



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n26	DFT-S QPSK20M	Bottom of Laptop	0	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Bottom of Laptop	0	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	25	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0.05	0.145	0.15
	5GNR-n26	DFT-S QPSK20M	Left Side	0	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Right Side	0	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0.06	0.285	0.30
	5GNR-n26	DFT-S QPSK20M	Top Side	34	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0.16	0.098	0.10
	5GNR-n26	DFT-S QPSK20M	Bottom Side	0	167800	1	1	A	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	25	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	-0.06	0.135	0.15
	5GNR-n26	DFT-S QPSK20M	Left Side	0	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Right Side	0	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	-0.01	0.26	0.28
	5GNR-n26	DFT-S QPSK20M	Top Side	34	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	0.06	0.083	0.09
	5GNR-n26	DFT-S QPSK20M	Bottom Side	0	167800	50	28	A	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	0	167800	1	1	A	ANT 0	w/	18.00	17.80	1.05	-0.18	0.45	0.47
32	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	1	1	A	ANT 0	w/	18.00	17.80	1.05	0.06	0.657	0.69
	5GNR-n26	DFT-S QPSK20M	Rear Face	0	167800	50	28	A	ANT 0	w/	18.00	17.59	1.10	-0.06	0.42	0.46
	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	50	28	A	ANT 0	w/	18.00	17.59	1.10	0.02	0.595	0.65
	5GNR-n26	DFT-S QPSK20M	Top Side	0	164800	1	1	A	ANT 0	w/	18.00	17.71	1.07	0.13	0.587	0.63
	5GNR-n26	DFT-S QPSK20M	Top Side	0	166300	1	1	A	ANT 0	w/	18.00	17.57	1.10	-0.04	0.604	0.66
	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	1	1	B	ANT 0	w/	18.00	17.80	1.05	0.12	0.584	0.61



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n26	DFT-S QPSK20M	Bottom of Laptop	0	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Bottom of Laptop	0	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	25	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	0.02	0.12	0.13
	5GNR-n26	DFT-S QPSK20M	Left Side	0	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Right Side	0	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	-0.06	0.314	0.33
	5GNR-n26	DFT-S QPSK20M	Top Side	34	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	0.05	0.095	0.10
	5GNR-n26	DFT-S QPSK20M	Bottom Side	0	167800	1	1	C	ANT 0	w/o	24.00	23.79	1.05	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	25	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	-0.03	0.109	0.12
	5GNR-n26	DFT-S QPSK20M	Left Side	0	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Right Side	0	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	-0.14	0.291	0.32
	5GNR-n26	DFT-S QPSK20M	Top Side	34	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	0.16	0.079	0.09
	5GNR-n26	DFT-S QPSK20M	Bottom Side	0	167800	50	28	C	ANT 0	w/o	24.00	23.63	1.09	0	<0.001	0.00
	5GNR-n26	DFT-S QPSK20M	Rear Face	0	167800	1	1	C	ANT 0	w/	18.00	17.80	1.05	-0.11	0.41	0.43
	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	1	1	C	ANT 0	w/	18.00	17.80	1.05	-0.19	0.6	0.63
	5GNR-n26	DFT-S QPSK20M	Rear Face	0	167800	50	28	C	ANT 0	w/	18.00	17.59	1.10	0.03	0.319	0.35
	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	50	28	C	ANT 0	w/	18.00	17.59	1.10	-0.07	0.571	0.63
	5GNR-n26	DFT-S QPSK20M	Top Side	0	164800	1	1	C	ANT 0	w/	18.00	17.71	1.07	0.08	0.556	0.59
	5GNR-n26	DFT-S QPSK20M	Top Side	0	166300	1	1	C	ANT 0	w/	18.00	17.57	1.10	-0.13	0.549	0.60
	5GNR-n26	DFT-S QPSK20M	Top Side	0	167800	1	1	D	ANT 0	w/	18.00	17.80	1.05	0.11	0.565	0.59

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	25	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	-0.12	0.127	0.15
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	-0.14	0.457	0.53
	5GNR-n30	DFT-S QPSK10M	Top Side	34	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	-0.04	0.126	0.15
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	1	1	A	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	25	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	0.09	0.114	0.14
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	-0.06	0.436	0.53
	5GNR-n30	DFT-S QPSK10M	Top Side	34	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	-0.08	0.104	0.13
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	25	14	A	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	1	1	A	ANT 0	w/	11.50	11.36	1.03	0.1	0.413	0.43
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	A	ANT 0	w/	11.50	11.36	1.03	-0.03	0.528	0.54
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	25	14	A	ANT 0	w/	11.50	11.16	1.08	-0.11	0.392	0.42
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	25	14	A	ANT 0	w/	11.50	11.16	1.08	-0.15	0.462	0.50
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	B	ANT 0	w/	11.50	11.36	1.03	-0.19	0.506	0.52

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	25	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	0.15	0.11	0.13
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	0.02	0.431	0.50
	5GNR-n30	DFT-S QPSK10M	Top Side	34	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	-0.18	0.132	0.15
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	1	1	C	ANT 0	w/o	23.00	22.35	1.16	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	25	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	-0.03	0.102	0.12
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	-0.16	0.413	0.50
	5GNR-n30	DFT-S QPSK10M	Top Side	34	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	-0.06	0.12	0.15
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	25	14	C	ANT 0	w/o	23.00	22.18	1.21	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	1	1	C	ANT 0	w/	11.50	11.36	1.03	-0.18	0.185	0.19
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	C	ANT 0	w/	11.50	11.36	1.03	0.07	0.498	0.51
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	25	14	C	ANT 0	w/	11.50	11.16	1.08	-0.14	0.174	0.19
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	25	14	C	ANT 0	w/	11.50	11.16	1.08	-0.07	0.46	0.50
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	D	ANT 0	w/	11.50	11.36	1.03	-0.02	0.458	0.47

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	0.17	0.066	0.08
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	0.05	0.056	0.07
	5GNR-n30	DFT-S QPSK10M	Rear Face	4	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	0.02	0.428	0.55
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	17	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	-0.06	0.42	0.54
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	1	1	A	ANT 2	w/o	22.00	20.94	1.28	0.15	0.166	0.21
	5GNR-n30	DFT-S QPSK10M	Rear Face	4	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	0.19	0.406	0.54
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	17	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	0.19	0.405	0.54
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	25	14	A	ANT 2	w/o	22.00	20.77	1.33	-0.07	0.154	0.20
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	1	1	A	ANT 2	w/	10.50	9.41	1.29	0.14	0.137	0.18
33	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	A	ANT 2	w/	10.50	9.41	1.29	-0.02	0.494	0.64
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	25	14	A	ANT 2	w/	10.50	9.20	1.35	-0.06	0.124	0.17
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	25	14	A	ANT 2	w/	10.50	9.20	1.35	-0.17	0.436	0.59
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	B	ANT 2	w/	10.50	9.41	1.29	-0.08	0.472	0.61

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	0.19	0.086	0.11
	5GNR-n30	DFT-S QPSK10M	Bottom of Laptop	0	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	-0.02	0.076	0.10
	5GNR-n30	DFT-S QPSK10M	Rear Face	4	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	0.13	0.344	0.44
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	17	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	-0.14	0.376	0.48
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	1	1	C	ANT 2	w/o	22.00	20.94	1.28	0.14	0.177	0.23
	5GNR-n30	DFT-S QPSK10M	Rear Face	4	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	-0.11	0.324	0.43
	5GNR-n30	DFT-S QPSK10M	Left Side	0	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Right Side	17	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	-0.16	0.363	0.48
	5GNR-n30	DFT-S QPSK10M	Top Side	0	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	0	<0.001	0.00
	5GNR-n30	DFT-S QPSK10M	Bottom Side	0	462000	25	14	C	ANT 2	w/o	22.00	20.77	1.33	-0.11	0.15	0.20
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	1	1	C	ANT 2	w/	10.50	9.41	1.29	0.01	0.075	0.10
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	C	ANT 2	w/	10.50	9.41	1.29	0.17	0.434	0.56
	5GNR-n30	DFT-S QPSK10M	Rear Face	0	462000	25	14	C	ANT 2	w/	10.50	9.20	1.35	0.03	0.062	0.08
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	25	14	C	ANT 2	w/	10.50	9.20	1.35	0.16	0.383	0.52
	5GNR-n30	DFT-S QPSK10M	Right Side	0	462000	1	1	D	ANT 2	w/	10.50	9.41	1.29	-0.04	0.414	0.53



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Rear Face	25	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	0.06	0.133	0.16
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	0.1	0.481	0.56
	5GNR-n38	DFT-S QPSK40M	Top Side	34	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	-0.17	0.132	0.15
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	1	1	A	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Rear Face	25	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0.18	0.12	0.14
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0.15	0.459	0.55
	5GNR-n38	DFT-S QPSK40M	Top Side	34	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0.13	0.109	0.13
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	50	28	A	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	1	1	A	ANT 0	w/	13.00	12.69	1.07	-0.04	0.434	0.46
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	1	1	A	ANT 0	w/	13.00	12.69	1.07	0.02	0.537	0.57
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	50	28	A	ANT 0	w/	13.00	12.63	1.09	0.1	0.412	0.45
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	50	28	A	ANT 0	w/	13.00	12.63	1.09	-0.06	0.486	0.53
	5GNR-n38	DFT-S QPSK40M	Top Side	0	519000	1	1	A	ANT 0	w/	13.00	12.63	1.09	0.15	0.46	0.50
	5GNR-n38	DFT-S QPSK40M	Top Side	0	520000	1	1	A	ANT 0	w/	13.00	12.58	1.10	0.16	0.494	0.54
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	1	1	B	ANT 0	w/	13.00	12.69	1.07	-0.02	0.509	0.54

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Rear Face	25	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	-0.17	0.116	0.14
	5G NR-n38	DFT-S QPSK40M	Left Side	0	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	-0.07	0.453	0.53
	5G NR-n38	DFT-S QPSK40M	Top Side	34	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	0.13	0.139	0.16
	5G NR-n38	DFT-S QPSK40M	Bottom Side	0	518000	1	1	C	ANT 0	w/o	24.00	23.31	1.17	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Rear Face	25	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	-0.14	0.107	0.13
	5G NR-n38	DFT-S QPSK40M	Left Side	0	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Right Side	0	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	-0.11	0.434	0.52
	5G NR-n38	DFT-S QPSK40M	Top Side	34	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	0.1	0.126	0.15
	5G NR-n38	DFT-S QPSK40M	Bottom Side	0	518000	50	28	C	ANT 0	w/o	24.00	23.22	1.20	0	<0.001	0.00
	5G NR-n38	DFT-S QPSK40M	Rear Face	0	518000	1	1	C	ANT 0	w/	13.00	12.69	1.07	0.16	0.195	0.21
	5G NR-n38	DFT-S QPSK40M	Top Side	0	518000	1	1	C	ANT 0	w/	13.00	12.69	1.07	0.17	0.524	0.56
	5G NR-n38	DFT-S QPSK40M	Rear Face	0	518000	50	28	C	ANT 0	w/	13.00	12.63	1.09	-0.01	0.183	0.20
	5G NR-n38	DFT-S QPSK40M	Top Side	0	518000	50	28	C	ANT 0	w/	13.00	12.63	1.09	-0.1	0.43	0.47
	5G NR-n38	DFT-S QPSK40M	Top Side	0	519000	1	1	C	ANT 0	w/	13.00	12.63	1.09	0.19	0.491	0.54
	5G NR-n38	DFT-S QPSK40M	Top Side	0	520000	1	1	C	ANT 0	w/	13.00	12.58	1.10	0.01	0.506	0.56
	5G NR-n38	DFT-S QPSK40M	Top Side	0	520000	1	1	D	ANT 0	w/	13.00	12.58	1.10	-0.05	0.482	0.53

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	0.09	0.092	0.11
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	0.12	0.078	0.09
	5GNR-n38	DFT-S QPSK40M	Rear Face	4	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	0.19	0.589	0.68
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	17	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	-0.19	0.586	0.68
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	1	1	A	ANT 2	w/o	23.50	22.84	1.16	-0.18	0.232	0.27
	5GNR-n38	DFT-S QPSK40M	Rear Face	4	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	-0.09	0.565	0.67
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	17	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	-0.1	0.564	0.67
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	50	28	A	ANT 2	w/o	23.50	22.77	1.18	-0.07	0.215	0.25
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	1	1	A	ANT 2	w/	11.50	11.46	1.01	0.15	0.191	0.19
34	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	A	ANT 2	w/	11.50	11.46	1.01	-0.02	0.688	0.69
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	50	28	A	ANT 2	w/	11.50	11.37	1.03	-0.07	0.173	0.18
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	50	28	A	ANT 2	w/	11.50	11.37	1.03	-0.18	0.608	0.63
	5GNR-n38	DFT-S QPSK40M	Right Side	0	519000	1	1	A	ANT 2	w/	11.50	11.42	1.02	0.07	0.655	0.67
	5GNR-n38	DFT-S QPSK40M	Right Side	0	520000	1	1	A	ANT 2	w/	11.50	11.38	1.03	0.13	0.652	0.67
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	B	ANT 2	w/	11.50	11.46	1.01	-0.04	0.657	0.66

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	-0.17	0.12	0.14
	5GNR-n38	DFT-S QPSK40M	Bottom of Laptop	0	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	-0.04	0.105	0.12
	5GNR-n38	DFT-S QPSK40M	Rear Face	4	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	0.1	0.479	0.56
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	17	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	-0.13	0.524	0.61
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	1	1	C	ANT 2	w/o	23.50	22.84	1.16	-0.02	0.246	0.29
	5GNR-n38	DFT-S QPSK40M	Rear Face	4	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	0.16	0.451	0.53
	5GNR-n38	DFT-S QPSK40M	Left Side	0	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Right Side	17	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	-0.07	0.506	0.60
	5GNR-n38	DFT-S QPSK40M	Top Side	0	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	0	<0.001	0.00
	5GNR-n38	DFT-S QPSK40M	Bottom Side	0	518000	50	28	C	ANT 2	w/o	23.50	22.77	1.18	-0.06	0.209	0.25
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	1	1	C	ANT 2	w/	11.50	11.46	1.01	0.13	0.104	0.11
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	C	ANT 2	w/	11.50	11.46	1.01	-0.17	0.604	0.61
	5GNR-n38	DFT-S QPSK40M	Rear Face	0	518000	50	28	C	ANT 2	w/	11.50	11.37	1.03	0.12	0.087	0.09
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	50	28	C	ANT 2	w/	11.50	11.37	1.03	0.1	0.534	0.55
	5GNR-n38	DFT-S QPSK40M	Right Side	0	519000	1	1	C	ANT 2	w/	11.50	11.42	1.02	0.03	0.572	0.58
	5GNR-n38	DFT-S QPSK40M	Right Side	0	520000	1	1	C	ANT 2	w/	11.50	11.38	1.03	0.19	0.587	0.60
	5GNR-n38	DFT-S QPSK40M	Right Side	0	518000	1	1	D	ANT 2	w/	11.50	11.46	1.01	0.05	0.576	0.58

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	25	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	-0.11	0.125	0.14
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	-0.14	0.41	0.46
	5GNR-n41	DFT-S QPSK100M	Top Side	34	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	0.07	0.124	0.14
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	1	1	A	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	25	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0.12	0.113	0.13
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0.19	0.393	0.46
	5GNR-n41	DFT-S QPSK100M	Top Side	34	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0.03	0.103	0.12
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	135	69	A	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	1	1	A	ANT 0	w/	12.00	11.84	1.04	-0.06	0.408	0.42
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	A	ANT 0	w/	12.00	11.84	1.04	-0.15	0.599	0.62
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	135	69	A	ANT 0	w/	12.00	11.53	1.11	0.05	0.387	0.43
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	135	69	A	ANT 0	w/	12.00	11.53	1.11	0.19	0.549	0.61
	5GNR-n41	DFT-S QPSK100M	Top Side	0	509202	1	1	A	ANT 0	w/	12.00	11.59	1.10	0.04	0.519	0.57
	5GNR-n41	DFT-S QPSK100M	Top Side	0	513900	1	1	A	ANT 0	w/	12.00	11.61	1.09	-0.08	0.531	0.58
	5GNR-n41	DFT-S QPSK100M	Top Side	0	523302	1	1	A	ANT 0	w/	12.00	11.51	1.12	0.14	0.539	0.60
	5GNR-n41	DFT-S QPSK100M	Top Side	0	528000	1	1	A	ANT 0	w/	12.00	11.51	1.12	-0.02	0.522	0.58
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	B	ANT 0	w/	12.00	11.84	1.04	-0.05	0.566	0.59
	5GNR-n41 - HPUE	DFT-S QPSK100M	Right Side	0	518598	1	1	A	ANT 0	w/o	27.00	26.07	1.24	0.01	0.426	0.53

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	25	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	-0.05	0.109	0.12
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	-0.19	0.4	0.45
	5GNR-n41	DFT-S QPSK100M	Top Side	34	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	0.19	0.13	0.15
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	1	1	C	ANT 0	w/o	24.00	23.47	1.13	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	25	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	-0.17	0.101	0.12
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	-0.03	0.373	0.44
	5GNR-n41	DFT-S QPSK100M	Top Side	34	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	0.19	0.118	0.14
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	135	69	C	ANT 0	w/o	24.00	23.33	1.17	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	1	1	C	ANT 0	w/	12.00	11.84	1.04	0.08	0.183	0.19
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	C	ANT 0	w/	12.00	11.84	1.04	-0.02	0.573	0.60
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	135	69	C	ANT 0	w/	12.00	11.53	1.11	-0.18	0.172	0.19
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	135	69	C	ANT 0	w/	12.00	11.53	1.11	-0.1	0.542	0.60
	5GNR-n41	DFT-S QPSK100M	Top Side	0	509202	1	1	C	ANT 0	w/	12.00	11.59	1.10	-0.05	0.495	0.54
	5GNR-n41	DFT-S QPSK100M	Top Side	0	513900	1	1	C	ANT 0	w/	12.00	11.61	1.09	0.17	0.529	0.58
	5GNR-n41	DFT-S QPSK100M	Top Side	0	523302	1	1	C	ANT 0	w/	12.00	11.51	1.12	0.1	0.517	0.58
	5GNR-n41	DFT-S QPSK100M	Top Side	0	528000	1	1	C	ANT 0	w/	12.00	11.51	1.12	0.11	0.538	0.60
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	D	ANT 0	w/	12.00	11.84	1.04	-0.14	0.555	0.58
	5GNR-n41 - HUPE	DFT-S QPSK100M	Right Side	0	518598	1	1	C	ANT 0	w/	27.00	26.07	1.24	-0.15	0.453	0.56

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	0.09	0.088	0.09
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	-0.05	0.075	0.08
	5GNR-n41	DFT-S QPSK100M	Rear Face	4	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	0.14	0.506	0.52
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	17	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	-0.17	0.507	0.52
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	1	1	A	ANT 2	w/o	23.50	23.37	1.03	-0.07	0.221	0.23
	5GNR-n41	DFT-S QPSK100M	Rear Face	4	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	-0.03	0.493	0.52
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	17	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	-0.03	0.496	0.52
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	135	69	A	ANT 2	w/o	23.50	23.28	1.05	0.09	0.206	0.22
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	1	1	A	ANT 2	w/	12.00	11.76	1.06	0.15	0.183	0.19
36	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	1	1	A	ANT 2	w/	12.00	11.76	1.06	0.12	0.642	0.68
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	135	69	A	ANT 2	w/	12.00	11.60	1.10	0.18	0.165	0.18
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	135	69	A	ANT 2	w/	12.00	11.60	1.10	0.07	0.58	0.64
	5GNR-n41	DFT-S QPSK100M	Right Side	0	509202	1	1	A	ANT 2	w/	12.00	11.68	1.08	0.04	0.621	0.67
	5GNR-n41	DFT-S QPSK100M	Right Side	0	513900	1	1	A	ANT 2	w/	12.00	11.64	1.09	0.17	0.613	0.67
	5GNR-n41	DFT-S QPSK100M	Right Side	0	523302	1	1	A	ANT 2	w/	12.00	11.71	1.07	0.18	0.603	0.65
	5GNR-n41	DFT-S QPSK100M	Right Side	0	528000	1	1	A	ANT 2	w/	12.00	11.69	1.07	-0.18	0.619	0.66
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	1	1	B	ANT 2	w/	12.00	11.76	1.06	-0.11	0.616	0.65

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	-0.01	0.114	0.12
	5GNR-n41	DFT-S QPSK100M	Bottom of Laptop	0	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	-0.08	0.101	0.11
	5GNR-n41	DFT-S QPSK100M	Rear Face	4	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	-0.02	0.408	0.42
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	17	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	0.06	0.5	0.52
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	1	1	C	ANT 2	w/o	23.50	23.37	1.03	0	0.235	0.24
	5GNR-n41	DFT-S QPSK100M	Rear Face	4	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	0.04	0.392	0.41
	5GNR-n41	DFT-S QPSK100M	Left Side	0	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Right Side	17	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	0.19	0.483	0.51
	5GNR-n41	DFT-S QPSK100M	Top Side	0	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	0	<0.001	0.00
	5GNR-n41	DFT-S QPSK100M	Bottom Side	0	518598	135	69	C	ANT 2	w/o	23.50	23.28	1.05	-0.18	0.2	0.21
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	1	1	C	ANT 2	w/	12.00	11.76	1.06	0.13	0.1	0.11
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	1	1	C	ANT 2	w/	12.00	11.76	1.06	0.06	0.616	0.65
	5GNR-n41	DFT-S QPSK100M	Rear Face	0	518598	135	69	C	ANT 2	w/	12.00	11.60	1.10	0.09	0.083	0.09
	5GNR-n41	DFT-S QPSK100M	Right Side	0	518598	135	69	C	ANT 2	w/	12.00	11.60	1.10	-0.18	0.559	0.61
	5GNR-n41	DFT-S QPSK100M	Right Side	0	509202	1	1	C	ANT 2	w/	12.00	11.68	1.08	0.17	0.546	0.59
	5GNR-n41	DFT-S QPSK100M	Right Side	0	513900	1	1	C	ANT 2	w/	12.00	11.64	1.09	-0.09	0.56	0.61
	5GNR-n41	DFT-S QPSK100M	Right Side	0	523302	1	1	C	ANT 2	w/	12.00	11.71	1.07	0.11	0.612	0.65
	5GNR-n41	DFT-S QPSK100M	Right Side	0	528000	1	1	C	ANT 2	w/	12.00	11.69	1.07	-0.16	0.622	0.67
	5GNR-n41	DFT-S QPSK100M	Right Side	0	528000	1	1	D	ANT 2	w/	12.00	11.69	1.07	0.12	0.55	0.59



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Rear Face	25	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	-0.19	0.132	0.15
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	-0.05	0.414	0.48
	5GNR-n48	DFT-S QPSK40M	Top Side	34	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	0.06	0.131	0.15
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	1	1	A	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Rear Face	25	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	-0.12	0.12	0.14
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	0.02	0.404	0.48
	5GNR-n48	DFT-S QPSK40M	Top Side	34	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	-0.07	0.109	0.13
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	50	28	A	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	1	1	A	ANT 0	w/	19.00	18.32	1.17	-0.02	0.431	0.50
37	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	1	1	A	ANT 0	w/	19.00	18.32	1.17	-0.01	0.591	0.69
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	50	28	A	ANT 0	w/	19.00	18.26	1.19	-0.14	0.409	0.49
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	50	28	A	ANT 0	w/	19.00	18.26	1.19	0.16	0.482	0.57
	5GNR-n48	DFT-S QPSK40M	Top Side	0	638000	1	1	A	ANT 0	w/	19.00	18.14	1.22	0.12	0.457	0.56
	5GNR-n48	DFT-S QPSK40M	Top Side	0	640444	1	1	A	ANT 0	w/	19.00	18.11	1.23	-0.01	0.491	0.60
	5GNR-n48	DFT-S QPSK40M	Top Side	0	645332	1	1	A	ANT 0	w/	19.00	18.09	1.23	0.03	0.545	0.67
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	1	1	B	ANT 0	w/	19.00	18.32	1.17	0.15	0.479	0.56



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Rear Face	25	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	-0.04	0.115	0.13
	5G NR-n48	DFT-S QPSK40M	Left Side	0	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Right Side	0	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	-0.19	0.386	0.45
	5G NR-n48	DFT-S QPSK40M	Top Side	34	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	0.03	0.138	0.16
	5G NR-n48	DFT-S QPSK40M	Bottom Side	0	642888	1	1	C	ANT 0	w/o	22.00	21.34	1.16	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Rear Face	25	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	-0.1	0.107	0.13
	5G NR-n48	DFT-S QPSK40M	Left Side	0	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Right Side	0	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	-0.17	0.368	0.43
	5G NR-n48	DFT-S QPSK40M	Top Side	34	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	0.03	0.125	0.15
	5G NR-n48	DFT-S QPSK40M	Bottom Side	0	642888	50	28	C	ANT 0	w/o	22.00	21.29	1.18	0	<0.001	0.00
	5G NR-n48	DFT-S QPSK40M	Rear Face	0	642888	1	1	C	ANT 0	w/	19.00	18.32	1.17	0.18	0.194	0.23
	5G NR-n48	DFT-S QPSK40M	Top Side	0	642888	1	1	C	ANT 0	w/	19.00	18.32	1.17	0.18	0.52	0.61
	5G NR-n48	DFT-S QPSK40M	Rear Face	0	642888	50	28	C	ANT 0	w/	19.00	18.26	1.19	-0.18	0.182	0.22
	5G NR-n48	DFT-S QPSK40M	Top Side	0	642888	50	28	C	ANT 0	w/	19.00	18.26	1.19	0.1	0.427	0.51
	5G NR-n48	DFT-S QPSK40M	Top Side	0	638000	1	1	C	ANT 0	w/	19.00	18.14	1.22	0.07	0.488	0.60
	5G NR-n48	DFT-S QPSK40M	Top Side	0	640444	1	1	C	ANT 0	w/	19.00	18.11	1.23	0.01	0.503	0.62
	5G NR-n48	DFT-S QPSK40M	Top Side	0	645332	1	1	C	ANT 0	w/	19.00	18.09	1.23	0.16	0.536	0.66
	5G NR-n48	DFT-S QPSK40M	Top Side	0	645332	1	1	D	ANT 0	w/	19.00	18.09	1.23	0.08	0.505	0.62

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	-0.17	0.073	0.08
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	0.1	0.062	0.07
	5GNR-n48	DFT-S QPSK40M	Rear Face	4	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	0.09	0.473	0.49
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	17	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	-0.11	0.484	0.50
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	1	1	A	ANT 2	w/o	22.00	21.84	1.04	-0.1	0.184	0.19
	5GNR-n48	DFT-S QPSK40M	Rear Face	4	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	0.08	0.448	0.48
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	17	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	-0.16	0.448	0.48
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	50	28	A	ANT 2	w/o	22.00	21.69	1.07	0.13	0.171	0.18
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	1	1	A	ANT 2	w/	14.00	13.78	1.05	-0.07	0.152	0.16
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	1	1	A	ANT 2	w/	14.00	13.78	1.05	-0.03	0.546	0.57
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	50	28	A	ANT 2	w/	14.00	13.77	1.05	0.08	0.137	0.14
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	50	28	A	ANT 2	w/	14.00	13.77	1.05	-0.17	0.482	0.51
	5GNR-n48	DFT-S QPSK40M	Right Side	0	638000	1	1	A	ANT 2	w/	14.00	13.74	1.06	-0.01	0.528	0.56
	5GNR-n48	DFT-S QPSK40M	Right Side	0	640444	1	1	A	ANT 2	w/	14.00	13.71	1.07	0.13	0.518	0.55
	5GNR-n48	DFT-S QPSK40M	Right Side	0	645332	1	1	A	ANT 2	w/	14.00	13.75	1.06	-0.01	0.532	0.56
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	1	1	B	ANT 2	w/	14.00	13.78	1.05	-0.17	0.522	0.55

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	-0.08	0.095	0.10
	5GNR-n48	DFT-S QPSK40M	Bottom of Laptop	0	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	0.07	0.084	0.09
	5GNR-n48	DFT-S QPSK40M	Rear Face	4	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	0.08	0.38	0.40
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	17	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	-0.19	0.415	0.43
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	1	1	C	ANT 2	w/o	22.00	21.84	1.04	0.09	0.196	0.20
	5GNR-n48	DFT-S QPSK40M	Rear Face	4	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	0.02	0.358	0.38
	5GNR-n48	DFT-S QPSK40M	Left Side	0	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Right Side	17	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	-0.11	0.401	0.43
	5GNR-n48	DFT-S QPSK40M	Top Side	0	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	0	<0.001	0.00
	5GNR-n48	DFT-S QPSK40M	Bottom Side	0	642888	50	28	C	ANT 2	w/o	22.00	21.69	1.07	-0.18	0.166	0.18
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	1	1	C	ANT 2	w/	14.00	13.78	1.05	-0.18	0.083	0.09
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	1	1	C	ANT 2	w/	14.00	13.78	1.05	-0.16	0.48	0.50
	5GNR-n48	DFT-S QPSK40M	Rear Face	0	642888	50	28	C	ANT 2	w/	14.00	13.77	1.05	-0.18	0.069	0.07
	5GNR-n48	DFT-S QPSK40M	Right Side	0	642888	50	28	C	ANT 2	w/	14.00	13.77	1.05	-0.08	0.424	0.45
	5GNR-n48	DFT-S QPSK40M	Right Side	0	638000	1	1	C	ANT 2	w/	14.00	13.74	1.06	-0.14	0.454	0.48
	5GNR-n48	DFT-S QPSK40M	Right Side	0	640444	1	1	C	ANT 2	w/	14.00	13.71	1.07	0.15	0.466	0.50
	5GNR-n48	DFT-S QPSK40M	Right Side	0	645332	1	1	C	ANT 2	w/	14.00	13.75	1.06	0.05	0.527	0.56
	5GNR-n48	DFT-S QPSK40M	Right Side	0	645332	1	1	D	ANT 2	w/	14.00	13.75	1.06	0.16	0.457	0.48

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	25	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	-0.1	0.138	0.15
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	-0.1	0.442	0.47
	5G NR-n66	DFT-S QPSK40M	Top Side	34	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	-0.03	0.137	0.15
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	1	1	A	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	25	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	-0.15	0.125	0.14
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	0.02	0.438	0.47
	5G NR-n66	DFT-S QPSK40M	Top Side	34	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	0.08	0.114	0.12
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	108	54	A	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	1	1	A	ANT 0	w/	15.00	14.87	1.03	-0.01	0.451	0.46
39	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	A	ANT 0	w/	15.00	14.87	1.03	-0.04	0.618	0.64
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	108	54	A	ANT 0	w/	15.00	14.75	1.06	-0.06	0.428	0.45
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	108	54	A	ANT 0	w/	15.00	14.75	1.06	0.03	0.589	0.62
	5G NR-n66	DFT-S QPSK40M	Top Side	0	349000	1	1	A	ANT 0	w/	15.00	14.77	1.05	-0.02	0.585	0.61
	5G NR-n66	DFT-S QPSK40M	Top Side	0	352000	1	1	A	ANT 0	w/	15.00	14.72	1.07	-0.05	0.564	0.60
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	B	ANT 0	w/	15.00	14.87	1.03	-0.19	0.596	0.61

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	25	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	0.19	0.12	0.13
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	0.02	0.404	0.43
	5G NR-n66	DFT-S QPSK40M	Top Side	34	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	-0.19	0.144	0.15
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	1	1	C	ANT 0	w/o	24.00	23.73	1.06	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	25	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	0.16	0.112	0.12
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	-0.13	0.385	0.42
	5G NR-n66	DFT-S QPSK40M	Top Side	34	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	0.05	0.131	0.14
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	108	54	C	ANT 0	w/o	24.00	23.65	1.08	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	1	1	C	ANT 0	w/	15.00	14.87	1.03	0.12	0.203	0.21
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	C	ANT 0	w/	15.00	14.87	1.03	-0.01	0.596	0.61
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	108	54	C	ANT 0	w/	15.00	14.75	1.06	-0.14	0.19	0.20
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	108	54	C	ANT 0	w/	15.00	14.75	1.06	-0.08	0.536	0.57
	5G NR-n66	DFT-S QPSK40M	Top Side	0	349000	1	1	C	ANT 0	w/	15.00	14.77	1.05	0.09	0.56	0.59
	5G NR-n66	DFT-S QPSK40M	Top Side	0	352000	1	1	C	ANT 0	w/	15.00	14.72	1.07	0.17	0.554	0.59
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	D	ANT 0	w/	15.00	14.87	1.03	-0.05	0.576	0.59

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	0.09	0.07	0.09
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	0.18	0.059	0.08
	5G NR-n66	DFT-S QPSK40M	Rear Face	4	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	0.02	0.441	0.59
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	17	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	-0.07	0.435	0.58
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	1	1	A	ANT 2	w/o	21.50	20.27	1.33	-0.18	0.176	0.23
	5G NR-n66	DFT-S QPSK40M	Rear Face	4	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	-0.07	0.429	0.58
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	17	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	0.05	0.428	0.58
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	108	54	A	ANT 2	w/o	21.50	20.18	1.36	0.17	0.163	0.22
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	1	1	A	ANT 2	w/	12.00	11.44	1.14	0.04	0.145	0.17
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	1	1	A	ANT 2	w/	12.00	11.44	1.14	0.07	0.526	0.60
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	108	54	A	ANT 2	w/	12.00	11.31	1.17	-0.04	0.131	0.15
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	108	54	A	ANT 2	w/	12.00	11.31	1.17	-0.04	0.502	0.59
	5G NR-n66	DFT-S QPSK40M	Right Side	0	349000	1	1	A	ANT 2	w/	12.00	11.37	1.16	-0.18	0.505	0.59
	5G NR-n66	DFT-S QPSK40M	Right Side	0	352000	1	1	A	ANT 2	w/	12.00	11.29	1.18	0.02	0.495	0.58
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	1	1	B	ANT 2	w/	12.00	11.44	1.14	-0.17	0.499	0.57

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	-0.11	0.091	0.12
	5G NR-n66	DFT-S QPSK40M	Bottom of Laptop	0	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	-0.04	0.08	0.11
	5G NR-n66	DFT-S QPSK40M	Rear Face	4	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	-0.02	0.363	0.48
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	17	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	-0.08	0.421	0.56
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	1	1	C	ANT 2	w/o	21.50	20.27	1.33	0.16	0.187	0.25
	5G NR-n66	DFT-S QPSK40M	Rear Face	4	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	0.09	0.342	0.47
	5G NR-n66	DFT-S QPSK40M	Left Side	0	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Right Side	17	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	-0.03	0.413	0.56
	5G NR-n66	DFT-S QPSK40M	Top Side	0	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	0	<0.001	0.00
	5G NR-n66	DFT-S QPSK40M	Bottom Side	0	346000	108	54	C	ANT 2	w/o	21.50	20.18	1.36	0.12	0.159	0.22
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	1	1	C	ANT 2	w/	12.00	11.44	1.14	0.17	0.079	0.09
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	1	1	C	ANT 2	w/	12.00	11.44	1.14	-0.01	0.498	0.57
	5G NR-n66	DFT-S QPSK40M	Rear Face	0	346000	108	54	C	ANT 2	w/	12.00	11.31	1.17	-0.12	0.066	0.08
	5G NR-n66	DFT-S QPSK40M	Right Side	0	346000	108	54	C	ANT 2	w/	12.00	11.31	1.17	0.08	0.481	0.56
	5G NR-n66	DFT-S QPSK40M	Right Side	0	349000	1	1	C	ANT 2	w/	12.00	11.37	1.16	-0.16	0.49	0.57
	5G NR-n66	DFT-S QPSK40M	Right Side	0	352000	1	1	C	ANT 2	w/	12.00	11.29	1.18	-0.12	0.503	0.59
	5G NR-n66	DFT-S QPSK40M	Right Side	0	352000	1	1	D	ANT 2	w/	12.00	11.29	1.18	0.13	0.481	0.57



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	25	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	-0.16	0.132	0.15
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	-0.04	0.421	0.48
	5GNR-n70	DFT-S QPSK15M	Top Side	34	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	0.08	0.131	0.15
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	1	1	A	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	25	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0.01	0.119	0.14
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0.05	0.418	0.50
	5GNR-n70	DFT-S QPSK15M	Top Side	34	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0.16	0.108	0.13
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	36	22	A	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	1	1	A	ANT 0	w/	14.50	13.97	1.13	-0.07	0.43	0.49
40	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	A	ANT 0	w/	14.50	13.97	1.13	0.03	0.589	0.67
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	36	22	A	ANT 0	w/	14.50	13.82	1.17	0.17	0.408	0.48
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	36	22	A	ANT 0	w/	14.50	13.82	1.17	-0.19	0.565	0.66
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	B	ANT 0	w/	14.50	13.97	1.13	-0.11	0.568	0.64

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	25	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	-0.03	0.115	0.13
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	-0.12	0.385	0.44
	5GNR-n70	DFT-S QPSK15M	Top Side	34	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	0.01	0.137	0.16
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	1	1	C	ANT 0	w/o	24.00	23.44	1.14	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	25	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	-0.16	0.106	0.13
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	-0.01	0.367	0.44
	5GNR-n70	DFT-S QPSK15M	Top Side	34	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	-0.15	0.125	0.15
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	36	22	C	ANT 0	w/o	24.00	23.25	1.19	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	1	1	C	ANT 0	w/	14.50	13.97	1.13	0.15	0.193	0.22
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	C	ANT 0	w/	14.50	13.97	1.13	-0.16	0.568	0.64
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	36	22	C	ANT 0	w/	14.50	13.82	1.17	-0.09	0.181	0.21
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	36	22	C	ANT 0	w/	14.50	13.82	1.17	-0.09	0.549	0.64
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	D	ANT 0	w/	14.50	13.97	1.13	0.06	0.555	0.63

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	0.03	0.077	0.09
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	0.1	0.066	0.08
	5GNR-n70	DFT-S QPSK15M	Rear Face	4	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	0.19	0.494	0.60
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	17	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	-0.13	0.48	0.59
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	1	1	A	ANT 2	w/o	24.00	23.12	1.22	0.17	0.194	0.24
	5GNR-n70	DFT-S QPSK15M	Rear Face	4	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	0.02	0.474	0.61
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	17	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	-0.07	0.473	0.61
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	36	22	A	ANT 2	w/o	24.00	22.93	1.28	0.14	0.18	0.23
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	1	1	A	ANT 2	w/	12.50	11.97	1.13	0.01	0.16	0.18
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	A	ANT 2	w/	12.50	11.97	1.13	-0.02	0.581	0.66
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	36	22	A	ANT 2	w/	12.50	11.82	1.17	-0.19	0.145	0.17
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	36	22	A	ANT 2	w/	12.50	11.82	1.17	0.03	0.548	0.64
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	B	ANT 2	w/	12.50	11.97	1.13	-0.12	0.551	0.62

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	0.07	0.1	0.12
	5GNR-n70	DFT-S QPSK15M	Bottom of Laptop	0	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	-0.01	0.088	0.11
	5GNR-n70	DFT-S QPSK15M	Rear Face	4	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	-0.03	0.401	0.49
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	17	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	0.14	0.465	0.57
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	1	1	C	ANT 2	w/o	24.00	23.12	1.22	-0.14	0.207	0.25
	5GNR-n70	DFT-S QPSK15M	Rear Face	4	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	-0.11	0.378	0.48
	5GNR-n70	DFT-S QPSK15M	Left Side	0	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Right Side	17	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	0.16	0.456	0.58
	5GNR-n70	DFT-S QPSK15M	Top Side	0	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	0	<0.001	0.00
	5GNR-n70	DFT-S QPSK15M	Bottom Side	0	340500	36	22	C	ANT 2	w/o	24.00	22.93	1.28	-0.18	0.175	0.22
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	1	1	C	ANT 2	w/	12.50	11.97	1.13	-0.04	0.087	0.10
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	C	ANT 2	w/	12.50	11.97	1.13	0.19	0.55	0.62
	5GNR-n70	DFT-S QPSK15M	Rear Face	0	340500	36	22	C	ANT 2	w/	12.50	11.82	1.17	-0.17	0.073	0.09
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	36	22	C	ANT 2	w/	12.50	11.82	1.17	0.04	0.512	0.60
	5GNR-n70	DFT-S QPSK15M	Right Side	0	340500	1	1	D	ANT 2	w/	12.50	11.97	1.13	-0.03	0.531	0.60



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n71	DFT-S QPSK30M	Bottom of Laptop	0	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Bottom of Laptop	0	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	25	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	0.11	0.135	0.14
	5G NR-n71	DFT-S QPSK30M	Left Side	0	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Right Side	0	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	-0.15	0.267	0.28
	5G NR-n71	DFT-S QPSK30M	Top Side	34	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	-0.13	0.091	0.10
	5G NR-n71	DFT-S QPSK30M	Bottom Side	0	134600	1	1	A	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	25	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0.08	0.126	0.13
	5G NR-n71	DFT-S QPSK30M	Left Side	0	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Right Side	0	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0.13	0.243	0.26
	5G NR-n71	DFT-S QPSK30M	Top Side	34	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0.16	0.078	0.08
	5G NR-n71	DFT-S QPSK30M	Bottom Side	0	134600	80	40	A	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	0	134600	1	1	A	ANT 0	w/	18.50	18.21	1.07	0.05	0.422	0.45
41	5G NR-n71	DFT-S QPSK30M	Top Side	0	134600	1	1	A	ANT 0	w/	18.50	18.21	1.07	0.03	0.593	0.63
	5G NR-n71	DFT-S QPSK30M	Rear Face	0	134600	80	40	A	ANT 0	w/	18.50	18.16	1.08	0.08	0.394	0.43
	5G NR-n71	DFT-S QPSK30M	Top Side	0	134600	80	40	A	ANT 0	w/	18.50	18.16	1.08	-0.07	0.558	0.60
	5G NR-n71	DFT-S QPSK30M	Top Side	0	136100	1	1	A	ANT 0	w/	18.50	18.12	1.09	0.12	0.55	0.60
	5G NR-n71	DFT-S QPSK30M	Top Side	0	137600	1	1	A	ANT 0	w/	18.50	18.03	1.11	0.05	0.561	0.62
	5G NR-n71	DFT-S QPSK30M	Top Side	0	134600	1	1	B	ANT 0	w/	18.50	18.21	1.07	-0.05	0.547	0.59

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5G NR-n71	DFT-S QPSK30M	Bottom of Laptop	0	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Bottom of Laptop	0	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	25	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	-0.08	0.113	0.12
	5G NR-n71	DFT-S QPSK30M	Left Side	0	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Right Side	0	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	0.19	0.294	0.31
	5G NR-n71	DFT-S QPSK30M	Top Side	34	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	-0.07	0.089	0.09
	5G NR-n71	DFT-S QPSK30M	Bottom Side	0	134600	1	1	C	ANT 0	w/o	24.00	23.76	1.06	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	25	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	0.15	0.102	0.11
	5G NR-n71	DFT-S QPSK30M	Left Side	0	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Right Side	0	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	-0.08	0.273	0.29
	5G NR-n71	DFT-S QPSK30M	Top Side	34	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	-0.1	0.074	0.08
	5G NR-n71	DFT-S QPSK30M	Bottom Side	0	134600	80	40	C	ANT 0	w/o	24.00	23.72	1.07	0	<0.001	0.00
	5G NR-n71	DFT-S QPSK30M	Rear Face	0	134600	1	1	C	ANT 0	w/	18.50	18.21	1.07	-0.03	0.385	0.41
	5G NR-n71	DFT-S QPSK30M	Top Side	0	134600	1	1	C	ANT 0	w/	18.50	18.21	1.07	-0.02	0.562	0.60
	5G NR-n71	DFT-S QPSK30M	Rear Face	0	134600	80	40	C	ANT 0	w/	18.50	18.16	1.08	-0.14	0.299	0.32
	5G NR-n71	DFT-S QPSK30M	Top Side	0	134600	80	40	C	ANT 0	w/	18.50	18.16	1.08	-0.01	0.535	0.58
	5G NR-n71	DFT-S QPSK30M	Top Side	0	136100	1	1	C	ANT 0	w/	18.50	18.12	1.09	-0.02	0.521	0.57
	5G NR-n71	DFT-S QPSK30M	Top Side	0	137600	1	1	C	ANT 0	w/	18.50	18.03	1.11	-0.12	0.553	0.61
	5G NR-n71	DFT-S QPSK30M	Top Side	0	137600	1	1	D	ANT 0	w/	18.50	18.03	1.11	-0.04	0.53	0.59

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Rear Face	25	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	0.03	0.12	0.12
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	0.02	0.503	0.51
	5GNR-n77	DFT-S QPSK100M	Top Side	34	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	0.08	0.14	0.14
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.97	1.01	-0.04	0.054	0.05
	5GNR-n77	DFT-S QPSK100M	Rear Face	25	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	-0.16	0.116	0.12
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	0.18	0.457	0.48
	5GNR-n77	DFT-S QPSK100M	Top Side	34	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	-0.03	0.134	0.14
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.75	1.06	-0.03	0.052	0.06
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	1	1	A	ANT 0	w/	17.50	17.32	1.04	0.06	0.501	0.52
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	1	1	A	ANT 0	w/	17.50	17.32	1.04	-0.05	0.522	0.54
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	135	69	A	ANT 0	w/	17.50	17.24	1.06	0.14	0.465	0.49
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	135	69	A	ANT 0	w/	17.50	17.24	1.06	-0.04	0.493	0.52
	5GNR-n77	DFT-S QPSK100M	Top Side	0	633332	1	1	A	ANT 0	w/	17.50	17.44	1.01	0.11	0.267	0.27
	5GNR-n77	DFT-S QPSK100M	Top Side	0	640000	1	1	A	ANT 0	w/	17.50	17.22	1.07	0.1	0.451	0.48
	5GNR-n77	DFT-S QPSK100M	Top Side	0	641666	1	1	A	ANT 0	w/	17.50	17.46	1.01	-0.01	0.47	0.47
	5GNR-n77	DFT-S QPSK100M	Top Side	0	643332	1	1	A	ANT 0	w/	17.50	17.23	1.06	-0.01	0.462	0.49
	5GNR-n77	DFT-S QPSK100M	Top Side	0	653000	1	1	A	ANT 0	w/	17.50	16.92	1.14	-0.05	0.338	0.39
	5GNR-n77	DFT-S QPSK100M	Top Side	0	656000	1	1	A	ANT 0	w/	17.50	16.77	1.18	-0.15	0.319	0.38
	5GNR-n77	DFT-S QPSK100M	Top Side	0	659000	1	1	A	ANT 0	w/	17.50	16.69	1.21	0.06	0.313	0.38
	5GNR-n77	DFT-S QPSK100M	Top Side	0	662000	1	1	A	ANT 0	w/	17.50	16.67	1.21	-0.04	0.302	0.37
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	1	1	B	ANT 0	w/	17.50	17.32	1.04	-0.1	0.47	0.49
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Rear Face	25	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	-0.16	0.078	0.08
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	0.05	0.467	0.47
	5GNR-n77	DFT-S QPSK100M	Top Side	34	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	-0.06	0.134	0.14
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.97	1.01	0.02	0.054	0.05
	5GNR-n77	DFT-S QPSK100M	Rear Face	25	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	-0.18	0.077	0.08
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	0	<0.001	0.00

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	-0.17	0.434	0.46
	5GNR-n77	DFT-S QPSK100M	Top Side	34	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	-0.12	0.129	0.14
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.75	1.06	-0.13	0.051	0.05
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	1	1	C	ANT 0	w/	17.50	17.32	1.04	-0.02	0.339	0.35
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	1	1	C	ANT 0	w/	17.50	17.32	1.04	-0.12	0.454	0.47
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	135	69	C	ANT 0	w/	17.50	17.24	1.06	0.12	0.331	0.35
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	135	69	C	ANT 0	w/	17.50	17.24	1.06	-0.1	0.422	0.45
	5GNR-n77	DFT-S QPSK100M	Top Side	0	633332	1	1	C	ANT 0	w/	17.50	17.44	1.01	-0.13	0.436	0.44
	5GNR-n77	DFT-S QPSK100M	Top Side	0	640000	1	1	C	ANT 0	w/	17.50	17.22	1.07	-0.1	0.457	0.49
	5GNR-n77	DFT-S QPSK100M	Top Side	0	641666	1	1	C	ANT 0	w/	17.50	17.46	1.01	-0.13	0.426	0.43
	5GNR-n77	DFT-S QPSK100M	Top Side	0	643332	1	1	C	ANT 0	w/	17.50	17.23	1.06	0.12	0.419	0.44
	5GNR-n77	DFT-S QPSK100M	Top Side	0	653000	1	1	C	ANT 0	w/	17.50	16.92	1.14	0.01	0.307	0.35
	5GNR-n77	DFT-S QPSK100M	Top Side	0	656000	1	1	C	ANT 0	w/	17.50	16.77	1.18	0.07	0.341	0.40
	5GNR-n77	DFT-S QPSK100M	Top Side	0	659000	1	1	C	ANT 0	w/	17.50	16.69	1.21	0.08	0.284	0.34
	5GNR-n77	DFT-S QPSK100M	Top Side	0	662000	1	1	C	ANT 0	w/	17.50	16.67	1.21	0.13	0.316	0.38
	5GNR-n77	DFT-S QPSK100M	Top Side	0	640000	1	1	D	ANT 0	w/	17.50	17.22	1.07	-0.16	0.405	0.43

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	-0.15	0.119	0.12
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	0.19	0.111	0.12
	5GNR-n77	DFT-S QPSK100M	Rear Face	4	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	0.02	0.283	0.29
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	17	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	0.1	0.194	0.20
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	1	1	A	ANT 2	w/o	23.50	23.31	1.04	0.03	0.533	0.55
	5GNR-n77	DFT-S QPSK100M	Rear Face	4	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	-0.06	0.269	0.29
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	17	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	0.03	0.189	0.21
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	135	69	A	ANT 2	w/o	23.50	23.12	1.09	0.07	0.513	0.56
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	1	1	A	ANT 2	w/	17.50	17.45	1.01	-0.06	0.122	0.12
42	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	1	1	A	ANT 2	w/	17.50	17.45	1.01	0.05	0.678	0.68
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	135	69	A	ANT 2	w/	17.50	17.41	1.02	-0.03	0.118	0.12
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	135	69	A	ANT 2	w/	17.50	17.41	1.02	0.19	0.631	0.64
	5GNR-n77	DFT-S QPSK100M	Right Side	0	633332	1	1	A	ANT 2	w/	17.50	17.43	1.02	-0.09	0.539	0.55
	5GNR-n77	DFT-S QPSK100M	Right Side	0	640000	1	1	A	ANT 2	w/	17.50	17.44	1.01	-0.13	0.529	0.53
	5GNR-n77	DFT-S QPSK100M	Right Side	0	641666	1	1	A	ANT 2	w/	17.50	17.41	1.02	-0.04	0.561	0.57
	5GNR-n77	DFT-S QPSK100M	Right Side	0	643332	1	1	A	ANT 2	w/	17.50	17.38	1.03	0.12	0.589	0.61
	5GNR-n77	DFT-S QPSK100M	Right Side	0	653000	1	1	A	ANT 2	w/	17.50	17.37	1.03	-0.04	0.293	0.30
	5GNR-n77	DFT-S QPSK100M	Right Side	0	656000	1	1	A	ANT 2	w/	17.50	17.32	1.04	-0.09	0.41	0.43
	5GNR-n77	DFT-S QPSK100M	Right Side	0	659000	1	1	A	ANT 2	w/	17.50	17.31	1.04	-0.14	0.428	0.45
	5GNR-n77	DFT-S QPSK100M	Right Side	0	662000	1	1	A	ANT 2	w/	17.50	17.36	1.03	-0.12	0.485	0.50
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	1	1	B	ANT 2	w/	17.50	17.45	1.01	-0.02	0.634	0.64

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	-0.01	0.112	0.12
	5GNR-n77	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0.15	0.107	0.12
	5GNR-n77	DFT-S QPSK100M	Rear Face	4	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	0.01	0.203	0.21
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	17	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	0.02	0.189	0.20
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	1	1	C	ANT 2	w/o	23.50	23.31	1.04	-0.1	0.497	0.52
	5GNR-n77	DFT-S QPSK100M	Rear Face	4	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0.06	0.197	0.21
	5GNR-n77	DFT-S QPSK100M	Left Side	0	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Right Side	17	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0.1	0.185	0.20
	5GNR-n77	DFT-S QPSK100M	Top Side	0	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0	<0.001	0.00
	5GNR-n77	DFT-S QPSK100M	Bottom Side	0	650000	135	69	C	ANT 2	w/o	23.50	23.12	1.09	0.08	0.468	0.51
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	1	1	C	ANT 2	w/	17.50	17.45	1.01	0.11	0.093	0.09
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	1	1	C	ANT 2	w/	17.50	17.45	1.01	0.14	0.599	0.60
	5GNR-n77	DFT-S QPSK100M	Rear Face	0	650000	135	69	C	ANT 2	w/	17.50	17.41	1.02	-0.19	0.089	0.09
	5GNR-n77	DFT-S QPSK100M	Right Side	0	650000	135	69	C	ANT 2	w/	17.50	17.41	1.02	-0.14	0.557	0.57
	5GNR-n77	DFT-S QPSK100M	Right Side	0	633332	1	1	C	ANT 2	w/	17.50	17.43	1.02	0.03	0.493	0.50
	5GNR-n77	DFT-S QPSK100M	Right Side	0	640000	1	1	C	ANT 2	w/	17.50	17.44	1.01	0.02	0.521	0.53
	5GNR-n77	DFT-S QPSK100M	Right Side	0	641666	1	1	C	ANT 2	w/	17.50	17.41	1.02	0.04	0.513	0.52
	5GNR-n77	DFT-S QPSK100M	Right Side	0	643332	1	1	C	ANT 2	w/	17.50	17.38	1.03	-0.18	0.593	0.61
	5GNR-n77	DFT-S QPSK100M	Right Side	0	653000	1	1	C	ANT 2	w/	17.50	17.37	1.03	0.15	0.285	0.29
	5GNR-n77	DFT-S QPSK100M	Right Side	0	656000	1	1	C	ANT 2	w/	17.50	17.32	1.04	-0.01	0.366	0.38
	5GNR-n77	DFT-S QPSK100M	Right Side	0	659000	1	1	C	ANT 2	w/	17.50	17.31	1.04	0.09	0.382	0.40
	5GNR-n77	DFT-S QPSK100M	Right Side	0	662000	1	1	C	ANT 2	w/	17.50	17.36	1.03	-0.17	0.513	0.53
	5GNR-n77	DFT-S QPSK100M	Right Side	0	643332	1	1	D	ANT 2	w/	17.50	17.38	1.03	0.15	0.559	0.58



Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Rear Face	25	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	0.12	0.102	0.10
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	-0.06	0.426	0.43
	5GNR-n78	DFT-S QPSK100M	Top Side	34	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	0.09	0.119	0.12
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	1	1	A	ANT 0	w/o	27.00	26.98	1.00	0.02	0.046	0.05
	5GNR-n78	DFT-S QPSK100M	Rear Face	25	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	0.04	0.099	0.10
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	0	0.387	0.40
	5GNR-n78	DFT-S QPSK100M	Top Side	34	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	0.07	0.114	0.12
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	135	69	A	ANT 0	w/o	27.00	26.85	1.04	-0.12	0.048	0.05
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	1	1	A	ANT 0	w/	17.50	17.22	1.07	-0.04	0.424	0.45
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	A	ANT 0	w/	17.50	17.22	1.07	0.03	0.493	0.53
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	135	69	A	ANT 0	w/	17.50	17.19	1.07	-0.07	0.394	0.42
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	135	69	A	ANT 0	w/	17.50	17.19	1.07	-0.15	0.482	0.52
	5GNR-n78	DFT-S QPSK100M	Top Side	0	633332	1	1	A	ANT 0	w/	17.50	16.42	1.28	0.05	0.409	0.52
	5GNR-n78	DFT-S QPSK100M	Top Side	0	640000	1	1	A	ANT 0	w/	17.50	16.87	1.16	-0.08	0.4470446	0.52
	5GNR-n78	DFT-S QPSK100M	Top Side	0	641666	1	1	A	ANT 0	w/	17.50	16.95	1.14	-0.08	0.4222228	0.48
	5GNR-n78	DFT-S QPSK100M	Top Side	0	643332	1	1	A	ANT 0	w/	17.50	16.92	1.14	0.04	0.4396858	0.50
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	B	ANT 0	w/	17.50	17.22	1.07	0.08	0.485	0.52

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Rear Face	25	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	0.16	0.066	0.07
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	-0.14	0.396	0.40
	5GNR-n78	DFT-S QPSK100M	Top Side	34	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	0.07	0.113	0.11
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	1	1	C	ANT 0	w/o	27.00	26.98	1.00	-0.1	0.045	0.05
	5GNR-n78	DFT-S QPSK100M	Rear Face	25	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	0.08	0.065	0.07
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	-0.18	0.369	0.38
	5GNR-n78	DFT-S QPSK100M	Top Side	34	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	-0.06	0.111	0.12
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	135	69	C	ANT 0	w/o	27.00	26.85	1.04	0.13	0.044	0.05
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	1	1	C	ANT 0	w/	17.50	17.22	1.07	-0.15	0.287	0.31
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	C	ANT 0	w/	17.50	17.22	1.07	-0.14	0.472	0.51
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	135	69	C	ANT 0	w/	17.50	17.19	1.07	-0.17	0.28	0.30
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	135	69	C	ANT 0	w/	17.50	17.19	1.07	-0.08	0.468	0.50
	5GNR-n78	DFT-S QPSK100M	Top Side	0	633332	1	1	C	ANT 0	w/	17.50	16.42	1.28	-0.18	0.388	0.50
	5GNR-n78	DFT-S QPSK100M	Top Side	0	640000	1	1	C	ANT 0	w/	17.50	16.87	1.16	0.07	0.424	0.49
	5GNR-n78	DFT-S QPSK100M	Top Side	0	641666	1	1	C	ANT 0	w/	17.50	16.95	1.14	0.07	0.411	0.47
	5GNR-n78	DFT-S QPSK100M	Top Side	0	643332	1	1	C	ANT 0	w/	17.50	16.92	1.14	0.14	0.433	0.49
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	D	ANT 0	w/	17.50	17.22	1.07	0.12	0.453	0.48

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	0.14	0.118	0.13
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	0.19	0.109	0.12
	5GNR-n78	DFT-S QPSK100M	Rear Face	4	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	0.15	0.279	0.30
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	17	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	-0.07	0.191	0.20
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	1	1	A	ANT 2	w/o	23.00	22.76	1.06	0.05	0.525	0.56
	5GNR-n78	DFT-S QPSK100M	Rear Face	4	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	0.04	0.265	0.29
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	17	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	-0.03	0.186	0.20
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	135	69	A	ANT 2	w/o	23.00	22.63	1.09	0.19	0.506	0.55
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	1	1	A	ANT 2	w/	17.50	17.48	1.00	0.03	0.12	0.12
43	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	A	ANT 2	w/	17.50	17.48	1.00	0.1	0.596	0.60
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	135	69	A	ANT 2	w/	17.50	17.45	1.01	0.07	0.116	0.12
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	135	69	A	ANT 2	w/	17.50	17.45	1.01	-0.08	0.575	0.58
	5GNR-n78	DFT-S QPSK100M	Right Side	0	633332	1	1	A	ANT 2	w/	17.50	17.45	1.01	0.05	0.531	0.54
	5GNR-n78	DFT-S QPSK100M	Right Side	0	640000	1	1	A	ANT 2	w/	17.50	17.46	1.01	0.11	0.521	0.53
	5GNR-n78	DFT-S QPSK100M	Right Side	0	641666	1	1	A	ANT 2	w/	17.50	17.41	1.02	0.11	0.544	0.55
	5GNR-n78	DFT-S QPSK100M	Right Side	0	643332	1	1	A	ANT 2	w/	17.50	17.37	1.03	-0.01	0.553	0.57
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	B	ANT 2	w/	17.50	17.48	1.00	-0.14	0.577	0.58

Body SAR Test Result

System & Position								DUT Configuration			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Sample	Ant Status	Power Reduction	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	-0.19	0.11	0.12
	5GNR-n78	DFT-S QPSK100M	Bottom of Laptop	0	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	0.1	0.105	0.11
	5GNR-n78	DFT-S QPSK100M	Rear Face	4	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	-0.09	0.196	0.21
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	17	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	0.15	0.186	0.20
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	1	1	C	ANT 2	w/o	23.00	22.76	1.06	-0.07	0.492	0.52
	5GNR-n78	DFT-S QPSK100M	Rear Face	4	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	-0.08	0.195	0.21
	5GNR-n78	DFT-S QPSK100M	Left Side	0	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Right Side	17	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	0.15	0.182	0.20
	5GNR-n78	DFT-S QPSK100M	Top Side	0	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	0	<0.001	0.00
	5GNR-n78	DFT-S QPSK100M	Bottom Side	0	650000	135	69	C	ANT 2	w/o	23.00	22.63	1.09	0.09	0.462	0.50
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	1	1	C	ANT 2	w/	17.50	17.48	1.00	-0.17	0.092	0.09
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	C	ANT 2	w/	17.50	17.48	1.00	0.08	0.585	0.59
	5GNR-n78	DFT-S QPSK100M	Rear Face	0	650000	135	69	C	ANT 2	w/	17.50	17.45	1.01	0.16	0.088	0.09
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	135	69	C	ANT 2	w/	17.50	17.45	1.01	-0.1	0.572	0.58
	5GNR-n78	DFT-S QPSK100M	Right Side	0	633332	1	1	C	ANT 2	w/	17.50	17.45	1.01	0.16	0.522	0.53
	5GNR-n78	DFT-S QPSK100M	Right Side	0	640000	1	1	C	ANT 2	w/	17.50	17.46	1.01	0.11	0.511	0.52
	5GNR-n78	DFT-S QPSK100M	Right Side	0	641666	1	1	C	ANT 2	w/	17.50	17.41	1.02	-0.05	0.535	0.55
	5GNR-n78	DFT-S QPSK100M	Right Side	0	643332	1	1	C	ANT 2	w/	17.50	17.37	1.03	-0.15	0.535	0.55
	5GNR-n78	DFT-S QPSK100M	Right Side	0	650000	1	1	D	ANT 2	w/	17.50	17.48	1.00	-0.16	0.571	0.57

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Bottom for Laptop	0	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	10	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0.18	0.057	0.07
	WLAN2.4G	802.11b	Left Side	0	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	-0.06	0.06	0.07
	WLAN2.4G	802.11b	Right Side	0	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	-0.18	0.064	0.08
	WLAN2.4G	802.11b	Bottom Side	0	6	A	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom for Laptop	0	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	10	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	-0.07	0.066	0.08
	WLAN2.4G	802.11b	Left Side	0	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	-0.15	0.057	0.07
	WLAN2.4G	802.11b	Bottom Side	0	6	A	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Bottom for Laptop	0	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Rear Face	10	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	-0.08	0.058	0.06
	WLAN2.4G	802.11n HT40	Left Side	0	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0.16	0.041	0.04
	WLAN2.4G	802.11n HT40	Right Side	0	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Top Side	10	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	-0.01	0.031	0.03
	WLAN2.4G	802.11n HT40	Bottom Side	0	3	A	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	0	1	A	Ant 0	w/	98.35	1.02	11.50	10.56	1.24	0.09	0.106	0.13
	WLAN2.4G	802.11b	Top Side	0	1	A	Ant 0	w/	98.35	1.02	11.50	10.56	1.24	-0.1	0.034	0.04
	WLAN2.4G	802.11b	Rear Face	0	1	A	Ant 1	w/	98.11	1.02	11.50	10.51	1.26	-0.18	0.09	0.12
	WLAN2.4G	802.11b	Top Side	0	1	A	Ant 1	w/	98.11	1.02	11.50	10.51	1.26	0.02	0.037	0.05
45	WLAN2.4G	802.11n HT40	Rear Face	0	6	A	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	0.1	0.124	0.18
	WLAN2.4G	802.11n HT40	Top Side	0	6	A	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	-0.02	0.051	0.07
	WLAN2.4G	802.11n HT40	Rear Face	0	3	A	Ant 0+1	w/	97.93	1.02	14.50	12.94	1.43	0.06	0.119	0.17
	WLAN2.4G	802.11n HT40	Rear Face	0	9	A	Ant 0+1	w/	97.93	1.02	14.50	12.99	1.42	-0.15	0.099	0.14
	WLAN2.4G	802.11n HT40	Rear Face	0	10	A	Ant 0+1	w/	97.93	1.02	12.00	11.74	1.06	0.03	0.058	0.06
	WLAN2.4G	802.11n HT40	Rear Face	0	11	A	Ant 0+1	w/	97.93	1.02	12.00	11.71	1.07	-0.19	0.057	0.06
	WLAN2.4G	802.11n HT40	Rear Face	0	6	B	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	0.17	0.122	0.17

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Bottom for Laptop	0	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	10	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0.12	0.038	0.05
	WLAN2.4G	802.11b	Left Side	0	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	-0.07	0.041	0.05
	WLAN2.4G	802.11b	Right Side	0	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	-0.02	0.042	0.05
	WLAN2.4G	802.11b	Bottom Side	0	6	C	Ant 0	w/o	98.35	1.02	21.00	20.33	1.17	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom for Laptop	0	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	10	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	-0.07	0.032	0.04
	WLAN2.4G	802.11b	Left Side	0	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0.14	0.028	0.04
	WLAN2.4G	802.11b	Bottom Side	0	6	C	Ant 1	w/o	98.11	1.02	21.00	20.04	1.25	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Bottom for Laptop	0	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Rear Face	10	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	-0.08	0.012	0.01
	WLAN2.4G	802.11n HT40	Left Side	0	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	-0.02	0.018	0.02
	WLAN2.4G	802.11n HT40	Right Side	0	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11n HT40	Top Side	10	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0.13	0.013	0.01
	WLAN2.4G	802.11n HT40	Bottom Side	0	3	C	Ant 0+1	w/o	97.93	1.02	22.00	21.83	1.04	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	0	1	C	Ant 0	w/	98.35	1.02	11.50	10.56	1.24	0.06	0.033	0.04
	WLAN2.4G	802.11b	Top Side	0	1	C	Ant 0	w/	98.35	1.02	11.50	10.56	1.24	-0.05	0.022	0.03
	WLAN2.4G	802.11b	Rear Face	0	1	C	Ant 1	w/	98.11	1.02	11.50	10.51	1.26	-0.08	0.041	0.05
	WLAN2.4G	802.11b	Top Side	0	1	C	Ant 1	w/	98.11	1.02	11.50	10.51	1.26	0.13	0.016	0.02
	WLAN2.4G	802.11n HT40	Rear Face	0	6	C	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	-0.08	0.09	0.13
	WLAN2.4G	802.11n HT40	Top Side	0	6	C	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	0.12	0.051	0.07
	WLAN2.4G	802.11n HT40	Rear Face	0	3	C	Ant 0+1	w/	97.93	1.02	14.50	12.94	1.43	-0.11	0.081	0.12
	WLAN2.4G	802.11n HT40	Rear Face	0	9	C	Ant 0+1	w/	97.93	1.02	14.50	12.99	1.42	-0.18	0.08	0.12
	WLAN2.4G	802.11n HT40	Rear Face	0	10	C	Ant 0+1	w/	97.93	1.02	12.00	11.74	1.06	-0.17	0.047	0.05
	WLAN2.4G	802.11n HT40	Rear Face	0	11	C	Ant 0+1	w/	97.93	1.02	12.00	11.71	1.07	0.15	0.046	0.05
	WLAN2.4G	802.11n HT40	Rear Face	0	6	D	Ant 0+1	w/	97.93	1.02	14.50	13.03	1.40	-0.18	0.088	0.13



BUREAU
VERITAS

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	-0.16	0.377	0.45
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0.19	0.15	0.18
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0.18	0.244	0.29
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	A	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	-0.07	0.197	0.23
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0.16	0.158	0.19
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	A	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	-0.08	0.38	0.47
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0.06	0.204	0.25
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0.11	0.283	0.35
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	A	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
46	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	A	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	-0.04	0.589	0.62
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	A	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	0.05	0.19	0.20
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	A	Ant 1	w/	97.17	1.03	9.50	9.38	1.03	-0.17	0.556	0.59
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	A	Ant 1	w/	97.17	1.03	9.50	9.38	1.03	0.1	0.158	0.17
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	A	Ant 0+1	w/	94.52	1.06	12.50	12.35	1.04	0.14	0.549	0.61
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	A	Ant 0+1	w/	94.52	1.06	12.50	12.35	1.04	-0.03	0.173	0.19
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	B	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	0.06	0.574	0.61

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	-0.18	0.232	0.28
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0.08	0.092	0.11
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0.01	0.148	0.18
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	C	Ant 0	w/o	96.45	1.04	17.00	16.42	1.14	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0.18	0.121	0.14
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	-0.17	0.096	0.11
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	C	Ant 1	w/o	97.17	1.03	17.00	16.41	1.15	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom for Laptop	0	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	10	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0.18	0.233	0.29
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0.03	0.125	0.15
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	10	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	-0.04	0.172	0.21
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	C	Ant 0+1	w/o	94.52	1.06	20.00	19.37	1.16	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	C	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	0.13	0.283	0.30
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	C	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	-0.09	0.116	0.12
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	C	Ant 1	w/	97.17	1.03	9.50	9.38	1.03	0.1	0.261	0.28
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	C	Ant 1	w/	97.17	1.03	9.50	9.38	1.03	-0.07	0.096	0.10
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	C	Ant 0+1	w/	94.52	1.06	12.50	12.35	1.04	-0.04	0.203	0.22
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	C	Ant 0+1	w/	94.52	1.06	12.50	12.35	1.04	-0.19	0.106	0.12
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	D	Ant 0	w/	96.45	1.04	9.50	9.42	1.02	-0.14	0.24	0.25



BUREAU
VERITAS

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0.12	0.262	0.34
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	-0.09	0.124	0.16
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	-0.09	0.13	0.17
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	A	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	-0.02	0.282	0.36
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	-0.01	0.051	0.06
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	-0.19	0.27	0.34
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	A	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
47	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0.03	0.335	0.44
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.03	0.205	0.27
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.13	0.317	0.42
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	A	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	A	Ant 0	w/	96.45	1.04	7.00	5.96	1.27	0.04	0.145	0.19
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	A	Ant 0	w/	96.45	1.04	7.00	5.96	1.27	0.16	0.082	0.11
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	A	Ant 1	w/	97.17	1.03	7.00	6.10	1.23	0.07	0.237	0.30
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	A	Ant 1	w/	97.17	1.03	7.00	6.10	1.23	-0.18	0.097	0.12
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	A	Ant 0+1	w/	94.52	1.06	10.00	9.02	1.25	0.04	0.202	0.27
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	A	Ant 0+1	w/	94.52	1.06	10.00	9.02	1.25	0.1	0.124	0.16
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	B	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.12	0.33	0.44



BUREAU
VERITAS

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	-0.03	0.302	0.39
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0.03	0.181	0.24
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0.17	0.189	0.25
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	C	Ant 0	w/o	96.45	1.04	17.50	16.54	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	-0.05	0.272	0.34
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	-0.01	0.049	0.06
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0.13	0.261	0.33
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	C	Ant 1	w/o	97.17	1.03	17.50	16.61	1.23	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom for Laptop	0	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.19	0.304	0.40
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.12	0.185	0.25
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	10	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0.03	0.287	0.38
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	C	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	C	Ant 0	w/	96.45	1.04	7.00	5.96	1.27	0.09	0.211	0.28
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	C	Ant 0	w/	96.45	1.04	7.00	5.96	1.27	0.19	0.12	0.16
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	C	Ant 1	w/	97.17	1.03	7.00	6.10	1.23	0.17	0.23	0.29
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	C	Ant 1	w/	97.17	1.03	7.00	6.10	1.23	0.05	0.093	0.12
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	C	Ant 0+1	w/	94.52	1.06	10.00	9.02	1.25	-0.01	0.183	0.24
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	C	Ant 0+1	w/	94.52	1.06	10.00	9.02	1.25	0.17	0.112	0.15
	WLAN5.6G	802.11ac VHT160	Rear Face	10	114	D	Ant 0+1	w/o	94.52	1.06	20.50	19.52	1.25	-0.03	0.297	0.39

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0.02	0.522	0.72
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0.17	0.432	0.60
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	-0.08	0.275	0.38
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	A	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
49	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	-0.02	0.579	0.79
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	-0.15	0.412	0.56
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	A	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0.09	0.545	0.77
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0.12	0.414	0.59
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0.08	0.449	0.64
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	A	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	A	Ant 0	w/	97.66	1.02	7.50	6.56	1.24	-0.16	0.18	0.23
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	A	Ant 0	w/	97.66	1.02	7.50	6.56	1.24	0.19	0.244	0.31
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	A	Ant 1	w/	98.56	1.01	7.50	6.52	1.25	-0.06	0.255	0.32
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	A	Ant 1	w/	98.56	1.01	7.50	6.52	1.25	-0.17	0.128	0.16
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	A	Ant 0+1	w/	95.77	1.04	10.50	9.51	1.26	0.06	0.323	0.42
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	A	Ant 0+1	w/	95.77	1.04	10.50	9.51	1.26	0.15	0.175	0.23
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	B	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0.1	0.569	0.78



BUREAU
VERITAS

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	-0.07	0.335	0.46
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	-0.07	0.295	0.41
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0.06	0.188	0.26
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	C	Ant 0	w/o	97.66	1.02	19.00	17.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0.14	0.35	0.48
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	-0.09	0.282	0.38
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	C	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom for Laptop	0	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	-0.03	0.31	0.44
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	-0.16	0.28	0.40
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	10	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	-0.14	0.306	0.43
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	C	Ant 0+1	w/o	95.77	1.04	22.00	20.66	1.36	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	C	Ant 0	w/	97.66	1.02	7.50	6.56	1.24	-0.1	0.123	0.16
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	C	Ant 0	w/	97.66	1.02	7.50	6.56	1.24	-0.14	0.166	0.21
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	C	Ant 1	w/	98.56	1.01	7.50	6.52	1.25	-0.04	0.174	0.22
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	C	Ant 1	w/	98.56	1.01	7.50	6.52	1.25	-0.07	0.088	0.11
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	C	Ant 0+1	w/	95.77	1.04	10.50	9.51	1.26	-0.1	0.221	0.29
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	C	Ant 0+1	w/	95.77	1.04	10.50	9.51	1.26	0.16	0.119	0.16
	WLAN5.8G	802.11ac VHT80	Rear Face	10	155	D	Ant 1	w/o	98.56	1.01	19.00	17.71	1.35	-0.08	0.334	0.46

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
50	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0.09	0.578	0.81
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0.15	0.537	0.76
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	-0.13	0.275	0.39
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	A	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	-0.11	0.548	0.75
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0.19	0.111	0.15
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	-0.02	0.535	0.73
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	A	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.05	0.558	0.81
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.14	0.503	0.73
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.18	0.516	0.75
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	A	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	A	Ant 0	w/	97.66	1.02	7.50	6.54	1.25	0.02	0.207	0.26
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	A	Ant 0	w/	97.66	1.02	7.50	6.54	1.25	0.07	0.288	0.37
WLAN5.9G	802.11ac VHT160	Rear Face	0	163	A	Ant 1	w/	98.56	1.01	7.50	6.48	1.26	-0.07	0.416	0.53	
WLAN5.9G	802.11ac VHT160	Top Side	0	163	A	Ant 1	w/	98.56	1.01	7.50	6.48	1.26	0.13	0.176	0.22	
WLAN5.9G	802.11ac VHT160	Rear Face	0	163	A	Ant 0+1	w/	94.52	1.06	10.50	9.46	1.27	0.19	0.452	0.61	
WLAN5.9G	802.11ac VHT160	Top Side	0	163	A	Ant 0+1	w/	94.52	1.06	10.50	9.46	1.27	-0.17	0.216	0.29	
WLAN5.9G	802.11ac VHT160	Rear Face	10	163	B	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0.06	0.529	0.74	

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	-0.01	0.389	0.55
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	-0.02	0.387	0.54
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	-0.07	0.178	0.25
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	C	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	-0.11	0.377	0.51
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0.16	0.071	0.10
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	-0.12	0.344	0.47
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	C	Ant 1	w/o	98.56	1.01	19.00	17.69	1.35	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom for Laptop	0	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.06	0.356	0.52
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.1	0.323	0.47
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	10	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	-0.1	0.33	0.48
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	C	Ant 0+1	w/o	94.52	1.06	22.00	20.62	1.37	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	C	Ant 0	w/	97.66	1.02	7.50	6.54	1.25	0.03	0.134	0.17
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	C	Ant 0	w/	97.66	1.02	7.50	6.54	1.25	-0.08	0.185	0.24
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	C	Ant 1	w/	98.56	1.01	7.50	6.48	1.26	0.03	0.267	0.34
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	C	Ant 1	w/	98.56	1.01	7.50	6.48	1.26	0.01	0.113	0.14
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	C	Ant 0+1	w/	94.52	1.06	10.50	9.46	1.27	0.14	0.291	0.39
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	C	Ant 0+1	w/	94.52	1.06	10.50	9.46	1.27	0.14	0.139	0.19
	WLAN5.9G	802.11ac VHT160	Rear Face	10	163	D	Ant 0	w/o	97.66	1.02	19.00	17.61	1.38	-0.18	0.388	0.55

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
51	BT	BDR	Bottom for Laptop	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Rear Face	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	-0.04	0.009	0.01
	BT	BDR	Left Side	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Right Side	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Top Side	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	-0.06	0.00356	0.01
	BT	BDR	Bottom Side	0	0	A	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Rear Face	0	39	A	Ant 1		76.34	1.31	7.00	5.96	1.27	0.02	0.00532	0.01
	BT	BDR	Rear Face	0	78	A	Ant 1		76.34	1.31	7.00	5.98	1.26	0.01	0.00574	0.01
	BT	BDR	Rear Face	0	0	B	Ant 1		76.34	1.31	7.00	6.00	1.26	0.11	0.00481	0.01
	BT	BDR	Bottom for Laptop	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Rear Face	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	-0.07	0.003	0.00
	BT	BDR	Left Side	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Right Side	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Top Side	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	-0.06	0.00144	0.00
	BT	BDR	Bottom Side	0	0	C	Ant 1		76.34	1.31	7.00	6.00	1.26	0	<0.001	0.00
	BT	BDR	Rear Face	0	39	C	Ant 1		76.34	1.31	7.00	5.96	1.27	0.17	0.00217	0.00
	BT	BDR	Rear Face	0	78	C	Ant 1		76.34	1.31	7.00	5.98	1.26	-0.06	0.00232	0.00
BT	BDR	Rear Face	0	0	D	Ant 1		76.34	1.31	7.00	6.00	1.26	0.11	0.00263	0.00	
		-														
52	RFID	ASK	Bottom for Laptop	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Rear Face	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Left Side	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Right Side	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Top Side	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Bottom Side	0	13.56	C	-	-	-	1.00	-	-	1.00	0	<0.001	0.00
	RFID	ASK	Rear Face	0	13.56	D	-	-	-	1.00	-	-	1.00	0	<0.001	0.00



BUREAU VERITAS

SAR and Power Density Test Result

System & Position						DUT Configuration			SAR										Power Density									
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	Measured APD W/m ² (4cm ²)	Scaled APD W/m ² (4cm ²)	Grid Step [λ]	iPD [W/m ²]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm ²]	Power Drift [dB]	Normal psPD [W/m ²]	Scaled Normal psPD [W/m ²]	Total psPD [W/m ²]	Scaled Total psPD [W/m ²]	
	UNII-5	802.11be HE320	Bottom for Laptop	0	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	-0.01	0.183	0.24	1.08	1.41										
	UNII-5	802.11be HE320	Left Side	0	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	-0.18	0.334	0.44	1.96	2.56										
	UNII-5	802.11be HE320	Right Side	0	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0.1	0.268	0.35	1.57	2.05										
	UNII-5	802.11be HE320	Bottom Side	0	63	A	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Bottom for Laptop	0	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	-0.13	0.132	0.18	0.781	1.04										
	UNII-5	802.11be HE320	Left Side	0	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Right Side	0	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0.19	0.166	0.22	0.98	1.3										
	UNII-5	802.11be HE320	Bottom Side	0	95	A	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Bottom for Laptop	0	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0.01	0.215	0.29	1.26	1.7										
	UNII-5	802.11be HE320	Left Side	0	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	-0.16	0.252	0.34	1.48	2										
	UNII-5	802.11be HE320	Right Side	0	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	-0.19	0.208	0.28	1.22	1.65										
	UNII-5	802.11be HE320	Bottom Side	0	63	A	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	0	31	A	Ant 0	w/	98.00	1.02	6.50	5.17	1.36	0.08	0.471	0.65	2.74	3.8	0.0509	8.35	1.545	4.00	0.11	0.96	1.51	2.66	5.7	
	UNII-5	802.11be HE320	Top Side	0	31	A	Ant 0	w/	98.00	1.02	6.50	5.17	1.36	0.09	0.353	0.49	2.07	2.87										
	UNII-5	802.11be HE320	Rear Face	0	95	A	Ant 1	w/	98.00	1.02	6.50	5.28	1.32	-0.08	0.428	0.58	2.52	3.39										
	UNII-5	802.11be HE320	Top Side	0	95	A	Ant 1	w/	98.00	1.02	6.50	5.28	1.32	0.05	0.292	0.39	1.72	2.32										
	UNII-5	802.11be HE320	Rear Face	0	63	A	Ant 0+1	w/	95.90	1.04	9.50	8.34	1.31	0.04	0.488	0.66	2.87	3.91	0.0522	8.11	1.545	4.00	-0.03	0.91	1.46	2.59	5.45	
	UNII-5	802.11be HE320	Top Side	0	63	A	Ant 0+1	w/	95.90	1.04	9.50	8.34	1.31	0.18	0.466	0.63	2.74	3.73										
	UNII-5	802.11be HE320	Rear Face	0	31	A	Ant 0	LPI	98.00	1.02	6.50	5.15	1.36	0.04	0.449	0.62	2.64	3.66										
	UNII-5	802.11be HE320	Top Side	0	31	A	Ant 0	LPI	98.00	1.02	6.50	5.15	1.36	-0.13	0.327	0.45	1.92	2.66										
	UNII-5	802.11be HE320	Rear Face	0	95	A	Ant 1	LPI	98.00	1.02	6.50	5.15	1.36	-0.12	0.4	0.55	2.35	3.26										
	UNII-5	802.11be HE320	Top Side	0	95	A	Ant 1	LPI	98.00	1.02	6.50	5.15	1.36	-0.12	0.265	0.37	1.56	2.16										
	UNII-5	802.11be HE320	Rear Face	0	31	A	Ant 0+1	LPI	95.90	1.04	9.50	8.13	1.37	-0.02	0.41	0.58	2.41	3.43										
	UNII-5	802.11be HE320	Top Side	0	31	A	Ant 0+1	LPI	95.90	1.04	9.50	8.13	1.37	0.16	0.43	0.61	2.53	3.6										
	UNII-5	802.11be HE320	Rear Face	0	31	A	Ant 0+1	w/	95.90	1.04	9.50	8.24	1.34	-0.04	0.283	0.39	1.66	2.31										
	UNII-5	802.11be HE320	Rear Face	0	95	A	Ant 0+1	w/	95.90	1.04	9.50	8.21	1.35	-0.18	0.475	0.67	2.79	3.92	0.0535	8.37	1.545	4.00	0.02	0.97	1.56	2.67	5.79	
	UNII-6	802.11ax HE160	Rear Face	0	111	A	Ant 0+1	w/	91.39	1.09	9.00	8.00	1.26	-0.14	0.325	0.45	1.91	2.62										
	UNII-7	802.11be HE320	Rear Face	0	127	A	Ant 0+1	w/	95.90	1.04	9.00	7.47	1.42	0.15	0.435	0.64	2.55	3.77	0.0549	7.96	1.545	4.00	-0.05	0.83	1.33	2.51	5.73	
	UNII-7	802.11be HE320	Rear Face	0	159	A	Ant 0+1	w/	95.90	1.04	9.00	7.49	1.42	0.05	0.419	0.62	2.46	3.63										
53	UNII-8	802.11be HE320	Rear Face	0	191	A	Ant 0+1	w/	95.90	1.04	11.00	10.22	1.20	0.06	0.585	0.73	3.44	4.29	0.0575	9.11	1.545	4.00	0.07	1.27	2.04	3.02	5.82	
	UNII-8	802.11be HE320	Rear Face	0	191	B	Ant 0+1	w/	95.90	1.04	11.00	10.22	1.20	-0.01	0.325	0.41	1.91	2.38										
	UNII-5	802.11be HE320	Bottom for Laptop	0	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0.05	0.054	0.07	0.321	0.42										
	UNII-5	802.11be HE320	Left Side	0	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0.14	0.1	0.13	0.592	0.77										
	UNII-5	802.11be HE320	Right Side	0	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	-0.1	0.081	0.11	0.476	0.62										
	UNII-5	802.11be HE320	Bottom Side	0	63	C	Ant 0	w/o	98.00	1.02	11.00	9.92	1.28	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Bottom for Laptop	0	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0.17	0.04	0.05	0.238	0.32										
	UNII-5	802.11be HE320	Left Side	0	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Right Side	0	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	-0.06	0.05	0.07	0.299	0.4										
	UNII-5	802.11be HE320	Bottom Side	0	95	C	Ant 1	w/o	98.00	1.02	11.00	9.87	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Bottom for Laptop	0	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	10	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	-0.13	0.065	0.09	0.382	0.52										
	UNII-5	802.11be HE320	Left Side	0	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0.18	0.076	0.10	0.448	0.61										
	UNII-5	802.11be HE320	Right Side	0	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Top Side	10	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0.08	0.063	0.09	0.371	0.5										
	UNII-5	802.11be HE320	Bottom Side	0	63	C	Ant 0+1	w/o	95.90	1.04	11.00	9.85	1.30	0	<0.001	0.00	<0.001	0.00										
	UNII-5	802.11be HE320	Rear Face	0	31	C	Ant 0	w/	98.00	1.02	6.50	5.17	1.36	-0.14	0.136	0.19	0.803	1.11</										



**BUREAU
VERITAS**

SAR and Power Density Test Result																											
System & Position						DUT Configuration			SAR											Power Density							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	Power Reduction	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	Measured APD W/m ² (4cm ²)	Scaled APD W/m ² (4cm ²)	Grid Step [λ]	iPD [W/m ²]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm ²]	Power Drift [dB]	Normal psPD [W/m ²]	Scaled Normal psPD [W/m ²]	Total psPD [W/m ²]	Scaled Total psPD [W/m ²]
	UNII-5	802.11be HE320	Rear Face	0	31	C	Ant 0	LPI	98.00	1.02	6.50	5.15	1.36	0.1	0.127	0.18	0.747	1.04									
	UNII-5	802.11be HE320	Top Side	0	31	C	Ant 0	LPI	98.00	1.02	6.50	5.15	1.36	-0.09	0.102	0.14	0.603	0.84									
	UNII-5	802.11be HE320	Rear Face	0	95	C	Ant 1	LPI	98.00	1.02	6.50	5.15	1.36	-0.13	0.113	0.16	0.67	0.93									
	UNII-5	802.11be HE320	Top Side	0	95	C	Ant 1	LPI	98.00	1.02	6.50	5.15	1.36	-0.03	0.077	0.11	0.454	0.63									
	UNII-5	802.11be HE320	Rear Face	0	31	C	Ant 0+1	LPI	95.90	1.04	9.50	8.13	1.37	-0.08	0.125	0.18	0.736	1.05									
	UNII-5	802.11be HE320	Top Side	0	31	C	Ant 0+1	LPI	95.90	1.04	9.50	8.13	1.37	0.15	0.129	0.18	0.758	1.08									
	UNII-5	802.11be HE320	Rear Face	0	31	C	Ant 0+1	w/	95.90	1.04	9.50	8.24	1.34	-0.09	0.085	0.12	0.504	0.7									
	UNII-5	802.11be HE320	Rear Face	0	95	C	Ant 0+1	w/	95.90	1.04	9.50	8.21	1.35	-0.07	0.143	0.20	0.841	1.18									
	UNII-6	802.11ax HE160	Rear Face	0	111	C	Ant 0+1	w/	91.39	1.09	9.00	8.00	1.26	0.14	0.097	0.13	0.576	0.79									
	UNII-7	802.11be HE320	Rear Face	0	127	C	Ant 0+1	w/	95.90	1.04	9.00	7.47	1.42	-0.06	0.11	0.16	0.648	0.96									
	UNII-7	802.11be HE320	Rear Face	0	159	C	Ant 0+1	w/	95.90	1.04	9.00	7.49	1.42	-0.02	0.126	0.19	0.742	1.1									
	UNII-8	802.11be HE320	Rear Face	0	191	C	Ant 0+1	w/	95.90	1.04	11.00	10.22	1.20	-0.18	0.189	0.24	1.11	1.39									
	UNII-8	802.11be HE320	Rear Face	0	191	D	Ant 0+1	w/	95.90	1.04	11.00	10.22	1.20	-0.16	0.164	0.20	0.969	1.21									

Appendix H. Analysis of Simultaneous Transmission.

The analysis of simultaneous transmission SAR are shown as below.

<Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body / Bystander Exposure Condition
A	WWAN + WLAN 2.4G + BT + RFID	Yes
B	WWAN + WLAN 5G + BT + RFID	Yes
C	WWAN + WLAN 6G + BT + RFID	Yes

Notes

1. The WLAN 2.4G and WLAN 5G and WLAN6G cannot transmit simultaneously.
2. The WLAN and Bluetooth cannot transmit simultaneously.



Simultaneous Transmission SAR Evaluation (Body)										
Band	Position	1	2	3	4	5	6	A (1+2+5+6)	B (1+3+5+6)	C (1+4+5+6)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	RFID	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg			
WCDMA II	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.37	0.18	0.81	0.73	0.01	5.82	0.56	1.19	1.11
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.47	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47
	Top Side	0.48	0.08	0.75	0.63	0.01	0.75	0.57	1.24	1.12
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WCDMA IV	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.36	0.18	0.81	0.73	0.01	5.82	0.55	1.18	1.10
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.46	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.46
	Top Side	0.47	0.08	0.75	0.63	0.01	0.75	0.56	1.23	1.11
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WCDMA V	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.42	0.18	0.81	0.73	0.01	5.82	0.61	1.24	1.16
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.55	0.00	0.00	0.00	0.00	0.00	0.55	0.55	0.55
	Top Side	0.56	0.08	0.75	0.63	0.01	0.75	0.65	1.32	1.20
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 2	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.40	0.18	0.81	0.73	0.01	5.82	0.59	1.22	1.14
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.69	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.69
	Top Side	0.55	0.08	0.75	0.63	0.01	0.75	0.64	1.31	1.19
	Bottom Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
LTE 4	Bottom of Laptop	0.09	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09
	Rear Face	0.37	0.18	0.81	0.73	0.01	5.82	0.56	1.19	1.11
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.52	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52
	Top Side	0.50	0.08	0.75	0.63	0.01	0.75	0.59	1.26	1.14
	Bottom Side	0.19	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.19
LTE 5	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	0.18	0.81	0.73	0.01	5.82	0.59	1.22	1.14
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
	Top Side	0.56	0.08	0.75	0.63	0.01	0.75	0.65	1.32	1.20
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 7	Bottom of Laptop	0.11	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.11
	Rear Face	0.48	0.18	0.81	0.73	0.01	5.82	0.67	1.30	1.22
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.65	0.00	0.00	0.00	0.00	0.00	0.65	0.65	0.65
	Top Side	0.59	0.08	0.75	0.63	0.01	0.75	0.68	1.35	1.23
	Bottom Side	0.23	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23
LTE 12	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	0.18	0.81	0.73	0.01	5.82	0.58	1.21	1.13
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.38	0.00	0.00	0.00	0.00	0.00	0.38	0.38	0.38
	Top Side	0.55	0.08	0.75	0.63	0.01	0.75	0.64	1.31	1.19
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 13	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	0.18	0.81	0.73	0.01	5.82	0.58	1.21	1.13
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.39	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39
	Top Side	0.55	0.08	0.75	0.63	0.01	0.75	0.64	1.31	1.19
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 14	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	0.18	0.81	0.73	0.01	5.82	0.58	1.21	1.13
	Left Side	0.00	0.07	0.76	0.44	0.00	0.76	0.07	0.76	0.44
	Right Side	0.40	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.40
	Top Side	0.55	0.08	0.75	0.63	0.01	0.75	0.64	1.31	1.19
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Simultaneous Transmission SAR Evaluation (Body)										
Band	Position	1	2	3	4	5	6	A (1+2+5+6)	B (1+3+5+6)	C (1+4+5+6)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	RFID	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg			
LTE 17	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	0.18	0.81	0.73	0.01	0.00	0.59	1.22	1.14
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.41	0.00	0.00	0.00	0.00	0.00	0.41	0.41	0.41
	Top Side	0.56	0.08	0.75	0.63	0.01	0.00	0.65	1.32	1.20
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 25	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.36	0.18	0.81	0.73	0.01	0.00	0.55	1.18	1.10
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.55	0.00	0.00	0.00	0.00	0.00	0.55	0.55	0.55
	Top Side	0.49	0.08	0.75	0.63	0.01	0.00	0.58	1.25	1.13
	Bottom Side	0.20	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.20
LTE 26	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	0.18	0.81	0.73	0.01	0.00	0.58	1.21	1.13
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.38	0.00	0.00	0.00	0.00	0.00	0.38	0.38	0.38
	Top Side	0.54	0.08	0.75	0.63	0.01	0.00	0.63	1.30	1.18
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LTE 30	Bottom of Laptop	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14
	Rear Face	0.48	0.18	0.81	0.73	0.01	0.00	0.67	1.30	1.22
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.64	0.00	0.00	0.00	0.00	0.00	0.64	0.64	0.64
	Top Side	0.65	0.08	0.75	0.63	0.01	0.00	0.74	1.41	1.29
	Bottom Side	0.28	0.00	0.00	0.00	0.00	0.00	0.28	0.28	0.28
LTE 38	Bottom of Laptop	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13
	Rear Face	0.43	0.18	0.81	0.73	0.01	0.00	0.62	1.25	1.17
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.63	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.63
	Top Side	0.60	0.08	0.75	0.63	0.01	0.00	0.69	1.36	1.24
	Bottom Side	0.27	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27
LTE 41	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.38	0.18	0.81	0.73	0.01	0.00	0.57	1.20	1.12
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.63	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.63
	Top Side	0.52	0.08	0.75	0.63	0.01	0.00	0.61	1.28	1.16
	Bottom Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
LTE 42	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.59	0.18	0.81	0.73	0.01	0.00	0.78	1.41	1.33
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.62	0.00	0.00	0.00	0.00	0.00	0.62	0.62	0.62
	Top Side	0.61	0.08	0.75	0.63	0.01	0.00	0.70	1.37	1.25
	Bottom Side	0.55	0.00	0.00	0.00	0.00	0.00	0.55	0.55	0.55
LTE 43	Bottom of Laptop	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14
	Rear Face	0.47	0.18	0.81	0.73	0.01	0.00	0.66	1.29	1.21
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.69	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.69
	Top Side	0.49	0.08	0.75	0.63	0.01	0.00	0.58	1.25	1.13
	Bottom Side	0.62	0.00	0.00	0.00	0.00	0.00	0.62	0.62	0.62
LTE 48	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.51	0.18	0.81	0.73	0.01	0.00	0.70	1.33	1.25
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.52	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52
	Top Side	0.53	0.08	0.75	0.63	0.01	0.00	0.62	1.29	1.17
	Bottom Side	0.44	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44
LTE 66	Bottom of Laptop	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13
	Rear Face	0.48	0.18	0.81	0.73	0.01	0.00	0.67	1.30	1.22
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.64	0.00	0.00	0.00	0.00	0.00	0.64	0.64	0.64
	Top Side	0.66	0.08	0.75	0.63	0.01	0.00	0.75	1.42	1.30
	Bottom Side	0.26	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26



Simultaneous Transmission SAR Evaluation (Body)										
Band	Position	1	2	3	4	5	6	A (1+2+5+6)	B (1+3+5+6)	C (1+4+5+6)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	RFID	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg			
LTE 71	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	0.18	0.81	0.73	0.01	0.00	0.58	1.21	1.13
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33
	Top Side	0.55	0.08	0.75	0.63	0.01	0.00	0.64	1.31	1.19
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n2	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.49	0.18	0.81	0.73	0.01	0.00	0.68	1.31	1.23
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.56	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56
	Top Side	0.61	0.08	0.75	0.63	0.01	0.00	0.70	1.37	1.25
	Bottom Side	0.20	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.20
5G NR-n5	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.36	0.18	0.81	0.73	0.01	0.00	0.55	1.18	1.10
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
	Top Side	0.51	0.08	0.75	0.63	0.01	0.00	0.60	1.27	1.15
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n7	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.50	0.18	0.81	0.73	0.01	0.00	0.69	1.32	1.24
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.63	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.63
	Top Side	0.62	0.08	0.75	0.63	0.01	0.00	0.71	1.38	1.26
	Bottom Side	0.21	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21
5G NR-n12	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	0.18	0.81	0.73	0.01	0.00	0.59	1.22	1.14
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.30	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.30
	Top Side	0.57	0.08	0.75	0.63	0.01	0.00	0.66	1.33	1.21
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n13	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.46	0.18	0.81	0.73	0.01	0.00	0.65	1.28	1.20
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.32	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32
	Top Side	0.65	0.08	0.75	0.63	0.01	0.00	0.74	1.41	1.29
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n14	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.46	0.18	0.81	0.73	0.01	0.00	0.65	1.28	1.20
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.32	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32
	Top Side	0.64	0.08	0.75	0.63	0.01	0.00	0.73	1.40	1.28
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n25	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.51	0.18	0.81	0.73	0.01	0.00	0.70	1.33	1.25
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.58	0.00	0.00	0.00	0.00	0.00	0.58	0.58	0.58
	Top Side	0.63	0.08	0.75	0.63	0.01	0.00	0.72	1.39	1.27
	Bottom Side	0.21	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21
5G NR-n26	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.47	0.18	0.81	0.73	0.01	0.00	0.66	1.29	1.21
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33
	Top Side	0.69	0.08	0.75	0.63	0.01	0.00	0.78	1.45	1.33
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5G NR-n30	Bottom of Laptop	0.11	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.11
	Rear Face	0.43	0.18	0.81	0.73	0.01	0.00	0.62	1.25	1.17
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.53	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.53
	Top Side	0.54	0.08	0.75	0.63	0.01	0.00	0.63	1.30	1.18
	Bottom Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Simultaneous Transmission SAR Evaluation (Body)										
Band	Position	1	2	3	4	5	6	A (1+2+5+6)	B (1+3+5+6)	C (1+4+5+6)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	RFID	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg
		1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg			
5G NR-n38	Bottom of Laptop	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14
	Rear Face	0.46	0.18	0.81	0.73	0.01	0.00	0.65	1.28	1.20
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.69	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.69
	Top Side	0.57	0.08	0.75	0.63	0.01	0.00	0.66	1.33	1.21
	Bottom Side	0.29	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.29
5G NR-n41	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.43	0.18	0.81	0.73	0.01	0.00	0.62	1.25	1.17
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.68	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68
	Top Side	0.62	0.08	0.75	0.63	0.01	0.00	0.71	1.38	1.26
	Bottom Side	0.24	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24
5G NR-n48	Bottom of Laptop	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10
	Rear Face	0.50	0.18	0.81	0.73	0.01	0.00	0.69	1.32	1.24
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.57	0.00	0.00	0.00	0.00	0.00	0.57	0.57	0.57
	Top Side	0.69	0.08	0.75	0.63	0.01	0.00	0.78	1.45	1.33
	Bottom Side	0.20	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.20
5G NR-n66	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.46	0.18	0.81	0.73	0.01	0.00	0.65	1.28	1.20
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.60	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60
	Top Side	0.64	0.08	0.75	0.63	0.01	0.00	0.73	1.40	1.28
	Bottom Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
5G NR-n70	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.49	0.18	0.81	0.73	0.01	0.00	0.68	1.31	1.23
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.66	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.66
	Top Side	0.67	0.08	0.75	0.63	0.01	0.00	0.76	1.43	1.31
	Bottom Side	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25
5G NR-n71	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.45	0.18	0.81	0.73	0.01	0.00	0.64	1.27	1.19
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.68	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68
	Top Side	0.63	0.08	0.75	0.63	0.01	0.00	0.72	1.39	1.27
	Bottom Side	0.24	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24
5G NR-n77	Bottom of Laptop	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12
	Rear Face	0.53	0.18	0.81	0.73	0.01	0.00	0.72	1.35	1.27
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.68	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68
	Top Side	0.54	0.08	0.75	0.63	0.01	0.00	0.63	1.30	1.18
	Bottom Side	0.56	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56
5G NR-n78	Bottom of Laptop	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13
	Rear Face	0.45	0.18	0.81	0.73	0.01	0.00	0.64	1.27	1.19
	Left Side	0.00	0.07	0.76	0.44	0.00	0.00	0.07	0.76	0.44
	Right Side	0.60	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60
	Top Side	0.53	0.08	0.75	0.63	0.01	0.00	0.62	1.29	1.17
	Bottom Side	0.56	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
WCDMA II	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.37	5.82	0.01	5.82	0.82
	Left Side	0.00	0.00	0.00	0.76	0.00
	Right Side	0.47	0.00	0.00	0.00	0.29
	Top Side	0.48	0.00	0.01	0.75	0.31
	Bottom Side	0.00	0.00	0.00	0.00	0.00
WCDMA IV	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.36	5.82	0.01	5.82	0.81
	Left Side	0.00	0.00	0.00	0.76	0.00
	Right Side	0.46	0.00	0.00	0.00	0.29
	Top Side	0.47	0.00	0.01	0.75	0.30
	Bottom Side	0.00	0.00	0.00	0.00	0.00
WCDMA V	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.42	5.82	0.01	5.82	0.85
	Left Side	0.00	0.00	0.00	0.76	0.00
	Right Side	0.55	0.00	0.00	0.00	0.34
	Top Side	0.56	0.00	0.01	0.75	0.36
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 2	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.40	5.82	0.01	5.82	0.84
	Left Side	0.00	0.00	0.00	0.76	0.00
	Right Side	0.69	0.00	0.00	0.00	0.43
	Top Side	0.55	0.00	0.01	0.75	0.35
	Bottom Side	0.25	0.00	0.00	0.00	0.16
	Rear Face	0.40	5.82	0.01	5.82	0.84
LTE 4	Bottom of Laptop	0.09	0.00	0.00	0.00	0.06
	Rear Face	0.37	5.82	0.01	5.82	0.82
	Left Side	0.00	0.00	0.00	0.76	0.00
	Right Side	0.52	0.00	0.00	0.00	0.33
	Top Side	0.50	0.00	0.01	0.75	0.32
	Bottom Side	0.19	0.00	0.00	0.00	0.12
LTE 5	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	5.82	0.01	0.00	0.84
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.25	0.00	0.00	0.00	0.16
	Top Side	0.56	0.00	0.01	0.00	0.36
	Bottom Side	0.00	0.00	0.00	0.00	0.00

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
LTE 7	Bottom of Laptop	0.11	0.00	0.00	0.00	0.07
	Rear Face	0.48	5.82	0.01	0.00	0.89
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.65	0.00	0.00	0.00	0.41
	Top Side	0.59	0.00	0.01	0.00	0.38
	Bottom Side	0.23	0.00	0.00	0.00	0.14
LTE 12	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.38	0.00	0.00	0.00	0.24
	Top Side	0.55	0.00	0.01	0.00	0.35
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 13	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.39	0.00	0.00	0.00	0.24
	Top Side	0.55	0.00	0.01	0.00	0.35
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 14	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.40	0.00	0.00	0.00	0.25
	Top Side	0.55	0.00	0.01	0.00	0.35
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 17	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	5.82	0.01	0.00	0.84
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.41	0.00	0.00	0.00	0.26
	Top Side	0.56	0.00	0.01	0.00	0.36
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 25	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.36	5.82	0.01	0.00	0.81
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.55	0.00	0.00	0.00	0.34
	Top Side	0.49	0.00	0.01	0.00	0.31
	Bottom Side	0.20	0.00	0.00	0.00	0.13

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
LTE 26	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.38	0.00	0.00	0.00	0.24
	Top Side	0.54	0.00	0.01	0.00	0.34
	Bottom Side	0.00	0.00	0.00	0.00	0.00
LTE 30	Bottom of Laptop	0.14	0.00	0.00	0.00	0.09
	Rear Face	0.48	5.82	0.01	0.00	0.89
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.64	0.00	0.00	0.00	0.40
	Top Side	0.65	0.00	0.01	0.00	0.41
	Bottom Side	0.28	0.00	0.00	0.00	0.18
LTE 38	Bottom of Laptop	0.13	0.00	0.00	0.00	0.08
	Rear Face	0.43	5.82	0.01	0.00	0.86
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.63	0.00	0.00	0.00	0.39
	Top Side	0.60	0.00	0.01	0.00	0.38
	Bottom Side	0.27	0.00	0.00	0.00	0.17
LTE 41	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.38	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.63	0.00	0.00	0.00	0.39
	Top Side	0.52	0.00	0.01	0.00	0.33
	Bottom Side	0.25	0.00	0.00	0.00	0.16
LTE 42	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.59	5.82	0.01	0.00	0.96
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.62	0.00	0.00	0.00	0.39
	Top Side	0.61	0.00	0.01	0.00	0.39
	Bottom Side	0.55	0.00	0.00	0.00	0.34
LTE 43	Bottom of Laptop	0.14	0.00	0.00	0.00	0.09
	Rear Face	0.47	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.69	0.00	0.00	0.00	0.43
	Top Side	0.49	0.00	0.01	0.00	0.31
	Bottom Side	0.62	0.00	0.00	0.00	0.39

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
LTE 48	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.51	5.82	0.01	0.00	0.91
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.52	0.00	0.00	0.00	0.33
	Top Side	0.53	0.00	0.01	0.00	0.34
	Bottom Side	0.44	0.00	0.00	0.00	0.28
LTE 66	Bottom of Laptop	0.13	0.00	0.00	0.00	0.08
	Rear Face	0.48	5.82	0.01	0.00	0.89
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.64	0.00	0.00	0.00	0.40
	Top Side	0.66	0.00	0.01	0.00	0.42
	Bottom Side	0.26	0.00	0.00	0.00	0.16
LTE 71	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.39	5.82	0.01	0.00	0.83
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.33	0.00	0.00	0.00	0.21
	Top Side	0.55	0.00	0.01	0.00	0.35
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5GNR-n2	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.49	5.82	0.01	0.00	0.89
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.56	0.00	0.00	0.00	0.35
	Top Side	0.61	0.00	0.01	0.00	0.39
	Bottom Side	0.20	0.00	0.00	0.00	0.13
5GNR-n5	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.36	5.82	0.01	0.00	0.81
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.25	0.00	0.00	0.00	0.16
	Top Side	0.51	0.00	0.01	0.00	0.33
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5GNR-n7	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.50	5.82	0.01	0.00	0.90
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.63	0.00	0.00	0.00	0.39
	Top Side	0.62	0.00	0.01	0.00	0.39
	Bottom Side	0.21	0.00	0.00	0.00	0.13

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
5G NR-n12	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.40	5.82	0.01	0.00	0.84
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.30	0.00	0.00	0.00	0.19
	Top Side	0.57	0.00	0.01	0.00	0.36
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5G NR-n13	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.46	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.32	0.00	0.00	0.00	0.20
	Top Side	0.65	0.00	0.01	0.00	0.41
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5G NR-n14	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.46	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.32	0.00	0.00	0.00	0.20
	Top Side	0.64	0.00	0.01	0.00	0.41
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5G NR-n25	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.51	5.82	0.01	0.00	0.91
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.58	0.00	0.00	0.00	0.36
	Top Side	0.63	0.00	0.01	0.00	0.40
	Bottom Side	0.21	0.00	0.00	0.00	0.13
5G NR-n26	Bottom of Laptop	0.00	0.00	0.00	0.00	0.00
	Rear Face	0.47	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.33	0.00	0.00	0.00	0.21
	Top Side	0.69	0.00	0.01	0.00	0.44
	Bottom Side	0.00	0.00	0.00	0.00	0.00
5G NR-n30	Bottom of Laptop	0.11	0.00	0.00	0.00	0.07
	Rear Face	0.43	5.82	0.01	0.00	0.86
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.53	0.00	0.00	0.00	0.33
	Top Side	0.54	0.00	0.01	0.00	0.34
	Bottom Side	0.00	0.00	0.00	0.00	0.00

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
5G NR-n38	Bottom of Laptop	0.14	0.00	0.00	0.00	0.09
	Rear Face	0.46	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.69	0.00	0.00	0.00	0.43
	Top Side	0.57	0.00	0.01	0.00	0.36
	Bottom Side	0.29	0.00	0.00	0.00	0.18
5G NR-n41	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.43	5.82	0.01	0.00	0.86
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.68	0.00	0.00	0.00	0.43
	Top Side	0.62	0.00	0.01	0.00	0.39
	Bottom Side	0.24	0.00	0.00	0.00	0.15
5G NR-n48	Bottom of Laptop	0.10	0.00	0.00	0.00	0.06
	Rear Face	0.50	5.82	0.01	0.00	0.90
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.57	0.00	0.00	0.00	0.36
	Top Side	0.69	0.00	0.01	0.00	0.44
	Bottom Side	0.20	0.00	0.00	0.00	0.13
5G NR-n66	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.46	5.82	0.01	0.00	0.88
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.60	0.00	0.00	0.00	0.38
	Top Side	0.64	0.00	0.01	0.00	0.41
	Bottom Side	0.25	0.00	0.00	0.00	0.16
5G NR-n70	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.49	5.82	0.01	0.00	0.89
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.66	0.00	0.00	0.00	0.41
	Top Side	0.67	0.00	0.01	0.00	0.43
	Bottom Side	0.25	0.00	0.00	0.00	0.16
5G NR-n71	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.45	5.82	0.01	0.00	0.87
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.68	0.00	0.00	0.00	0.43
	Top Side	0.63	0.00	0.01	0.00	0.40
	Bottom Side	0.24	0.00	0.00	0.00	0.15

Total Exposure Ratio (Body)						
Band	Position	1	4	5	6	C (1+4+5+6)
		Max WWAN	Max WLAN 6GHz	Max BT Ant 1	RFID	Total Exposure Ratio
		1g SAR W/kg	4cm2 W/m2	1g SAR W/kg	1g SAR W/kg	
5G NR-n77	Bottom of Laptop	0.12	0.00	0.00	0.00	0.08
	Rear Face	0.53	5.82	0.01	0.00	0.92
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.68	0.00	0.00	0.00	0.43
	Top Side	0.54	0.00	0.01	0.00	0.34
	Bottom Side	0.56	0.00	0.00	0.00	0.35
5G NR-n78	Bottom of Laptop	0.13	0.00	0.00	0.00	0.08
	Rear Face	0.45	5.82	0.01	0.00	0.87
	Left Side	0.00	0.00	0.00	0.00	0.00
	Right Side	0.60	0.00	0.00	0.00	0.38
	Top Side	0.53	0.00	0.01	0.00	0.34
	Bottom Side	0.56	0.00	0.00	0.00	0.35



Appendix J. Calibration of Test Equipment List

Calibration of Test Equipment List are shown as below.

Equipment for SAR Test

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	CLA13	1018	Mar. 20, 2023	1 Year
System Validation Dipole	SPEAG	D750V3	1013	Aug. 21, 2023	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 21, 2023	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Sep. 21, 2023	1 Year
System Validation Dipole	SPEAG	D1900V2	5d018	Dec. 08, 2023	1 Year
System Validation Dipole	SPEAG	D2300V2	1092	Dec. 07, 2023	1 Year
System Validation Dipole	SPEAG	D2450V2	869	Jun. 14, 2023	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 18, 2023	1 Year
System Validation Dipole	SPEAG	D3500V2	1067	Jan. 23, 2024	1 Year
System Validation Dipole	SPEAG	D3700V2	1074	Jan. 23, 2024	1 Year
System Validation Dipole	SPEAG	D3900V2	1045	Nov. 21, 2023	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Feb. 13, 2024	1 Year
System Validation Dipole	SPEAG	D6.5GHzV2	1008	Sep. 21, 2023	1 Year
System Verification Source	SPEAG	5G Verification Source 10 GHz	1025	Jan. 18, 2024	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7472	Oct. 23, 2023	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7720	Mar. 23, 2023	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7736	Feb. 01, 2024	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7797	Jan. 08, 2024	1 Year
E-Field Probe	SPEAG	EUmmWV4	9615	Jul. 10, 2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1590	Sep. 14, 2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Aug. 24, 2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1698	Nov. 17, 2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1761	Nov. 27, 2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1589	May. 24, 2023	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6201381727	Aug. 09, 2023	1 Year
Universal Radio Communication Tester	Anritsu	MT8000A	6272278610	Aug. 16, 2023	1 Year
Analog Signal Generator	R&S	SMA100B	104417	Oct. 23, 2023	1 Year
Mini-Circuits Wideband Amplifier	Mini-Circuits	ZVA-183-S+	434502031A	Jul. 07, 2023	1 Year
Universal Wireless Test Set	Anritsu	MT8870A	6262296569	Aug. 16, 2023	1 Year
Thermometer	YFE	YF-160A	120702365	Sep. 11, 2023	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	1092	May. 23, 2023	1 Year
Dielectric Assessment Kit	SPEAG	DAKS_VNA R140	0010917	May. 22, 2023	1 Year
Dielectric Assessment Kit	SPEAG	DAK-12	1164	Mar. 20, 2023	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	1052	Jul. 13, 2023	1 Year



Appendix Z. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **B.V. ADT**
Taoyuan City, Taiwan

Certificate No. **CLA13-1018_Mar23**

CALIBRATION CERTIFICATE

Object **CLA13 - SN: 1018**

Calibration procedure(s) **QA CAL-15.v10
Calibration Procedure for SAR Validation Sources below 700 MHz**

Calibration date: **March 20, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 3877	06-Jan-23 (No. EX3-3877_Jan23)	Jan-24
DAE4	SN: 654	27-Jan-23 (No. DAE4-654_Jan23)	Jan-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter NRP2	SN: 107193	08-Nov-21 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91	SN: 100922	15-Dec-09 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91	SN: 100418	01-Jan-04 (in house check Dec-22)	In house check: Dec-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by:	Jelena Kastirati	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: March 21, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:** This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	$dx, dy = 4.0$ mm, $dz = 1.4$ mm	Graded Ratio = 1.4 (Z direction)
Frequency	13 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	55.0	0.75 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	0.74 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	1 W input power	0.534 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.538 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	1 W input power	0.335 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.337 W/kg ± 18.0 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$52.0 \Omega + 2.8 j\Omega$
Return Loss	- 29.4 dB

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 20.03.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1018

Communication System: UID 0 - CW; Frequency: 13 MHz

Medium parameters used: $f = 13 \text{ MHz}$; $\sigma = 0.74 \text{ S/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: EX3DV4 - SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 27.01.2023
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan,

dist=1.4mm (8x10x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 32.07 V/m; Power Drift = -0.06 dB

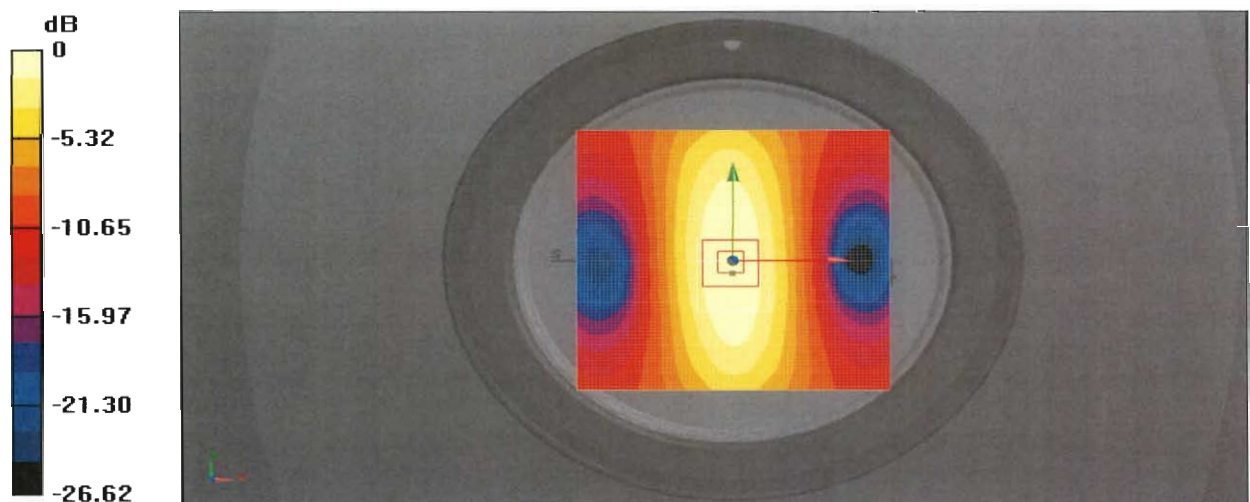
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.335 W/kg

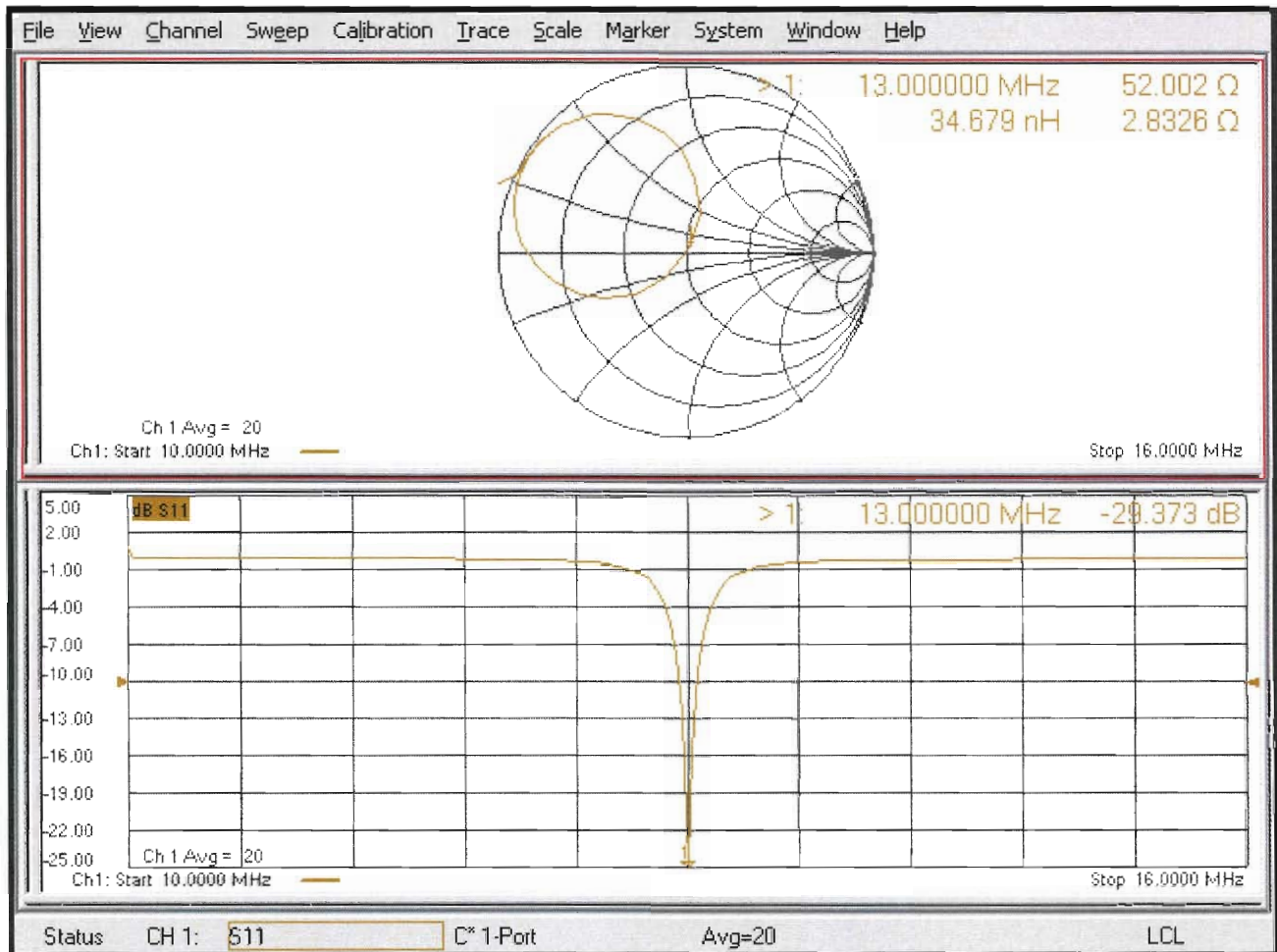
Smallest distance from peaks to all points 3 dB below = 18.4 mm

Ratio of SAR at M2 to SAR at M1 = 79.5%

Maximum value of SAR (measured) = 0.782 W/kg



Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **B.V. ADT**
Taoyuan City

Certificate No. **D750V3-1013_Aug23**

CALIBRATION CERTIFICATE

Object **D750V3 - SN:1013**

Calibration procedure(s) **QA CAL-05.v12**
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: **August 21, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Michael Weber** Name: Michael Weber Function: Laboratory Technician

Signature

Approved by: **Sven Kühn** Name: Sven Kühn Function: Technical Manager

Issued: August 22, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.5 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.56 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.61 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.3 Ω + 0.1 j Ω
Return Loss	- 29.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.033 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 21.08.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1013

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.70 V/m; Power Drift = -0.00 dB

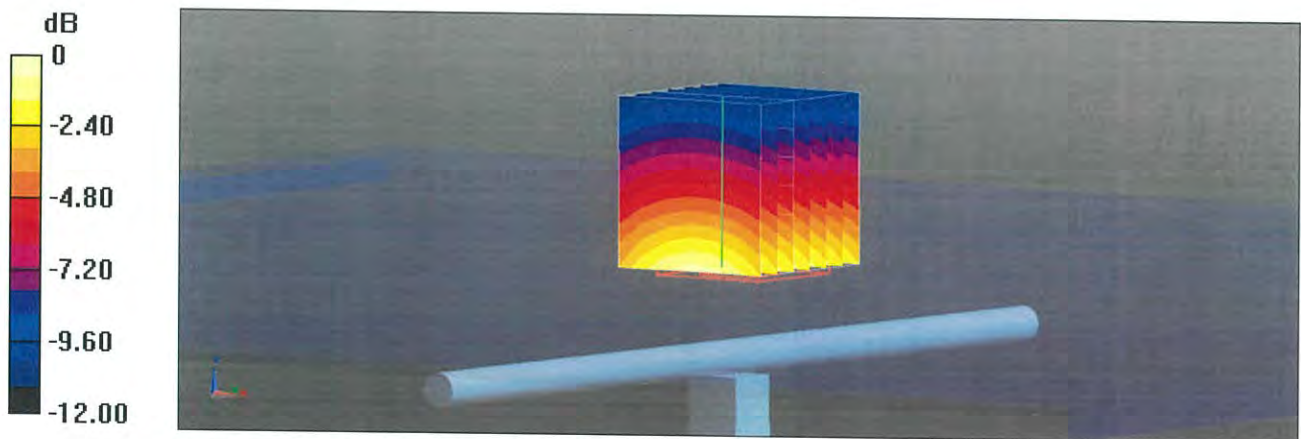
Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.42 W/kg

Smallest distance from peaks to all points 3 dB below = 17.9 mm

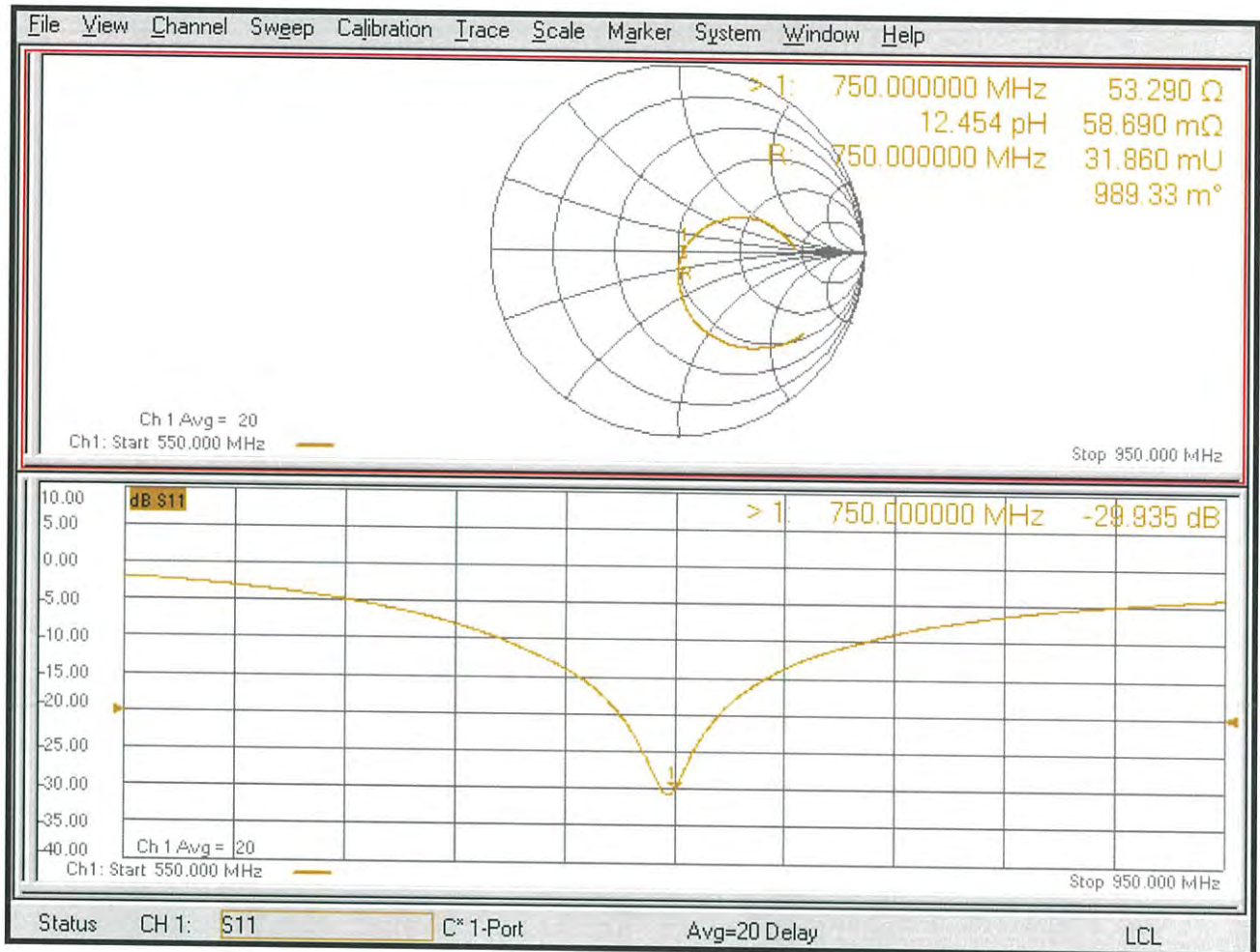
Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **B.V. ADT**
Taoyuan City

Certificate No. **D835V2-4d121_Aug23**

CALIBRATION CERTIFICATE

Object **D835V2 - SN:4d121**

Calibration procedure(s) **QA CAL-05.v12
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **August 21, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by:	Name Michael Weber	Function Laboratory Technician	Signature
Approved by:	Sven Kühn	Technical Manager	

Issued: August 22, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- *Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	42.3 \pm 6 %	0.94 mho/m \pm 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.50 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.72 W/kg \pm 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.62 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.32 W/kg \pm 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.1 Ω - 2.0 j Ω
Return Loss	- 34.2 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.394 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 21.08.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d121

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.83 V/m; Power Drift = -0.00 dB

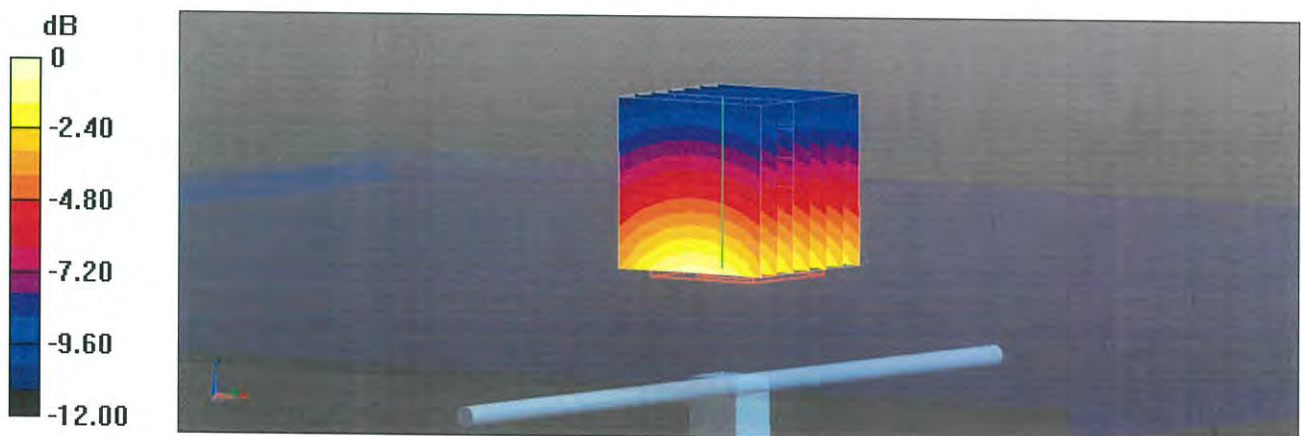
Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.50 W/kg; SAR(10 g) = 1.62 W/kg

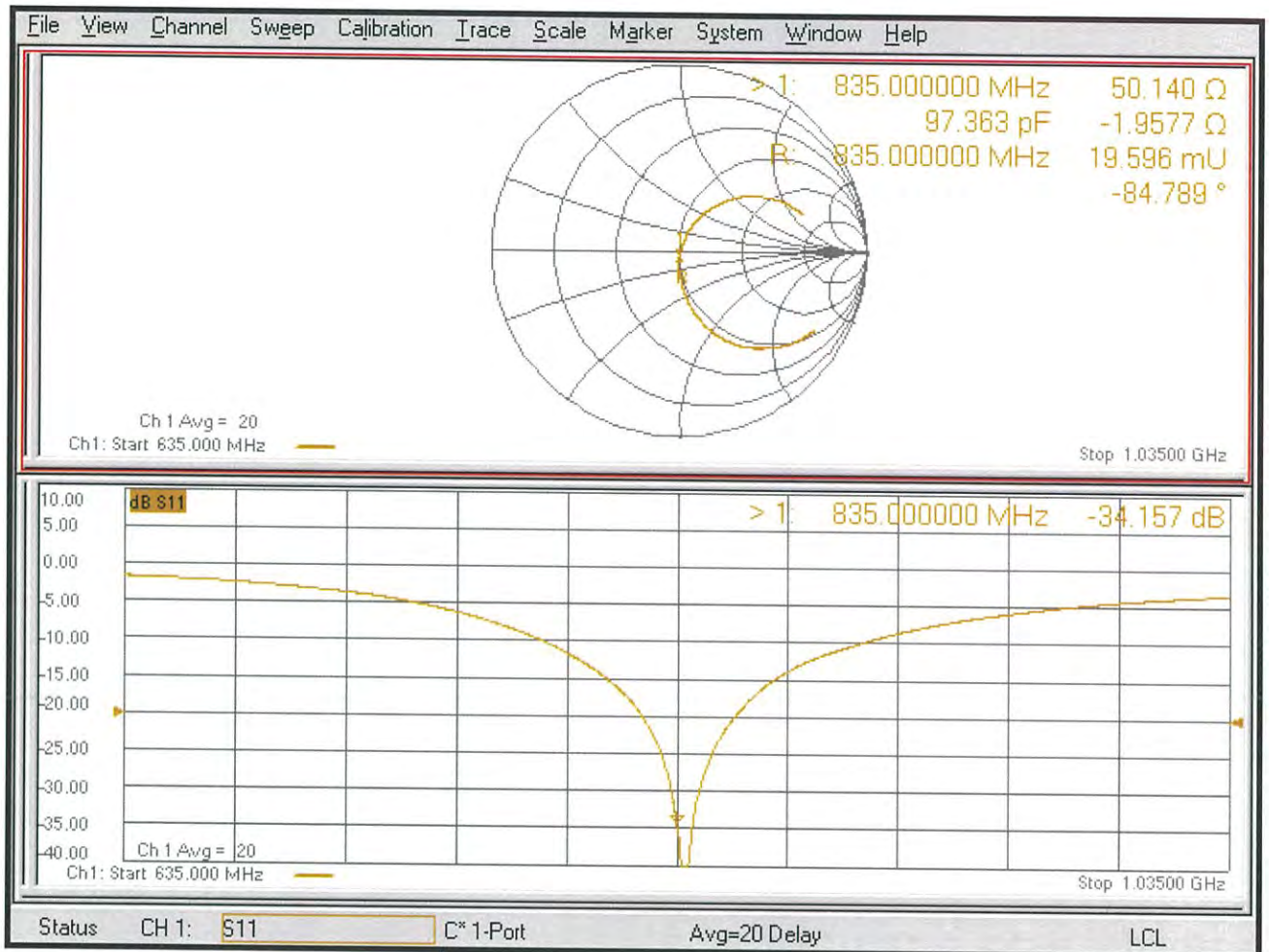
Smallest distance from peaks to all points 3 dB below = 16.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.5%

Maximum value of SAR (measured) = 3.32 W/kg



Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **B.V. ADT**
Taoyuan City

Certificate No. **D1750V2-1055_Sep23**

CALIBRATION CERTIFICATE

Object **D1750V2 - SN:1055**

Calibration procedure(s) **QA CAL-05.v12**
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: **September 21, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Paulo Pina** **Laboratory Technician**

Signature

Approved by: **Sven Kühn** **Technical Manager**

Issued: September 21, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.3 ± 6 %	1.36 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.02 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.77 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.2 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.5 Ω - 0.6 j Ω
Return Loss	- 42.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.228 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 21.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1055

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.67, 8.67, 8.67) @ 1750 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/ $P_{in}=250$ mW, $d=10$ mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 105.8 V/m; Power Drift = 0.00 dB

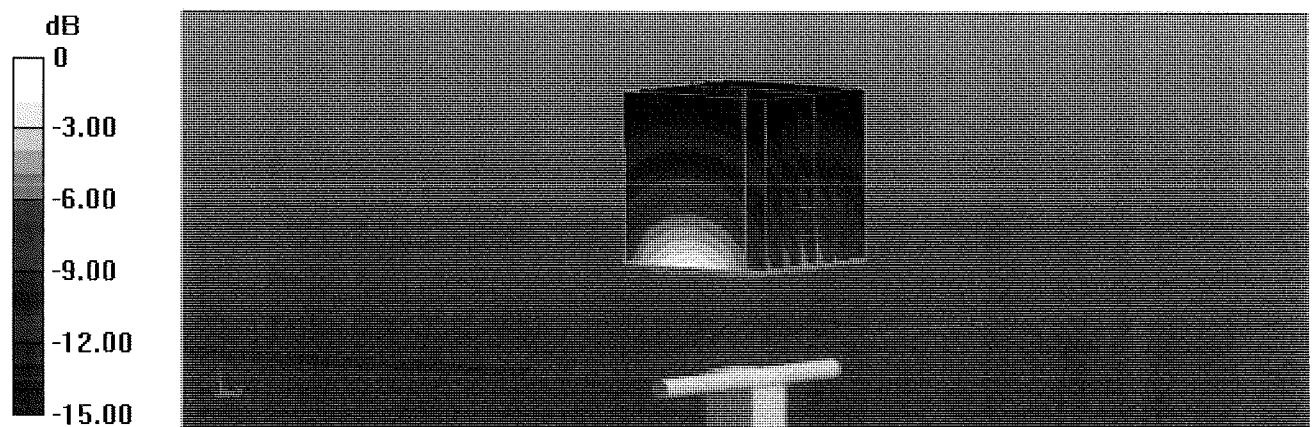
Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 9.02 W/kg; SAR(10 g) = 4.77 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

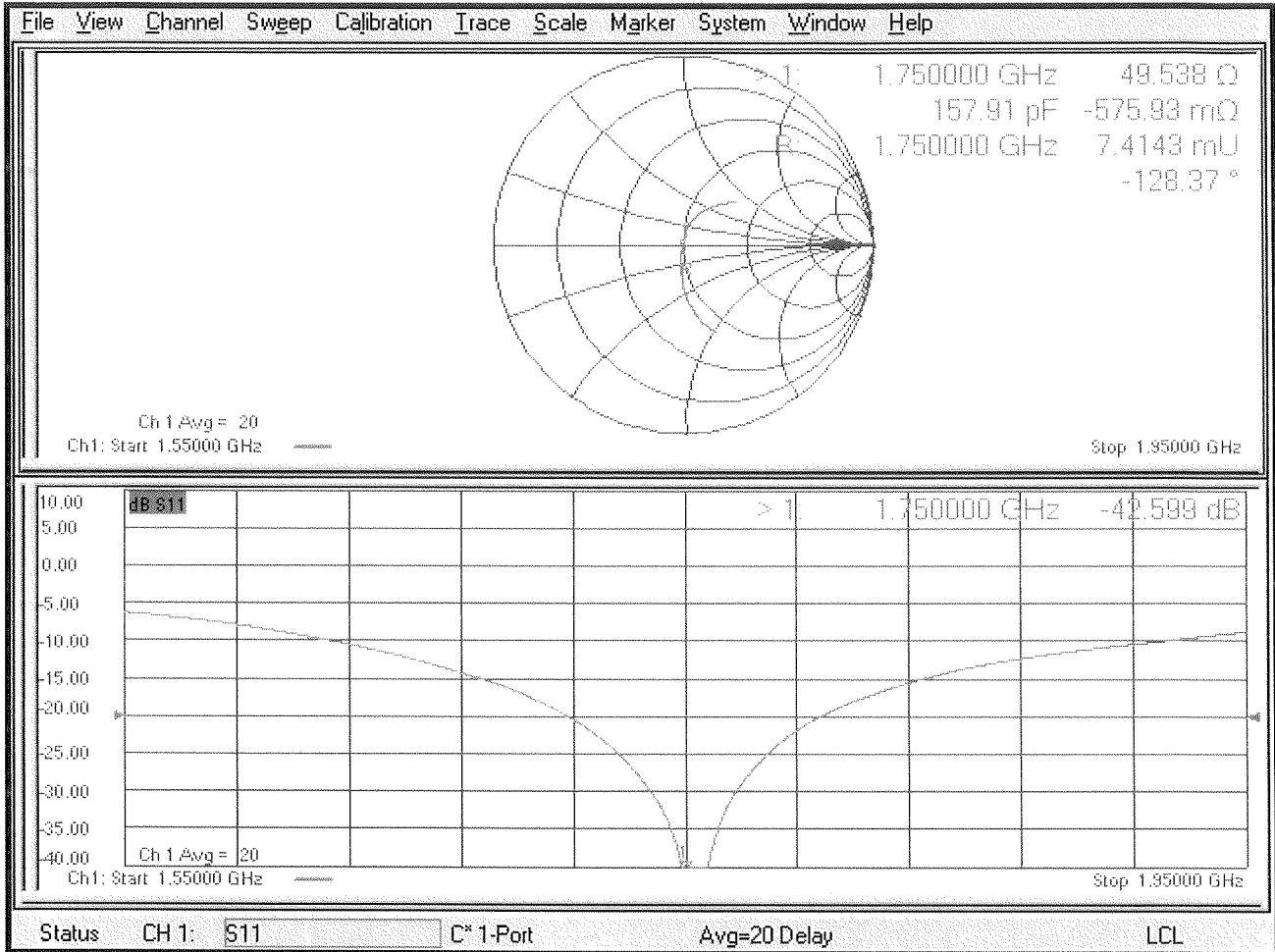
Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.33 dBW/kg

Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Auden**
Taoyuan City

Certificate No. **D1900V2-5d018_Dec23**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN:5d018**

Calibration procedure(s) **QA CAL-05.v12
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **December 08, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Krešimir Franjić** Name: **Krešimir Franjić** Function: **Laboratory Technician**

Approved by: **Sven Kühn** Name: **Sven Kühn** Function: **Technical Manager**

Signature

Issued: December 8, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	40.8 \pm 6 %	1.40 mho/m \pm 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.9 W/kg \pm 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.9 W/kg \pm 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.6 Ω + 1.8 j Ω
Return Loss	- 34.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.194 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 08.12.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d018

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.43, 8.43, 8.43) @ 1900 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.7 V/m; Power Drift = 0.07 dB

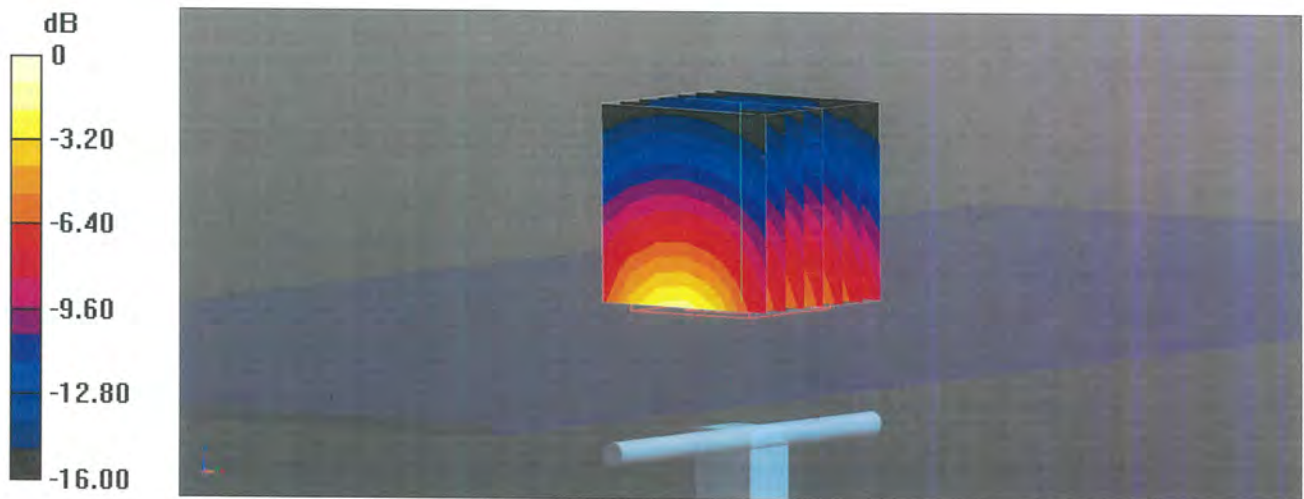
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.2 W/kg

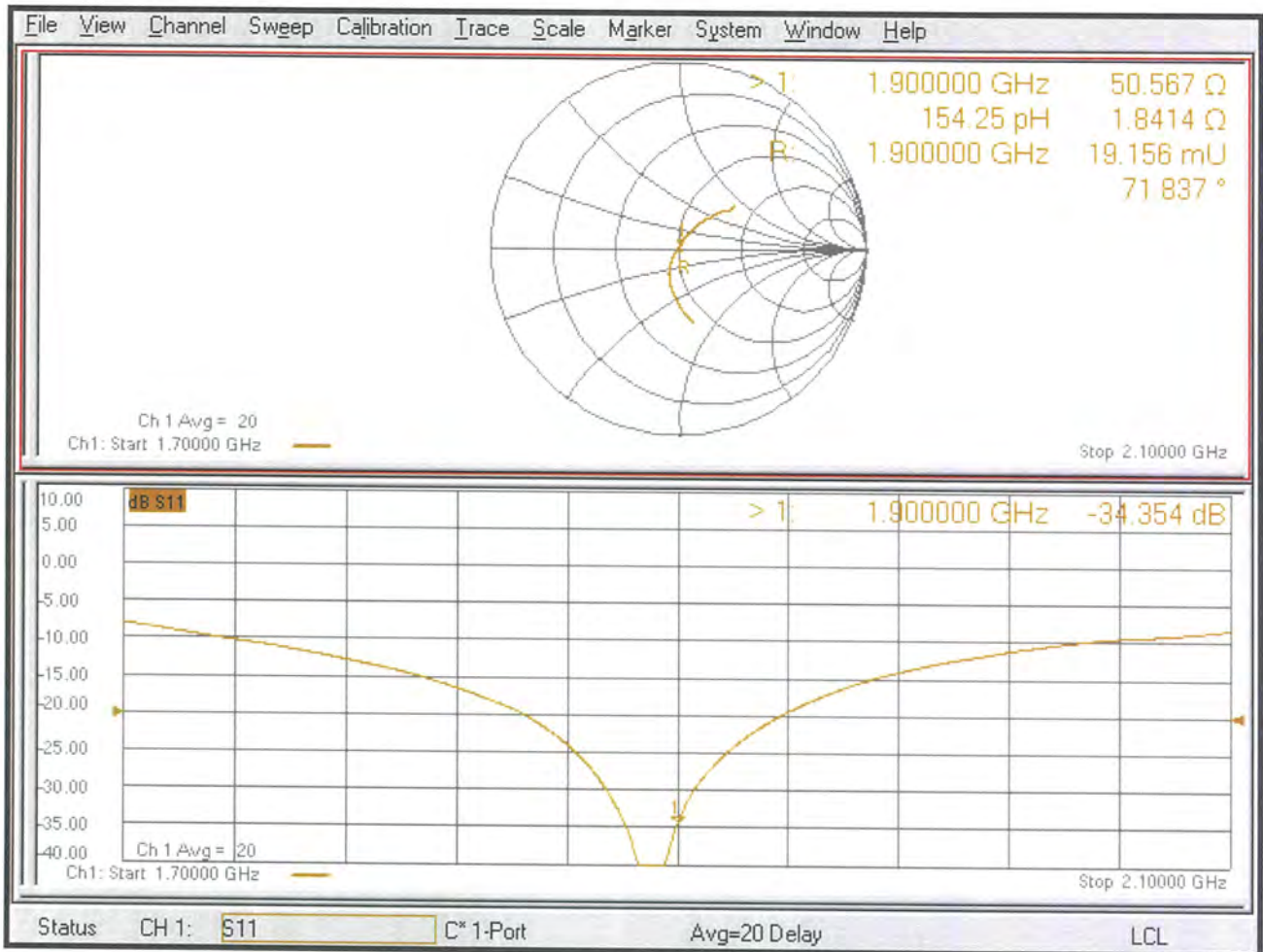
Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 15.1 W/kg



Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **Auden**
Taoyuan City

Certificate No. **D2300V2-1092_Dec23**

CALIBRATION CERTIFICATE

Object **D2300V2 - SN:1092**

Calibration procedure(s) **QA CAL-05.v12**
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: **December 07, 2023**


This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by:	Name Paulo Pina	Function Laboratory Technician	Signature 
Approved by:	Sven Kühn	Technical Manager	

Issued: December 12, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2300 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.5	1.67 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.9 ± 6 %	1.69 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	48.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.87 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.5 Ω - 3.2 j Ω
Return Loss	- 29.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.163 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 07.12.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1092

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.69$ S/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.98, 7.98, 7.98) @ 2300 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.2 V/m; Power Drift = 0.07 dB

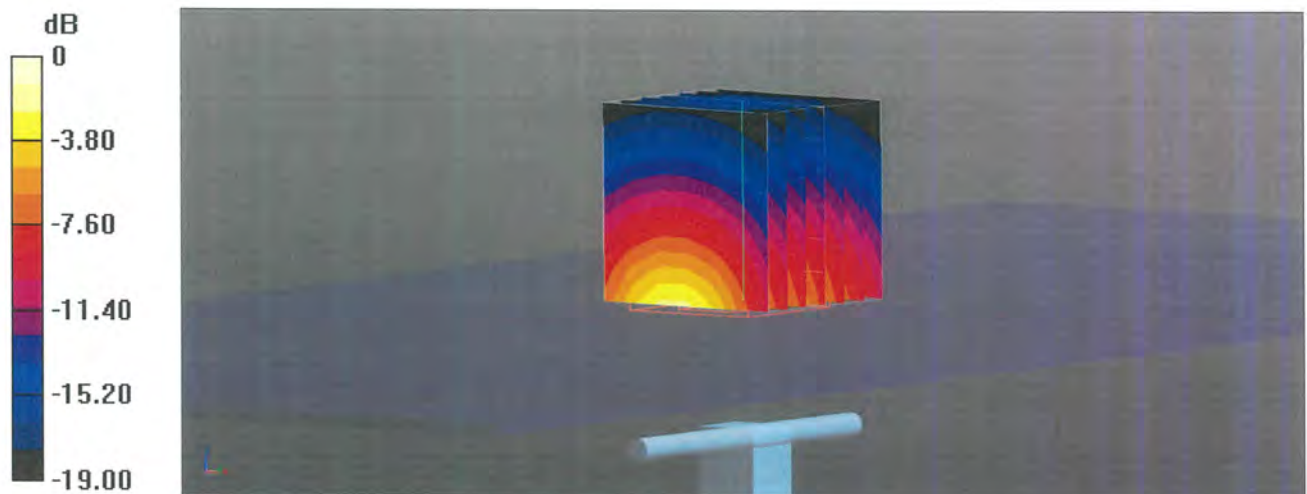
Peak SAR (extrapolated) = 22.2 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.87 W/kg

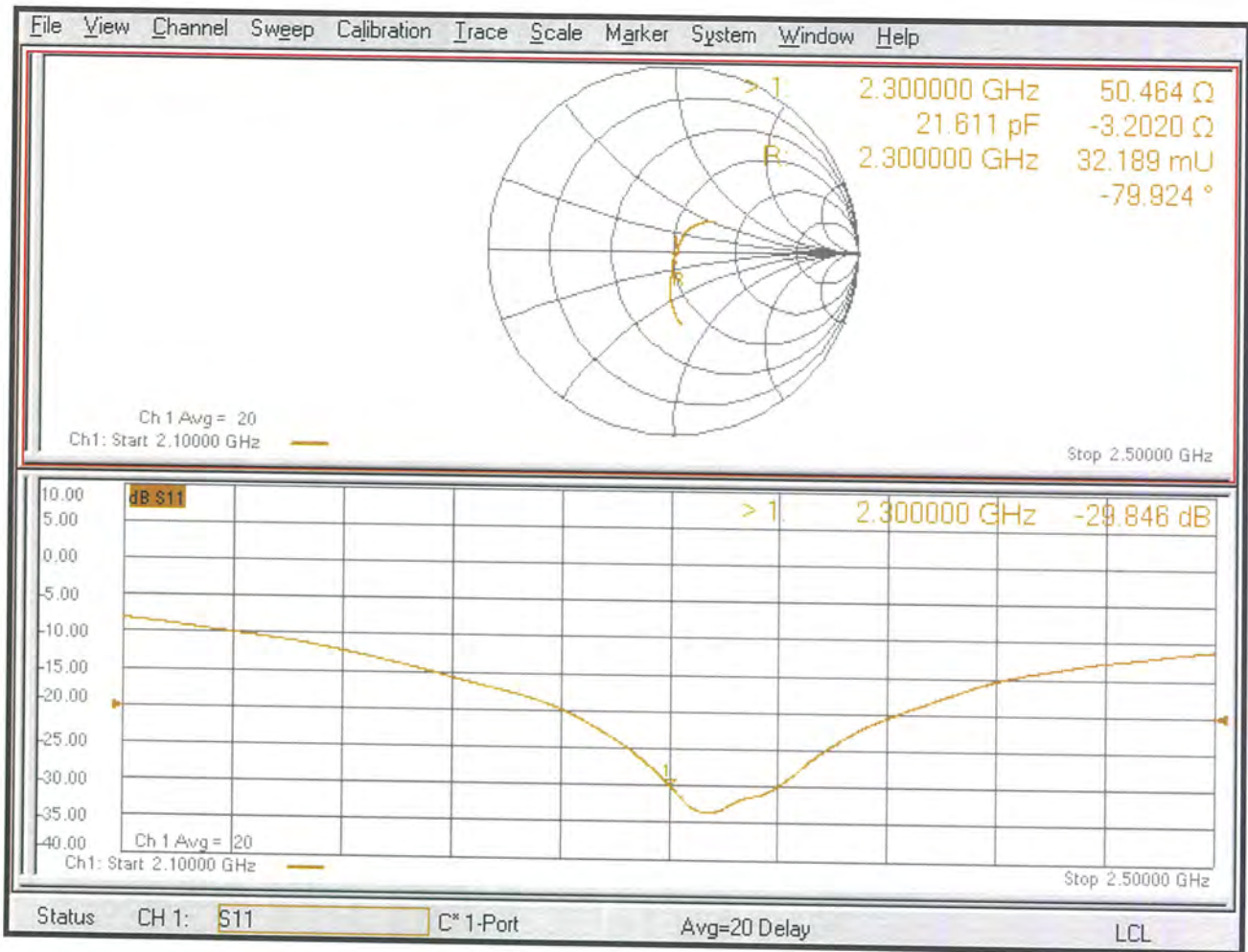
Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 18.3 W/kg



Impedance Measurement Plot for Head TSL



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191
Tel: +86-10-62304633-2117
E-mail: cttl@chinattl.com http://www.caict.ac.cn

Client **AUDEN**

Certificate No: **J23Z60298**

CALIBRATION CERTIFICATE

Object D2450V2 - SN: 869

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits


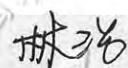

Calibration date: June 14, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Power sensor NRP8S	104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Reference Probe EX3DV4	SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: June 19, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: cttl@chinattl.com <http://www.caict.ac.cn>

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
 Tel: +86-10-62304633-2117
 E-mail: cttl@chinattl.com <http://www.caict.ac.cn>

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.4 ± 6 %	1.81 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.9 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.25 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.0 W/kg ± 18.7 % (k=2)



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
 Tel: +86-10-62304633-2117
 E-mail: cttl@chinattl.com http://www.caict.ac.cn

Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.2Ω+ 5.07jΩ
Return Loss	- 25.9dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.066 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
 Tel: +86-10-62304633-2117
 E-mail: cttl@chinattl.com http://www.caict.ac.cn

DASY5 Validation Report for Head TSL

Date: 2023-06-14

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 869

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.811$ S/m; $\epsilon_r = 39.43$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.68, 7.68, 7.68) @ 2450 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = -0.08 dB

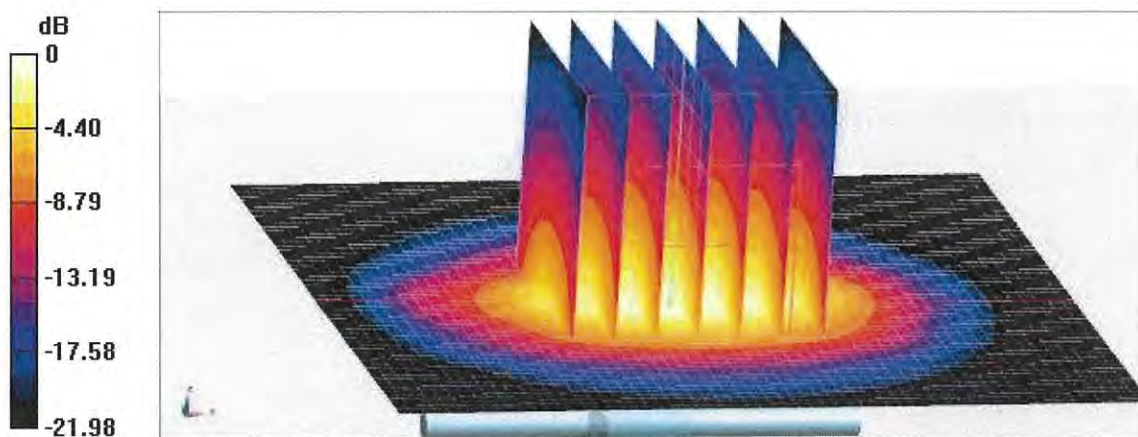
Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.25 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 22.5 W/kg

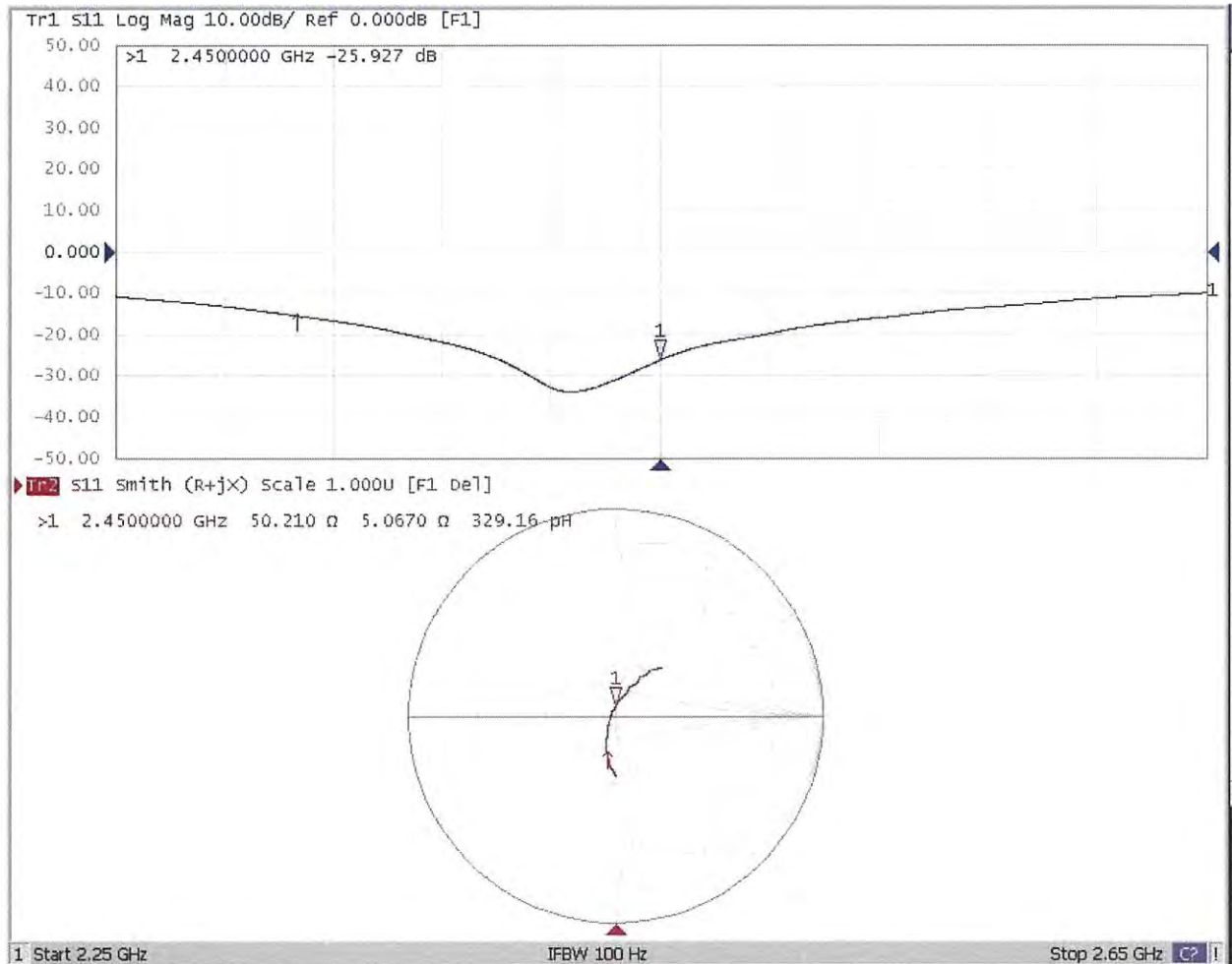


0 dB = 22.5 W/kg = 13.52 dBW/kg



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: cttl@chinattl.com <http://www.caict.ac.cn>

Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **B.V. ADT**
Taoyuan City

Certificate No. **D2600V2-1020_Aug23**

CALIBRATION CERTIFICATE

Object **D2600V2 - SN:1020**

Calibration procedure(s) **QA CAL-05.v12**
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: **August 18, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Michael Weber** Name: Michael Weber Function: Laboratory Technician

Approved by: **Sven Kühn** Name: Sven Kühn Function: Technical Manager

Signature

Issued: August 22, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.6 ± 6 %	1.99 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.9 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.5 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	46.9 Ω - 4.8 j Ω
Return Loss	- 24.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.158 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 18.08.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1020

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.84, 7.84, 7.84) @ 2600 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 119.3 V/m; Power Drift = -0.00 dB

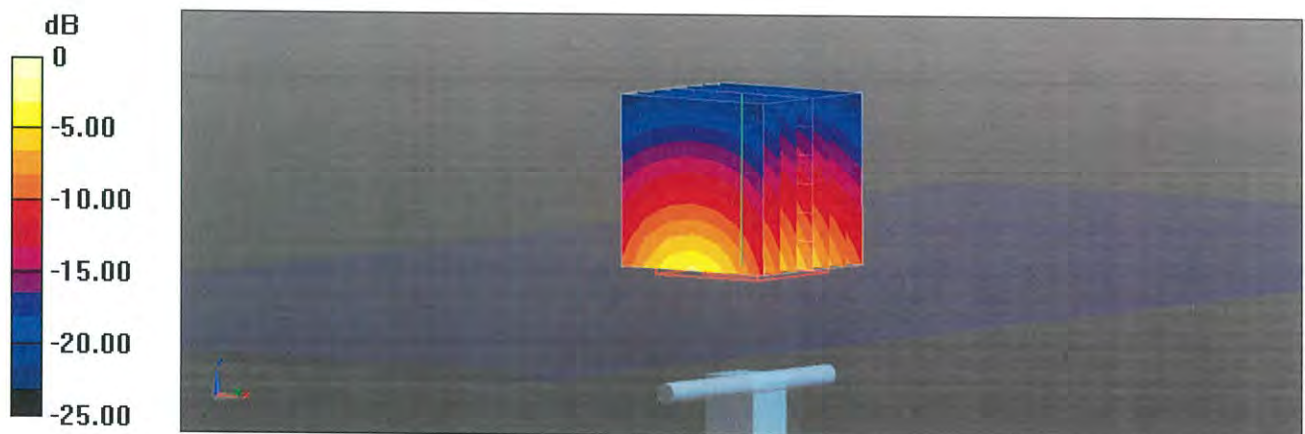
Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.43 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

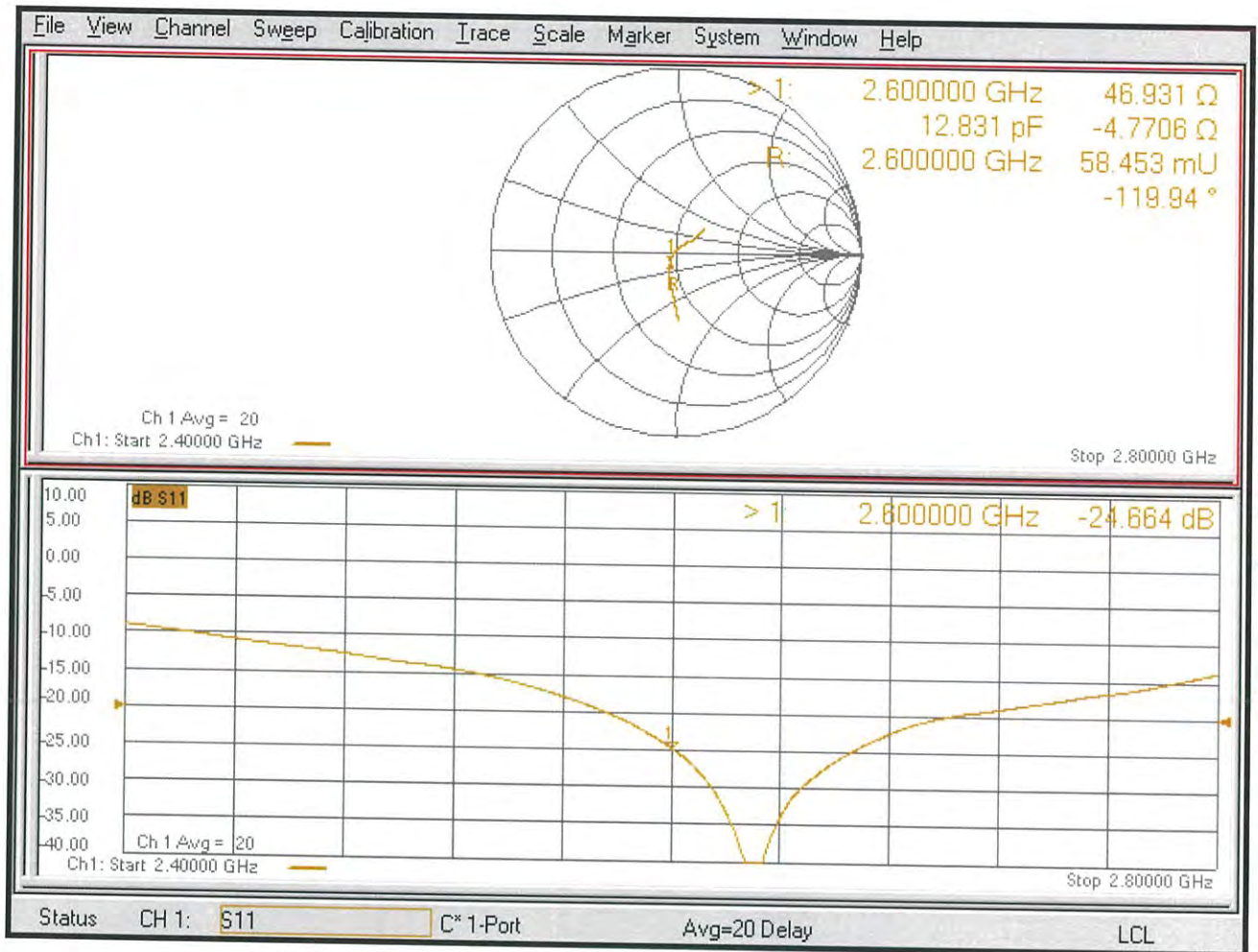
Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 23.5 W/kg



0 dB = 23.5 W/kg = 13.71 dBW/kg

Impedance Measurement Plot for Head TSL





Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **Auden**
Taoyuan City

Certificate No. **D3500V2-1067_Jan24**

CALIBRATION CERTIFICATE

Object **D3500V2 - SN:1067**

Calibration procedure(s) **QA CAL-22.v7
Calibration Procedure for SAR Validation Sources between 3-10 GHz**

Calibration date: **January 23, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Claudio Leubler** (Name) / **Laboratory Technician** (Function) / *[Signature]* (Signature)

Approved by: **Sven Kühn** (Name) / **Technical Manager** (Function) / *[Signature]* (Signature)

Issued: January 23, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	3400 MHz ± 1 MHz 3500 MHz ± 1 MHz	

Head TSL parameters at 3400 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	38.0	2.81 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.3 ± 6 %	2.82 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 3400 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.53 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	65.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg ± 19.5 % (k=2)

Head TSL parameters at 3500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.9	2.91 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.1 ± 6 %	2.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 3500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.45 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	64.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.45 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.5 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 3400 MHz

Impedance, transformed to feed point	44.6 Ω - 6.5 j Ω
Return Loss	- 21.0 dB

Antenna Parameters with Head TSL at 3500 MHz

Impedance, transformed to feed point	53.1 Ω - 1.7 j Ω
Return Loss	- 29.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.137 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
-----------------	-------

DASY5 Validation Report for Head TSL

Date: 23.01.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1067

Communication System: UID 0 - CW; Frequency: 3500 MHz, Frequency: 3400 MHz

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.9$ S/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Medium parameters used: $f = 3400$ MHz; $\sigma = 2.82$ S/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(7.91, 7.91, 7.91) @ 3500 MHz, ConvF(7.97, 7.97, 7.97) @ 3400 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3500MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.64 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 6.45 W/kg; SAR(10 g) = 2.45 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 75.4%

Maximum value of SAR (measured) = 12.4 W/kg

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3400MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.76 V/m; Power Drift = 0.08 dB

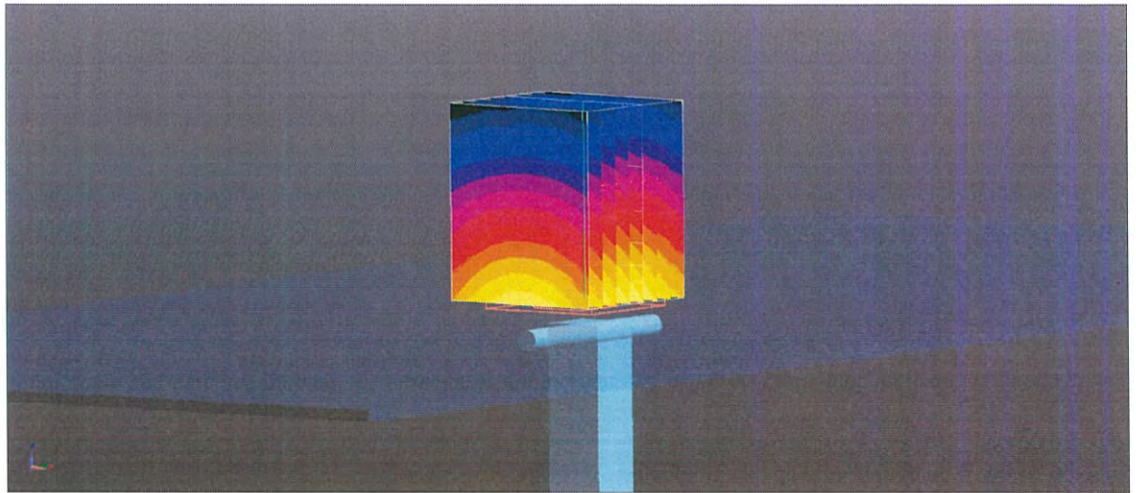
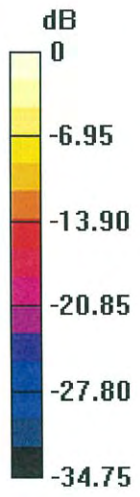
Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 6.53 W/kg; SAR(10 g) = 2.46 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 76%

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

Impedance Measurement Plot for Head TSL

