30)

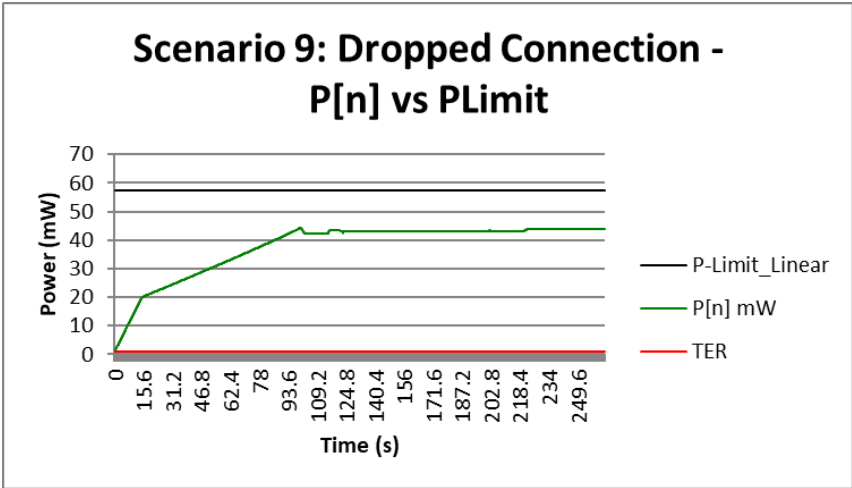


Figure 8-24: Normalized Time-averaged Power for Call Disconnection case (LTE Band 30)

	mW
Plimit (Plimit,nom with uncertainty)	57.5
Max P[n]	44.3
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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8.7 Scenario 7: Time-Varying Tx Power (ENDC)

In this scenario, maximum TX power is requested by a call box for each RAT, and technology hand-off at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.7.1. The measurement setup is shown in Figure 6-1.

This test aims to validate the TA-SAR algorithm with technology hand-off during the test period from LTE Band 5 to NR n66 NSA. The corresponding detailed test procedure is described in section 4.7.1. Figure 8-25 demonstrates the DUT's instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the $P_{limit,nom}$, the P_{limit} , and P_{max} . The hand-off is configured at the time instance of 120 and 240 seconds. It is observed in the figure that the time-averaged TX power of the individual RAT is below its own $P_{limit,nom}$. Figure 8-26 illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using the equation listed in section 4.1. As seen in this figure, the time-averaged normalized SAR does not exceed the normalized limit of 1.

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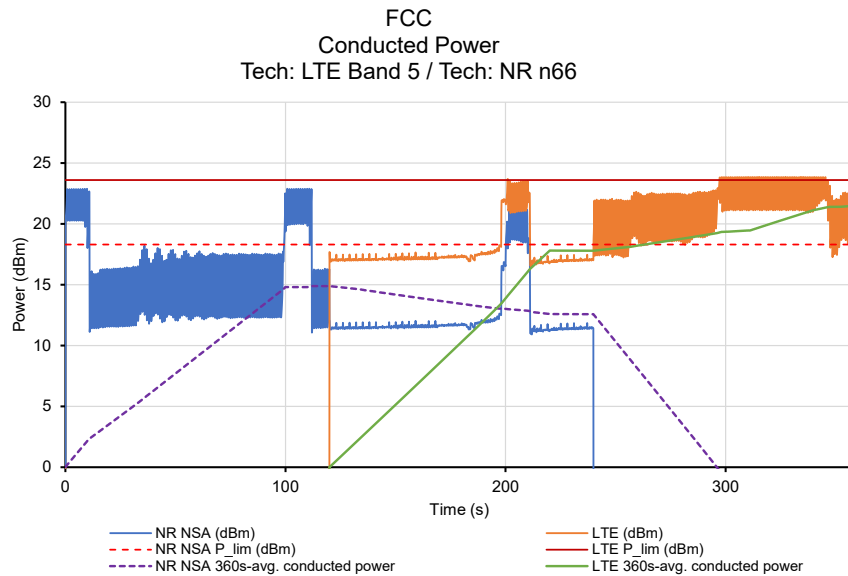


Figure 8-25: Time-averaged conducted TX power over time for Technology Hand-Off (ENDC) case (LTE Band 5 to NR n66 NSA)

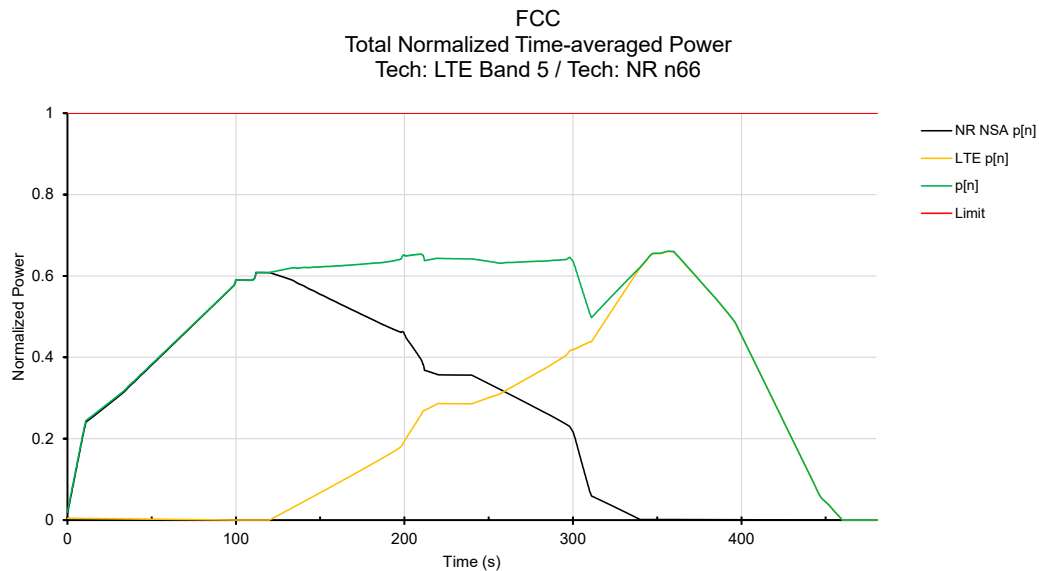


Figure 8-26: Normalized Time-averaged Power for Technology Hand-Off (ENDC) case (LTE Band 5 to NR n66 NSA)

Normalized P_{limit}	1.000
Highest normalized P_{avg}	0.661
Validation result: Pass	

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8.8 Scenario 8: Time-Varying Tx Power (Inter-Band ULCA)

In this scenario, maximum TX power is requested by a call box for each RAT, and technology hand-off at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.7.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TA-SAR algorithm with technology hand-off during the test period from LTE Band 5 to LTE Band 66. The corresponding detailed test procedure is described in section 4.7.2. Figure 8-27 demonstrates the DUT’s instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the $P_{limit,nom}$, the P_{limit} , and P_{max} . The hand-off is configured at the time instance of 160 and 320 seconds. It is observed in the figure that the time-averaged TX power of the individual RAT is below its own $P_{limit,nom}$. Figure 8-28 illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using the equation listed in section 4.1. As seen in this figure, the time-averaged normalized SAR does not exceed the normalized limit of 1.

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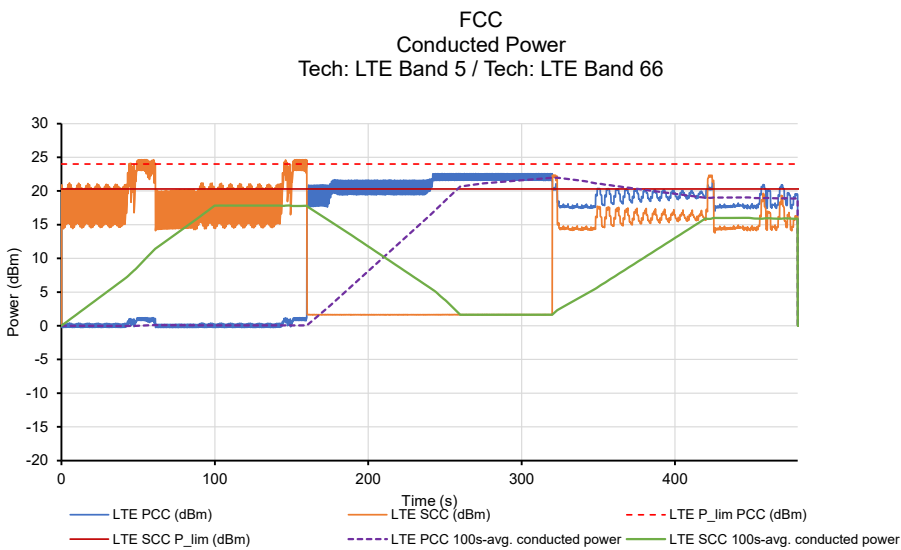


Figure 8-27: Time-averaged conducted TX power over time for Technology Hand-Off case (LTE Band 5 to LTE Band 66)

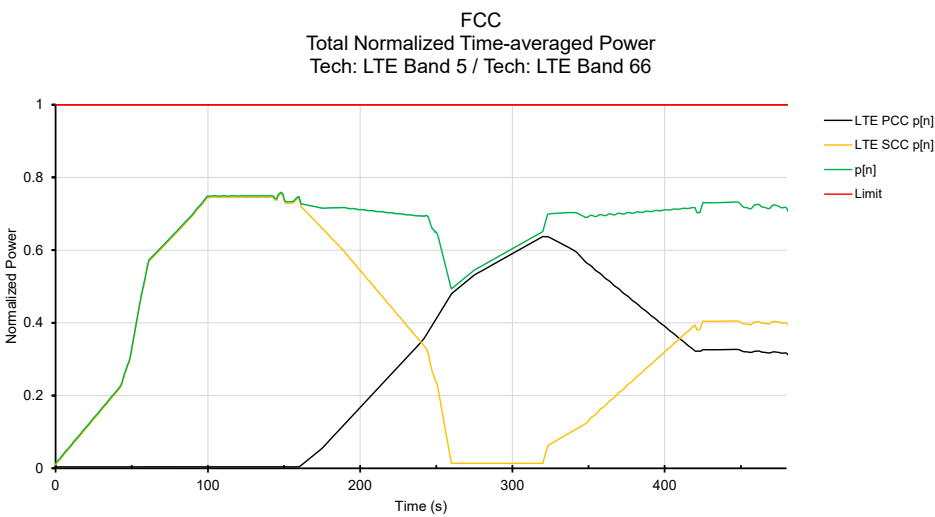


Figure 8-28: Normalized Time-averaged Power for Technology Hand-Off case (LTE Band 5 to LTE Band 66)

Normalized P_{limit}	1.000
Highest normalized P_{avg}	0.759
Validation result: Pass	

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed etc.	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
8/12/2025	835 Head	22.2	835	0.015	40.842	0.009	41.578	1.78%	-1.78%
			835	0.020	40.833	0.009	41.580	-1.52%	-1.52%
			850	0.024	40.776	0.016	41.580	0.87%	-1.74%
			855	0.025	40.740	0.008	41.584	-2.78%	0.68%
			855	0.025	40.933	0.008	41.578	-3.89%	1.00%
8/21/2025	835 Head	21.7	835	0.010	41.983	0.009	41.580	3.93%	1.11%
			850	0.015	41.933	0.010	41.580	2.97%	1.89%
			1700	1.520	39.330	1.343	40.145	-1.04%	-2.28%
			1700	1.520	39.330	1.400	40.141	-0.37%	-2.29%
			1710	1.514	39.210	1.348	40.138	-1.04%	-2.29%
8/12/2025	1750 Head	22.2	1720	1.310	39.260	1.054	40.138	-1.11%	-2.30%
			1750	1.303	39.180	1.060	40.107	-0.96%	-2.30%
			1750	1.308	39.180	1.171	40.079	-0.95%	-2.30%
			1770	1.371	39.140	1.383	40.047	-0.87%	-2.37%
			1780	1.380	39.110	1.394	40.038	-0.79%	-2.24%
8/21/2025	1750 Head	21.7	1700	1.520	39.330	1.343	40.145	-1.04%	-2.28%
			1700	1.520	39.330	1.400	40.141	-0.37%	-2.29%
			1710	1.514	39.210	1.348	40.141	-1.19%	-0.21%
			1720	1.310	40.262	1.048	40.138	-1.19%	-0.21%
			1750	1.307	40.850	1.064	40.128	-1.95%	-0.39%
8/21/2025	1900 Head	21.7	1850	1.411	40.087	1.400	40.000	-0.82%	0.14%
			1860	1.420	40.033	1.400	40.000	-1.43%	0.08%
			1880	1.431	39.990	1.400	40.000	-2.35%	-0.01%
			1900	1.440	39.980	1.400	40.000	-2.22%	-0.00%
			1910	1.452	39.970	1.400	40.000	-1.77%	-0.00%
08/21/2025	1900 Head	21.3	1910	1.452	39.970	1.400	40.000	-1.77%	-0.00%
			1930	1.457	39.970	1.400	40.000	-1.77%	-0.00%
			1950	1.462	39.970	1.400	40.000	-1.77%	-0.00%
			1880	1.428	39.133	1.400	40.000	-2.05%	-2.17%
			1890	1.440	39.111	1.400	40.000	-2.99%	-2.31%
08/21/2025	2450 Head	24.4	1910	1.452	39.970	1.400	40.000	-1.77%	-0.00%
			1930	1.457	39.970	1.400	40.000	-1.77%	-0.00%
			1950	1.462	39.970	1.400	40.000	-1.77%	-0.00%
			1880	1.428	39.133	1.400	40.000	-2.05%	-2.17%
			1890	1.440	39.111	1.400	40.000	-2.99%	-2.31%
08/25/2025	2450 Head	24.4	2000	1.460	39.970	1.400	40.000	-2.64%	-0.07%
			2020	1.470	39.970	1.400	40.000	-2.64%	-0.07%
			2040	1.480	39.970	1.400	40.000	-2.64%	-0.07%
			2060	1.490	39.970	1.400	40.000	-2.64%	-0.07%
			2080	1.500	39.970	1.400	40.000	-2.64%	-0.07%
08/27/2025	2450 Head	24.7	2100	1.510	39.970	1.400	40.000	-2.64%	-0.07%
			2120	1.520	39.970	1.400	40.000	-2.64%	-0.07%
			2140	1.530	39.970	1.400	40.000	-2.64%	-0.07%
			2160	1.540	39.970	1.400	40.000	-2.64%	-0.07%
			2180	1.550	39.970	1.400	40.000	-2.64%	-0.07%
08/21/2025	3600 Head	19.8	2200	1.560	39.970	1.400	40.000	-2.64%	-0.07%
			2220	1.570	39.970	1.400	40.000	-2.64%	-0.07%
			2240	1.580	39.970	1.400	40.000	-2.64%	-0.07%
			2260	1.590	39.970	1.400	40.000	-2.64%	-0.07%
			2280	1.600	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2300	1.610	39.970	1.400	40.000	-2.64%	-0.07%
			2320	1.620	39.970	1.400	40.000	-2.64%	-0.07%
			2340	1.630	39.970	1.400	40.000	-2.64%	-0.07%
			2360	1.640	39.970	1.400	40.000	-2.64%	-0.07%
			2380	1.650	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2400	1.660	39.970	1.400	40.000	-2.64%	-0.07%
			2420	1.670	39.970	1.400	40.000	-2.64%	-0.07%
			2440	1.680	39.970	1.400	40.000	-2.64%	-0.07%
			2460	1.690	39.970	1.400	40.000	-2.64%	-0.07%
			2480	1.700	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2500	1.710	39.970	1.400	40.000	-2.64%	-0.07%
			2520	1.720	39.970	1.400	40.000	-2.64%	-0.07%
			2540	1.730	39.970	1.400	40.000	-2.64%	-0.07%
			2560	1.740	39.970	1.400	40.000	-2.64%	-0.07%
			2580	1.750	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2600	1.760	39.970	1.400	40.000	-2.64%	-0.07%
			2620	1.770	39.970	1.400	40.000	-2.64%	-0.07%
			2640	1.780	39.970	1.400	40.000	-2.64%	-0.07%
			2660	1.790	39.970	1.400	40.000	-2.64%	-0.07%
			2680	1.800	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2700	1.810	39.970	1.400	40.000	-2.64%	-0.07%
			2720	1.820	39.970	1.400	40.000	-2.64%	-0.07%
			2740	1.830	39.970	1.400	40.000	-2.64%	-0.07%
			2760	1.840	39.970	1.400	40.000	-2.64%	-0.07%
			2780	1.850	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2800	1.860	39.970	1.400	40.000	-2.64%	-0.07%
			2820	1.870	39.970	1.400	40.000	-2.64%	-0.07%
			2840	1.880	39.970	1.400	40.000	-2.64%	-0.07%
			2860	1.890	39.970	1.400	40.000	-2.64%	-0.07%
			2880	1.900	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	2900	1.910	39.970	1.400	40.000	-2.64%	-0.07%
			2920	1.920	39.970	1.400	40.000	-2.64%	-0.07%
			2940	1.930	39.970	1.400	40.000	-2.64%	-0.07%
			2960	1.940	39.970	1.400	40.000	-2.64%	-0.07%
			2980	1.950	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3000	1.960	39.970	1.400	40.000	-2.64%	-0.07%
			3020	1.970	39.970	1.400	40.000	-2.64%	-0.07%
			3040	1.980	39.970	1.400	40.000	-2.64%	-0.07%
			3060	1.990	39.970	1.400	40.000	-2.64%	-0.07%
			3080	2.000	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3100	2.010	39.970	1.400	40.000	-2.64%	-0.07%
			3120	2.020	39.970	1.400	40.000	-2.64%	-0.07%
			3140	2.030	39.970	1.400	40.000	-2.64%	-0.07%
			3160	2.040	39.970	1.400	40.000	-2.64%	-0.07%
			3180	2.050	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3200	2.060	39.970	1.400	40.000	-2.64%	-0.07%
			3220	2.070	39.970	1.400	40.000	-2.64%	-0.07%
			3240	2.080	39.970	1.400	40.000	-2.64%	-0.07%
			3260	2.090	39.970	1.400	40.000	-2.64%	-0.07%
			3280	2.100	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3300	2.110	39.970	1.400	40.000	-2.64%	-0.07%
			3320	2.120	39.970	1.400	40.000	-2.64%	-0.07%
			3340	2.130	39.970	1.400	40.000	-2.64%	-0.07%
			3360	2.140	39.970	1.400	40.000	-2.64%	-0.07%
			3380	2.150	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3400	2.160	39.970	1.400	40.000	-2.64%	-0.07%
			3420	2.170	39.970	1.400	40.000	-2.64%	-0.07%
			3440	2.180	39.970	1.400	40.000	-2.64%	-0.07%
			3460	2.190	39.970	1.400	40.000	-2.64%	-0.07%
			3480	2.200	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3500	2.210	39.970	1.400	40.000	-2.64%	-0.07%
			3520	2.220	39.970	1.400	40.000	-2.64%	-0.07%
			3540	2.230	39.970	1.400	40.000	-2.64%	-0.07%
			3560	2.240	39.970	1.400	40.000	-2.64%	-0.07%
			3580	2.250	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3600	2.260	39.970	1.400	40.000	-2.64%	-0.07%
			3620	2.270	39.970	1.400	40.000	-2.64%	-0.07%
			3640	2.280	39.970	1.400	40.000	-2.64%	-0.07%
			3660	2.290	39.970	1.400	40.000	-2.64%	-0.07%
			3680	2.300	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3700	2.300	39.970	1.400	40.000	-2.64%	-0.07%
			3720	2.310	39.970	1.400	40.000	-2.64%	-0.07%
			3740	2.320	39.970	1.400	40.000	-2.64%	-0.07%
			3760	2.330	39.970	1.400	40.000	-2.64%	-0.07%
			3780	2.340	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3800	2.350	39.970	1.400	40.000	-2.64%	-0.07%
			3820	2.360	39.970	1.400	40.000	-2.64%	-0.07%
			3840	2.370	39.970	1.400	40.000	-2.64%	-0.07%
			3860	2.380	39.970	1.400	40.000	-2.64%	-0.07%
			3880	2.390	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	3900	2.400	39.970	1.400	40.000	-2.64%	-0.07%
			3920	2.410	39.970	1.400	40.000	-2.64%	-0.07%
			3940	2.420	39.970	1.400	40.000	-2.64%	-0.07%
			3960	2.430	39.970	1.400	40.000	-2.64%	-0.07%
			3980	2.440	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	4000	2.450	39.970	1.400	40.000	-2.64%	-0.07%
			4020	2.460	39.970	1.400	40.000	-2.64%	-0.07%
			4040	2.470	39.970	1.400	40.000	-2.64%	-0.07%
			4060	2.480	39.970	1.400	40.000	-2.64%	-0.07%
			4080	2.490	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	4100	2.500	39.970	1.400	40.000	-2.64%	-0.07%
			4120	2.510	39.970	1.400	40.000	-2.64%	-0.07%
			4140	2.520	39.970	1.400	40.000	-2.64%	-0.07%
			4160	2.530	39.970	1.400	40.000	-2.64%	-0.07%
			4180	2.540	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	4200	2.550	39.970	1.400	40.000	-2.64%	-0.07%
			4220	2.560	39.970	1.400	40.000	-2.64%	-0.07%
			4240	2.570	39.970	1.400	40.000	-2.64%	-0.07%
			4260	2.580	39.970	1.400	40.000	-2.64%	-0.07%
			4280	2.590	39.970	1.400	40.000	-2.64%	-0.07%
08/19/2025	3600 Head	20.8	430						

9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix C.

Table 9-2
System Verification Results – 1g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
AM4	835	HEAD	08/12/2025	23.5	22.1	0.20	4d040	7360	534	1.950	9.590	9.750	1.67%
AM4	835	HEAD	08/21/2025	23.0	21.7	0.20	4d040	7360	534	2.020	9.590	10.100	5.32%
AM4	1750	HEAD	08/12/2025	23.5	22.1	0.10	1104	7360	534	3.730	35.600	37.300	4.78%
AM3	1750	HEAD	08/21/2025	24.0	23.3	0.10	1104	7552	1676	3.680	35.600	36.800	3.37%
AM3	1900	HEAD	08/21/2025	24.0	23.3	0.10	5d131	7552	1676	4.210	39.800	42.100	5.78%
AM4	1900	HEAD	08/21/2025	23.0	21.7	0.10	5d131	7360	534	4.170	39.800	41.700	4.77%
AM14	2600	HEAD	08/25/2025	21.6	22.4	0.10	1068	3746	1237	5.580	56.500	55.800	-1.24%
AM14	2600	HEAD	08/27/2025	21.6	22.7	0.10	1068	3746	1237	6.020	56.500	60.200	6.55%
AM4	3500	HEAD	08/15/2025	23.0	21.6	0.10	1126	7360	534	6.760	66.200	67.600	2.11%
AM4	3500	HEAD	08/19/2025	22.1	20.5	0.10	1126	7360	534	6.890	66.200	68.900	4.08%
AM4	3500	HEAD	08/23/2025	23.0	21.0	0.10	1126	7360	534	6.920	66.200	69.200	4.53%
AM4	3700	HEAD	08/15/2025	23.0	21.6	0.10	1002	7360	534	6.870	67.900	68.700	1.18%
AM4	3700	HEAD	08/19/2025	22.1	20.5	0.10	1002	7360	534	6.810	67.900	68.100	0.29%
AM4	3700	HEAD	08/23/2025	23.0	21.0	0.10	1002	7360	534	6.960	67.900	69.600	2.50%

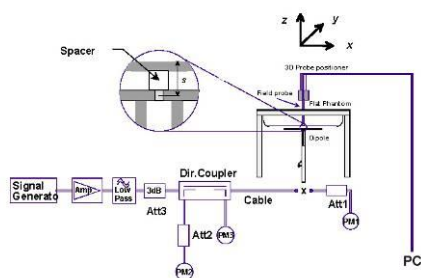


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR TEST RESULTS

10.1 Linearity Validation

The measurement setup is similar to normal fixed power SAR measurement. The difference in SAR measurement setup for linearity validation is that the call box operates under the close loop power control mode to configure DUT's TX target power. Since the SAR chamber is an uncontrolled environment, the path loss between call box antenna and the DUT are well calibrated. The test setup is illustrated in Figure 6-1, and its photos are down in Appendix D.

10.2 SAR Measurement Results for Linearity Validation

In this scenario, the DUT is tested under different levels of status power. All the test cases for this scenario are relegated in Table 7-2, and the test procedure follows section 4.8.2. The measurement setup is shown in Figure 6-1. The following sections will demonstrate case-by-case to show how the linear SAR behaves for each RAT.

The test cases are conducted under NR bands n41. The corresponding detailed test procedure is described in section 4.8.2. The figure demonstrates the DUT's instantaneous measured 1gSAR, the lower bound linearity limit, and the upper bound linearity limit. The measured SAR does not exceed the upper or lower linearity limits.

Table 10-1
Linearity Validation Configurations

Antenna	Band	Pmax [dBm]	Plimit [dBm]	Pmax - Plimit delta [dBm]
1	NR Band n41 - [Ch. 518598]	28.00	16.90	11.10
2b	NR Band n41 - [Ch. 528000]	28.00	19.30	8.70
3	NR Band n41 - [Ch. 528000]	27.50	15.40	12.10
4b	NR Band n41 - [Ch. 528000]	27.00	17.60	9.40

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Table 10-2
NR Band n41 Ant 1 Linearity Validation Results

Ant 1: NR Band n41 - [Ch. 518598]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1 dB)	Upper Bound (+0.7 dB)
28.00	630.96	15.00	11.49	17.00
26.00	398.11	9.52	7.25	10.73
24.00	251.19	6.10	4.58	6.77
22.00	158.49	3.88	2.88	4.26
20.00	100.00	2.32	1.82	2.69
18.00	63.10	1.53	1.15	1.70
16.00	39.81	0.97	0.72	1.07
14.00	25.12	0.62	0.46	0.68
12.00	15.85	0.38	0.29	0.42

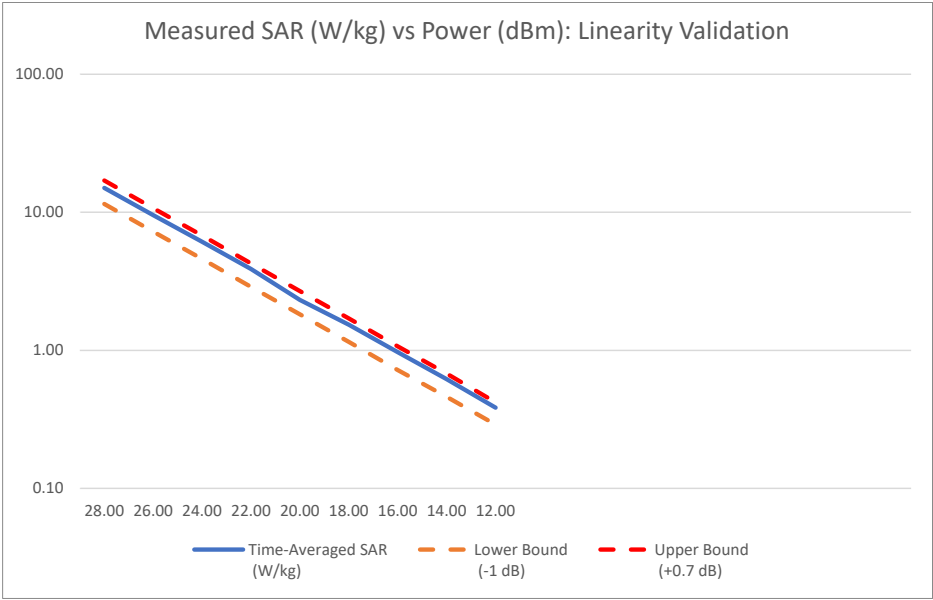


Figure 10-1
NR Band n41 Ant 1 Linearity Validation Results

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Table 10-3
NR Band n41 Ant 2b Linearity Validation Results

Ant 2b: NR Band n41 - [Ch. 528000]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1 dB)	Upper Bound (+0.7 dB)
28.00	630.96	7.38	6.08	8.99
26.00	398.11	4.75	3.84	5.67
24.00	251.19	2.93	2.41	3.57
22.00	158.49	1.89	1.53	2.26
20.00	100.00	1.18	0.96	1.42
18.00	63.10	0.69	0.60	0.89
16.00	39.81	0.46	0.38	0.56
14.00	25.12	0.31	0.24	0.35

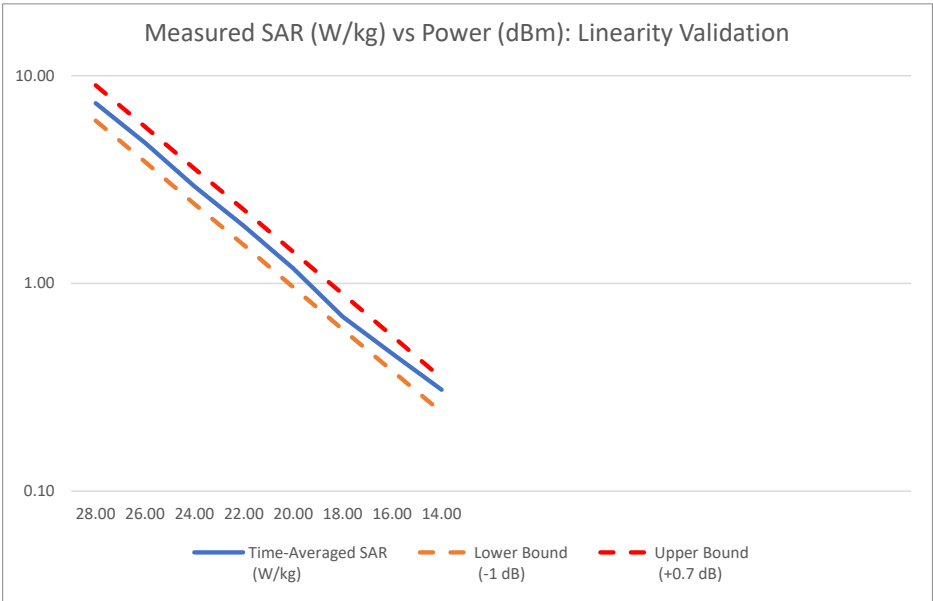


Figure 10-2
NR Band n41 Ant 2b Linearity Validation Results

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Table 10-4
NR Band n41 Ant 3 Linearity Validation Results

Ant 3: NR Band n41 - [Ch. 528000]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1 dB)	Upper Bound (+0.7 dB)
27.50	562.34	18.60	13.65	20.20
25.50	354.81	11.70	8.62	12.75
23.50	223.87	6.54	5.43	8.04
21.50	141.25	4.54	3.43	5.08
19.50	89.13	2.74	2.16	3.20
17.50	56.23	1.68	1.37	2.02
15.50	35.48	1.02	0.86	1.27
13.50	22.39	0.73	0.54	0.80
11.50	14.13	0.39	0.34	0.51
9.50	8.91	0.26	0.21	0.32

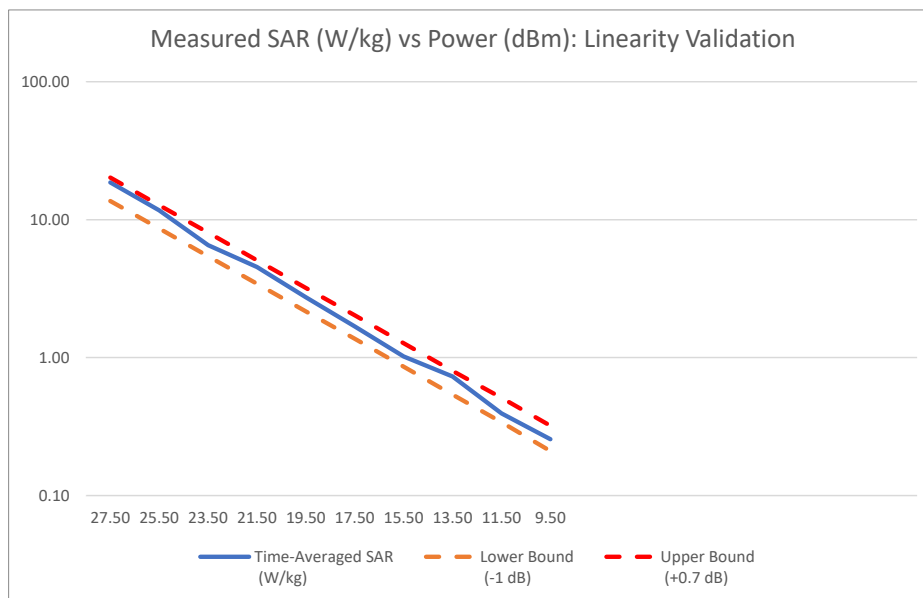


Figure 10-3
NR Band n41 Ant 3 Linearity Validation Results

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Table 10-5
NR Band n41 Ant 4b Linearity Validation Results

Ant 4b: NR Band n41 - [Ch. 528000]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1 dB)	Upper Bound (+0.7 dB)
27.00	501.19	6.18	5.59	8.27
25.00	316.23	3.61	3.53	5.22
23.00	199.53	2.34	2.22	3.29
21.00	125.89	1.71	1.41	2.08
19.00	79.43	1.07	0.89	1.32
17.00	50.12	0.81	0.56	0.82
15.00	31.62	0.37	0.35	0.52
13.00	19.95	0.25	0.22	0.33

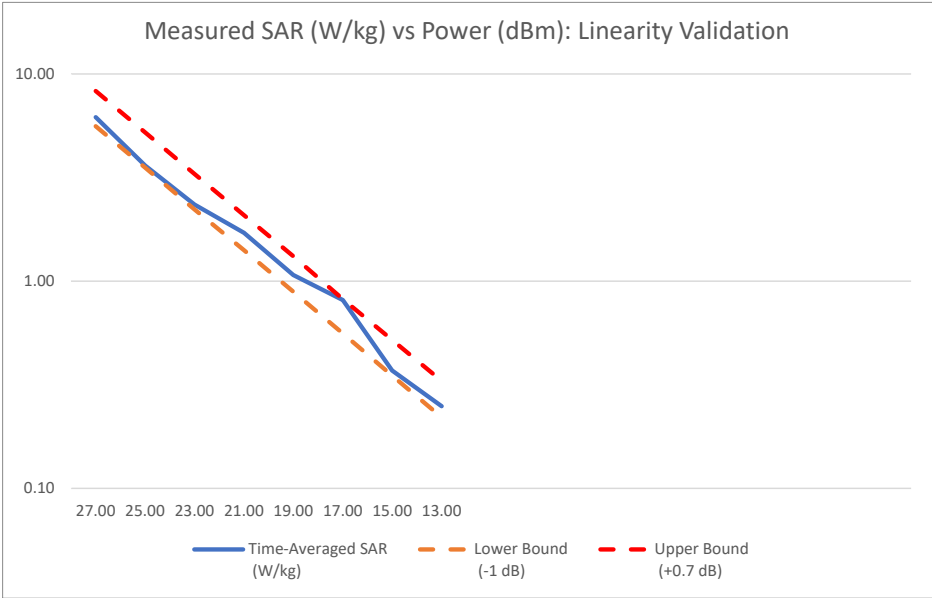


Figure 10-4
NR Band n41 Ant 4b Linearity Validation Results

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10.3 Change in Requested Power

The measurement setup is similar to normal fixed power SAR measurement. The difference in SAR measurement setup for time averaging feature validation is that the call box operates under the close loop power control mode and is connected to the PC, so that the PC can control the call box based on the test sequence to configure DUT's TX target power. The same test procedure used in conducted power setup for time-varying TX power measurement is also used in this section for time-averaging SAR measurements. Since the SAR chamber is an uncontrolled environment, the path loss between call box antenna and the DUT are well calibrated. The test setup is illustrated in Figure 6-1, and its photos are down in Appendix D.

10.4 SAR Measurement Results for Test Case 1: Time-varying TX power transmission

In this scenario, the TAS algorithm is tested under more dynamic power test sequences. Test sequences A, B, and pseudo-random are tabulated in Appendix E. All the test cases for this scenario are relegated in Table 7-2, and the test procedure follows section 4.1.2. The measurement setup is shown in Figure 6-1. The following sections will demonstrate case-by-case to show how the TAS algorithm behaves for each RAT.

The test cases for 4G LTE are conducted under LTE bands B48 PC3 and B66, and the test cases for 5G NR are conducted under NR bands n25 and n48. The corresponding detailed test procedure is described in section 4.1.2. For the figure set of each case, the first figure demonstrates the DUT's instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the P_{limit} , and P_{max} . The second figure illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using equation 2a in section 4.1. For all test cases. The time-averaged SAR does not exceed the FCC limit.

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WCDMA Band 5 results for Test Sequence B

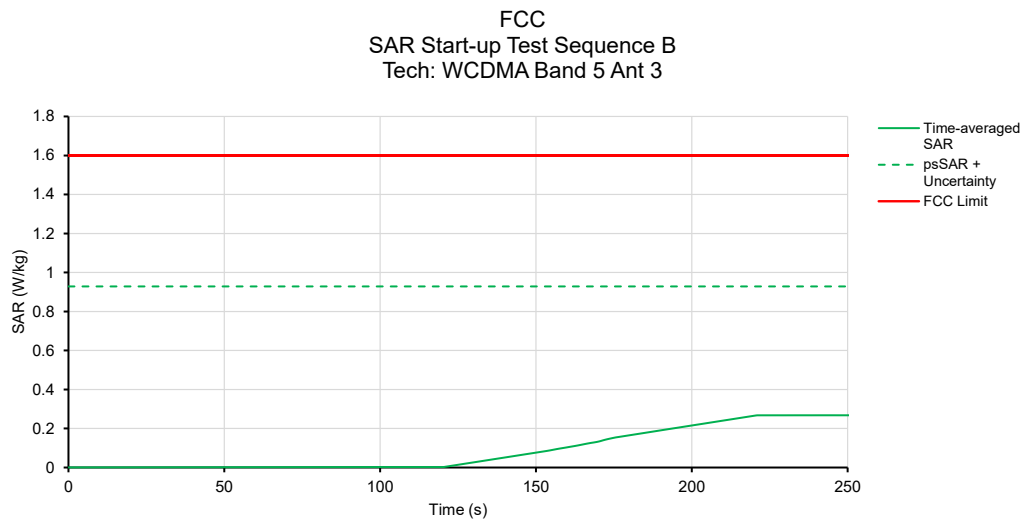


Figure 10-5: Time-averaged SAR for Change in Requested Power case (WCDMA Band 5 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	0.93 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.269 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• LTE Band 66 results for Test Sequence A

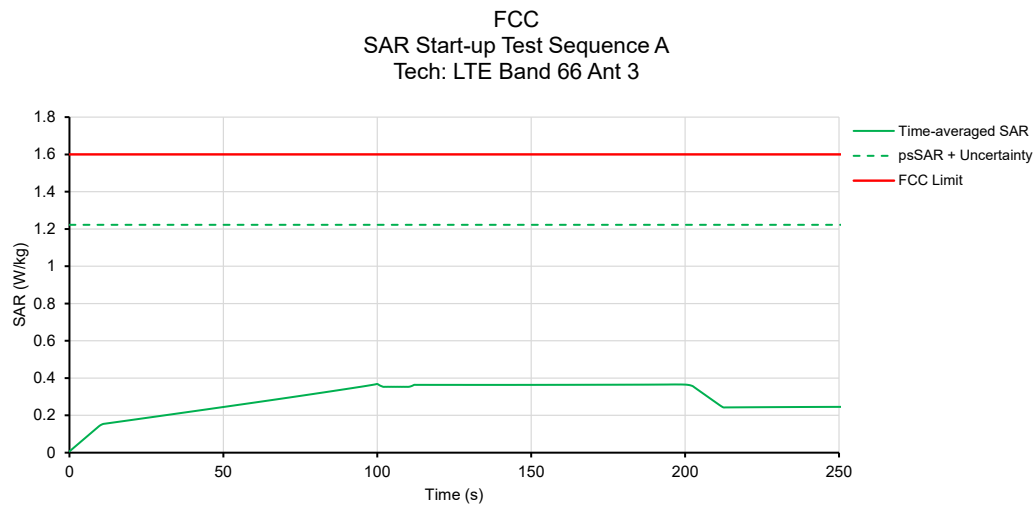


Figure 10-6: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Test Sequence A)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.22 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.368 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• LTE Band 66 results for Test Sequence B

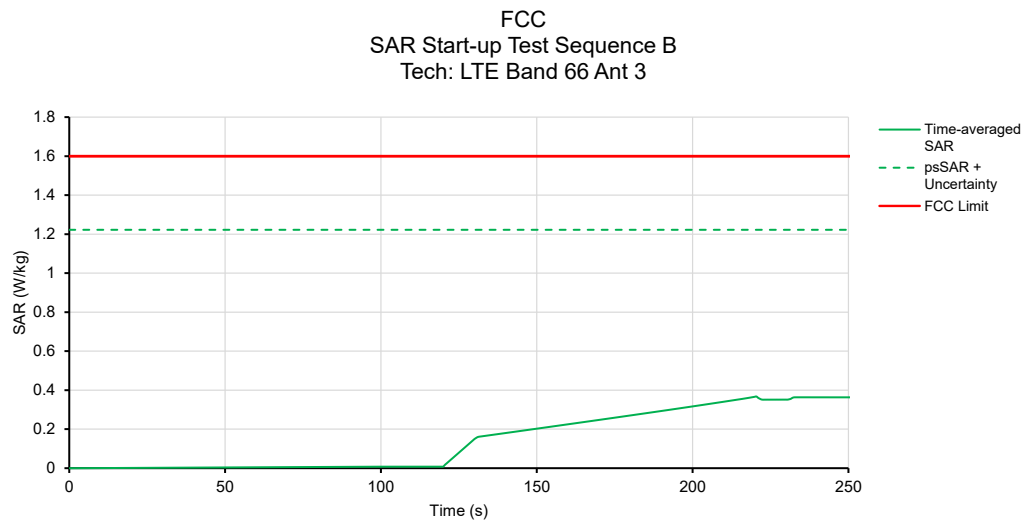


Figure 10-7: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.22 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.368 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• LTE Band 66 results for Pseudo-Random Sequence

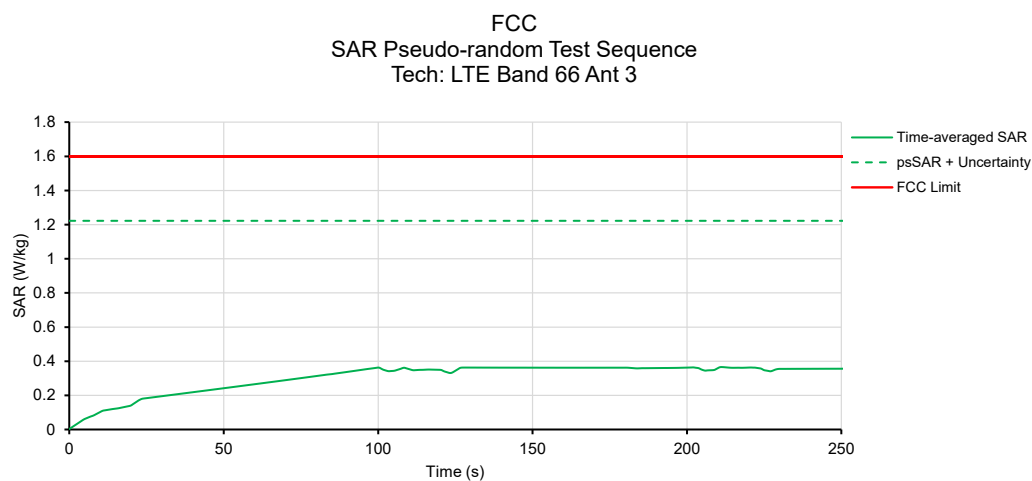


Figure 10-8: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Pseudo-Random Test Sequence)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.22 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.366 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• LTE Band 48 results for Test Sequence B

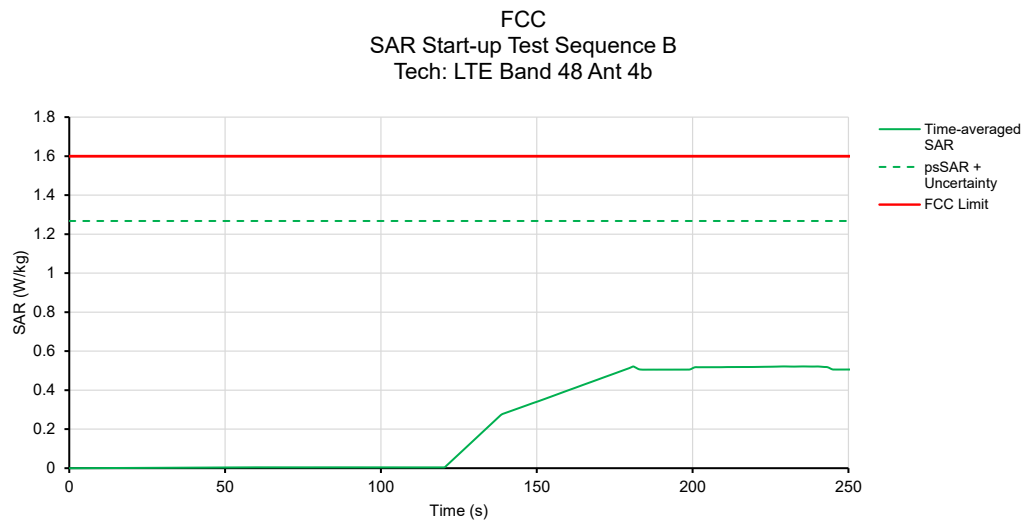


Figure 10-9: Time-averaged SAR for Change in Requested Power case (LTE Band 48 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.27 W/kg
Max TAS[n] 60s Time-Averaged 1gSAR	0.522 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• NR n25 SA results for Test Sequence B

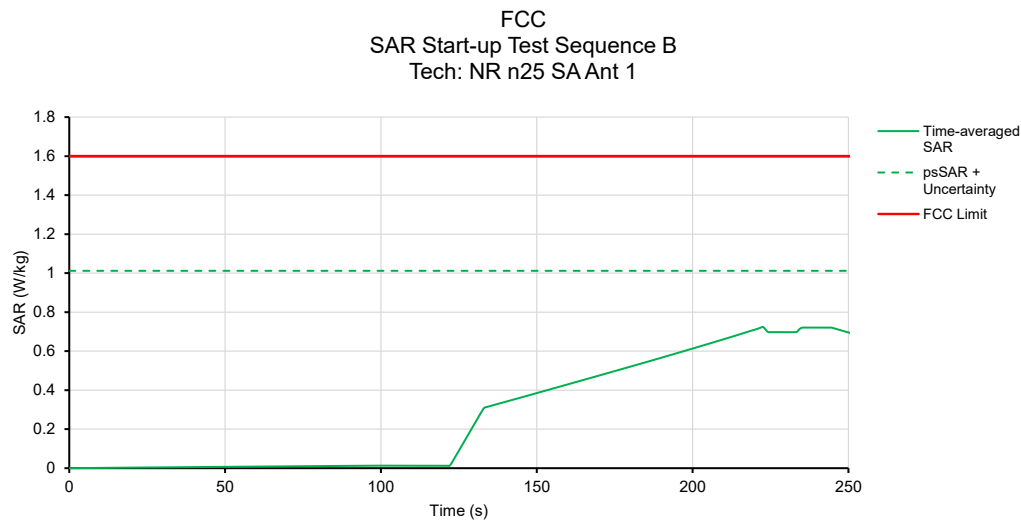


Figure 10-10: Time-averaged SAR for Change in Requested Power case (NR n25 SA – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.01 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.724 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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• NR n48 SA results for Test Sequence B

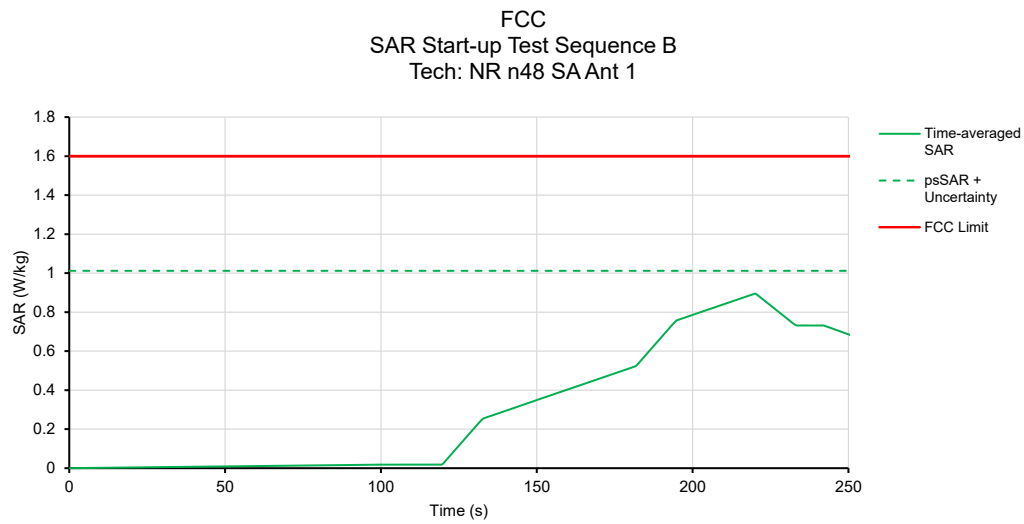


Figure 10-11: Time-averaged SAR for Change in Requested Power case (NR n48 SA – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.23 W/kg
Max TAS[n] 60s Time-Averaged 1gSAR	0.895 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test.	

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11 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	ML2496A	Power Meter	7/3/2025	Annual	7/3/2026	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4GHz	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm / Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm / Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm / Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	M9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
Agilent	M9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Keysight Technologies	E7515B	UXM 5G Wireless Test Platform	6/13/2025	Annual	6/13/2026	MY60193562
NCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2437
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2408
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4216-10	Directional Coupler, 0.5 to 8.0 GHz, 10 dB	CBT	N/A	CBT	1492
Narda	4216-10	Directional Coupler, 0.5 to 8.0 GHz, 10 dB	CBT	N/A	CBT	1493
Rosenbergs	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
Rohde & Schwarz	NRPS	3-Path Dipole Power Sensor	10/28/2024	Annual	10/28/2025	109957
Rohde & Schwarz	NRPS	3-Path Dipole Power Sensor	2/24/2025	Annual	2/24/2026	109961
Rohde & Schwarz	NRPS	3-Path Dipole Power Sensor	10/28/2024	Annual	10/28/2025	109956
Rohde & Schwarz	NRPS05	3-Path Dipole Power Sensor	2/19/2025	Annual	2/19/2026	101339
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	D135V2	835 MHz SAR Dipole	10/25/2024	Annual	10/25/2025	40404
SPEAG	D1750V2	1750 MHz SAR Dipole	9/6/2023	Biennial	9/6/2025	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	5d131
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	921
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/10/2024	Biennial	6/10/2026	1126
SPEAG	D3700V2	3700 MHz SAR Dipole	10/21/2022	Triennial	10/21/2025	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	534
SPEAG	EX30V4	SAR Probe	3/7/2025	Annual	3/7/2026	7360
SPEAG	EX30V4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX30V4	SAR Probe	5/14/2025	Annual	5/14/2026	7552

Notes:

1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
2. Each equipment item is used solely within its respective calibration period.

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12 MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)						RSS	11.5	11.3
Expanded Uncertainty (95% CONFIDENCE LEVEL)						k=2	23.0	22.6

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13 CONCLUSION

13.1 Measurement Conclusion

The SAR evaluation indicates that the DUT complies with the RF radiation exposure limits of the FCC with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF 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. The above analysis is sufficient in displaying the validation of this Cellular TAS algorithm.

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. [3]

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