Plot No.	Band	Mode	Test Position	Ch.	Ant	RB#	RB Offset	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant5	1	1	DSI-3	100	15.0	14.17	0.11	0.108	-	1.211	0.13
	n77 / 78	DFT-QPSK100M	Left Side	650000	Ant5	1	1	DSI-3	100	15.0	14.17	0.15	0.100	-	1.211	0.12
	n77 / 78	DFT-QPSK100M	Front Face	650000	Ant5	135	69	DSI-3	100	15.0	13.81	0.08	0.030	-	1.315	0.04
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant5	135	69	DSI-3	100	15.0	13.81	-0.17	0.080	-	1.315	0.11
	n77 / 78	DFT-QPSK100M	Left Side	650000	Ant5	135	69	DSI-3	100	15.0	13.81	0.05	0.101	-	1.315	0.13

4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Ch.	Ant	RB#	RB Offset	Power State	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WCDMA IV	RMC12.2K	Bottom Side	1413	Ant0	-	-	DSI-4/5	-	24.0	22.86	0.14	1.980	-	1.300	2.57
	WCDMA IV	RMC12.2K	Bottom Side	1312	Ant0	-	-	DSI-4/5	-	24.0	22.85	0.09	1.810	-	1.303	2.36
P100	WCDMA IV	RMC12.2K	Bottom Side	1513	Ant0	-	-	DSI-4/5	-	24.0	22.83	0.03	2.380	-	1.309	**3.12**
	LTE 42	QPSK20M	Rear Face	42590	Ant11	1	0	DSI-4	62.9	23.0	22.14	-0.11	2.320	1.006	1.219	2.85
	LTE 42	QPSK20M	Rear Face	42590	Ant11	50	0	DSI-4	62.9	22.0	21.23	0.08	1.910	1.006	1.194	2.30
	LTE 42	QPSK20M	Rear Face	42190	Ant11	1	0	DSI-4	62.9	23.0	22.03	0.10	2.250	1.006	1.250	2.83
P101	LTE 42	QPSK20M	Rear Face	42990	Ant11	1	0	DSI-4	62.9	23.0	22.09	0.02	2.500	1.006	1.233	**3.10**
	LTE 42	QPSK20M	Rear Face	42190	Ant11	50	0	DSI-4	62.9	22.0	20.98	0.01	2.110	1.006	1.265	2.69
	LTE 42	QPSK20M	Rear Face	42990	Ant11	50	0	DSI-4	62.9	22.0	21.16	0.02	1.950	1.006	1.213	2.38
	LTE 42	QPSK20M	Rear Face	42590	Ant11	100	0	DSI-4	62.9	22.0	20.96	-0.14	1.780	1.006	1.271	2.28
	LTE 42	QPSK20M	Rear Face	42590	Ant11	1	0	DSI-5	62.9	21.0	20.17	-0.17	1.620	1.006	1.211	1.97
	LTE 42	QPSK20M	Rear Face	42590	Ant11	50	0	DSI-5	62.9	20.0	19.15	-0.05	1.110	1.006	1.216	1.36
	LTE 48	QPSK20M	Rear Face	56640	Ant11	1	50	DSI-4	62.9	23.0	22.24	0.10	1.860	1.006	1.191	2.23
	LTE 48	QPSK20M	Rear Face	56640	Ant11	50	0	DSI-4	62.9	22.0	21.26	0.12	1.540	1.006	1.186	1.84
P102	LTE 48	QPSK20M	Rear Face	55340	Ant11	1	50	DSI-4	62.9	23.0	22.03	0.06	2.460	1.006	1.250	**3.10**
	LTE 48	QPSK20M	Rear Face	55830	Ant11	1	50	DSI-4	62.9	23.0	22.04	-0.10	2.240	1.006	1.247	2.81
	LTE 48	QPSK20M	Rear Face	56150	Ant11	1	50	DSI-4	62.9	23.0	22.10	-0.08	2.090	1.006	1.230	2.59
	LTE 48	QPSK20M	Rear Face	56640	Ant11	100	0	DSI-4	62.9	22.0	21.08	0.09	1.890	1.006	1.236	2.35
	LTE 48	QPSK20M	Rear Face	56640	Ant11	1	50	DSI-5	62.9	21.5	20.71	0.08	1.700	1.006	1.199	2.05
	LTE 48	QPSK20M	Rear Face	56640	Ant11	50	0	DSI-5	62.9	20.5	19.73	0.09	1.160	1.006	1.194	1.39
	LTE 48	QPSK20M	Rear Face	55340	Ant11	1	50	DSI-5	62.9	21.5	20.50	0.02	1.610	1.006	1.259	2.04
	LTE 48	QPSK20M	Rear Face	55830	Ant11	1	50	DSI-5	62.9	21.5	20.48	-0.12	1.380	1.006	1.265	1.76
	LTE 48	QPSK20M	Rear Face	56150	Ant11	1	50	DSI-5	62.9	21.5	20.65	-0.14	1.400	1.006	1.216	1.71
	LTE 48	QPSK20M	Rear Face	56640	Ant11	100	0	DSI-5	62.9	20.5	19.60	-0.04	1.140	1.006	1.230	1.41
P103	n48	DFT-QPSK40M	Rear Face	638000	Ant11	1	1	DSI-4	100	22.0	21.36	0.07	2.710	-	1.159	**3.14**
	n48	DFT-QPSK40M	Right Side	638000	Ant11	1	1	DSI-4	100	22.0	21.36	0.04	1.050	-	1.159	1.22
	n48	DFT-QPSK40M	Rear Face	638000	Ant11	50	28	DSI-4	100	22.0	21.20	-0.18	2.540	-	1.202	3.05
	n48	DFT-QPSK40M	Right Side	638000	Ant11	50	28	DSI-4	100	22.0	21.20	-0.12	0.982	-	1.202	1.18
	n48	DFT-QPSK40M	Rear Face	641666	Ant11	1	1	DSI-4	100	22.0	21.31	0.02	2.630	-	1.172	3.08
	n48	DFT-QPSK40M	Rear Face	645332	Ant11	1	1	DSI-4	100	22.0	21.24	0.16	2.540	-	1.191	3.03
	n48	DFT-QPSK40M	Rear Face	641666	Ant11	50	28	DSI-4	100	22.0	21.06	-0.12	2.380	-	1.242	2.96
	n48	DFT-QPSK40M	Rear Face	645332	Ant11	50	28	DSI-4	100	22.0	21.05	0.06	2.520	-	1.245	3.14
	n48	DFT-QPSK40M	Rear Face	638000	Ant11	100	0	DSI-4	100	21.0	20.15	-0.11	2.500	-	1.216	3.04
	n48	DFT-QPSK40M	Rear Face	638000	Ant11	1	1	DSI-5	100	20.5	19.89	0.19	1.830	-	1.151	2.11
	n48	DFT-QPSK40M	Right Side	638000	Ant11	1	1	DSI-5	100	20.5	19.89	0.19	0.579	-	1.151	0.67
	n48	DFT-QPSK40M	Rear Face	638000	Ant11	50	28	DSI-5	100	20.5	19.72	0.13	1.480	-	1.197	1.77
	n48	DFT-QPSK40M	Right Side	638000	Ant11	50	28	DSI-5	100	20.5	19.72	-0.02	0.540	-	1.197	0.65
	n48	DFT-QPSK40M	Rear Face	641666	Ant11	1	1	DSI-5	100	20.5	19.84	0.01	1.940	-	1.164	2.26
	n48	DFT-QPSK40M	Rear Face	645332	Ant11	1	1	DSI-5	100	20.5	19.76	0.01	1.820	-	1.186	2.16
	n48	DFT-QPSK40M	Rear Face	638000	Ant11	100	0	DSI-5	100	19.5	18.67	0.08	2.020	-	1.211	2.45
	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	1	1	DSI-4	100	21.0	19.73	0.01	2.190	-	1.340	2.93
	n77 / 78	DFT-QPSK100M	Right Side	633334	Ant11	1	1	DSI-4	100	21.0	19.73	-0.04	0.766	-	1.340	1.03
	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	135	69	DSI-4	100	21.0	19.46	0.19	2.020	-	1.426	2.88
	n77 / 78	DFT-QPSK100M	Right Side	633334	Ant11	135	69	DSI-4	100	21.0	19.46	0.09	0.754	-	1.426	1.07
P104	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	270	0	DSI-4	100	21.0	19.43	0.01	2.190	-	1.435	**3.14**
	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	1	1	DSI-5	100	19.5	18.31	0.08	1.520	-	1.315	2.00
	n77 / 78	DFT-QPSK100M	Right Side	633334	Ant11	1	1	DSI-5	100	19.5	18.31	0.13	0.583	-	1.315	0.77
	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	135	69	DSI-5	100	19.5	17.90	-0.08	1.680	-	1.445	2.43
	n77 / 78	DFT-QPSK100M	Right Side	633334	Ant11	135	69	DSI-5	100	19.5	17.90	0.15	0.506	-	1.445	0.73
	n77 / 78	DFT-QPSK100M	Rear Face	633334	Ant11	270	0	DSI-5	100	19.5	17.92	-0.04	1.410	-	1.439	2.03
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant11	1	1	DSI-4	100	21.0	20.18	0.13	1.560	-	1.208	1.88
	n77 / 78	DFT-QPSK100M	Right Side	650000	Ant11	1	1	DSI-4	100	21.0	20.18	-0.06	0.760	-	1.208	0.92
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant11	135	69	DSI-4	100	21.0	19.94	-0.12	1.450	-	1.276	1.85
	n77 / 78	DFT-QPSK100M	Right Side	650000	Ant11	135	69	DSI-4	100	21.0	19.94	0.05	0.798	-	1.276	1.02
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant11	1	1	DSI-5	100	19.5	18.67	-0.18	1.470	-	1.211	1.78
	n77 / 78	DFT-QPSK100M	Right Side	650000	Ant11	1	1	DSI-5	100	19.5	18.67	-0.14	0.505	-	1.211	0.61
	n77 / 78	DFT-QPSK100M	Rear Face	650000	Ant11	135	69	DSI-5	100	19.5	18.31	0.07	1.290	-	1.315	1.70
	n77 / 78	DFT-QPSK100M	Right Side	650000	Ant11	135	69	DSI-5	100	19.5	18.31	0.11	0.468	-	1.315	0.62

Note：When the hotspot SAR is adjusted for maximum tune-up tolerance and the result is <1.2W/kg, the extremity SAR is not required.

4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10, the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

<Head&Body worn&Hotspot>

Band	Test Position	Separation Distance (cm)	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
n2	Right Cheek	0	372000	1.05	1.01	1.04	N/A	N/A	N/A	N/A
LTE B7	Left Cheek	0	21100	0.831	0.827	1.01	N/A	N/A	N/A	N/A
LTE B42	Left Cheek	0	42590	0.93	0.937	1.01	N/A	N/A	N/A	N/A

<Extremity>

Band	Test Position	Separation Distance (cm)	Ch.	Original Measured SAR-10g (W/kg)	1st Repeated SAR-10g (W/kg)	L/S Ratio	2nd Repeated SAR-10g (W/kg)	L/S Ratio	3rd Repeated SAR-10g (W/kg)	L/S Ratio
WCDMA IV	Bottom Side	0	1513	2.38	2.35	1.01	N/A	N/A	N/A	N/A
n48	Rear Face	0	638000	2.71	2.65	1.02	N/A	N/A	N/A	N/A

Test Engineer： Renjie Liu, and Zixiao Xia.

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1200	Oct. 27, 2021	3 Years
System Validation Dipole	SPEAG	D835V2	4d265	Oct. 18, 2021	3 Years
System Validation Dipole	SPEAG	D1750V2	1176	Oct. 19, 2021	3 Years
System Validation Dipole	SPEAG	D1900V2	5d159	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D2300V2	1110	Oct. 20, 2021	3 Years
System Validation Dipole	SPEAG	D2450V2	1048	Oct. 21, 2021	3 Years
System Validation Dipole	SPEAG	D2600V2	1110	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D3500V2	1111	Oct. 21, 2021	3 Years
System Validation Dipole	SPEAG	D3700V2	1082	Oct. 20, 2021	3 Years
System Validation Dipole	SPEAG	D5GHzV2	1315	Oct. 22, 2021	3 Years
Data Acquisition Electronics	SPEAG	DAE4	1389	Nov. 03, 2023	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 22, 2023	1 Year
Radio Communication Analyzer	ANRITSU	MT8821C	6272416925	Aug. 26, 2022	2 Year
Magnetic Field Probe	SPEAG	DAK-3.5	1119	Feb. 19, 2024	1 Year
ENA Series Network Analyzer	SPEAG	DAKS_VNA R140	0121219	Feb. 19, 2024	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	May. 10, 2023	1 Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Jan. 31, 2024	1 Year
Power Meter	Agilent	N1914A	MY52180044	Jan. 30, 2024	1 Year
Power Sensor	Agilent	E9304A H18	MY52050011	Jan. 30, 2024	1 Year
Power Meter	ANRITSU	ML2495A	1506002	Jan. 30, 2024	1 Year
Power Sensor	ANRITSU	MA2411B	1339352	Jan. 30, 2024	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	May. 09, 2024	1 Year
Temp.&Humi.Recorder	ANYMETER	JR912	SZ01	Jun. 19, 2022	2 Years

Note:

1. Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
   The return loss is ＜ -20dB, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

6. Measurement Uncertainty

DASY6 Uncertainty Budget According to IEEE 1528-2013 and IEC 62209-1/2016 (0.3 - 3 GHz range)								
Error Description	**Uncertainty Value (±%)**	**Probability**	**Divisor**	**(Ci) 1g**	**(Ci) 10g**	**Standard Uncertainty (1g) (±%)**	**Standard Uncertainty (10g) (±%)**	**(Vi) Veff**
Measurement System								
Probe Calibration	6.05	N	1	1	1	6.1	6.1	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.0	N	1	1	1	4.0	4.0	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.14	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	2.61	R	1.732	0.78	0.71	1.2	1.1	∞
Liquid Permittivity Repeatability	0.03	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						13.6%	13.5%	578
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						27.2%	26.9%	

Uncertainty budget for frequency range 300 MHz to 3 GHz

DASY6 Uncertainty Budget According to IEC 62209-2/2010 (30 MHz - 6 GHz range)								
Error Description	**Uncertainty Value (±%)**	**Probability**	**Divisor**	**(Ci) 1g**	**(Ci) 10g**	**Standard Uncertainty (1g) (±%)**	**Standard Uncertainty (10g) (±%)**	**(Vi) Veff**
Measurement System								
Probe Calibration	6.65	N	1	1	1	6.7	6.7	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.3	N	1	1	1	4.3	4.3	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.16	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.64	R	1.732	0.78	0.71	1.6	1.5	∞
Liquid Permittivity Repeatability	0.08	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						14.0%	13.9%	624
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						28.0%	27.7%	

Uncertainty budget for frequency range 30 MHz to 6 GHz

7. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation.

If you have any comments, please feel free to contact us at the following:

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Tel: +86 (0557) 368 1008

The road map of all our labs can be found in our web site also
Web: http://www.7Layers.com

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

System Check_HSL750_240406

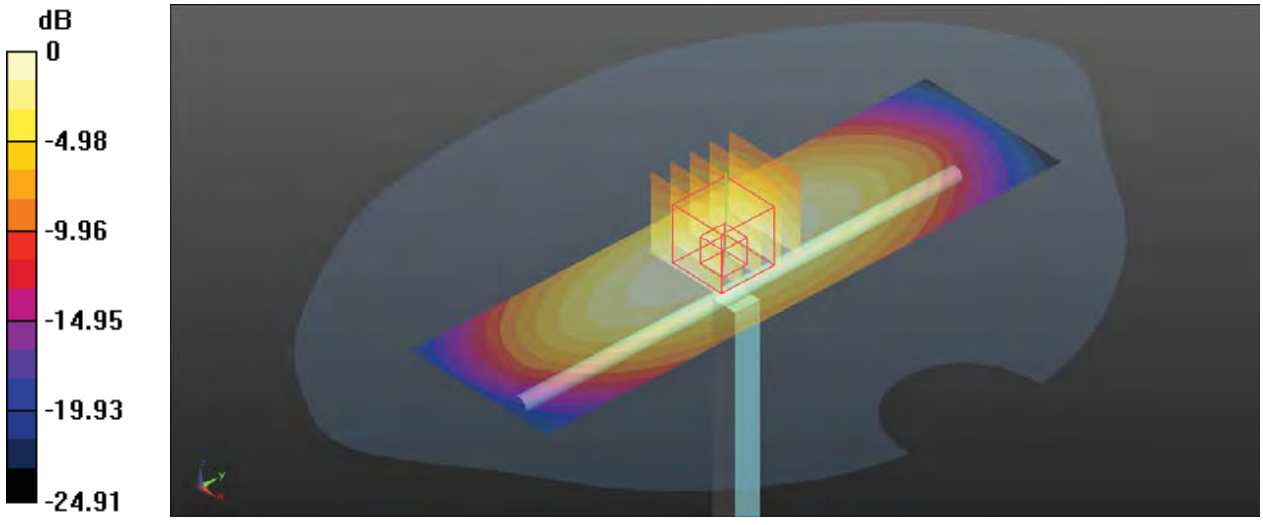
DUT: Dipole 750 MHz; Type: D750V3

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 750 MHz; σ = 0.909 S/m; ε_r = 43.57; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.33 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.14 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.14 W/kg
SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.43 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 68.3%
Maximum value of SAR (measured) = 2.32 W/kg



0 dB = 2.32 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

System Check_HSL750_240407

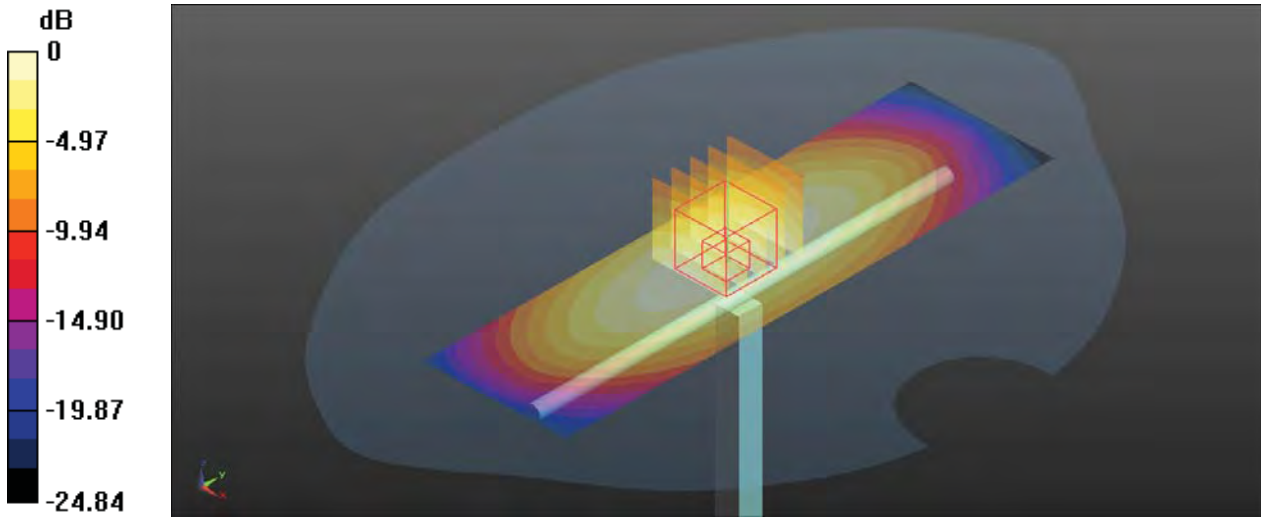
DUT: Dipole 750 MHz; Type: D750V3

Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 750 MHz; σ = 0.91 S/m; ε_r = 43.143; ρ = 1000 kg/m^3
Ambient Temperature : 23.4℃; Liquid Temperature : 22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.34 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.13 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.16 W/kg
SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.44 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 68.3%
Maximum value of SAR (measured) = 2.34 W/kg



0 dB = 2.34 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

System Check_HSL835_240408

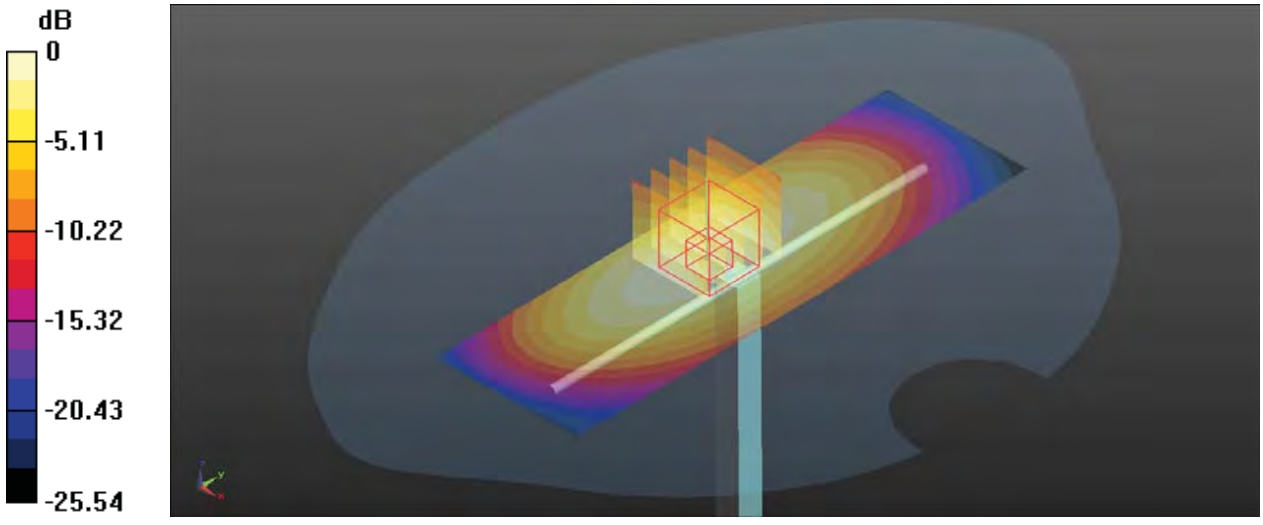
DUT: Dipole 835 MHz; Type: D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 835 MHz; σ = 0.937 S/m; ε_r = 43.312; ρ = 1000 kg/m^3
Ambient Temperature : 23.5℃; Liquid Temperature : 22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 835 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.55 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.84 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 3.51 W/kg
SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.57 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 67.5%
Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.58 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

System Check_HSL1750_240409

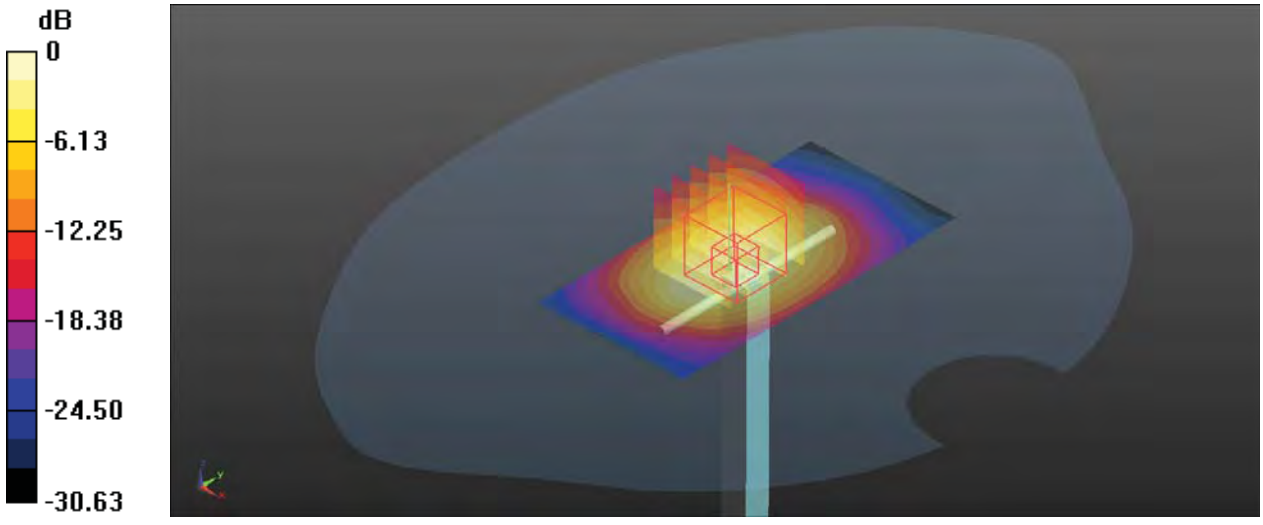
DUT: Dipole 1750 MHz; Type: D1750V2

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1750 MHz; σ = 1.422 S/m; ε_r = 41.125; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 10.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 83.80 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 15.9 W/kg
SAR(1 g) = 9.13 W/kg; SAR(10 g) = 4.97 W/kg
Smallest distance from peaks to all points 3 dB below = 12.2 mm
Ratio of SAR at M2 to SAR at M1 = 58%
Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.1 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/10

System Check_HSL1750_240410

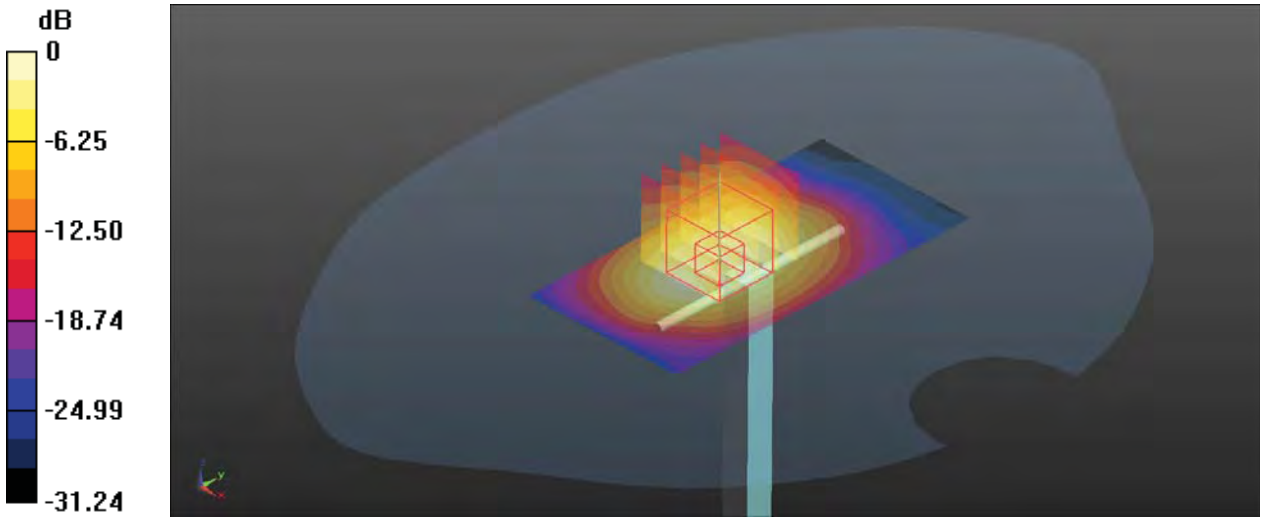
DUT: Dipole 1750 MHz; Type: D1750V2

Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium: HSL1750_0410 Medium parameters used: f = 1750 MHz; σ = 1.375 S/m; ε_r = 40.868; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 10.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 78.68 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 15.4 W/kg
SAR(1 g) = 8.9 W/kg; SAR(10 g) = 4.85 W/kg
Smallest distance from peaks to all points 3 dB below = 12.2 mm
Ratio of SAR at M2 to SAR at M1 = 57.9%
Maximum value of SAR (measured) = 9.95 W/kg



0 dB = 9.95 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

System Check_HSL1900_240411

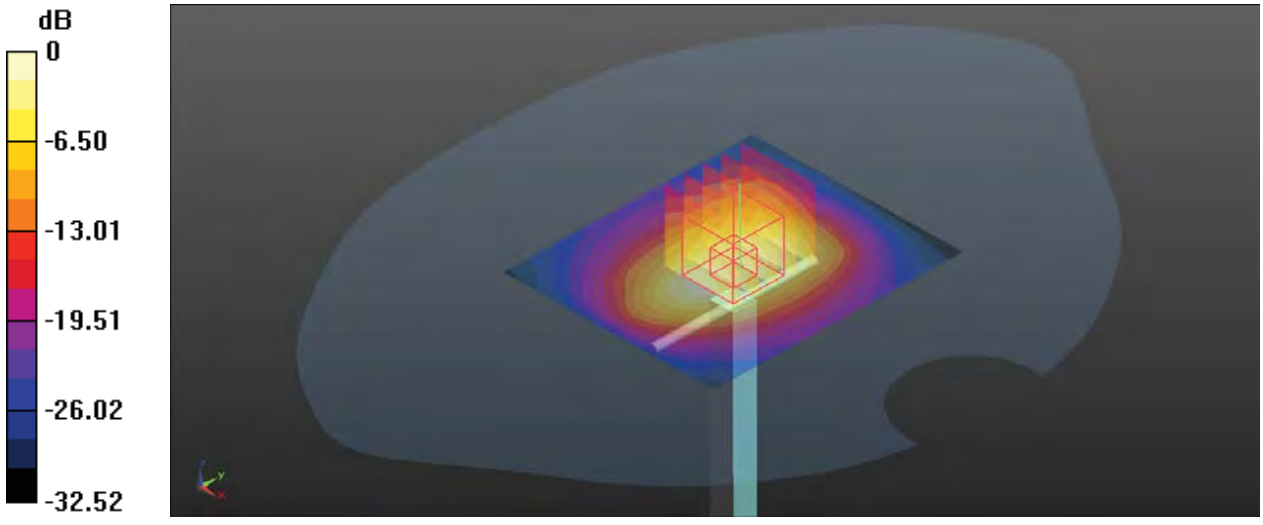
DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1900 MHz; σ = 1.411 S/m; ε_r = 40.435; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1900 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 93.47 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.12 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 55.2%
Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

System Check_HSL1900_240412

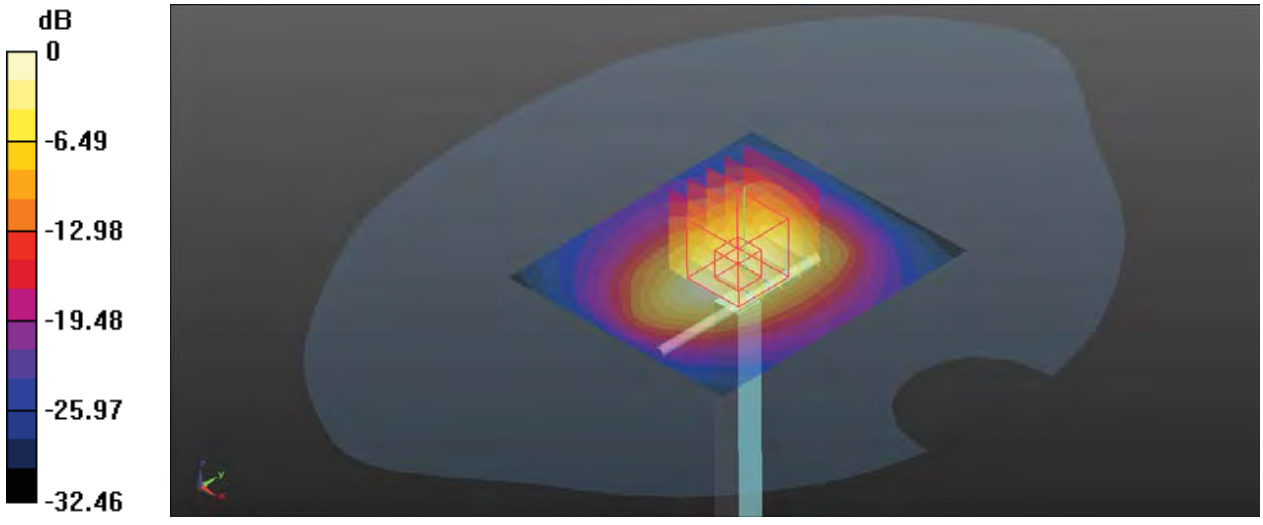
DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1900 MHz; σ = 1.437 S/m; ε_r = 38.99; ρ = 1000 kg/m^3
Ambient Temperature : 23.3℃; Liquid Temperature : 22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1900 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 93.18 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 4.98 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 55%
Maximum value of SAR (measured) = 13.47 W/kg



0 dB = 13.47 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

System Check_HSL2300_240413

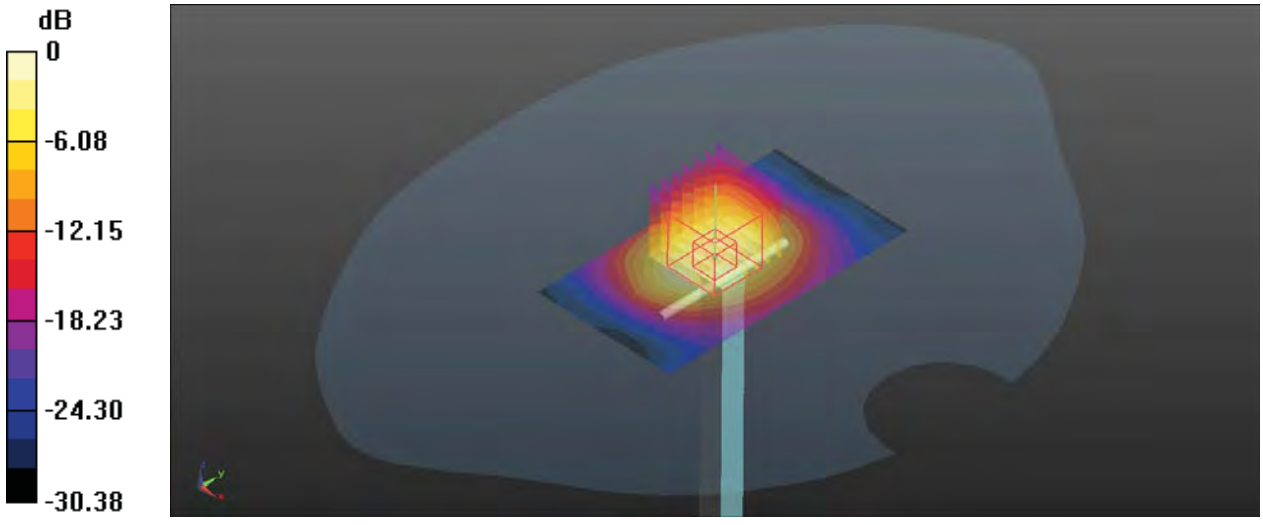
DUT: Dipole 2300 MHz; Type: D2300V3

Communication System: CW; Frequency: 2300 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2300 MHz; σ = 1.706 S/m; ε_r = 39.503; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2300 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (51x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 14.8 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.73 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 24.1 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.87 W/kg
Smallest distance from peaks to all points 3 dB below = 11 mm
Ratio of SAR at M2 to SAR at M1 = 52.3%
Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

System Check_HSL2600_240414

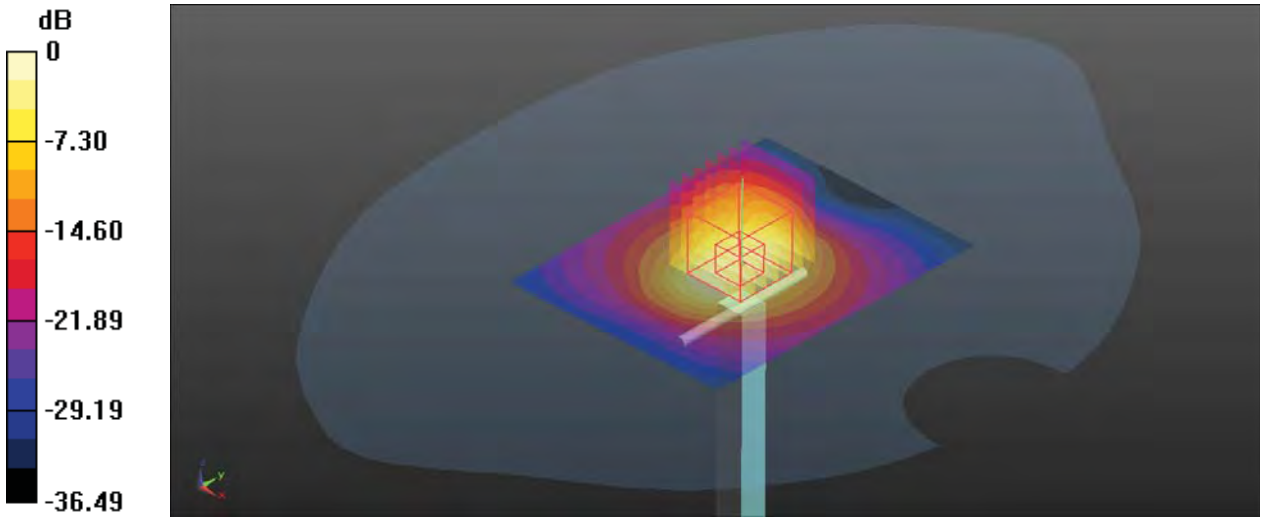
DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2600 MHz; σ = 1.935 S/m; ε_r = 39.503; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 107.3 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 25.2 W/kg
SAR(1 g) = 14.1 W/kg; SAR(10 g) = 5.24 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 49.2%
Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

System Check_HSL2600_240415

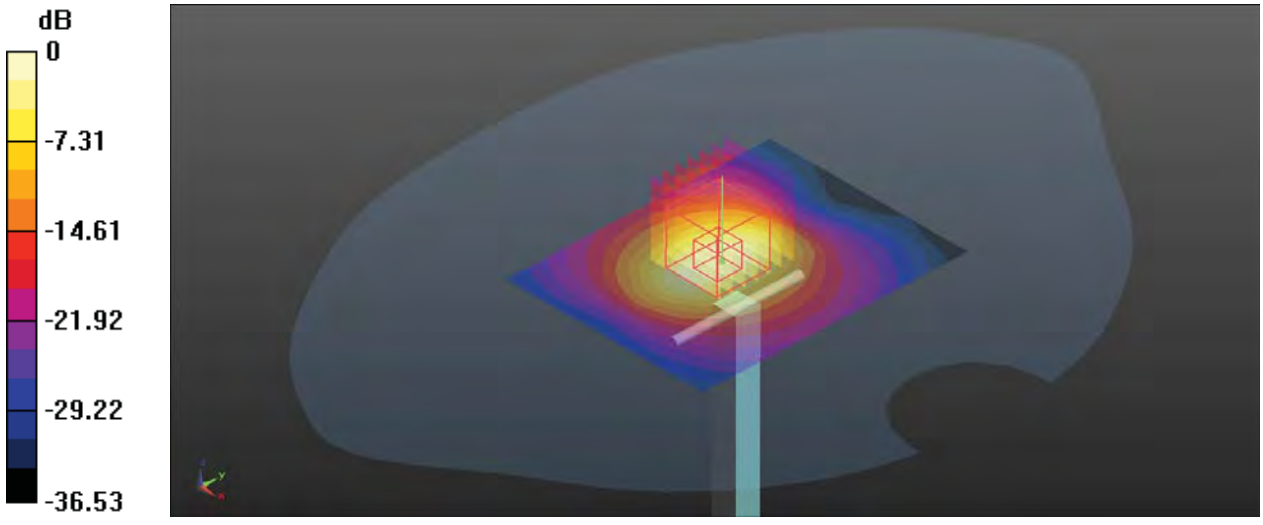
DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0415 Medium parameters used: f = 2600 MHz; σ = 1.986 S/m; ε_r = 39.41; ρ = 1000 kg/m^3
Ambient Temperature : 23.5℃; Liquid Temperature : 22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 21.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.75 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 26.8 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.02 W/kg
Smallest distance from peaks to all points 3 dB below = 9.2 mm
Ratio of SAR at M2 to SAR at M1 = 49.5%
Maximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

System Check_HSL2600_240416

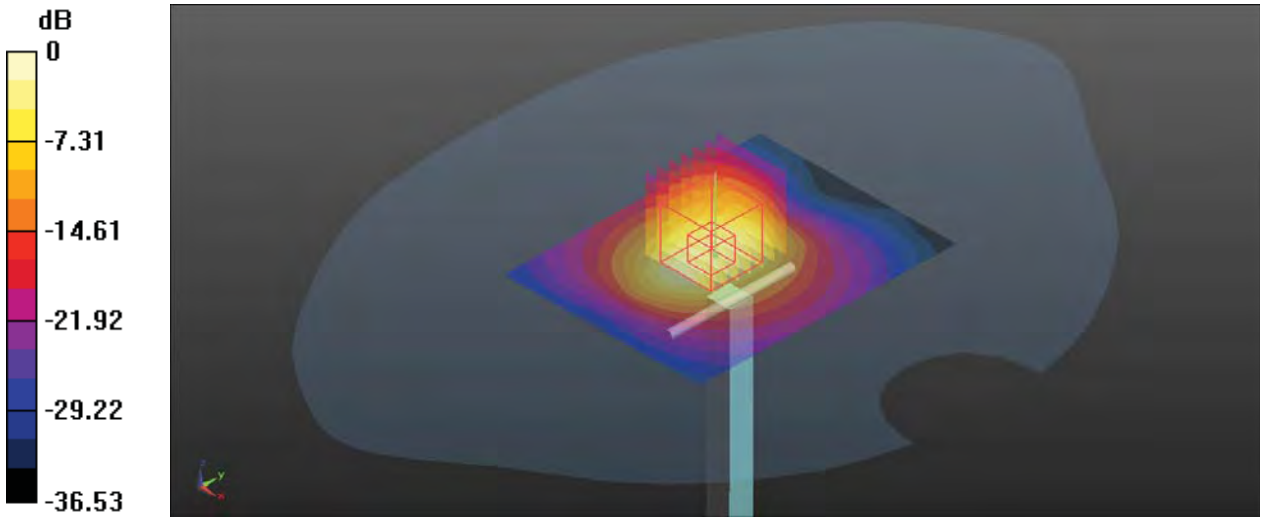
DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0416 Medium parameters used: f = 2600 MHz; σ = 1.891 S/m; ε_r = 39.49; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 20.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.75 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 25.8 W/kg
SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.42 W/kg
Smallest distance from peaks to all points 3 dB below = 9.2 mm
Ratio of SAR at M2 to SAR at M1 = 49.5%
Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/06

System Check_HSL3500_240506

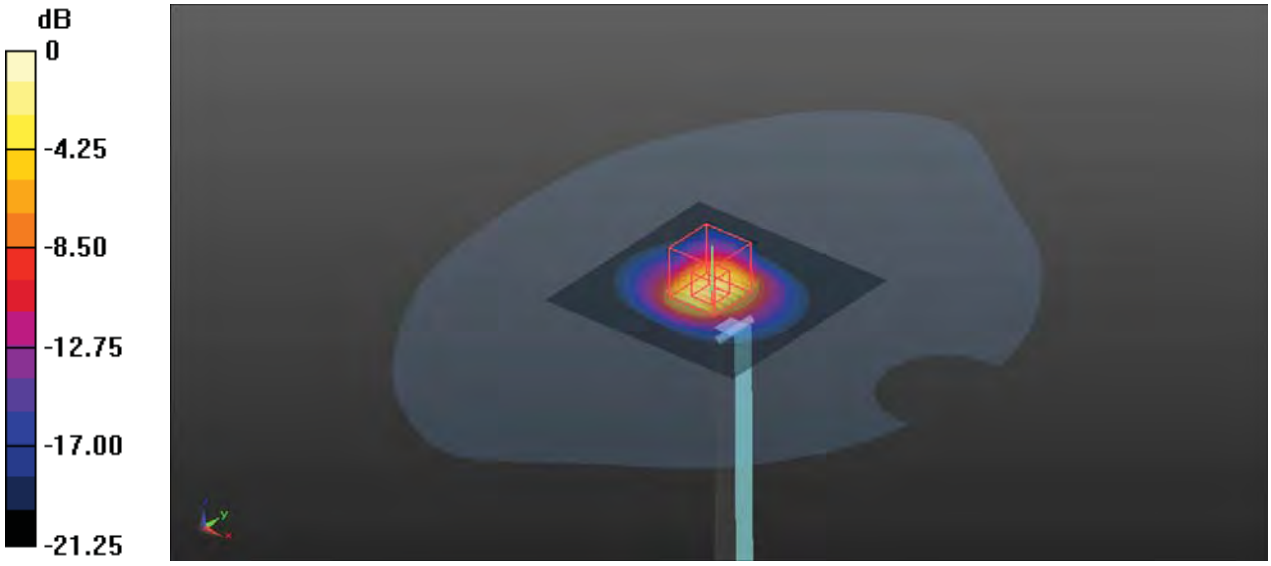
DUT: Dipole 3500 MHz; Type: D3500V2

Communication System: CW; Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: HSL3500_0506 Medium parameters used: f = 3500 MHz; σ = 3.015 S/m; ε_r = 39.768; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃； Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.9 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 53.32 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 6.77 W/kg; SAR(10 g) = 2.63 W/kg
Smallest distance from peaks to all points 3 dB below = 8.6 mm
Ratio of SAR at M2 to SAR at M1 = 68.3%
Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

System Check_HSL3500_240508

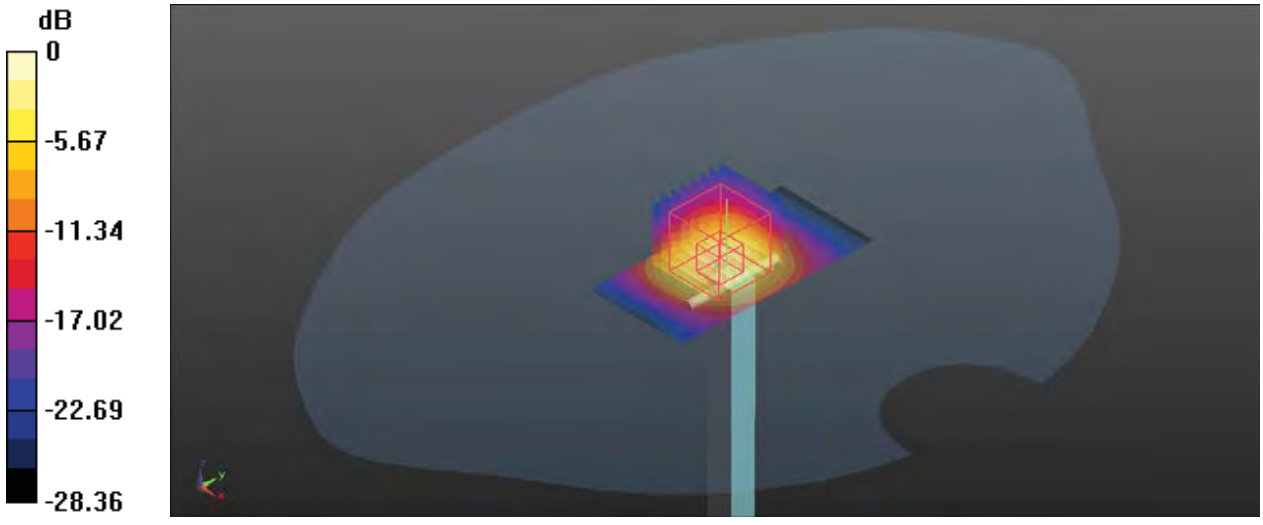
DUT: Dipole 3500 MHz; Type: D3500V2

Communication System: CW; Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500 MHz; σ = 2.794 S/m; ε_r = 39.127; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (41x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.90 W/kg

Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 53.26 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 15.2 W/kg
SAR(1 g) = 6.25 W/kg; SAR(10 g) = 2.37 W/kg
Smallest distance from peaks to all points 3 dB below = 8.8 mm
Ratio of SAR at M2 to SAR at M1 = 76.9%
Maximum value of SAR (measured) = 8.17 W/kg



0 dB = 8.17 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/09

System Check_HSL3500_240509

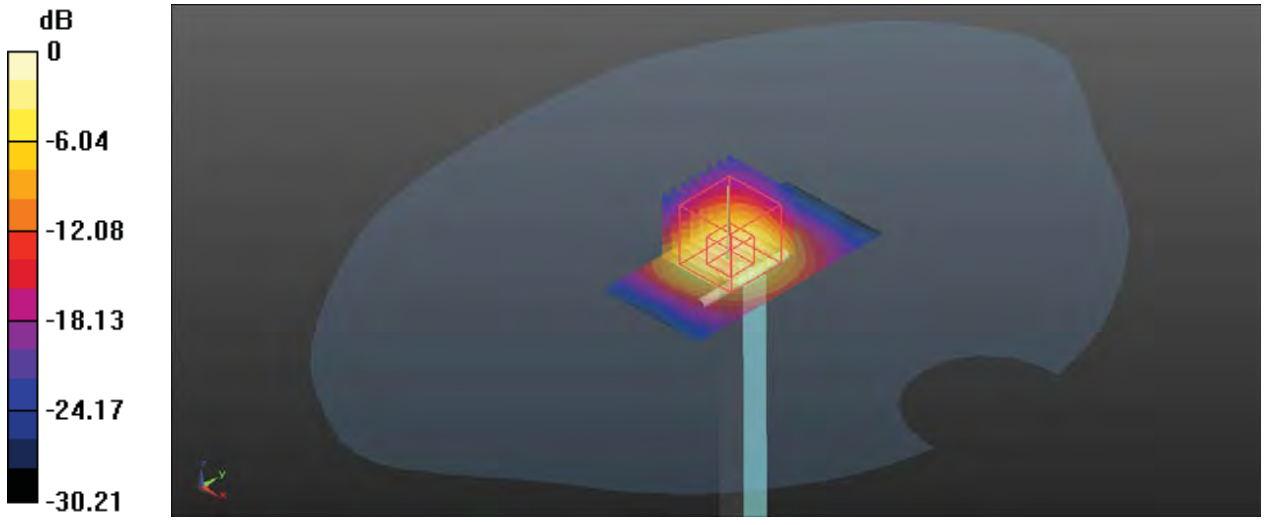
DUT: Dipole 3500 MHz; Type: D3500V2

Communication System: CW; Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500 MHz; σ = 2.821 S/m; ε_r = 39.678; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (41x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.19 W/kg

Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.71 V/m; Power Drift = 0.50 dB
Peak SAR (extrapolated) = 15.6 W/kg
SAR(1 g) = 6.31 W/kg; SAR(10 g) = 2.46 W/kg
Smallest distance from peaks to all points 3 dB below = 9.1 mm
Ratio of SAR at M2 to SAR at M1 = 77.1%
Maximum value of SAR (measured) = 8.48 W/kg



0 dB = 8.48 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/07

System Check_HSL3700_240507

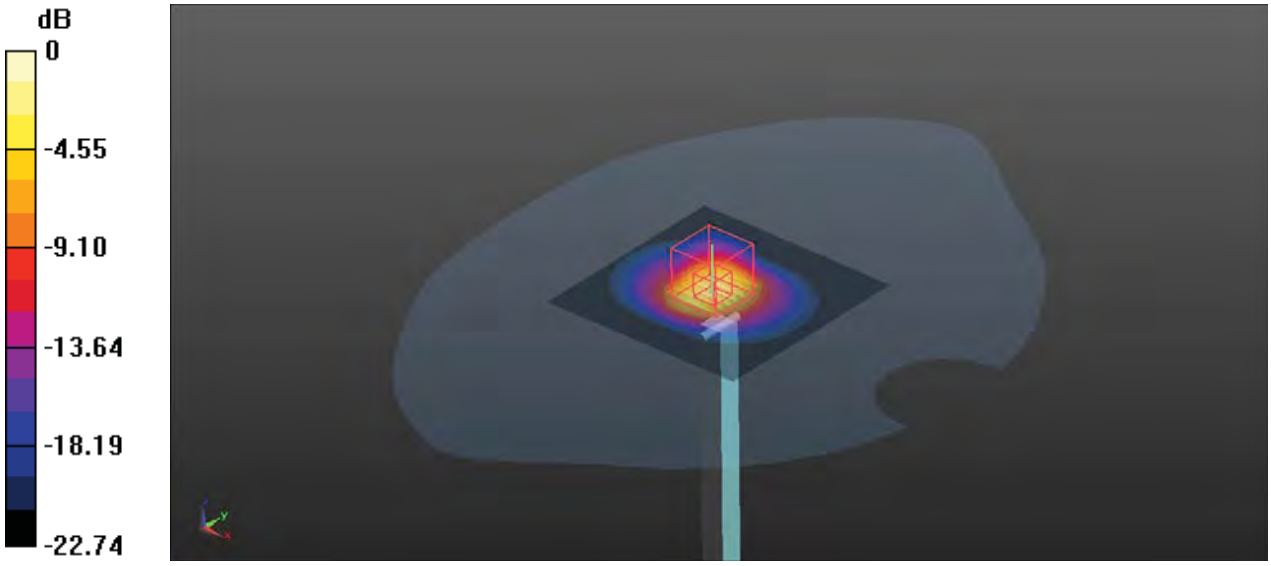
DUT: Dipole 3700 MHz; Type: D3700V2

Communication System: CW Frequency: 3700 MHz;Duty Cycle: 1:1
Medium: HSL3700_0507 Medium parameters used: f = 3700 MHz; σ = 3.162 S/m; ε_r = 39.423; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.8℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3700 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.83 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 6.36 W/kg; SAR(10 g) = 2.39 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 66%
Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/10

System Check_HSL3700_240510

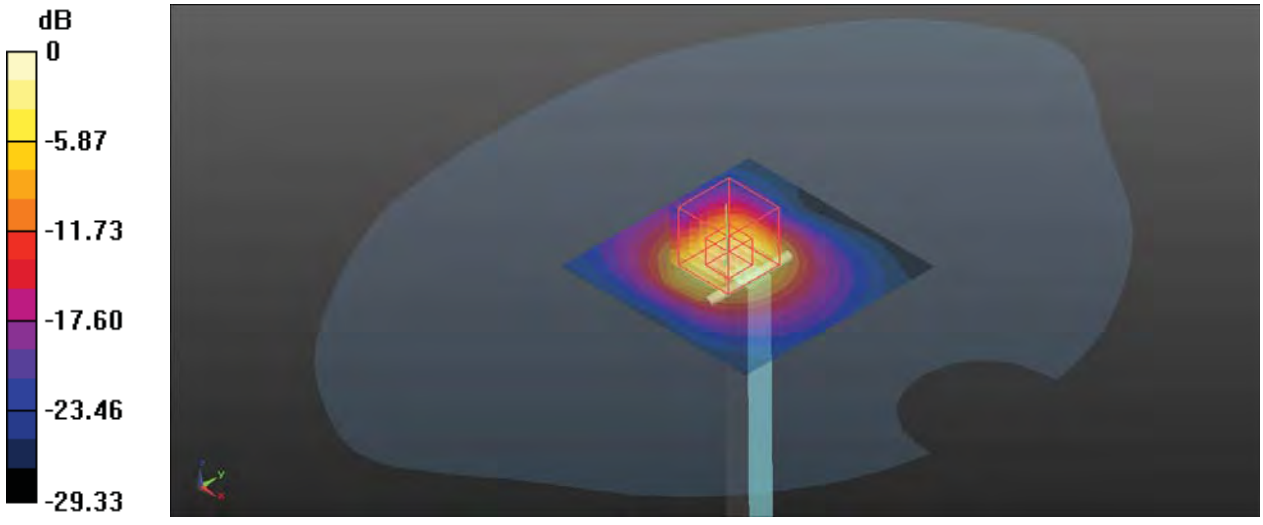
DUT: Dipole 3700 MHz; Type: D3700V2

Communication System: CW; Frequency: 3700 MHz;Duty Cycle: 1:1
Medium: HSL3700_0510 Medium parameters used: f = 3700 MHz; σ = 3.11 S/m; ε_r = 39.356; ρ = 1000 kg/m^3
Ambient Temperature : 23.4℃; Liquid Temperature : 22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3700 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.2 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 45.64 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 6.57 W/kg; SAR(10 g) = 2.51 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 67.2%
Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/11

System Check_HSL3700_240511

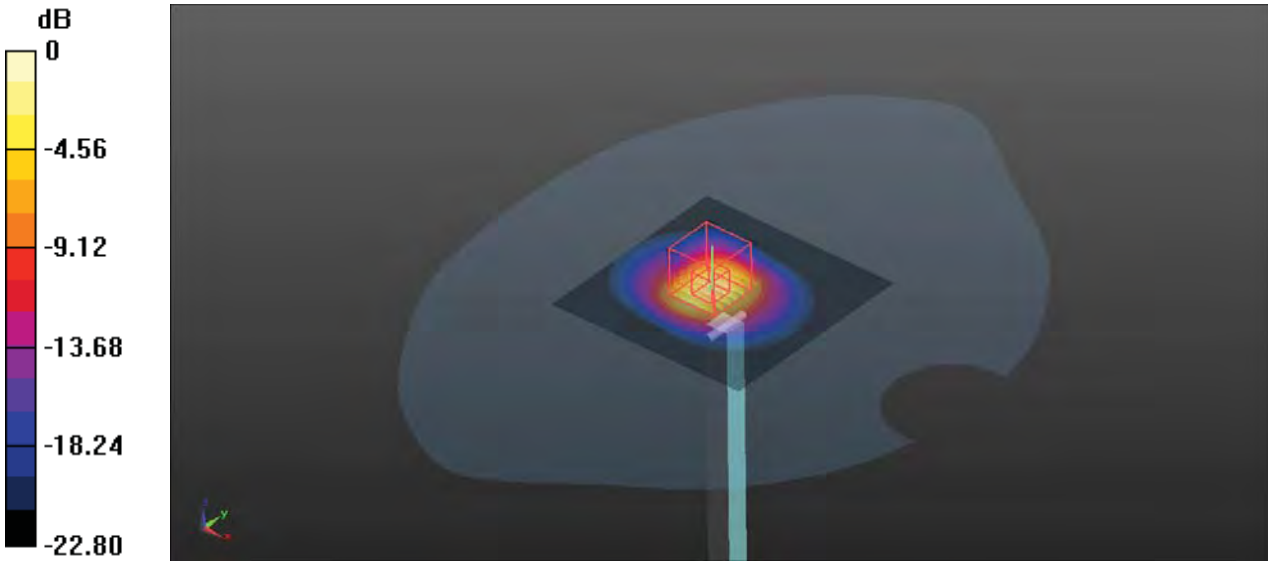
DUT: Dipole 3700 MHz; Type: D3700V2

Communication System: CW; Frequency: 3700 MHz;Duty Cycle: 1:1
Medium: HSL3700_0511 Medium parameters used: f = 3700 MHz; σ = 3.067 S/m; ε_r = 39.53; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃； Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3700 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.93 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 18.1 W/kg
SAR(1 g) = 6.52 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 = 64.9%
Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

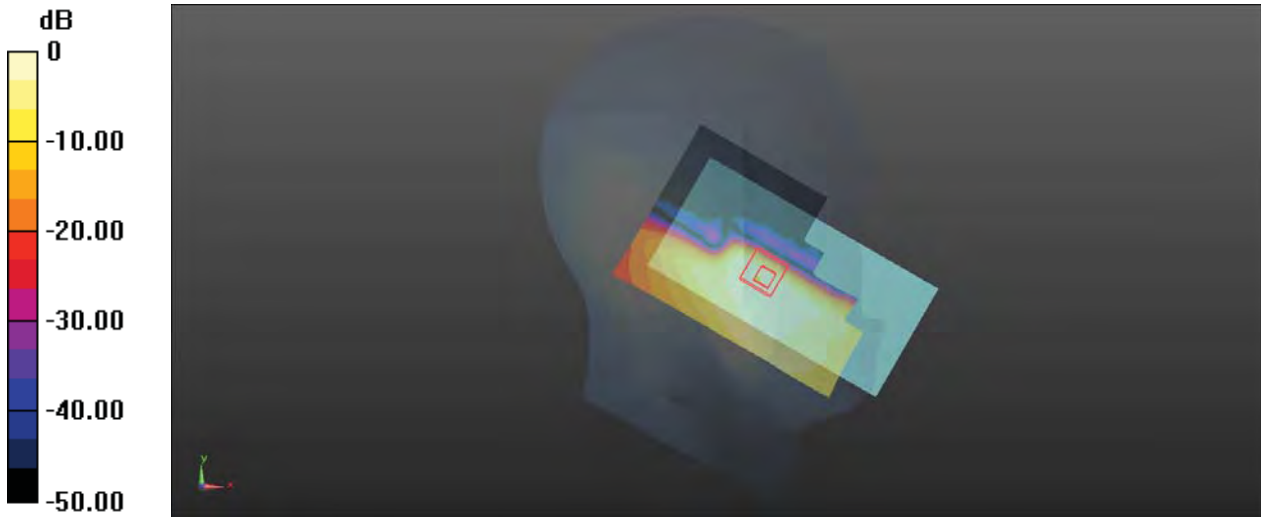
P01 GSM850_GPRS 2Tx Slot_Left Cheek_Ch189_Ant0

Communication System: GPRS 2Tx Slot; Frequency: 836.4 MHz;Duty Cycle: 1:4.15
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.889 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.974 W/kg
SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.553 W/kg
Smallest distance from peaks to all points 3 dB below = 20.8 mm
Ratio of SAR at M2 to SAR at M1 = 76.8%
Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

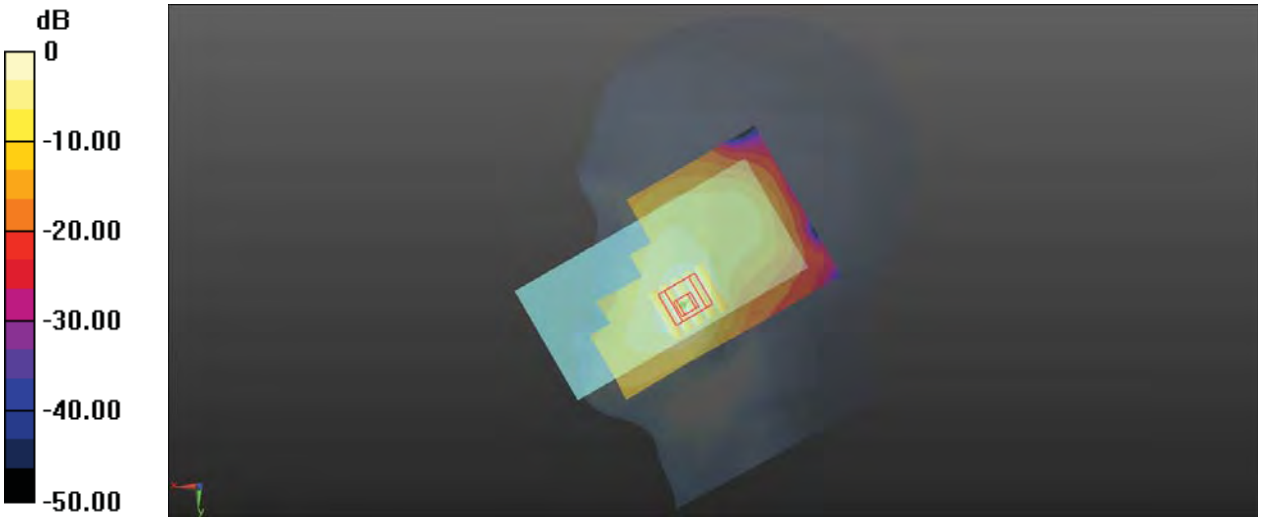
P02 GSM1900_GPRS 2Tx Slot_Right Cheek_Ch512_Ant0

Communication System: GPRS 2Tx Slot; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: HSL1900_0411 Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.475; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1850.2 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.585 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.779 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.663 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.249 W/kg
Smallest distance from peaks to all points 3 dB below = 9.4 mm
Ratio of SAR at M2 to SAR at M1 = 68.3%
Maximum value of SAR (measured) = 0.532 W/kg



0 dB = 0.532 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

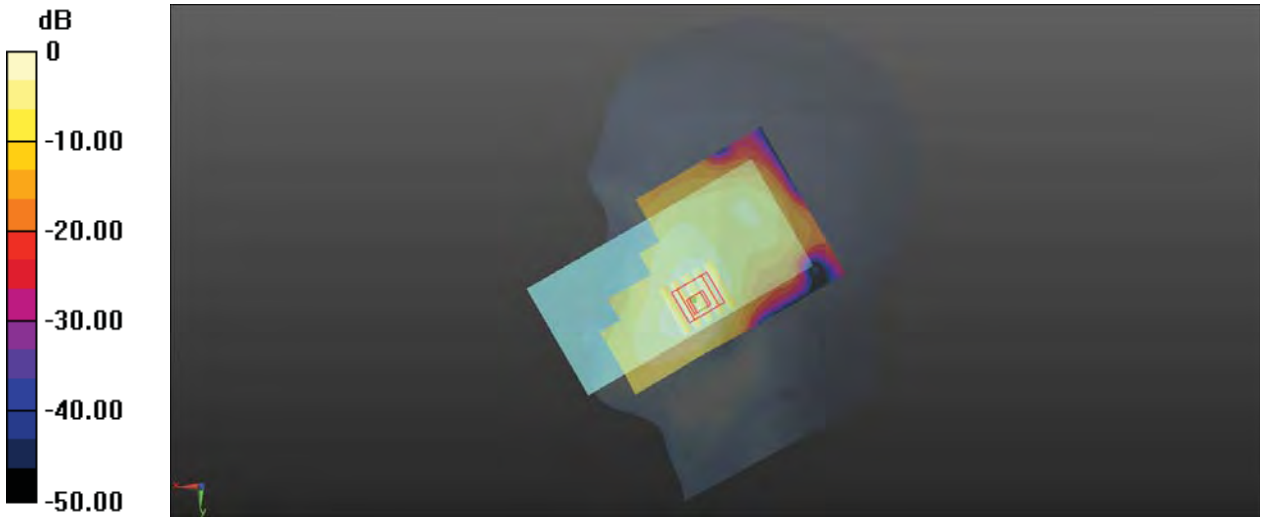
P03 WCDMA II_RMC12.2K_Right Cheek_Ch9262_Ant0

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1852.4 MHz; σ = 1.385 S/m; ε_r = 40.472; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1852.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.536 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.334 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.639 W/kg
SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.253 W/kg
Smallest distance from peaks to all points 3 dB below = 12.2 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 0.513 W/kg



0 dB = 0.513 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

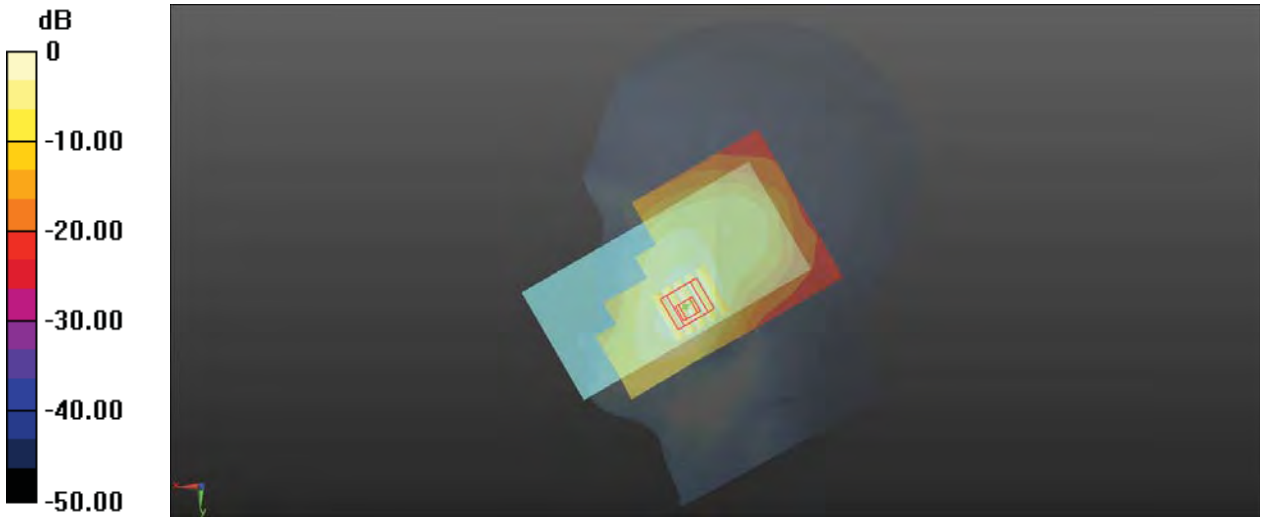
P04 WCDMA IV_RMC12.2K_Right Cheek_Ch1413_Ant0

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1733 MHz; σ = 1.41 S/m; ε_r = 41.145; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1732.6 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.693 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.552 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.812 W/kg
SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.303 W/kg
Smallest distance from peaks to all points 3 dB below = 9.8 mm
Ratio of SAR at M2 to SAR at M1 = 71.1%
Maximum value of SAR (measured) = 0.624 W/kg



0 dB = 0.624 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

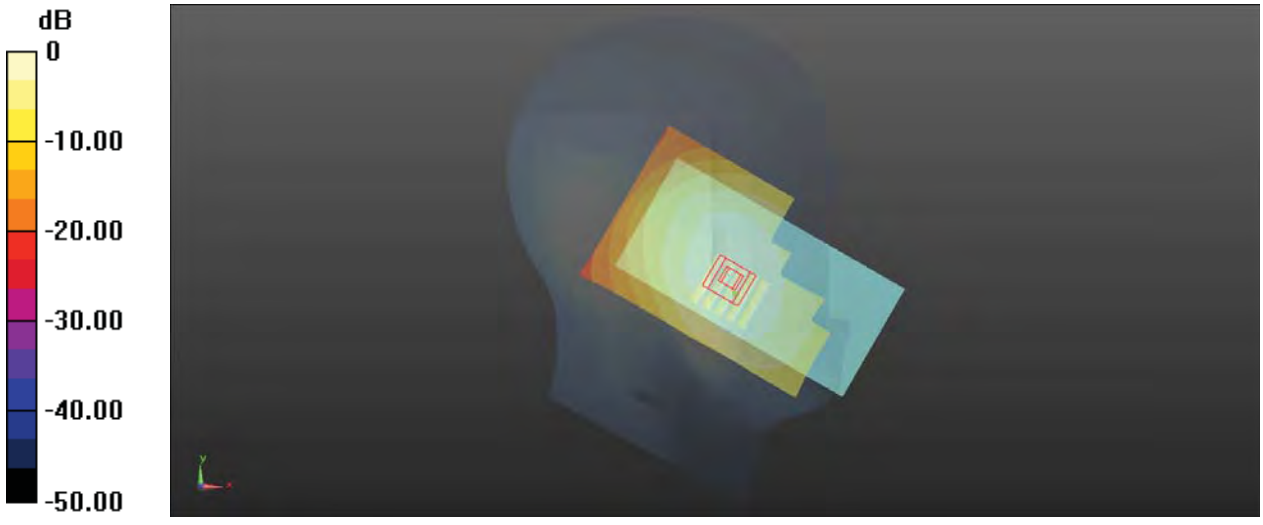
P05 WCDMA V_RMC12.2K_Left Cheek_Ch4182_Ant0

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.344 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.556 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.388 W/kg
SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.225 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 79.5%
Maximum value of SAR (measured) = 0.343 W/kg



0 dB = 0.343 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

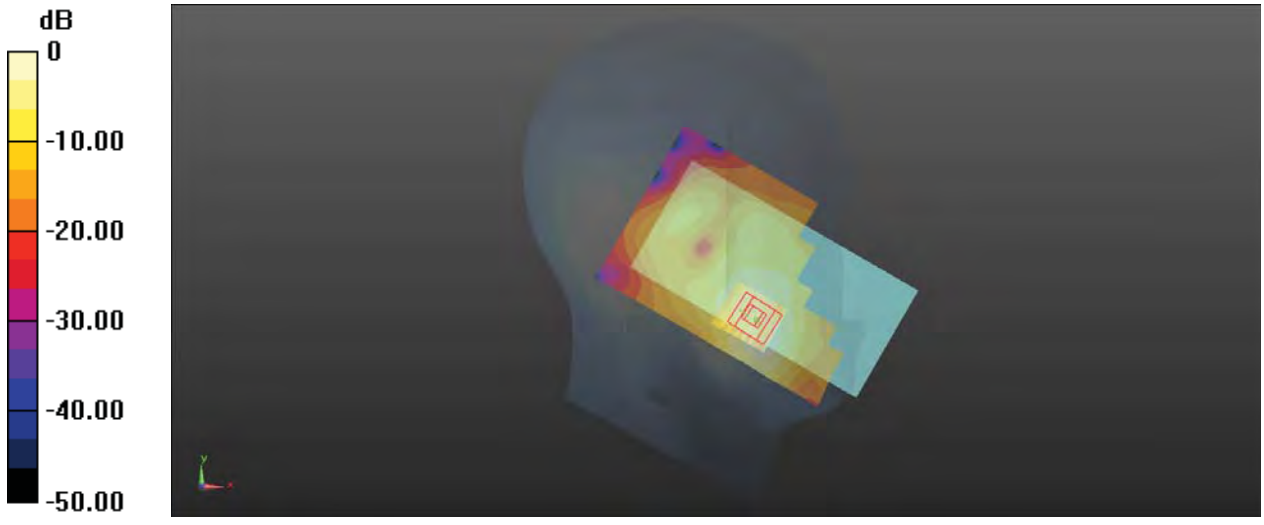
P06 LTE 7_ENDC_QPSK20M_Left Cheek_Ch21100_1RB_OS99_Ant10

Communication System: LTE_FDD; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2535 MHz; σ = 1.884 S/m; ε_r = 39.182; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2535 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.460 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.435 W/kg
Smallest distance from peaks to all points 3 dB below = 8.7 mm
Ratio of SAR at M2 to SAR at M1 = 50.1%
Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

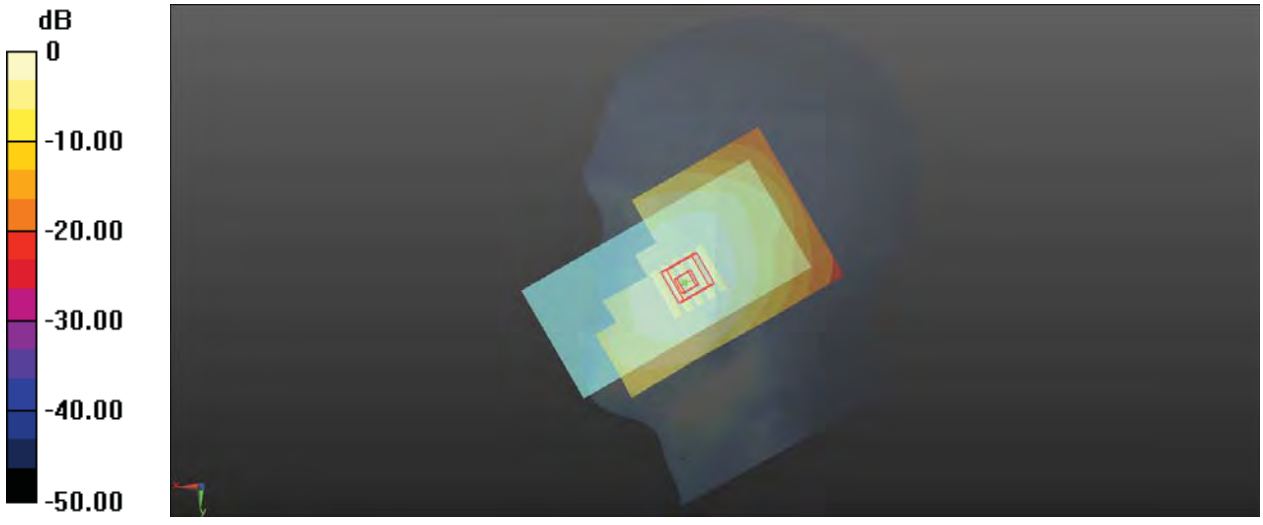
P07 LTE 12_QPSK10M_Right Cheek_Ch23060_1RB_OS49_Ant0

Communication System: LTE_FDD; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 704 MHz; σ = 0.896 S/m; ε_r = 43.693; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 704 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.256 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.061 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.282 W/kg
SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.175 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 81.5%
Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

P08 LTE 13_QPSK10M_Left Cheek_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 782 MHz; σ = 0.924 S/m; ε_r = 43.444; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.292 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.017 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.326 W/kg
SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.192 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.1%
Maximum value of SAR (measured) = 0.288 W/kg

0 dB = 0.288 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

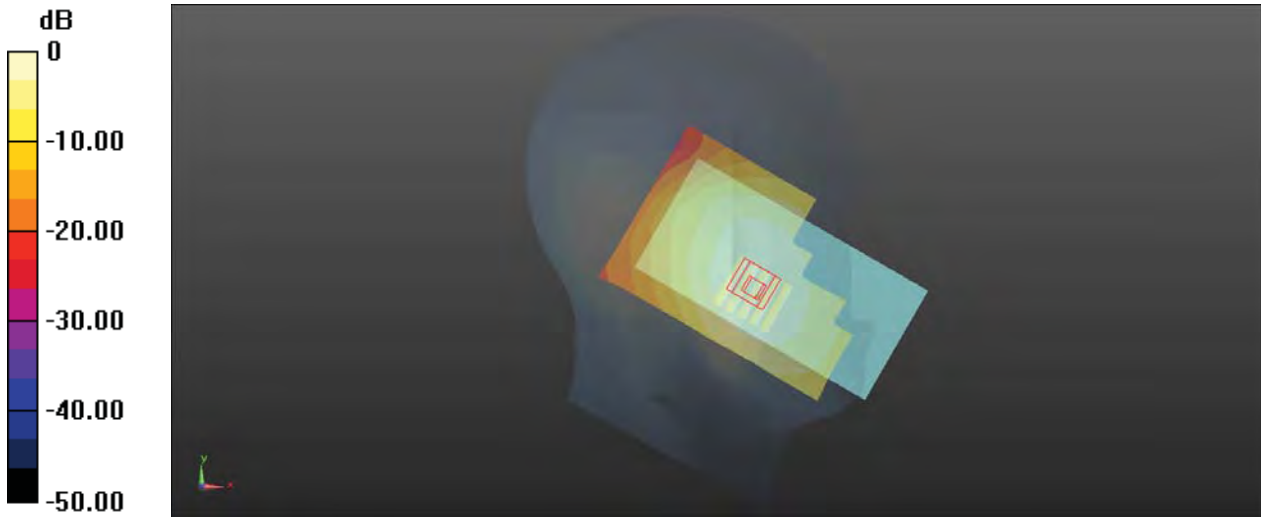
P09 LTE 14_QPSK10M_Left Cheek_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 793 MHz; σ = 0.929 S/m; ε_r = 43.443; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.259 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.780 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.293 W/kg
SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.170 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.1%
Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

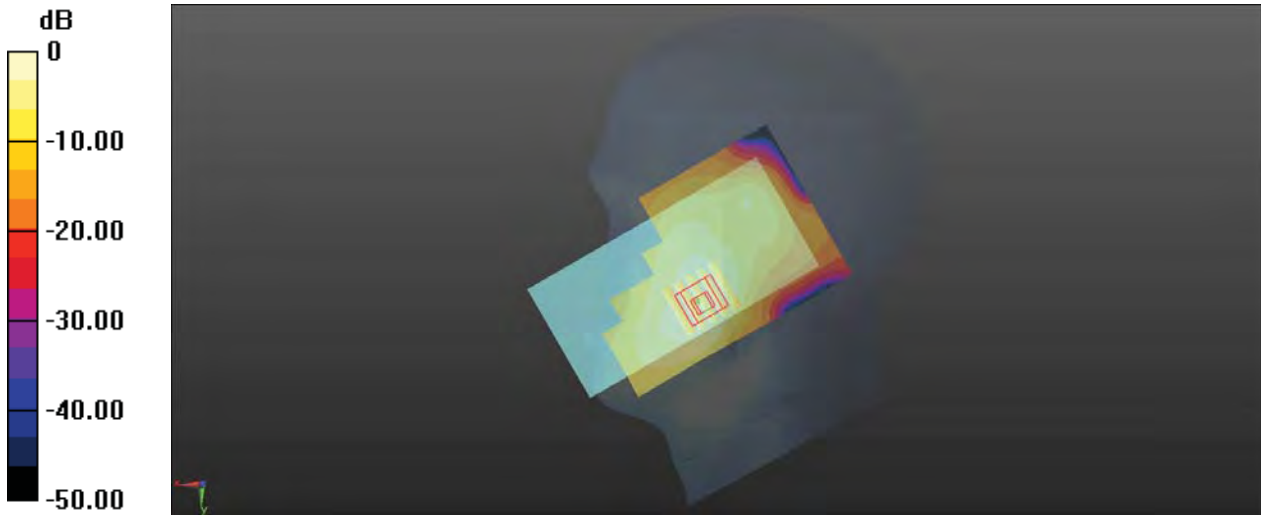
P10 LTE 25_QPSK20M_Right Cheek_Ch26340_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.007; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.451 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.497 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.540 W/kg
SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.212 W/kg
Smallest distance from peaks to all points 3 dB below = 12.2 mm
Ratio of SAR at M2 to SAR at M1 = 64.1%
Maximum value of SAR (measured) = 0.439 W/kg



0 dB = 0.439 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

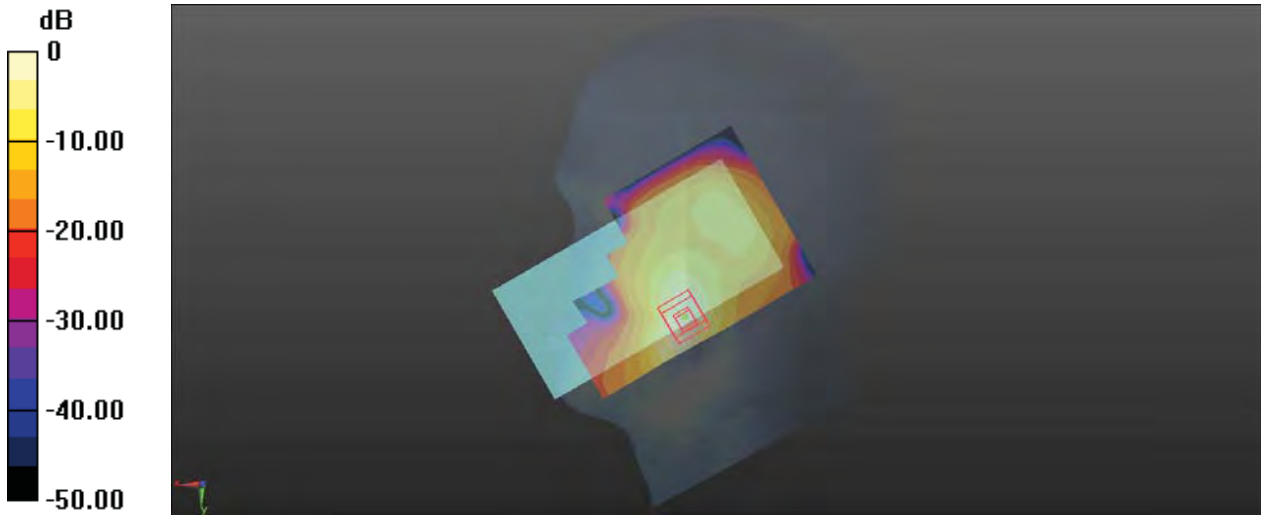
P11 LTE 2_ENDC_QPSK20M_Right Cheek_Ch18900_1RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1880 MHz; σ = 1.399 S/m; ε_r = 40.452; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.72 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.742 W/kg; SAR(10 g) = 0.388 W/kg
Smallest distance from peaks to all points 3 dB below = 9.3 mm
Ratio of SAR at M2 to SAR at M1 = 51.9%
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

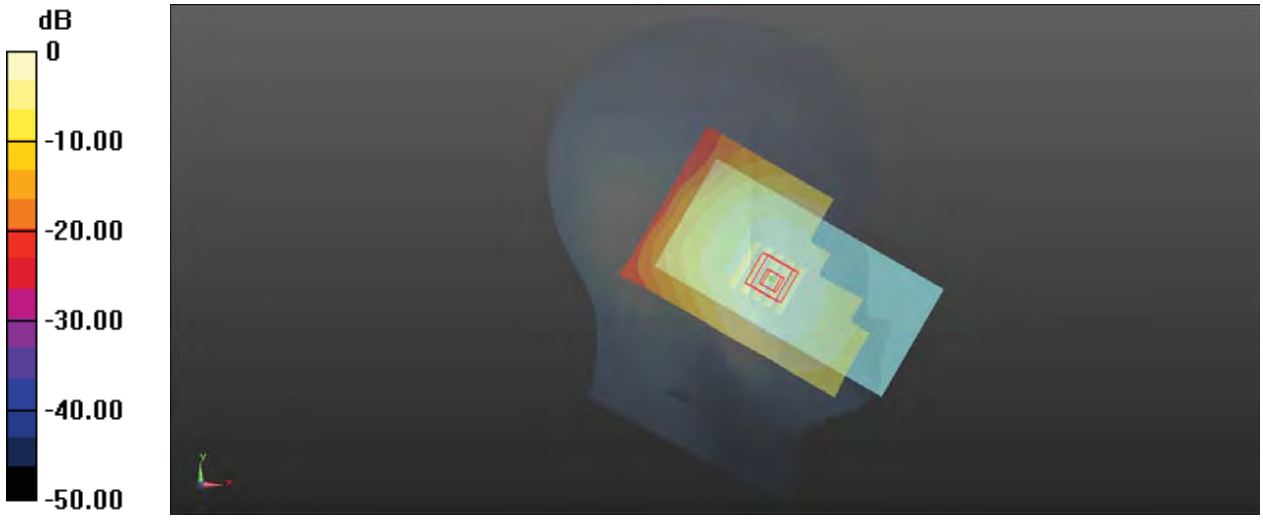
P12 LTE 26_QPSK15M_Right Cheek_Ch26765_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 821.5 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 821.5 MHz; σ = 0.933 S/m; ε_r = 43.414; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 821.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.307 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.822 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.345 W/kg
SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.201 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 79.1%
Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

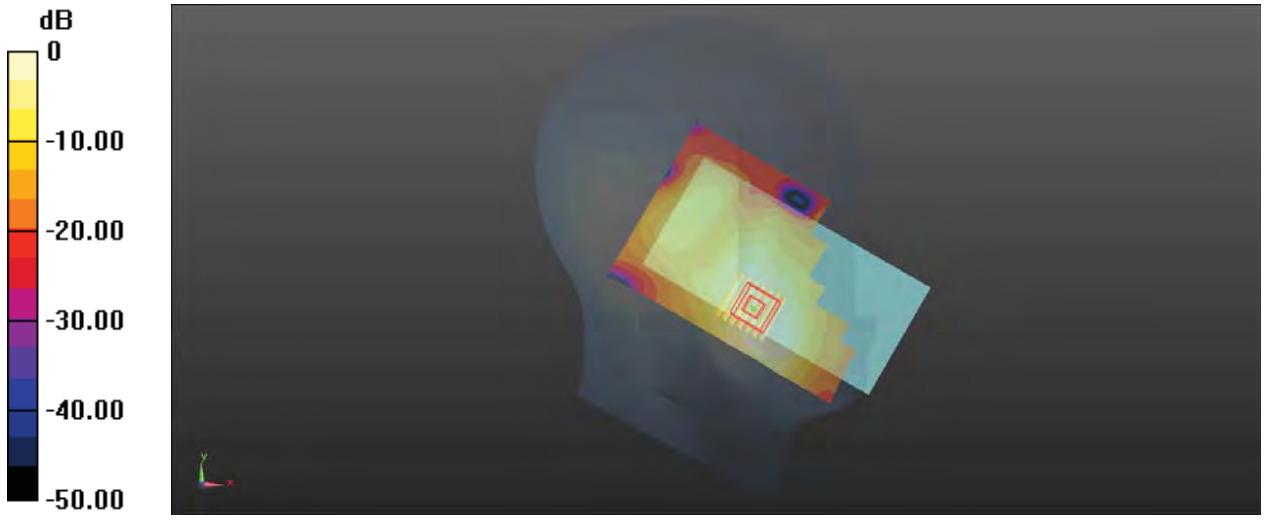
P13 LTE 30_QPSK10M_Left Cheek_Ch27710_1RB_OS24_Ant10

Communication System: LTE_FDD; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.855 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.30 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.341 W/kg
Smallest distance from peaks to all points 3 dB below = 13 mm
Ratio of SAR at M2 to SAR at M1 = 58.4%
Maximum value of SAR (measured) = 0.829 W/kg



0 dB = 0.829 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

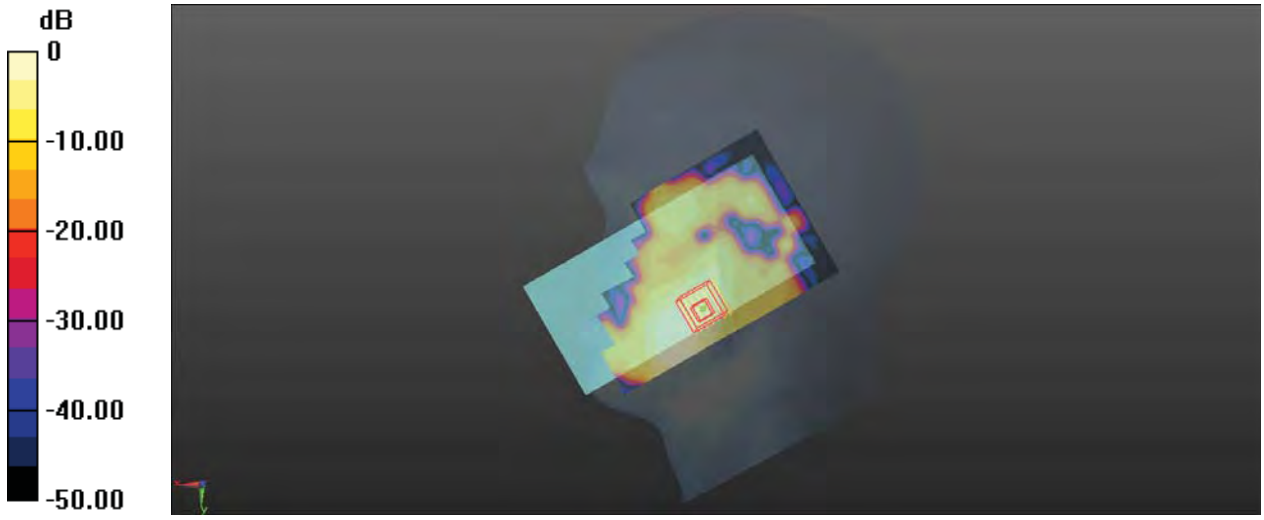
P14 LTE 38_QPSK20M_Right Cheek_Ch38150_1RB_OS50_Ant6

Communication System: LTE_TDD; Frequency: 2610 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0415 Medium parameters used: f = 2610 MHz; σ = 1.994 S/m; ε_r = 39.396; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2610 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.269 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.256 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.322 W/kg
SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.084 W/kg
Smallest distance from peaks to all points 3 dB below = 8.3 mm
Ratio of SAR at M2 to SAR at M1 = 80.4%
Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.244 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

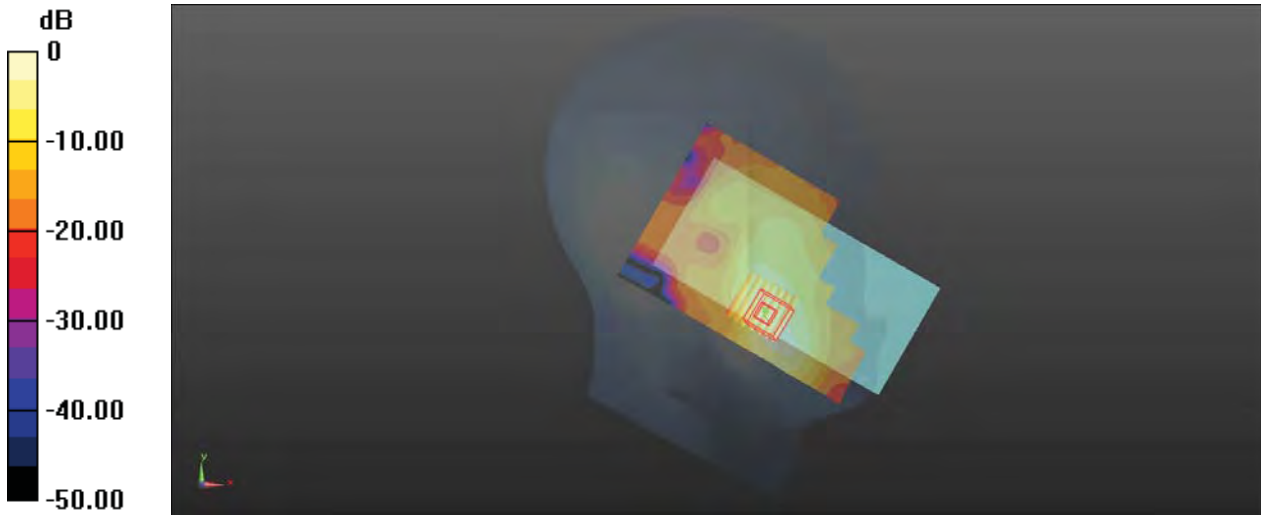
P15 LTE 41_QPSK20M_Left Cheek_Ch41490_1RB_OS0_Ant10

Communication System: LTE_TDD; Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0416 Medium parameters used: f = 2680 MHz; σ = 1.947 S/m; ε_r = 39.375; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2680 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.352 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.707 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.584 W/kg
SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.159 W/kg
Smallest distance from peaks to all points 3 dB below = 9.5 mm
Ratio of SAR at M2 to SAR at M1 = 52.7%
Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

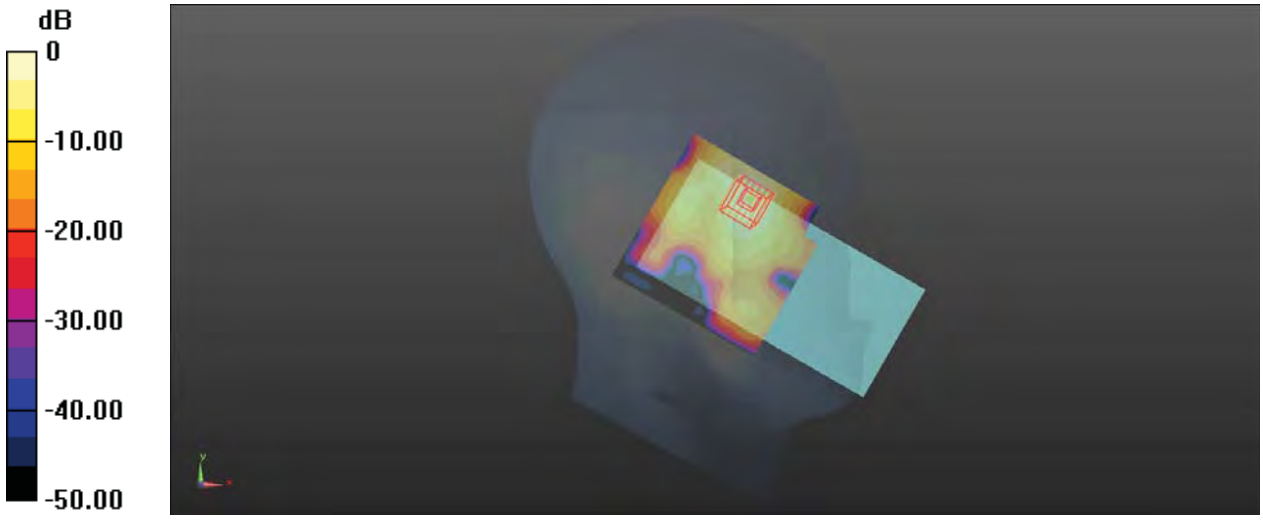
P16 LTE 42_QPSK20M_Left Cheek_Ch42590_1RB_OS0_Ant11

Communication System: LTE_TDD; Frequency: 3500 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3500 MHz; σ = 2.821 S/m; ε_r = 39.678; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

- **Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.598 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.32 W/kg
SAR(1 g) = 0.930 W/kg; SAR(10 g) = 0.390 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 66.9%
Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/10

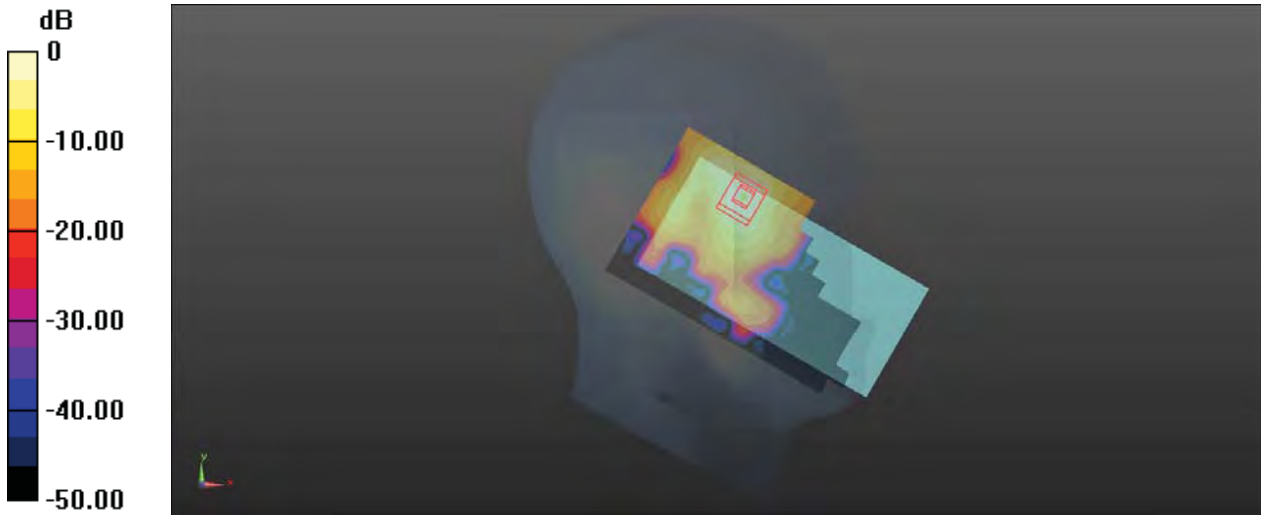
P17 LTE 48_QPSK20M_Left Cheek_Ch56640_1RB_OS50_Ant11

Communication System: LTE_FDD; Frequency: 3690 MHz;Duty Cycle: 1:1.59
Medium: HSL3700_0510 Medium parameters used: f = 3690 MHz; σ = 3.002 S/m; ε_r = 39.374; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3690 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.289 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.25 W/kg
SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.328 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 66.4%
Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

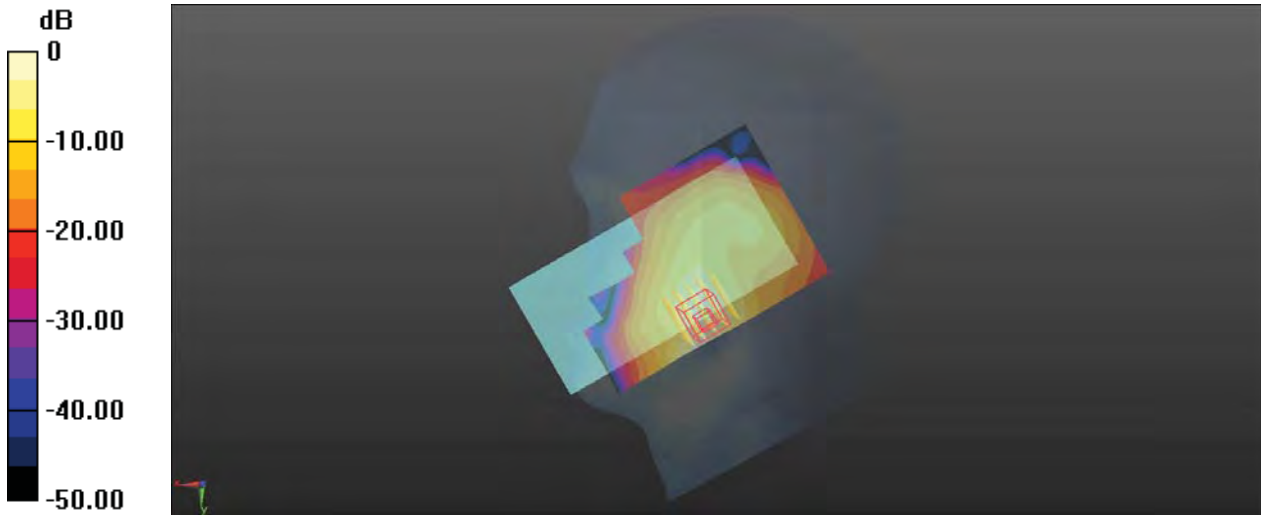
P18 LTE 66_ENDC_QPSK20M_Right Cheek_Ch132322_1RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1745 MHz; σ = 1.419 S/m; ε_r = 41.136; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1745 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.878 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.900 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.333 W/kg
Smallest distance from peaks to all points 3 dB below = 9.1 mm
Ratio of SAR at M2 to SAR at M1 = 56.6%
Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

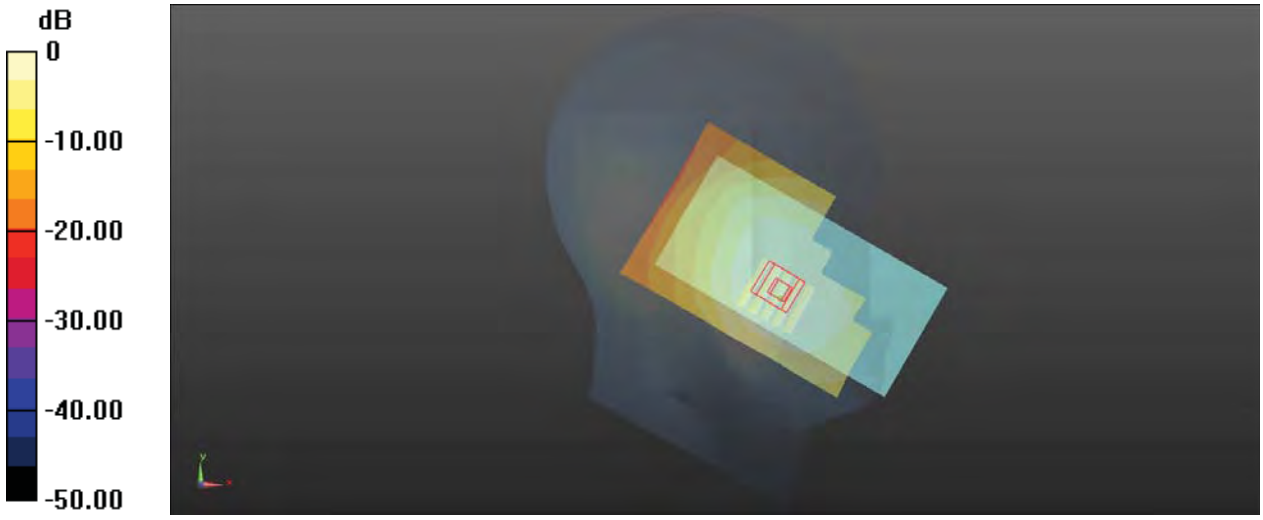
P19 LTE 71_QPSK20M_Left Cheek_Ch133222_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 673 MHz; σ = 0.884 S/m; ε_r = 43.773; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.248 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.161 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.266 W/kg
SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.160 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.3%
Maximum value of SAR (measured) = 0.239 W/kg



0 dB = 0.239 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

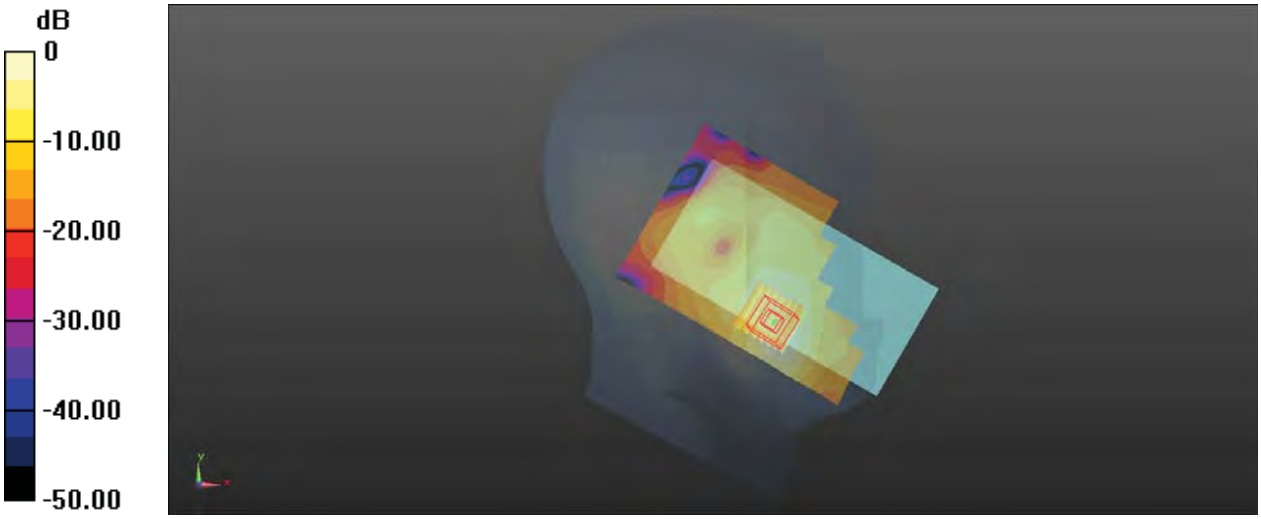
P20 N7_QPSK25M SCS15KHz_Left Cheek_Ch511500_128RB_OS0_Ant10

Communication System: NR; Frequency: 2557.5 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2557.5 MHz; σ = 1.902 S/m; ε_r = 39.163; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2557.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.920 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.598 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.320 W/kg
Smallest distance from peaks to all points 3 dB below = 8.7 mm
Ratio of SAR at M2 to SAR at M1 = 52%
Maximum value of SAR (measured) = 0.861 W/kg



0 dB = 0.861 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

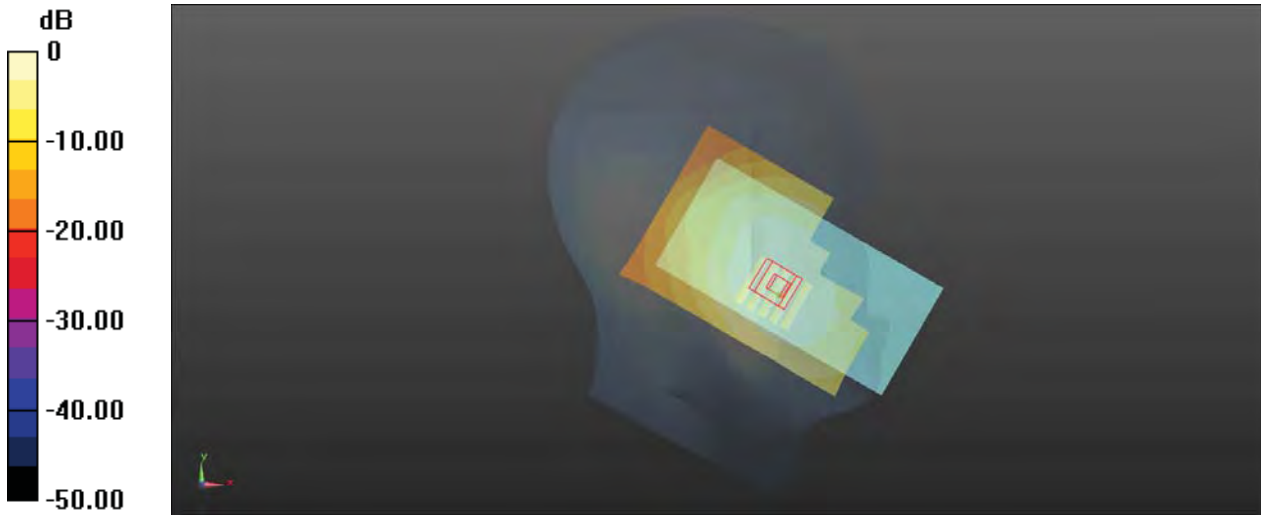
P21 N12_QPSK15M SCS15KHz_Left Cheek_Ch141300_1RB_OS1_Ant0

Communication System: NR; Frequency: 706.5 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 706.5 MHz; σ = 0.897 S/m; ε_r = 43.293; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 706.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.383 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.665 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.423 W/kg
SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.254 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.5%
Maximum value of SAR (measured) = 0.380 W/kg



0 dB = 0.380 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

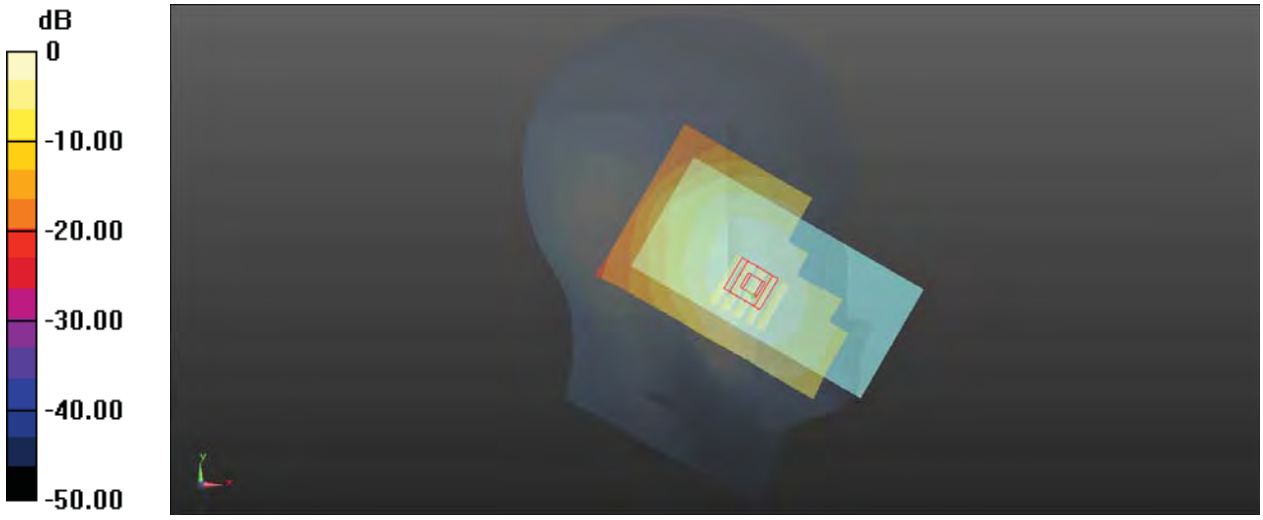
P22 N13_QPSK10M SCS15KHz_Left Cheek_Ch156400_25RB_OS14_Ant0

Communication System: NR; Frequency: 756 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 756 MHz; σ = 0.912 S/m; ε_r = 43.128; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 756 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.366 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.280 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.412 W/kg
SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.238 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.5%
Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

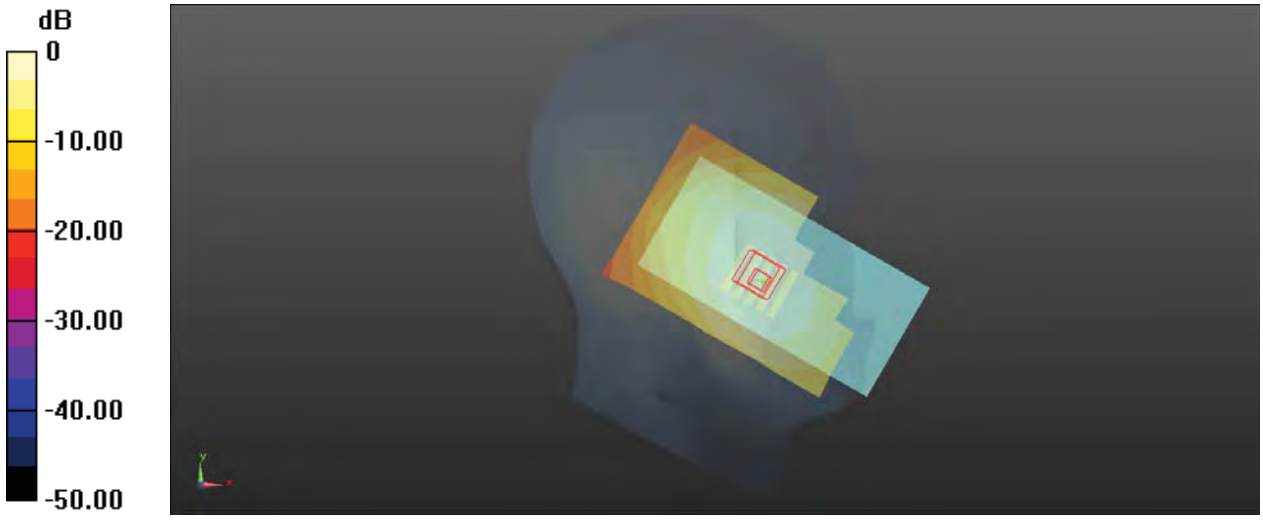
P23 N14_QPSK10M SCS15KHz_Left Cheek_Ch158600_25RB_OS14_Ant0

Communication System: NR; Frequency: 758 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 758 MHz; σ = 0.912 S/m; ε_r = 43.123; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 758 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.337 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.866 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.374 W/kg
SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.227 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 79.4%
Maximum value of SAR (measured) = 0.338 W/kg



0 dB = 0.338 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

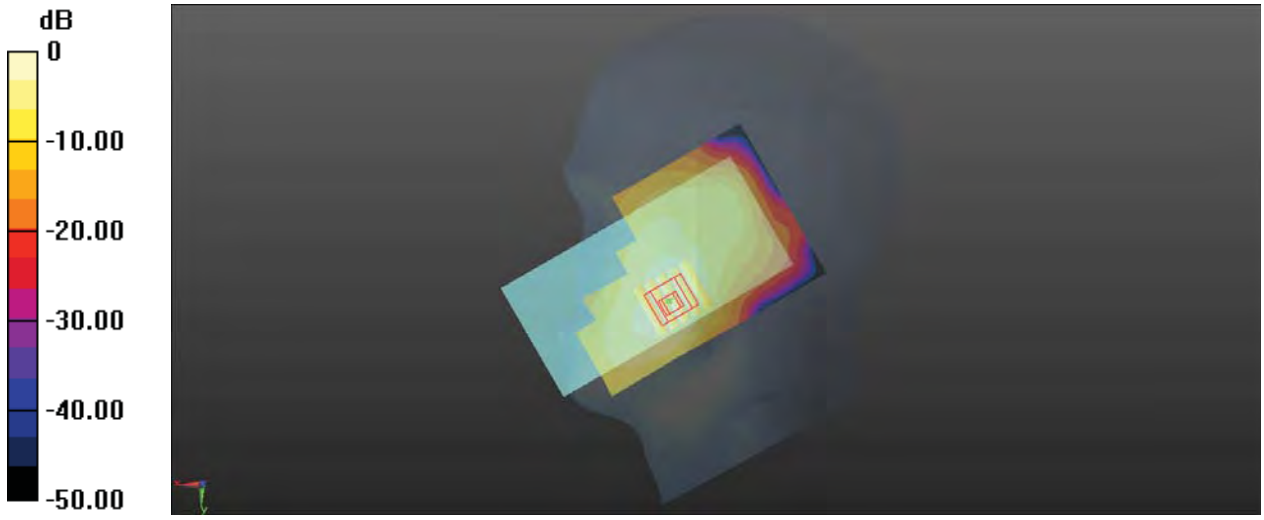
P24 N25_QPSK40M SCS15kHz_Right Cheek_Ch374000_108RB_OS54_Ant0

Communication System: NR; Frequency: 1870 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1870 MHz; σ = 1.416 S/m; ε_r = 39.019; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1870 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.523 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.750 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.601 W/kg
SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.225 W/kg
Smallest distance from peaks to all points 3 dB below = 10.2 mm
Ratio of SAR at M2 to SAR at M1 = 69.4%
Maximum value of SAR (measured) = 0.469 W/kg



0 dB = 0.469 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

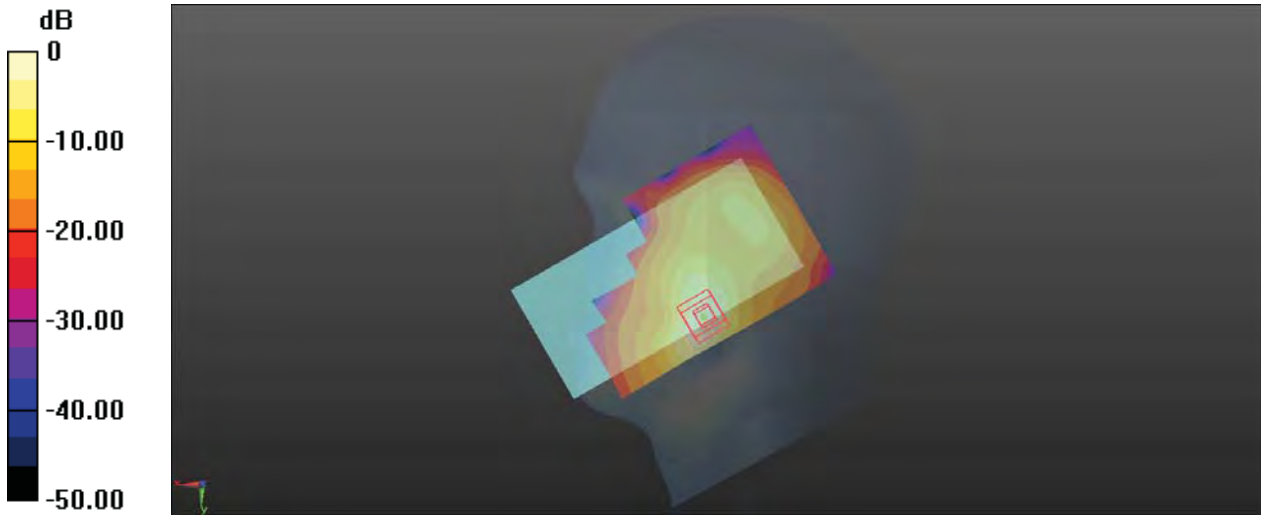
P25 N2_ENDC_QPSK40M SCS15kHz_Right Cheek_Ch372000_50RB_OS28_Ant2

Communication System: NR; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1860 MHz; σ = 1.409 S/m; ε_r = 39.038; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.20 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.12 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.513 W/kg
Smallest distance from peaks to all points 3 dB below = 8.1 mm
Ratio of SAR at M2 to SAR at M1 = 50.3%
Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

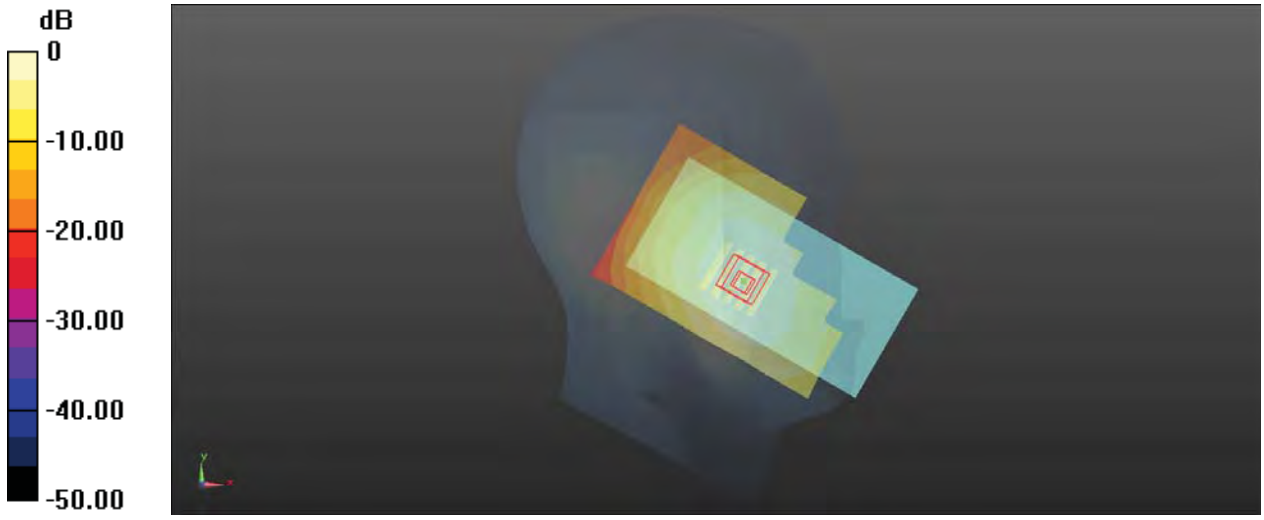
P26 N26_QPSK20M SCS15KHz_Left Cheek_Ch167800_50RB_OS28_Ant0

Communication System: NR; Frequency: 839 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 839 MHz; σ = 0.939 S/m; ε_r = 43.272; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 839 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.396 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.809 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.443 W/kg
SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.260 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.2%
Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.392 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

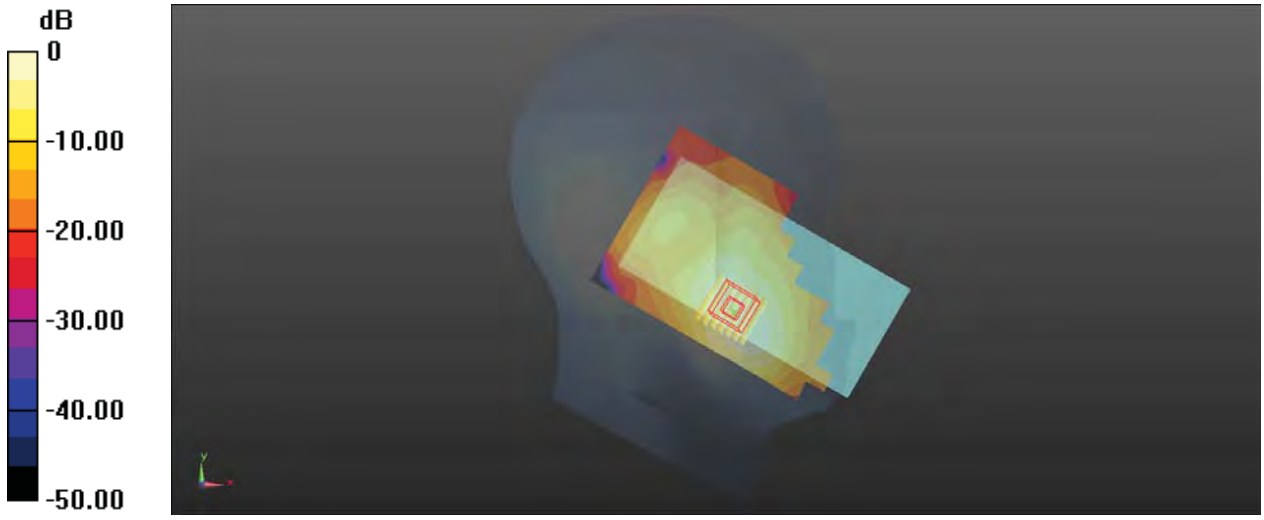
P27 N30_QPSK10M SCS15KHz_Left Cheek_Ch462000_25RB_OS14_Ant10

Communication System: NR; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.966 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.587 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.130 W/kg
SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.394 W/kg
Smallest distance from peaks to all points 3 dB below = 11.7 mm
Ratio of SAR at M2 to SAR at M1 = 57.1%
Maximum value of SAR (measured) = 0.954 W/kg



0 dB = 0.954 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/10

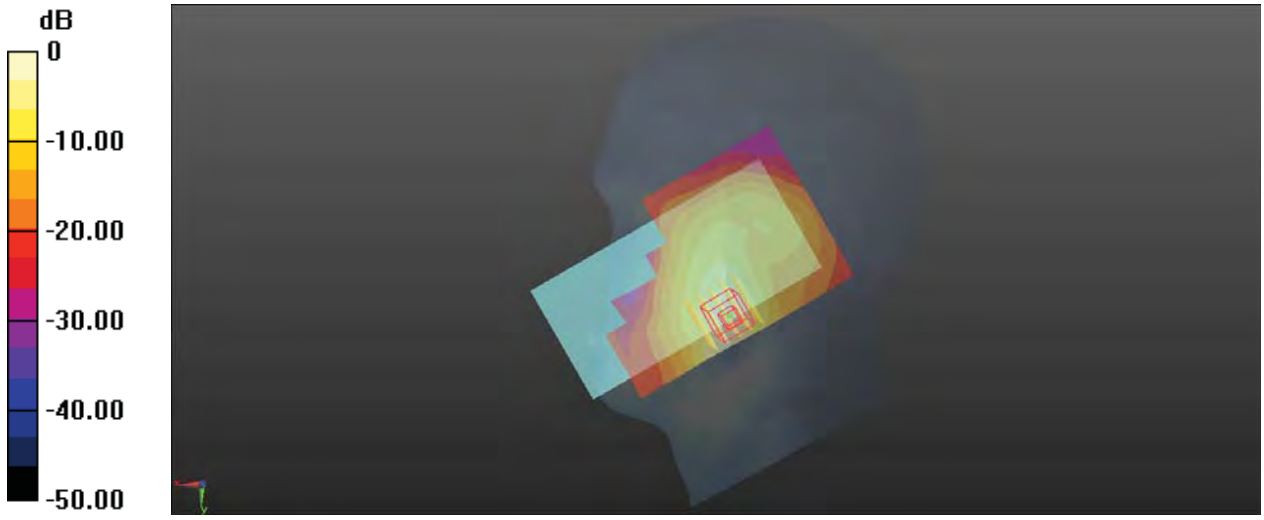
P28 N66_ENDC_QPSK40M SCS15KHz_Right Cheek_Ch346000_1RB_OS1_Ant2

Communication System: NR; Frequency: 1730 MHz;Duty Cycle: 1:1
Medium: HSL1750_0410 Medium parameters used: f = 1730 MHz; σ = 1.365 S/m; ε_r = 40.905; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1730 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.04 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.863 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.369 W/kg
Smallest distance from peaks to all points 3 dB below = 9.3 mm
Ratio of SAR at M2 to SAR at M1 = 54.5%
Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

P29 N71_QPSK20M SCS15KHz_Left Cheek_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 652 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 652 MHz; σ = 0.88 S/m; ε_r = 43.471; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 652 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.350 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.215 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.393 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.229 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.9%
Maximum value of SAR (measured) = 0.349 W/kg

0 dB = 0.349 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

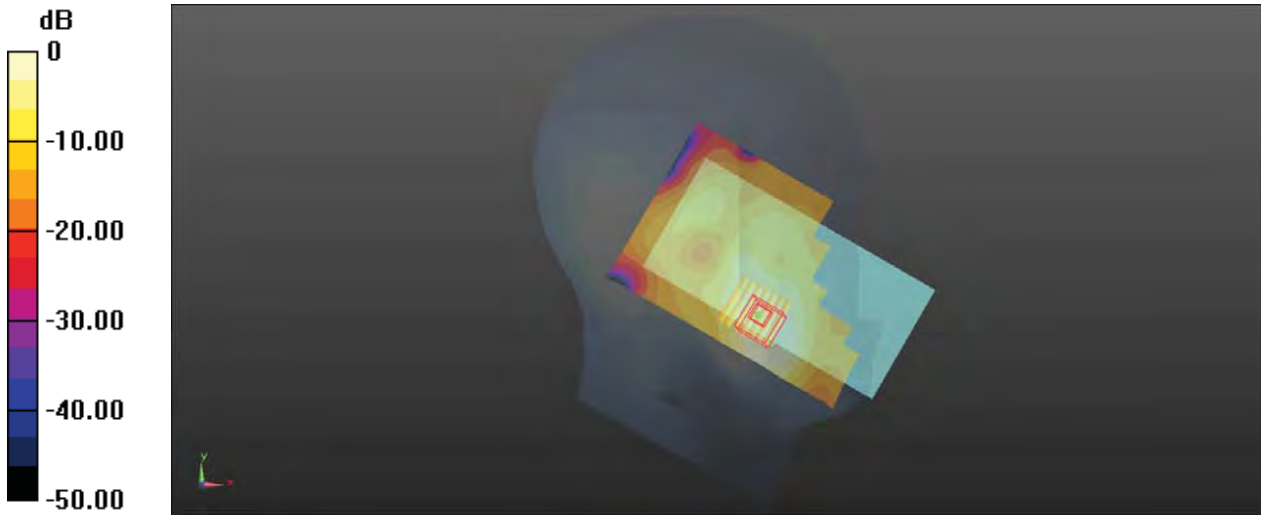
P30 N38_ENDC_QPSK40M SCS30KHz_Left Cheek_Ch520000_1RB_OS1_Ant10

Communication System: NR; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0415 Medium parameters used: f = 2600 MHz; σ = 1.986 S/m; ε_r = 39.41; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.855 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.727 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.309 W/kg
Smallest distance from peaks to all points 3 dB below = 9.3 mm
Ratio of SAR at M2 to SAR at M1 = 53.5%
Maximum value of SAR (measured) = 0.847 W/kg



0 dB = 0.847 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

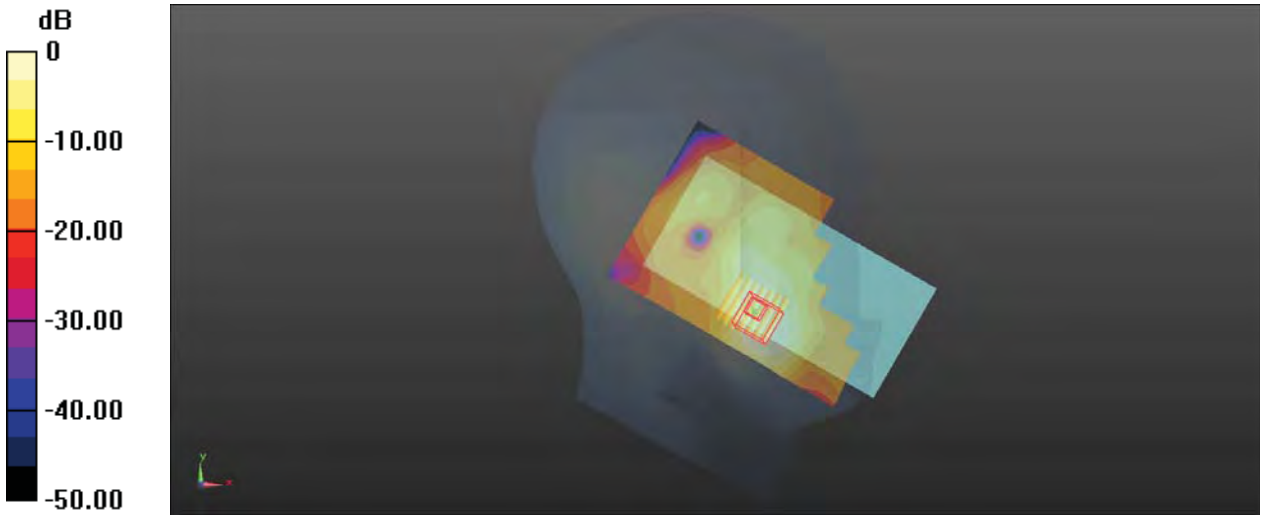
P31 N41_QPSK100M SCS30KHz_Left Cheek_Ch528000_1RB_OS1_Ant10

Communication System: NR ; Frequency: 2640 MHz;Duty Cycle: 1:1
Medium: HSL2600_0416 Medium parameters used: f = 2640 MHz; σ = 1.921 S/m; ε_r = 39.444; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2640 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.639 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.825 W/kg; SAR(10 g) = 0.448 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 53.1%
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/10

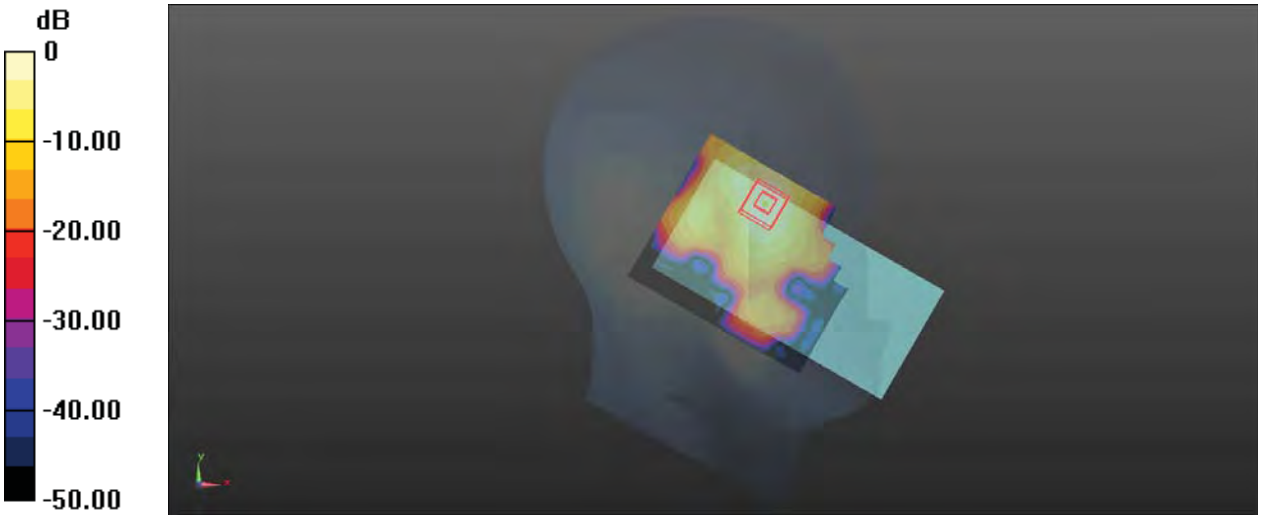
P32 N48_QPSK40M SCS30KHz_Left Cheek_Ch641666_50RB_OS28_Ant11

Communication System: NR; Frequency: 3624.99 MHz;Duty Cycle: 1:1
Medium: HSL3700_0510 Medium parameters used: f = 3624.99 MHz; σ = 2.938 S/m; ε_r = 39.479; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3624.99 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.55 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 9.028 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.369 W/kg
Smallest distance from peaks to all points 3 dB below = 9.7 mm
Ratio of SAR at M2 to SAR at M1 = 66.9%
Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/09

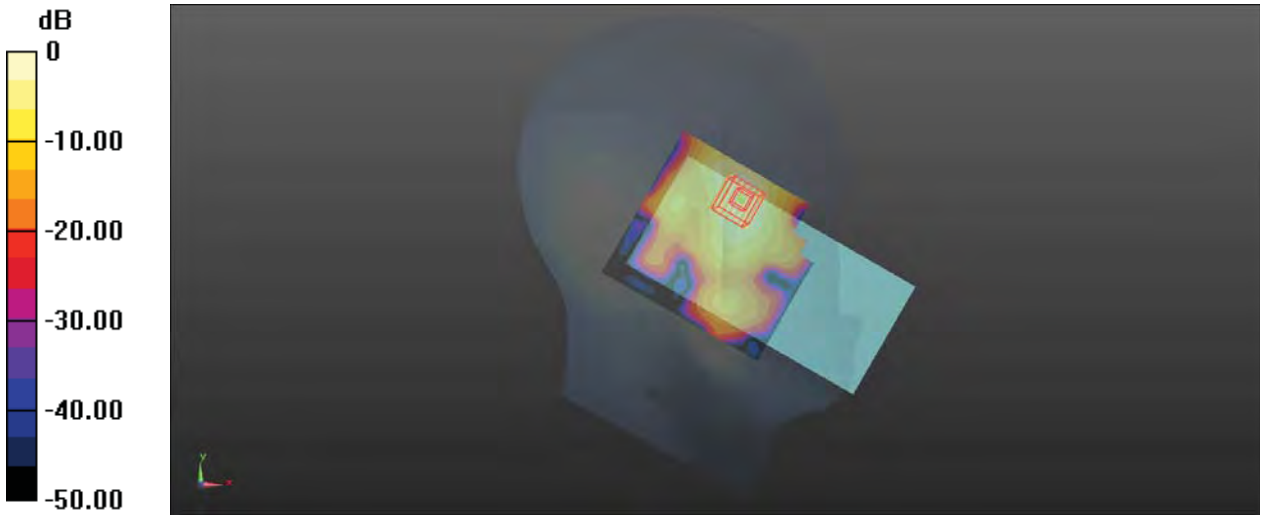
P33 N77_QPSK100M SCS30KHz_Left Cheek_Ch633334_1RB_OS1_Ant11

Communication System: NR; Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500.01 MHz; σ = 2.794 S/m; ε_r = 39.127; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500.01 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.473 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.38 W/kg
Smallest distance from peaks to all points 3 dB below = 9.1 mm
Ratio of SAR at M2 to SAR at M1 = 67.9%
Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

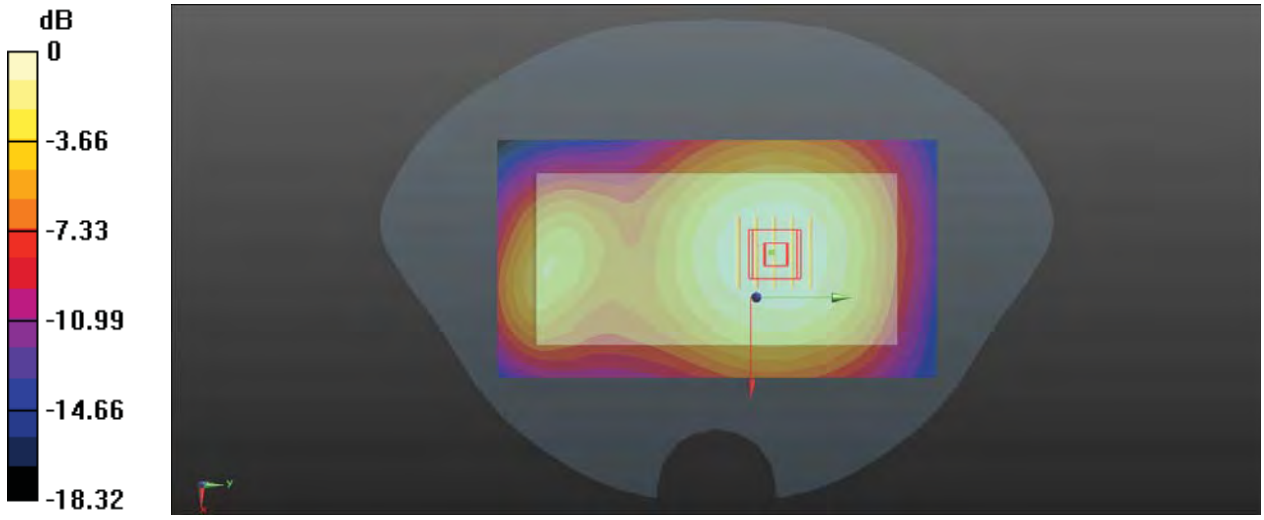
P34 GSM850_GPRS 2Tx Slot_Rear Face_1.5cm_Ch189_Ant0

Communication System: GPRS 2Tx Slot; Frequency: 836.4 MHz;Duty Cycle: 1:4.15
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.610 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.44 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.692 W/kg
SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.417 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 78.4%
Maximum value of SAR (measured) = 0.612 W/kg



0 dB = 0.612 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

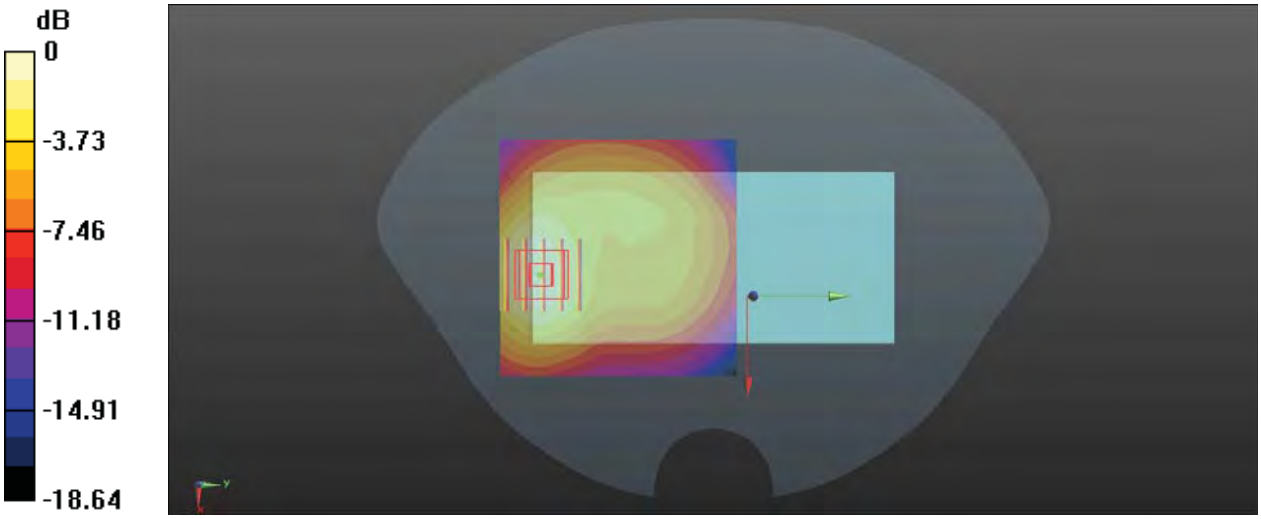
P35 GSM1900_GPRS 2Tx Slot_Rear Face_1.5cm_Ch512_Ant0

Communication System: GPRS 2Tx Slot; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: HSL1900_0411 Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.475; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1850.2 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.404 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.229 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.521 W/kg
SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.210 W/kg
Smallest distance from peaks to all points 3 dB below = 20.5 mm
Ratio of SAR at M2 to SAR at M1 = 64.2%
Maximum value of SAR (measured) = 0.403 W/kg



0 dB = 0.403 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

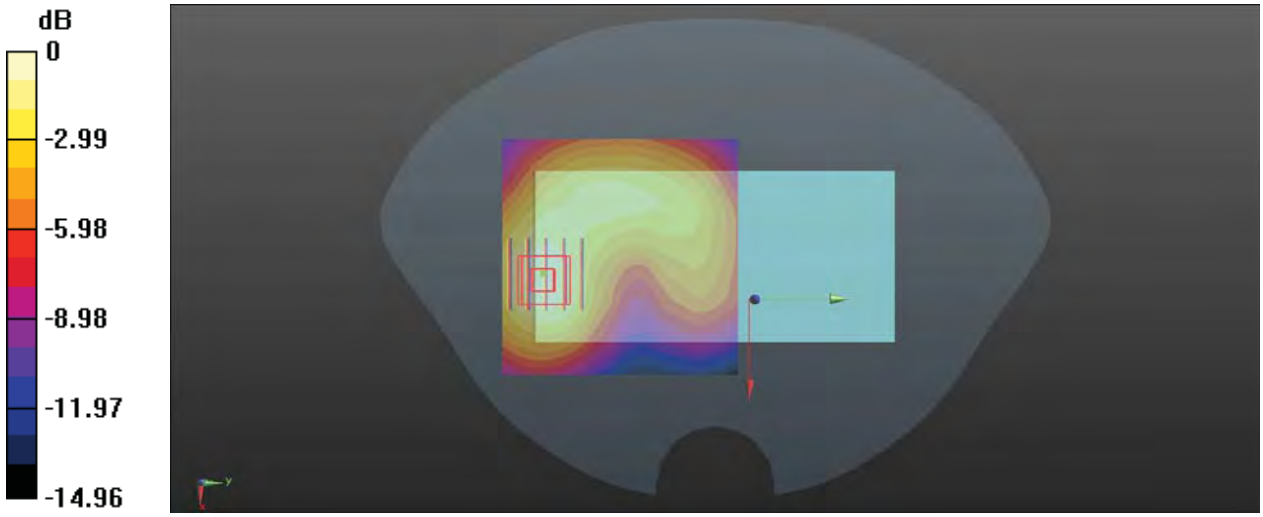
P36 WCDMA II_RMC12.2K_Rear Face_1.5cm_Ch9262_Ant0

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1852.4 MHz; σ = 1.385 S/m; ε_r = 40.472; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1852.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.448 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.93 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.588 W/kg
SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.230 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 62.8%
Maximum value of SAR (measured) = 0.447 W/kg



0 dB = 0.447 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

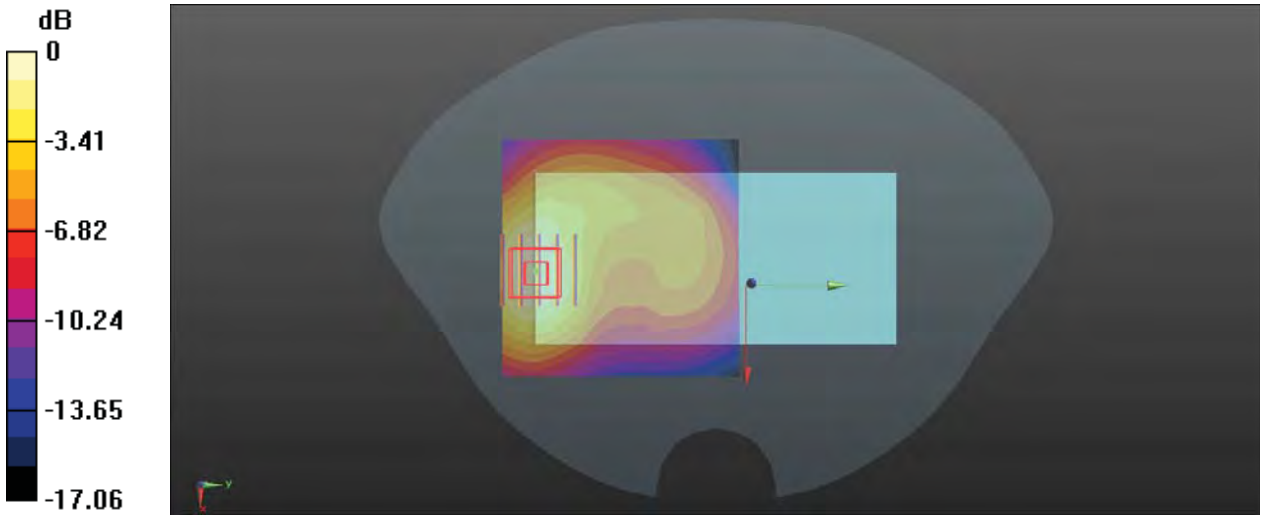
P37 WCDMA IV_RMC12.2K_Rear Face_1.5cm_Ch1413_Ant0

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1733 MHz; σ = 1.41 S/m; ε_r = 41.145; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1732.6 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.649 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.46 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.838 W/kg
SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.334 W/kg
Smallest distance from peaks to all points 3 dB below = 21.5 mm
Ratio of SAR at M2 to SAR at M1 = 64%
Maximum value of SAR (measured) = 0.646 W/kg



0 dB = 0.646 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

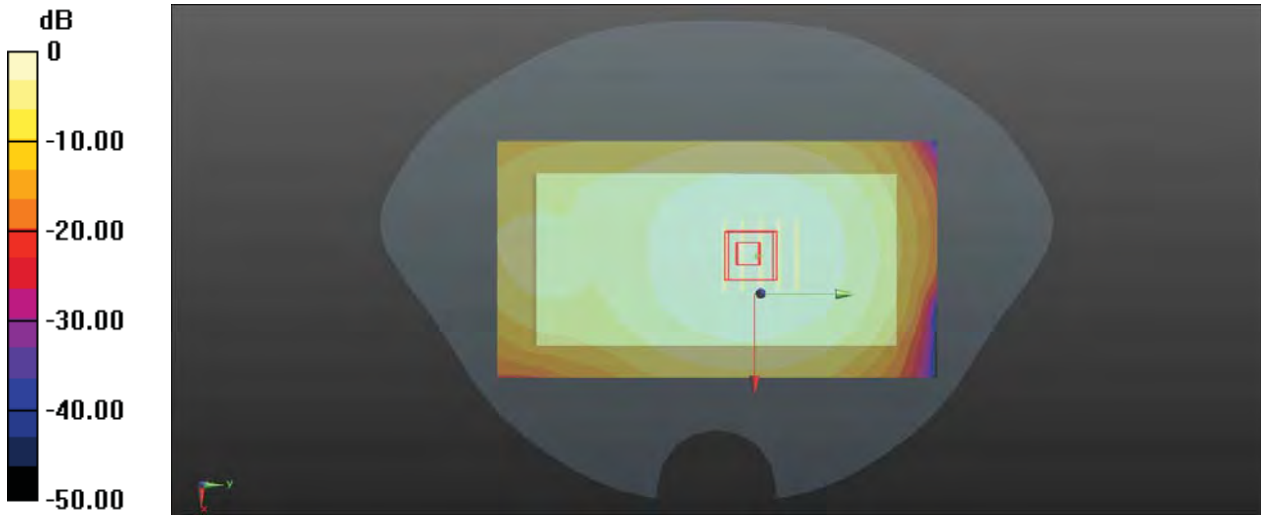
P38 WCDMA V_RMC12.2K_Front Face_1.5cm_Ch4182_Ant0

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0964 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.00 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.111 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.067 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 78.5%
Maximum value of SAR (measured) = 0.0968 W/kg



0 dB = 0.0968 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

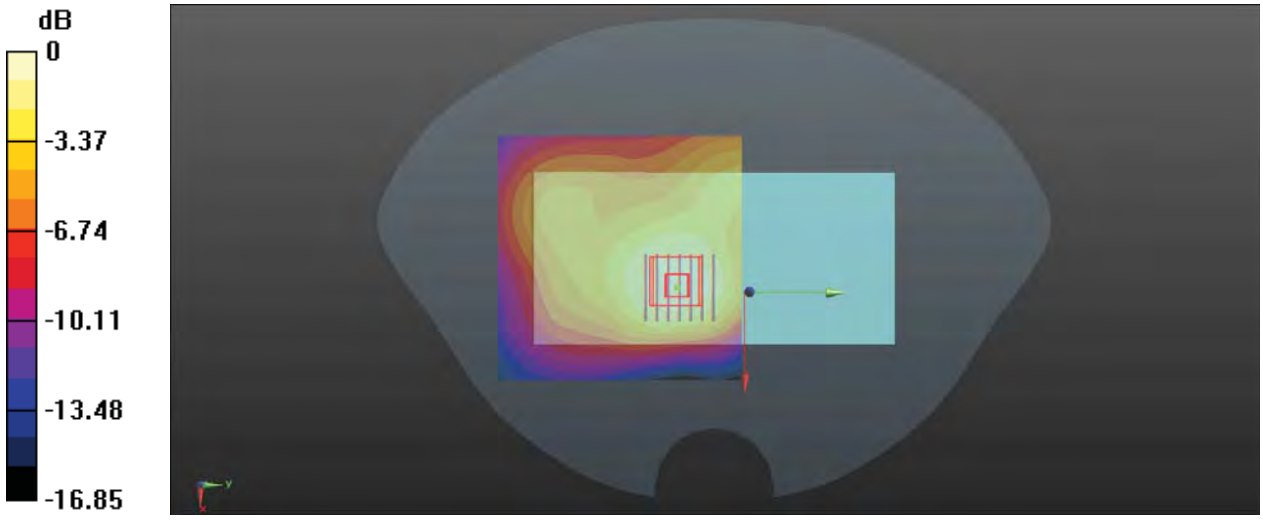
P39 LTE 7_ENDC_QPSK20M_Rear Face_1.5cm_Ch21350_1RB_OS99_Ant10

Communication System: LTE_FDD; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2560 MHz; σ = 1.904 S/m; ε_r = 39.161; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2560 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.633 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.56 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.831 W/kg
SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.260 W/kg
Smallest distance from peaks to all points 3 dB below = 18.6 mm
Ratio of SAR at M2 to SAR at M1 = 53.4%
Maximum value of SAR (measured) = 0.641 W/kg



0 dB = 0.641 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

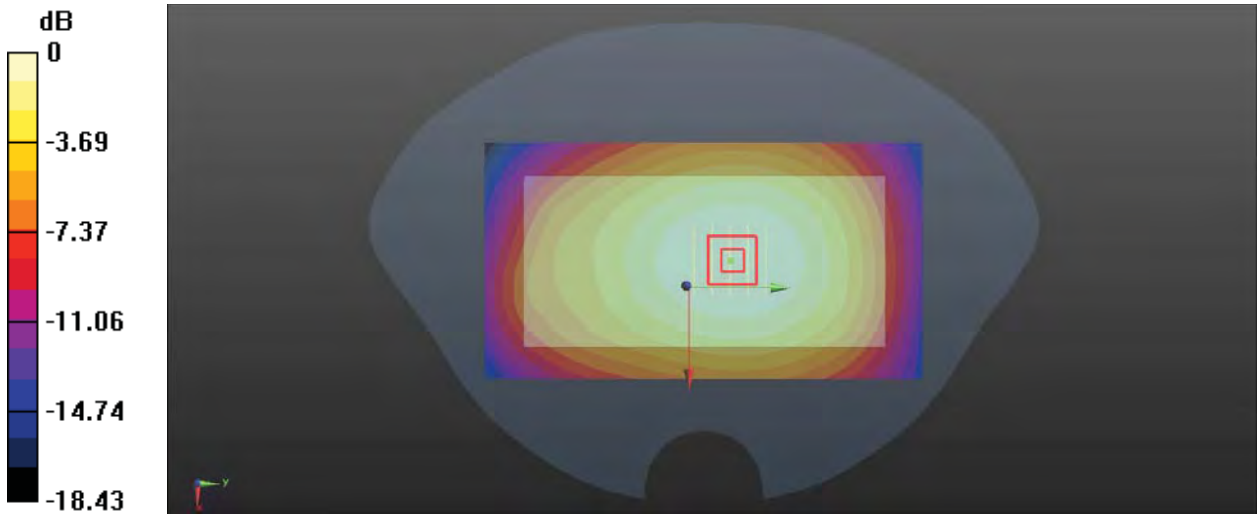
P40 LTE 12_QPSK10M_Rear Face_1.5cm_Ch23060_1RB_OS49_Ant0

Communication System: LTE_FDD; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 704 MHz; σ = 0.896 S/m; ε_r = 43.693; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 704 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.369 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.10 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.413 W/kg
SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.242 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77%
Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.372 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

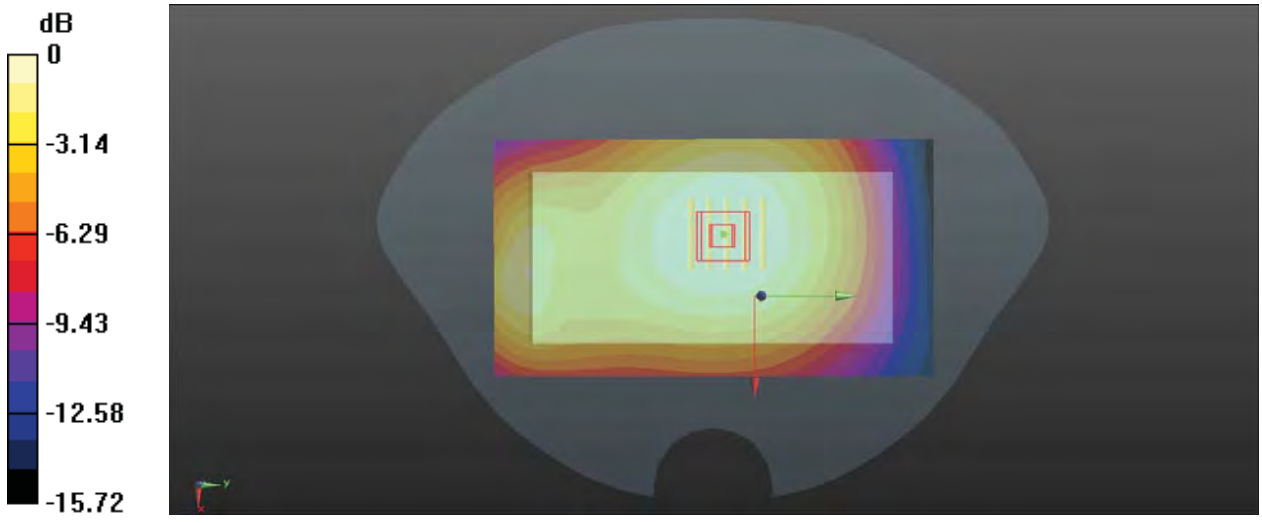
P41 LTE 13_QPSK10M_Rear Face_1.5cm_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 782 MHz; σ = 0.924 S/m; ε_r = 43.444; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.317 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.30 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.353 W/kg
SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.145 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.7%
Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.318 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

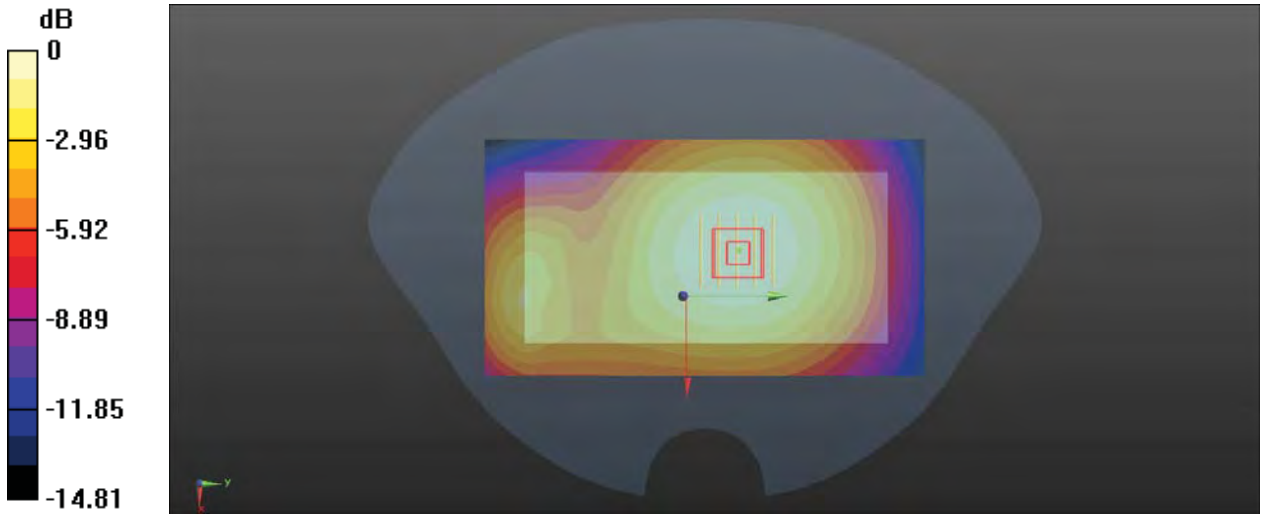
P42 LTE 14_QPSK10M_Rear Face_1.5cm_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 793 MHz; σ = 0.929 S/m; ε_r = 43.443; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.262 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.53 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.314 W/kg
SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.165 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 71.8%
Maximum value of SAR (measured) = 0.268 W/kg



0 dB = 0.268 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

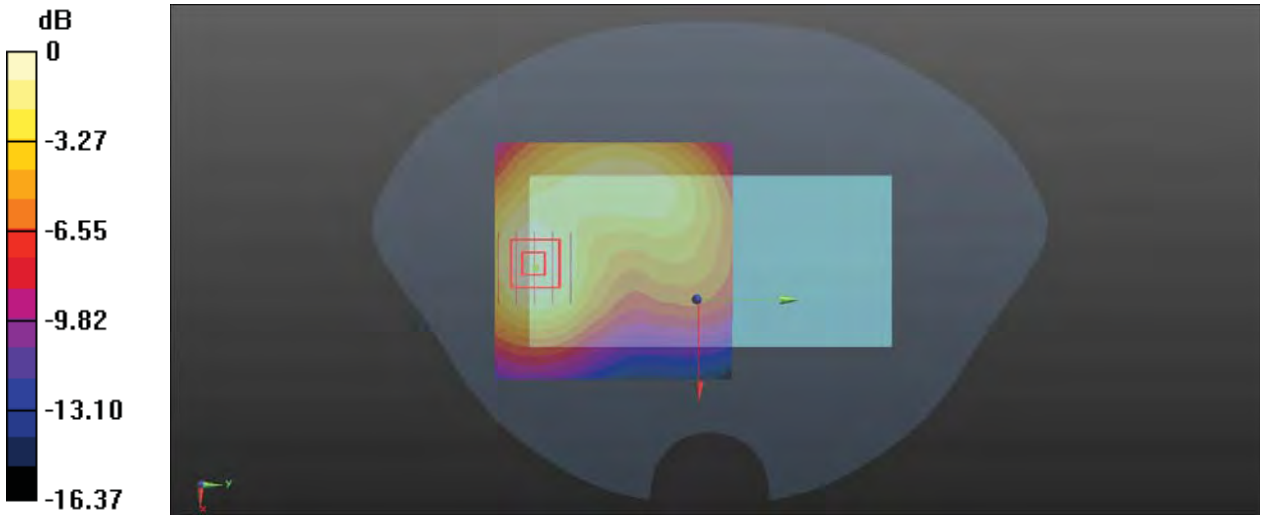
P43 LTE 25_QPSK20M_Rear Face_1.5cm_Ch26340_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.007; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.444 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.26 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.537 W/kg
SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.198 W/kg
Smallest distance from peaks to all points 3 dB below = 21.5 mm
Ratio of SAR at M2 to SAR at M1 = 61.6%
Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

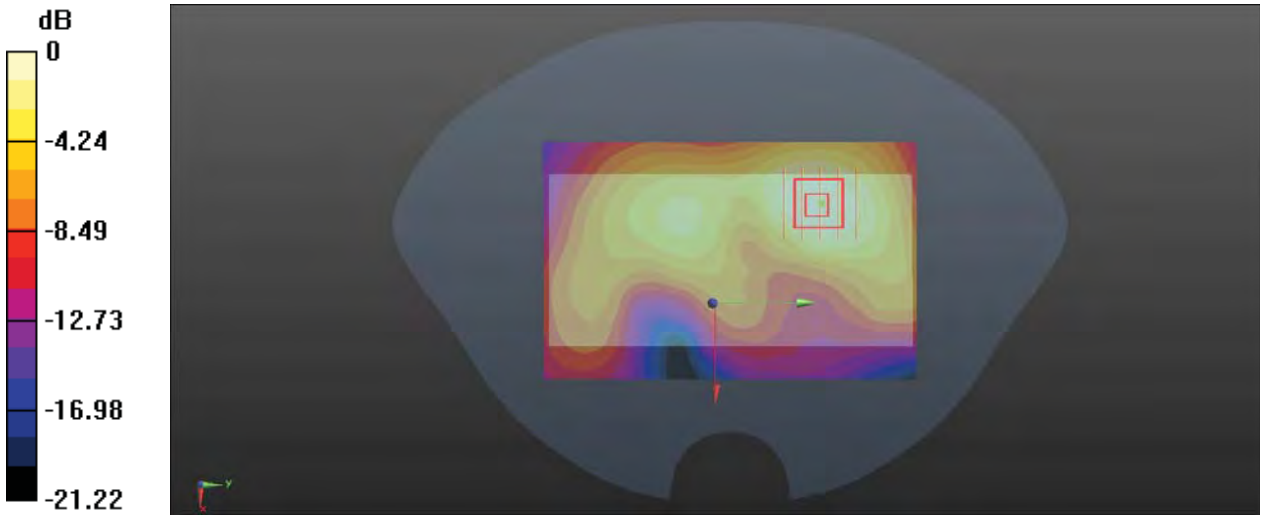
P44 LTE 2_ENDC_QPSK20M_Rear Face_1.5cm_Ch18700_1RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1860 MHz; σ = 1.389 S/m; ε_r = 40.462; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.324 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.859 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.383 W/kg
SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.150 W/kg
Smallest distance from peaks to all points 3 dB below = 17.9 mm
Ratio of SAR at M2 to SAR at M1 = 63.9%
Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.316 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

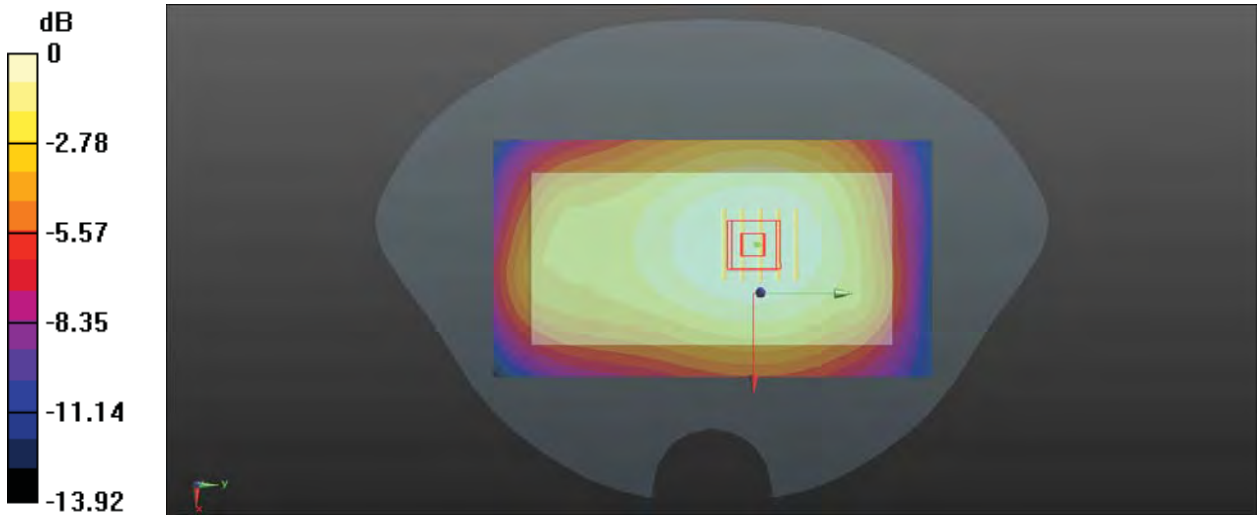
P45 LTE 26_QPSK15M_Rear Face_1.5cm_Ch26765_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 821.5 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 821.5 MHz; σ = 0.933 S/m; ε_r = 43.414; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 821.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.216 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.15 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.246 W/kg
SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.135 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 73.1%
Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

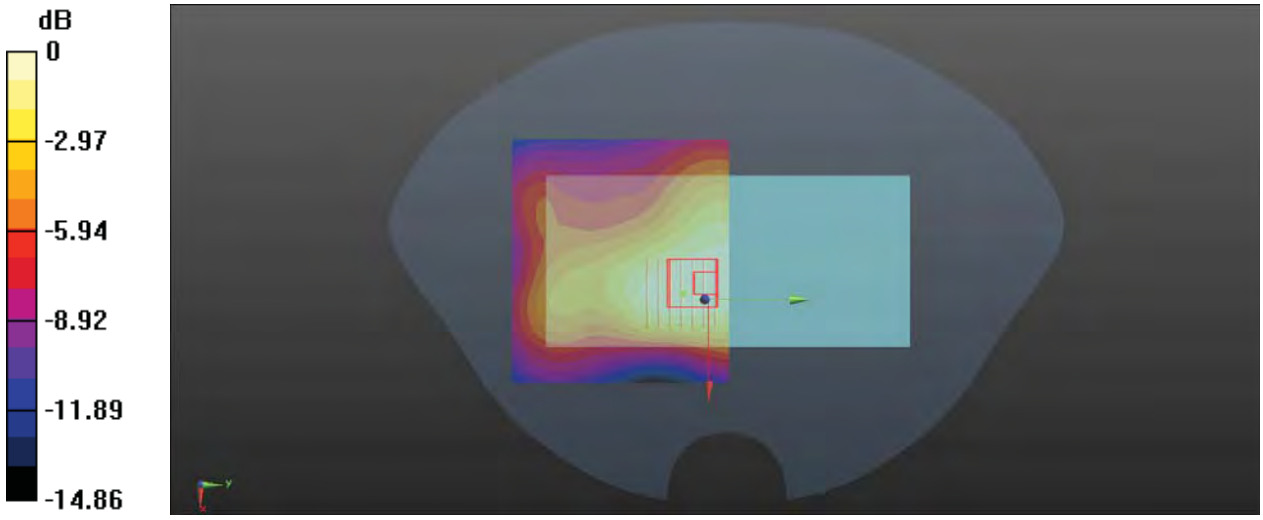
P46 LTE 30_QPSK10M_Rear Face_1.5cm_Ch27710_1RB_OS24_Ant10

Communication System: LTE_FDD; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.378 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.22 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.473 W/kg
SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.167 W/kg
Smallest distance from peaks to all points 3 dB below = 20.6 mm
Ratio of SAR at M2 to SAR at M1 = 55.4%
Maximum value of SAR (measured) = 0.374 W/kg



0 dB = 0.374 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

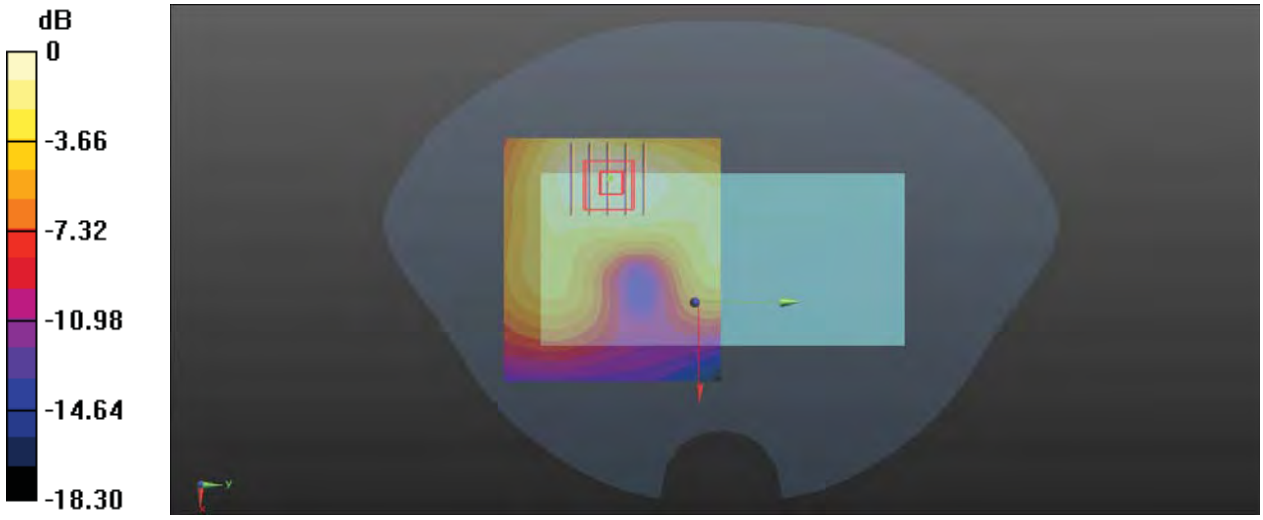
P47 LTE 38_QPSK20M_Rear Face_1.5cm_Ch38150_1RB_OS50_Ant6

Communication System: LTE_TDD; Frequency: 2610 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0415 Medium parameters used: f = 2610 MHz; σ = 1.994 S/m; ε_r = 39.396; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2610 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.412 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.87 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.529 W/kg
SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.163 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 52.9%
Maximum value of SAR (measured) = 0.404 W/kg



0 dB = 0.404 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

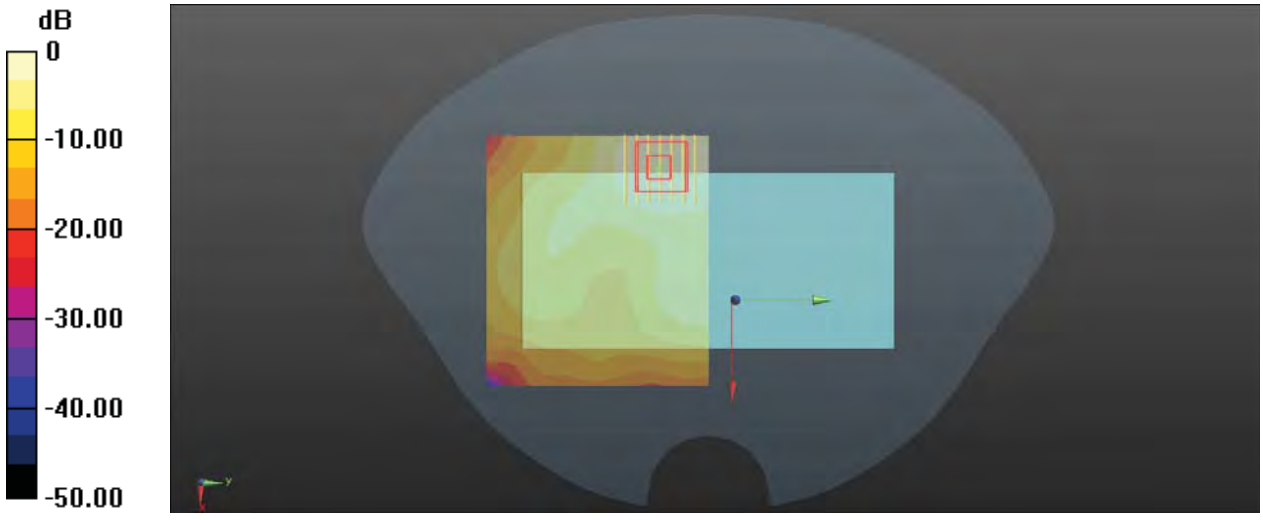
P48 LTE 41_QPSK20M_Front Face_1.5cm_Ch41490_1RB_OS0_Ant10

Communication System: LTE_TDD; Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0416 Medium parameters used: f = 2680 MHz; σ = 2 S/m; ε_r = 38.965; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV3 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2680 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM ; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.234 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.256 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.311 W/kg
SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.090 W/kg
Smallest distance from peaks to all points 3 dB below = 18 mm
Ratio of SAR at M2 to SAR at M1 = 51.3%
Maximum value of SAR (measured) = 0.235 W/kg



0 dB = 0.235 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

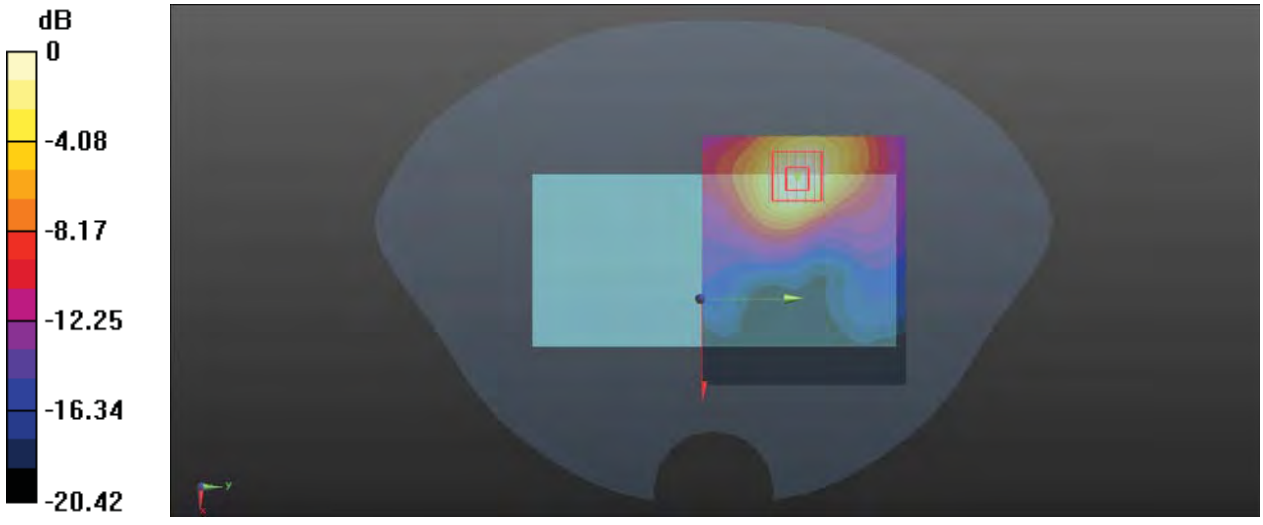
P49 LTE 42_QPSK20M_Rear Face_1.5cm_Ch42190_1RB_OS0_Ant11

Communication System: LTE_TDD; Frequency: 3460 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3460 MHz; σ = 2.785 S/m; ε_r = 39.736; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3460 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.54 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.927 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.374 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 71.3%
Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

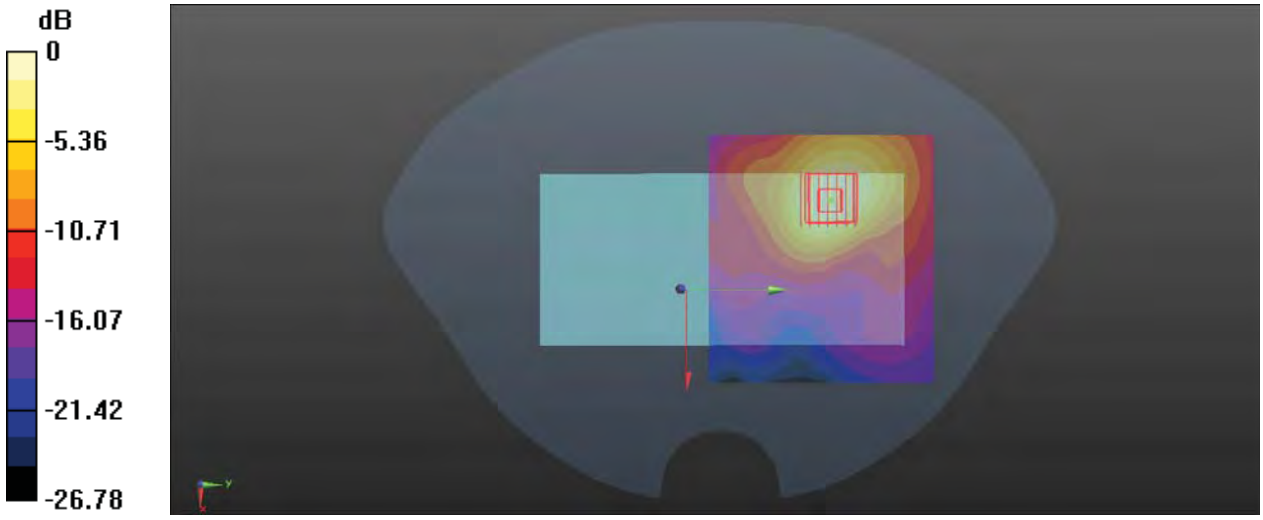
P50 LTE 48_QPSK20M_Rear Face_1.5cm_Ch55340_1RB_OS50_Ant11

Communication System: LTE_TDD; Frequency: 3560 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3560 MHz; σ = 2.881 S/m; ε_r = 39.583; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.70, 6.61, 6.72) @ 3560 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.858 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.654 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.227 W/kg
Smallest distance from peaks to all points 3 dB below = 11.4 mm
Ratio of SAR at M2 to SAR at M1 = 71.7%
Maximum value of SAR (measured) = 0.848 W/kg



0 dB = 0.848 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

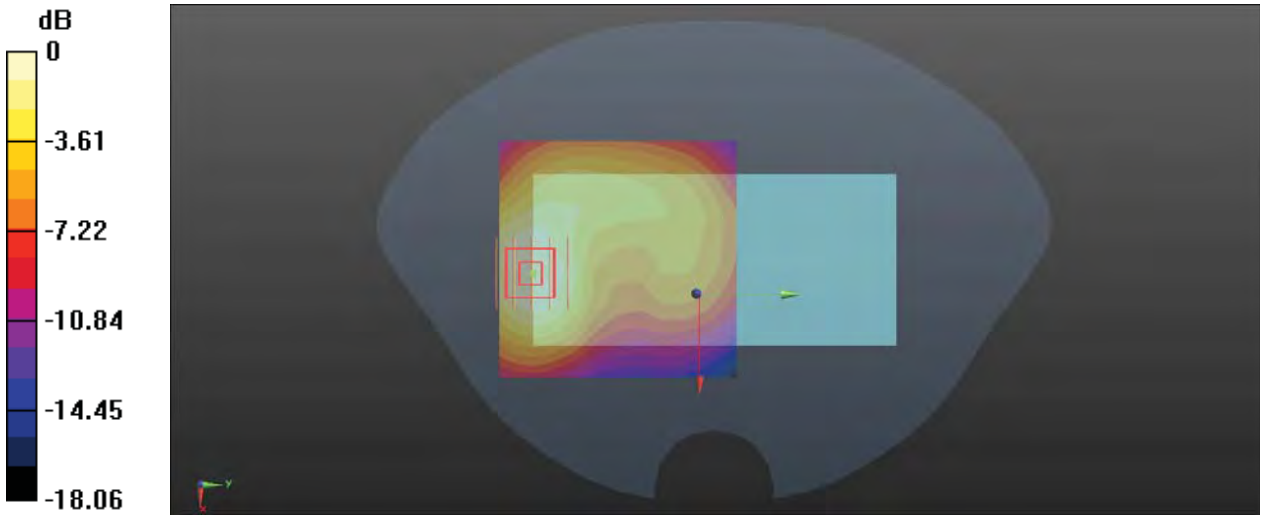
P51 LTE 66_QPSK20M_Rear Face_1.5cm_Ch132322_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1745 MHz; σ = 1.419 S/m; ε_r = 41.136; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1745 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.683 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.49 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.278 W/kg
Smallest distance from peaks to all points 3 dB below = 19.5 mm
Ratio of SAR at M2 to SAR at M1 = 62.1%
Maximum value of SAR (measured) = 0.600 W/kg



0 dB = 0.600 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

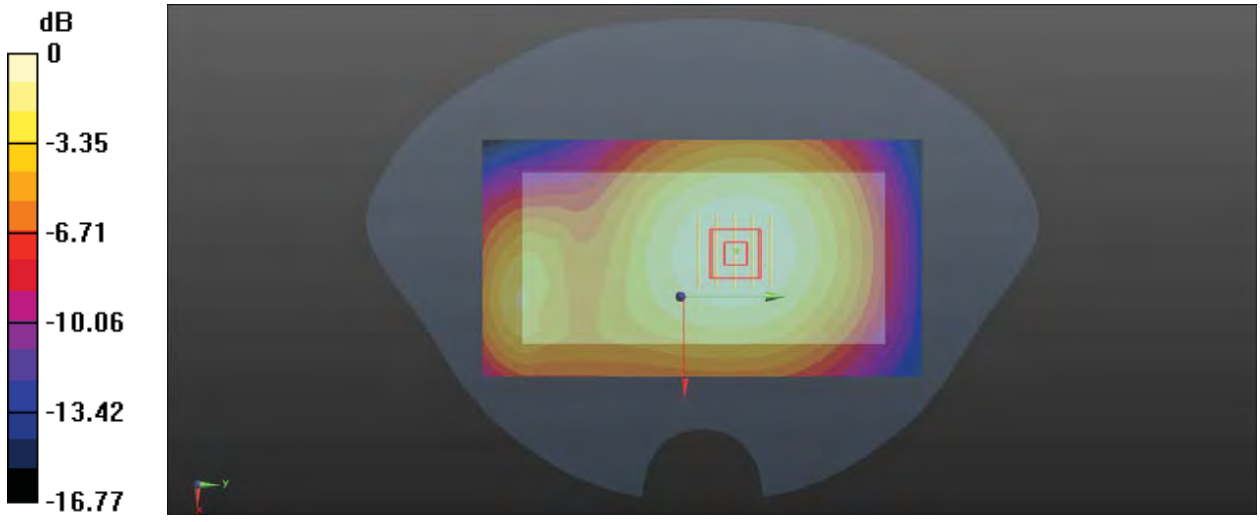
P52 LTE 71_QPSK20M_Rear Face_1.5cm_Ch133222_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 673 MHz; σ = 0.884 S/m; ε_r = 43.773; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.376 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.63 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.423 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.228 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 72.7%
Maximum value of SAR (measured) = 0.362 W/kg



0 dB = 0.362 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

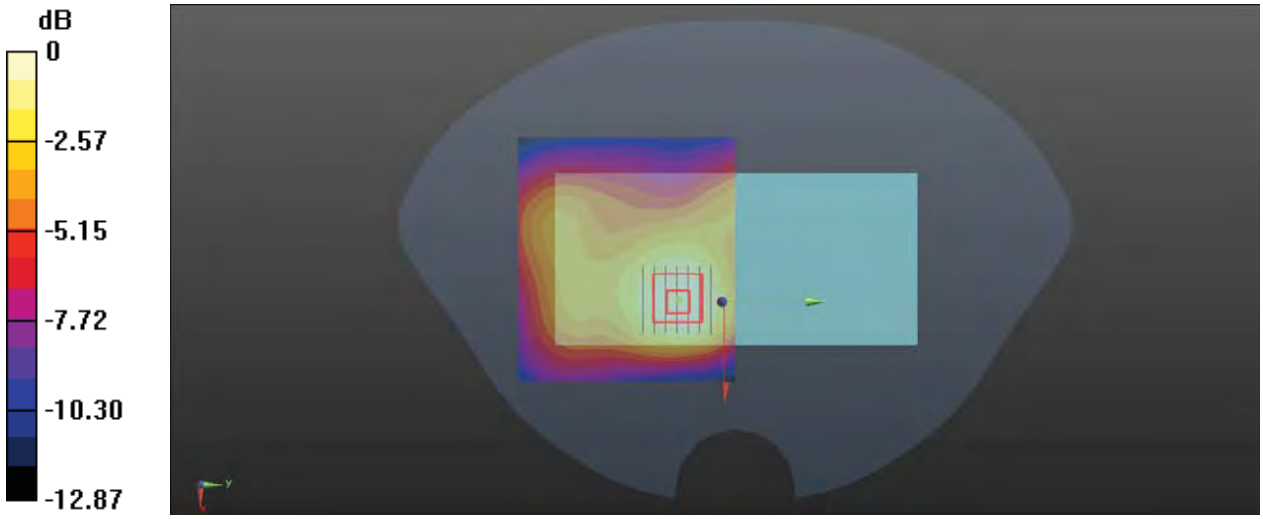
P53 N7_ENDC_QPSK25M SCS15KHz_Rear Face_1.5cm_Ch511500_1RB_OS1_Ant10

Communication System: NR; Frequency: 2557.5 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2557.5 MHz; σ = 1.902 S/m; ε_r = 39.163; ρ = 1000 kg/m^3
Ambient Temperature : 23.4℃; Liquid Temperature : 22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2557.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.592 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.31 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.879 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.279 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 54.5%
Maximum value of SAR (measured) = 0.590 W/kg



0 dB = 0.590 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

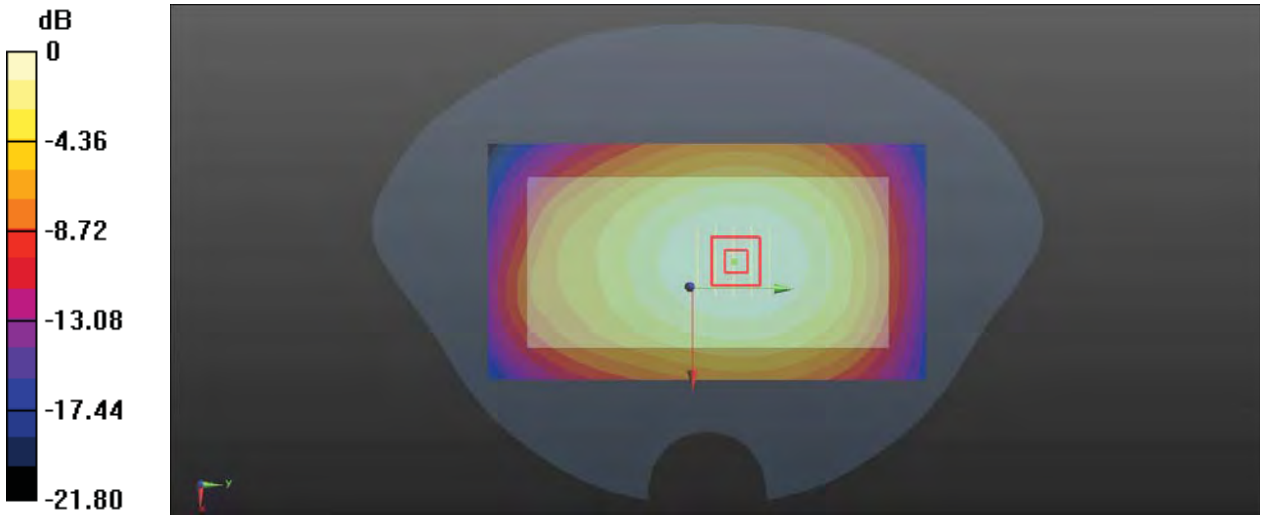
P54 N12_QPSK15M SCS15KHz_Rear Face_1.5cm_Ch141300_36RB_OS22_Ant0

Communication System: NR; Frequency: 706.5 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 706.5 MHz; σ = 0.897 S/m; ε_r = 43.293; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 706.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.393 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.90 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.448 W/kg
SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.264 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77%
Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.388 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

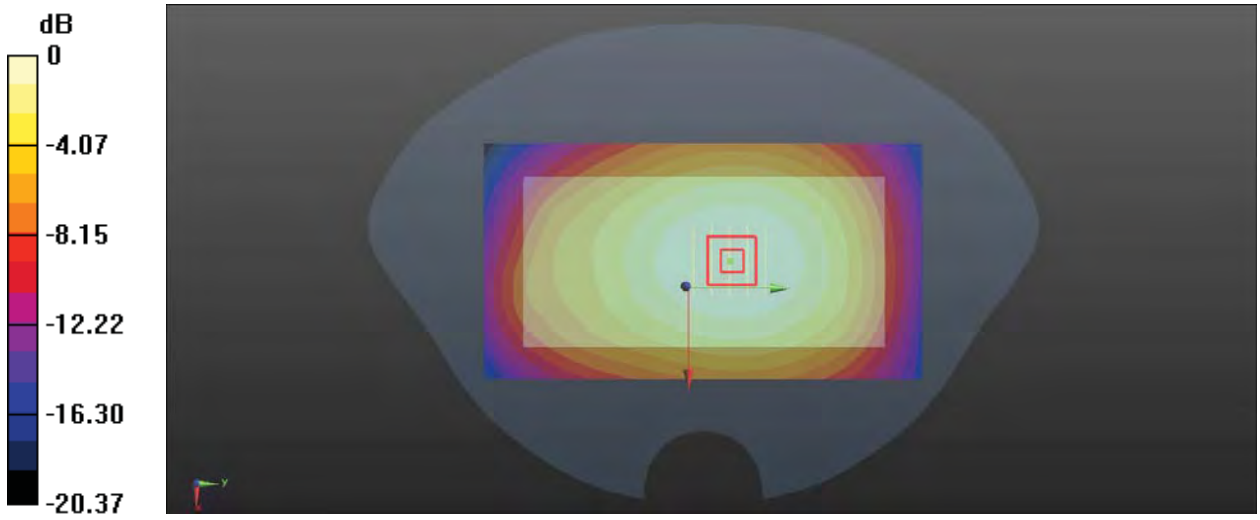
P55 N13_QPSK10M SCS15KHz_Rear Face_1.5cm_Ch156400_1RB_OS1_Ant0

Communication System: NR; Frequency: 756 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 756 MHz; σ = 0.912 S/m; ε_r = 43.128; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 756 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.217 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.34 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.256 W/kg
SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.149 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77%
Maximum value of SAR (measured) = 0.219 W/kg



0 dB = 0.219 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

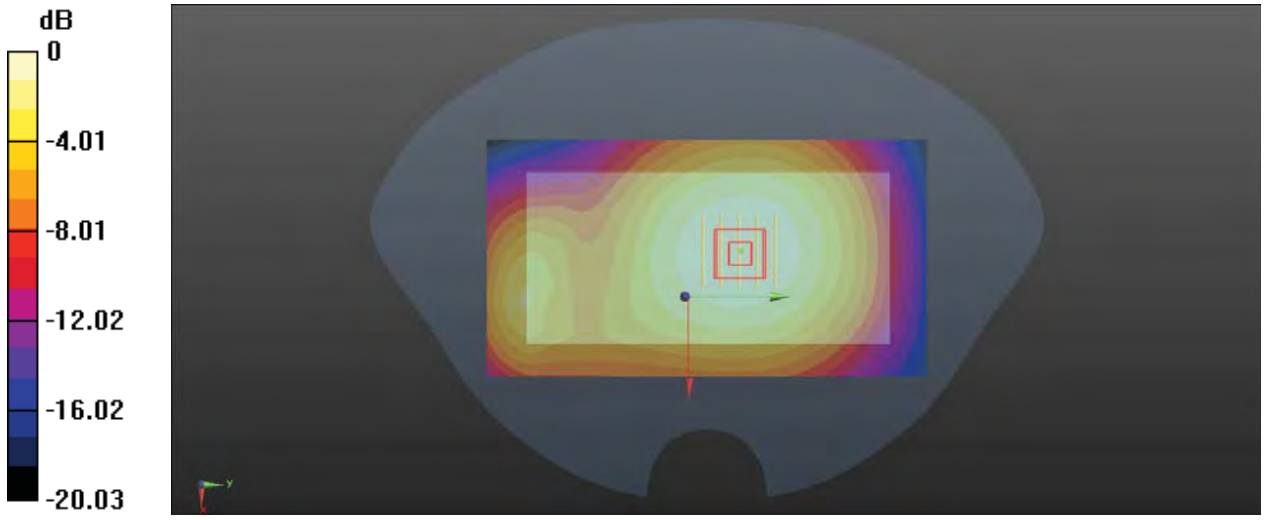
P56 N14_QPSK10M SCS15KHz_Rear Face_1.5cm_Ch158600_1RB_OS1_Ant0

Communication System: NR; Frequency: 758 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 758 MHz; σ = 0.912 S/m; ε_r = 43.123; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 758 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.186 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.05 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.214 W/kg
SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.125 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.9%
Maximum value of SAR (measured) = 0.185 W/kg



0 dB = 0.185 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

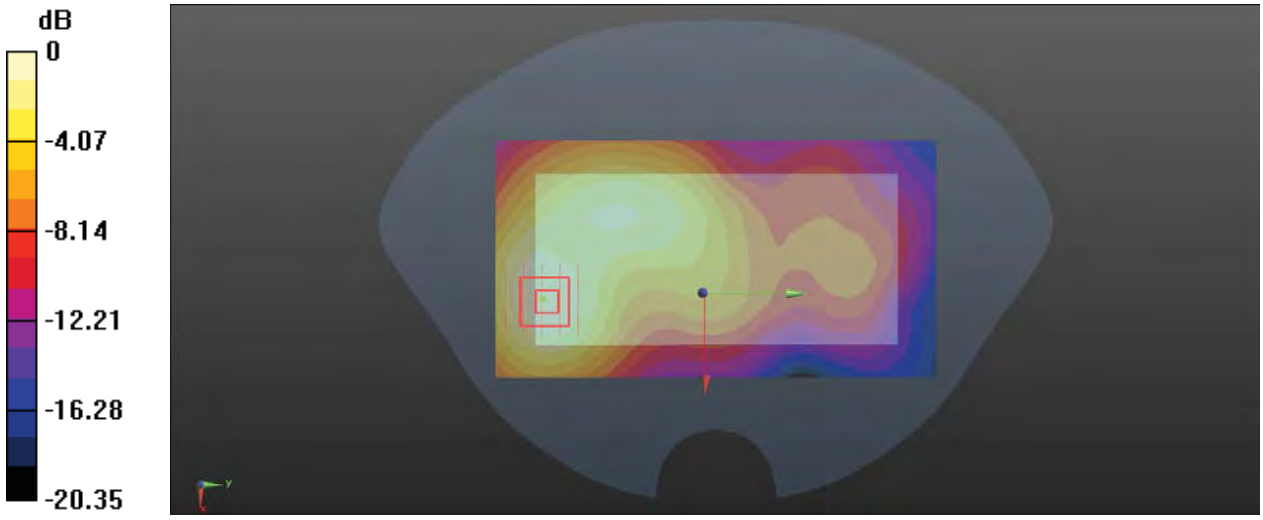
P57 N25_QPSK40M SCS15KHz_Rear Face_1.5cm_Ch374000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1870 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1870 MHz; σ = 1.416 S/m; ε_r = 39.019; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1870 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.287 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.513 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.384 W/kg
SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.14 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 60.6%
Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

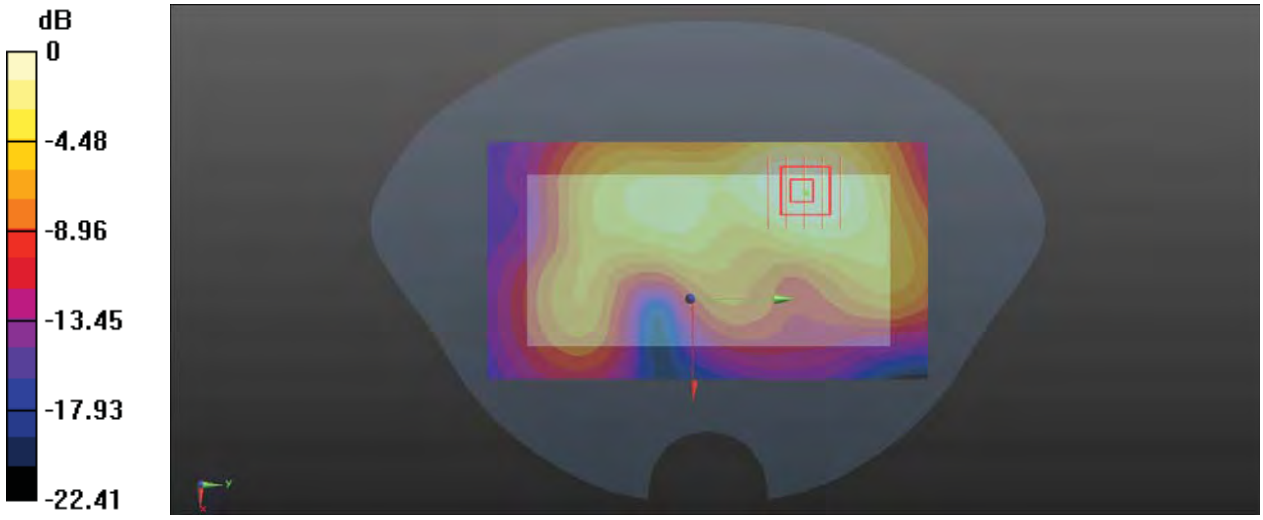
P58 N2_ENDC_QPSK40M SCS15KHz_Rear Face_1.5cm_Ch372000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1860 MHz; σ = 1.409 S/m; ε_r = 39.038; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.263 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.715 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.339 W/kg
SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.135 W/kg
Smallest distance from peaks to all points 3 dB below = 19.3 mm
Ratio of SAR at M2 to SAR at M1 = 63.9%
Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

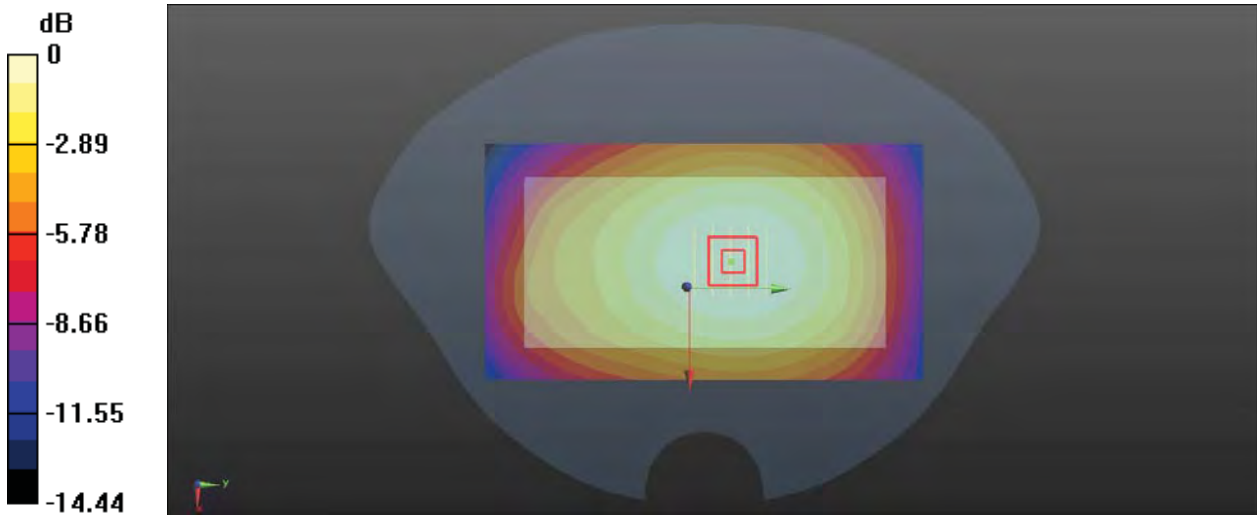
P59 N26_QPSK20M SCS15KHz_Rear Face_1cm_Ch167800_1RB_OS1_Ant0

Communication System: NR; Frequency: 839 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 839 MHz; σ = 0.939 S/m; ε_r = 43.272; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 839 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.263 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.42 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.13 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 74.7%
Maximum value of SAR (measured) = 0.269 W/kg



0 dB = 0.269 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

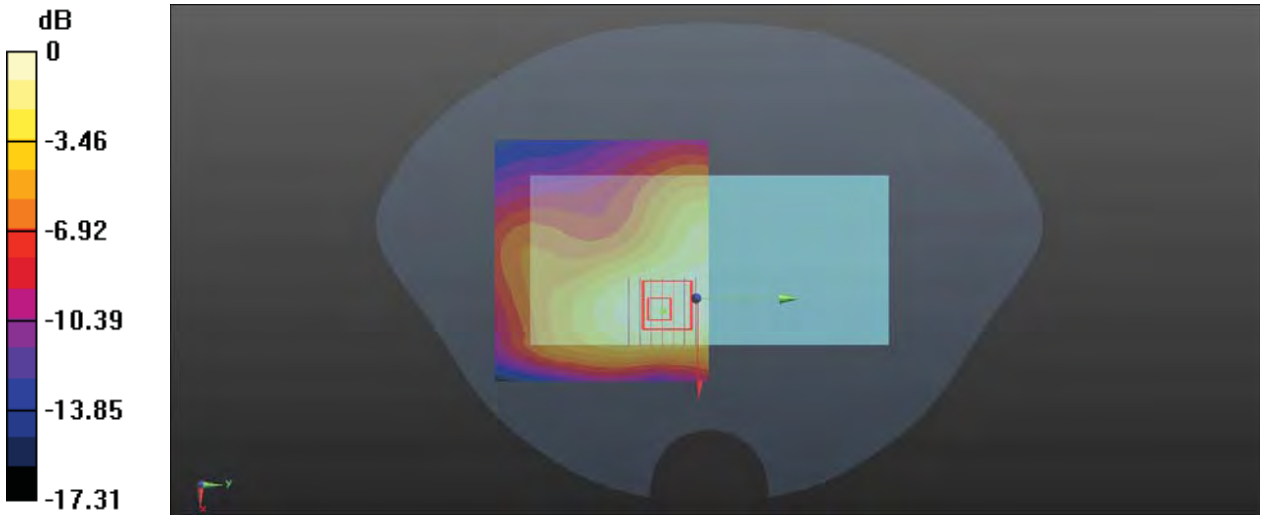
P60 N30_QPSK10M SCS15KHz_Rear Face_1.5cm_Ch462000_25RB_OS14_Ant10

Communication System: NR; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.236 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.604 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.340 W/kg
SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.116 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 56.7%
Maximum value of SAR (measured) = 0.238 W/kg



0 dB = 0.238 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/10

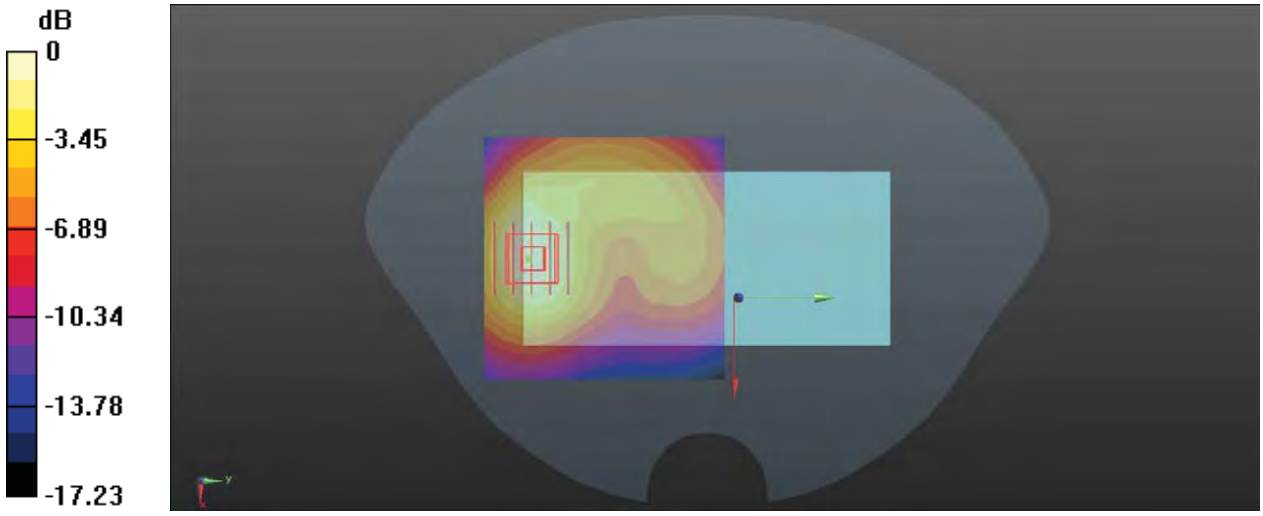
P61 N66_QPSK40M SCS15K_Rear Face_1.5cm_Ch346000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1730 MHz;Duty Cycle: 1:1
Medium: HSL1750_0410 Medium parameters used: f = 1730 MHz; σ = 1.365 S/m; ε_r = 40.905; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV3 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1730 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM ; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.480 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.01 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.602 W/kg
SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.226 W/kg
Smallest distance from peaks to all points 3 dB below = 17.6 mm
Ratio of SAR at M2 to SAR at M1 = 62.2%
Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

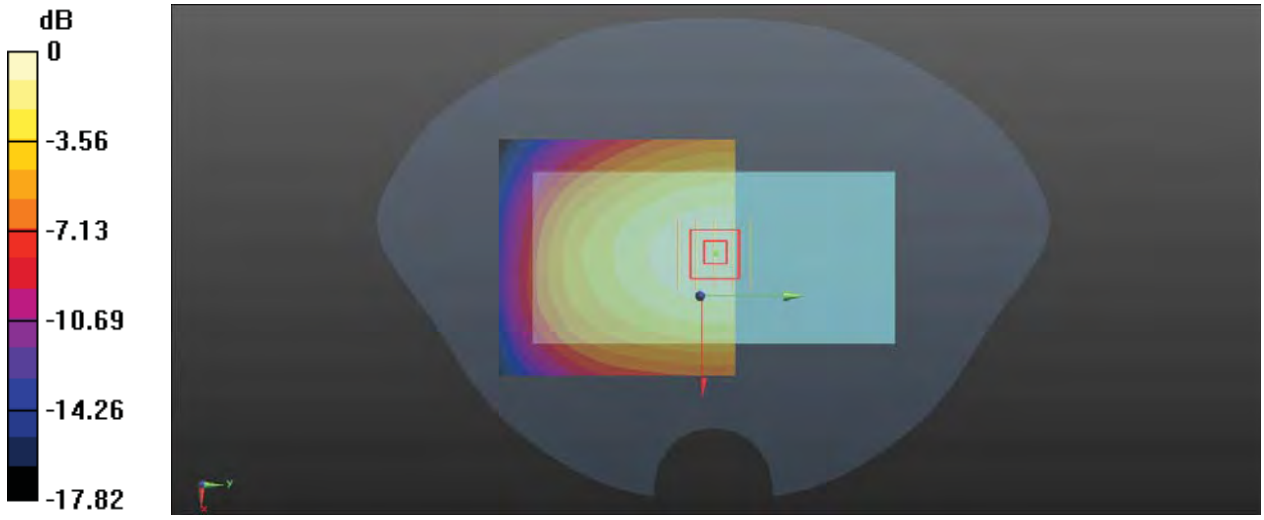
P62 N71_QPSK20M SCS15KHz_Rear Face_1.5cm_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 652 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 652 MHz; σ = 0.88 S/m; ε_r = 43.471; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 652 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.261 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.60 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.316 W/kg
SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.185 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.1%
Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.273 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

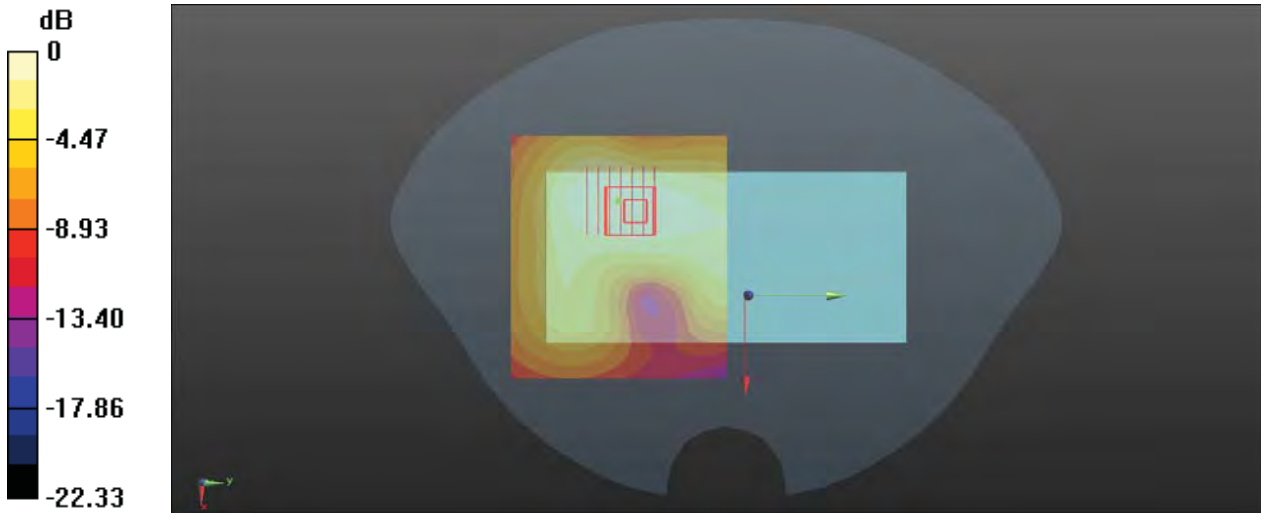
P63 N38_QPSK40M SCS30KHz_Rear Face_1.5cm_Ch520000_1RB_OS1_Ant6

Communication System: NR; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0415 Medium parameters used: f = 2600 MHz; σ = 1.986 S/m; ε_r = 39.41; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.499 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.66 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.741 W/kg
SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.215 W/kg
Smallest distance from peaks to all points 3 dB below = 19.2 mm
Ratio of SAR at M2 to SAR at M1 = 53.7%
Maximum value of SAR (measured) = 0.486 W/kg



0 dB = 0.486 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

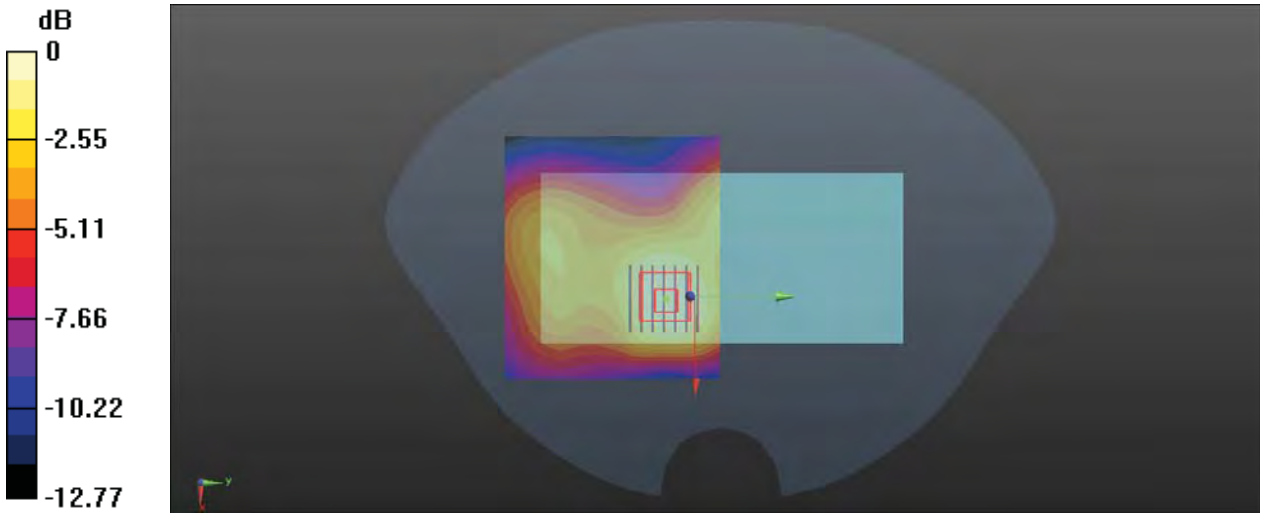
P64 N41_QPSK100M SCS30KHz_Rear Face_1.5cm_Ch528000_1RB_OS1_Ant10

Communication System: NR; Frequency: 2640 MHz;Duty Cycle: 1:1
Medium: HSL2600_0416 Medium parameters used: f = 2640 MHz; σ = 1.921 S/m; ε_r = 39.444; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2640 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

- **Area Scan (91x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.442 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.57 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.223 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 53.5%
Maximum value of SAR (measured) = 0.446 W/kg



0 dB = 0.446 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/10

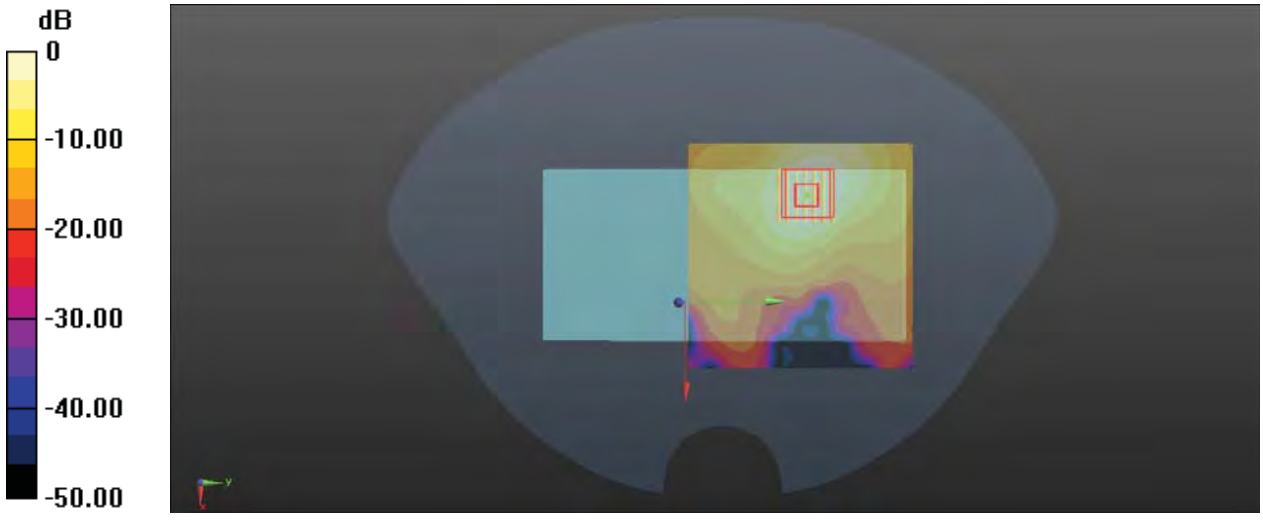
P65 N48_QPSK40M SCS30KHz_Rear Face_1.5cm_Ch638000_1RB_OS1_Ant11

Communication System: NR; Frequency: 3570 MHz;Duty Cycle: 1:1
Medium: HSL3500_0510 Medium parameters used: f = 3570 MHz; σ = 2.891 S/m; ε_r = 39.569; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.70, 6.61, 6.72) @ 3570 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.849 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.70 W/kg
SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.353 W/kg
Smallest distance from peaks to all points 3 dB below = 11.4 mm
Ratio of SAR at M2 to SAR at M1 = 71.6%
Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/09

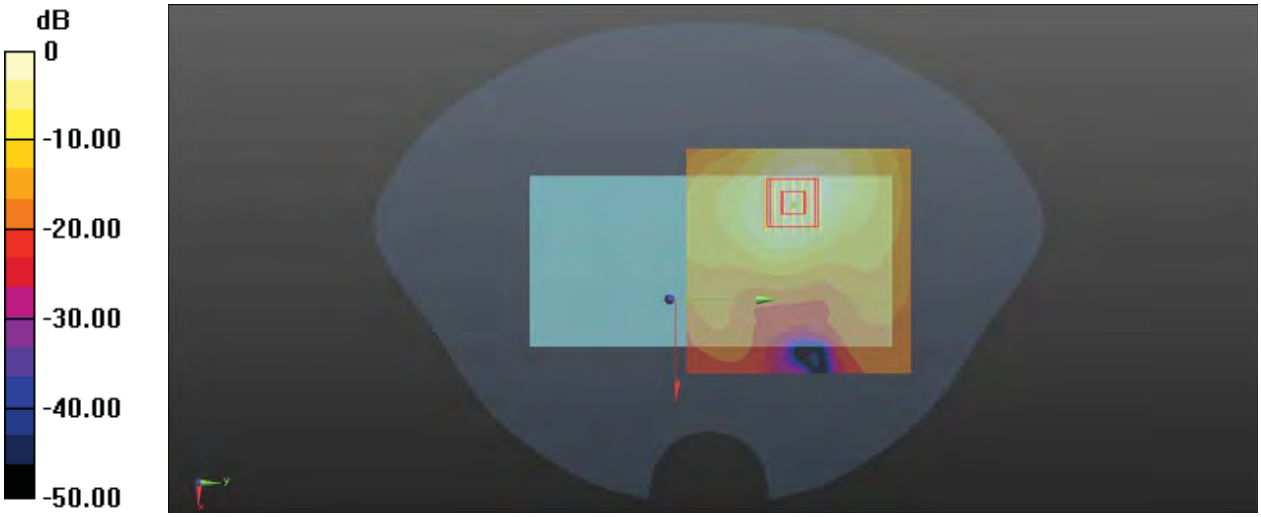
P66 N77_QPSK100M SCS30KHz_Rear Face_1.5cm_Ch633334_1RB_OS1_Ant11

Communication System: NR; Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500.01 MHz; σ = 2.821 S/m; ε_r = 39.678; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.70, 6.61, 6.72) @ 3500.01 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.575 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.329 W/kg
Smallest distance from peaks to all points 3 dB below = 11.8 mm
Ratio of SAR at M2 to SAR at M1 = 72.1%
Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

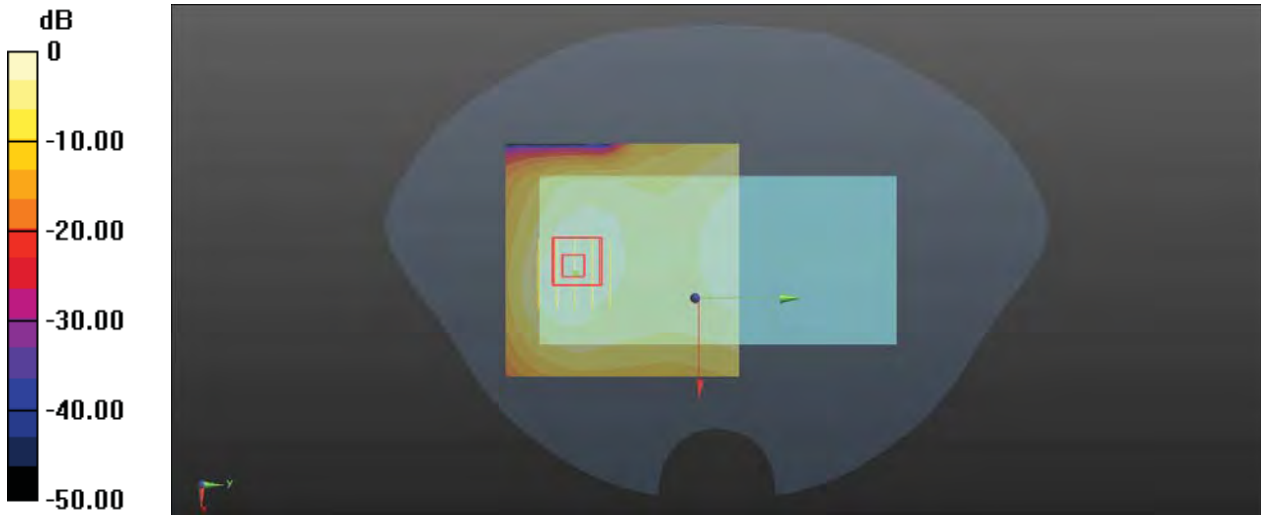
P67 GSM850_GPRS 2Tx Slot_Rear Face_1cm_Ch189_ANT0

Communication System: GPRS 2Tx Slot; Frequency: 836.4 MHz;Duty Cycle: 1:4.15
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.458 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.31 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.576 W/kg
SAR(1 g) = 0.338 W/kg; SAR(10 g) = 0.200 W/kg
Smallest distance from peaks to all points 3 dB below = 13.2 mm
Ratio of SAR at M2 to SAR at M1 = 58.7%
Maximum value of SAR (measured) = 0.449 W/kg



0 dB = 0.449 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

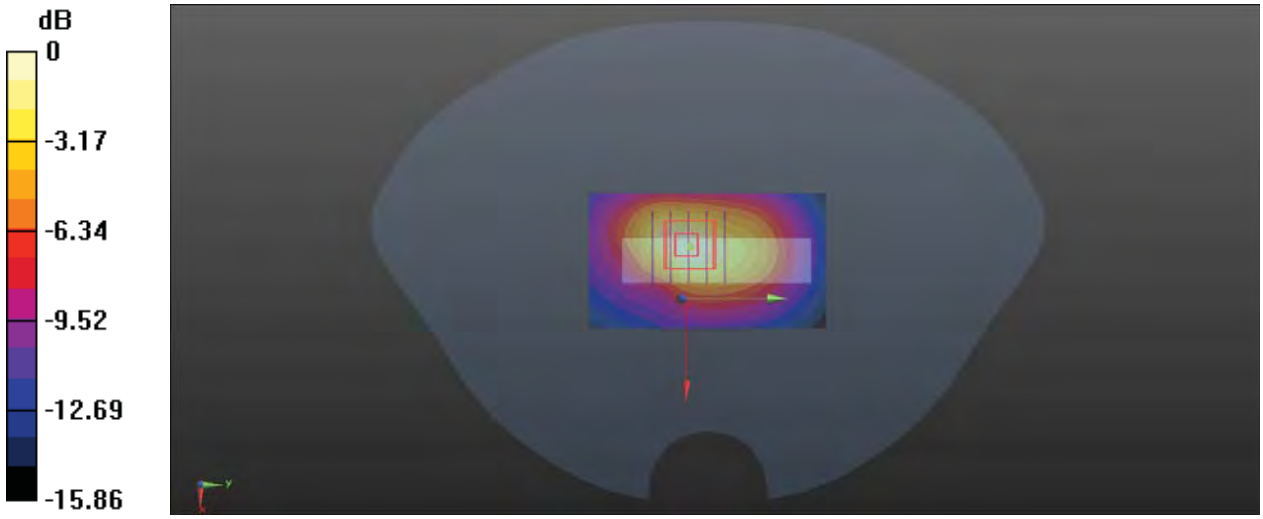
P68 GSM1900_GPRS 2Tx Slot_Bottom Side_1cm_Ch512_ANT0

Communication System: GPRS 2Tx Slot; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: HSL1900_0411 Medium parameters used: f = 1850.2 MHz; σ = 1.384 S/m; ε_r = 40.475; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1850.2 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.533 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.49 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.704 W/kg
SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.215 W/kg
Smallest distance from peaks to all points 3 dB below = 10.7 mm
Ratio of SAR at M2 to SAR at M1 = 57.8%
Maximum value of SAR (measured) = 0.552 W/kg



0 dB = 0.552 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

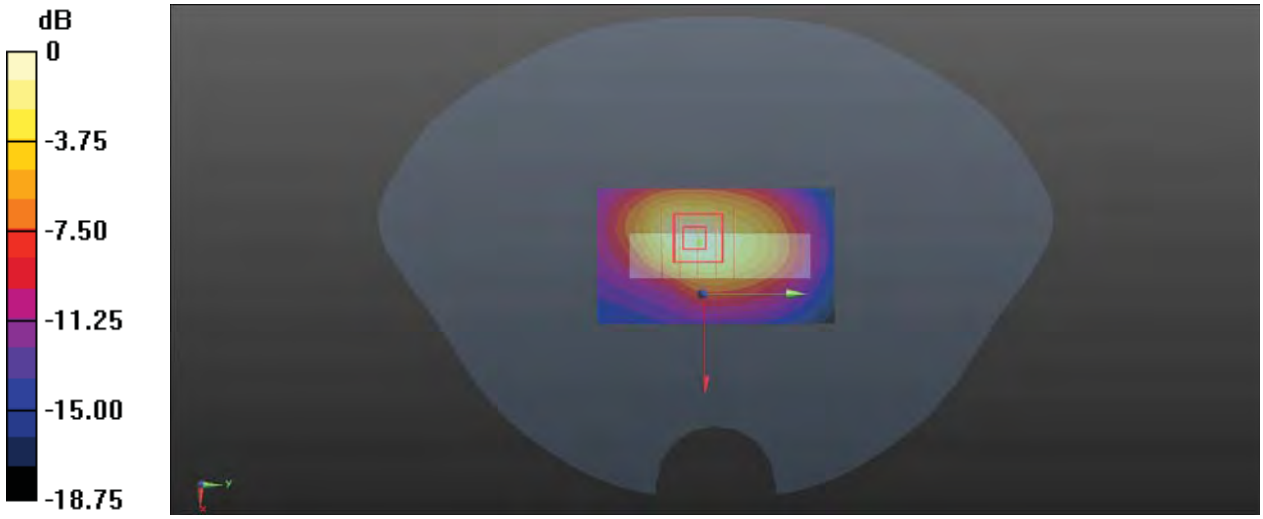
P69 WCDMA II_RMC12.2K_Bottom Side_1cm_Ch9262_ANT0

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1852.4 MHz; σ = 1.385 S/m; ε_r = 40.472; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1852.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.824 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.87 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.333 W/kg
Smallest distance from peaks to all points 3 dB below = 11.5 mm
Ratio of SAR at M2 to SAR at M1 = 60.6%
Maximum value of SAR (measured) = 0.810 W/kg



0 dB = 0.810 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

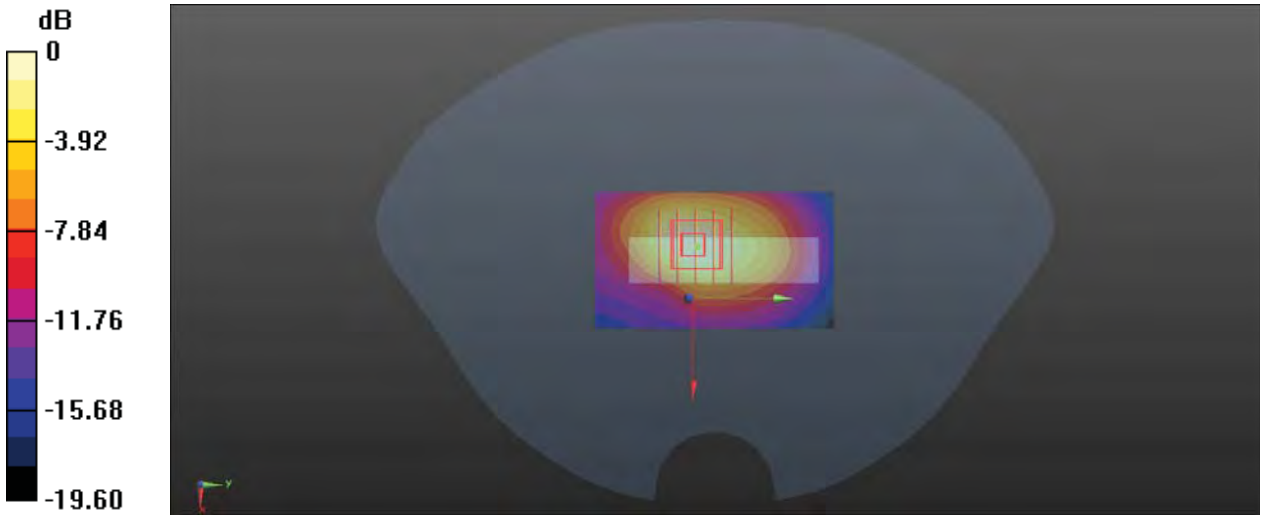
P70 WCDMA IV_RMC12.2K_Bottom Side_1cm_Ch1413_ANT0

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1733 MHz; σ = 1.41 S/m; ε_r = 41.145; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1732.6 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.809 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.51 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.990 W/kg
SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.328 W/kg
Smallest distance from peaks to all points 3 dB below = 12.2 mm
Ratio of SAR at M2 to SAR at M1 = 61.5%
Maximum value of SAR (measured) = 0.794 W/kg



0 dB = 0.794 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

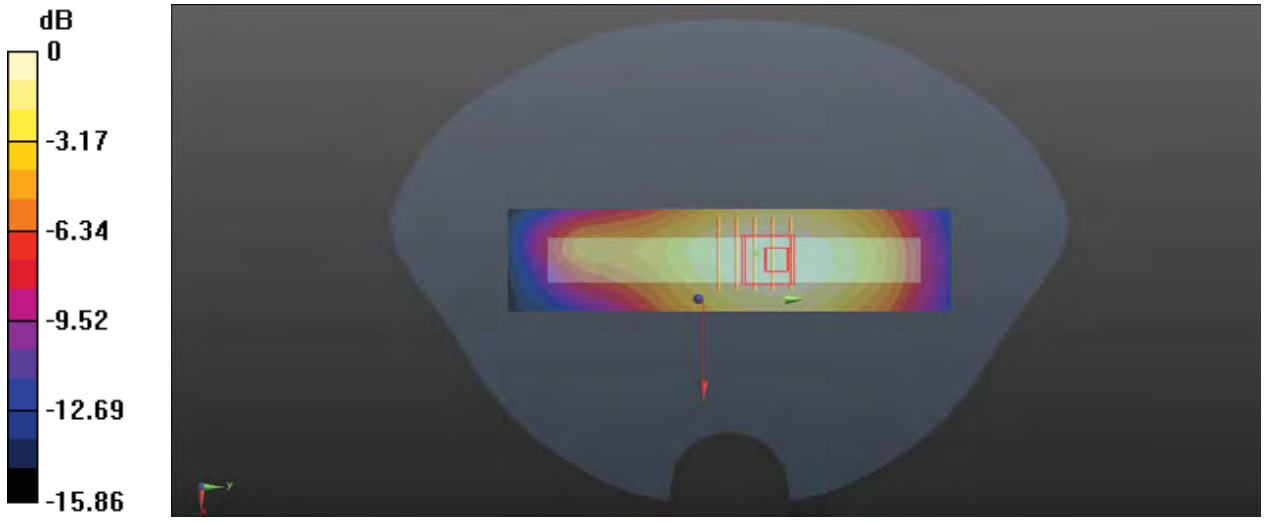
P71 WCDMA V_RMC12.2K_Left Side_1cm_Ch4182_ANT0

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 836.4 MHz; σ = 0.938 S/m; ε_r = 43.297; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.4 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (31x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.352 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.05 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.185 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 72.2%
Maximum value of SAR (measured) = 0.335 W/kg



0 dB = 0.335 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

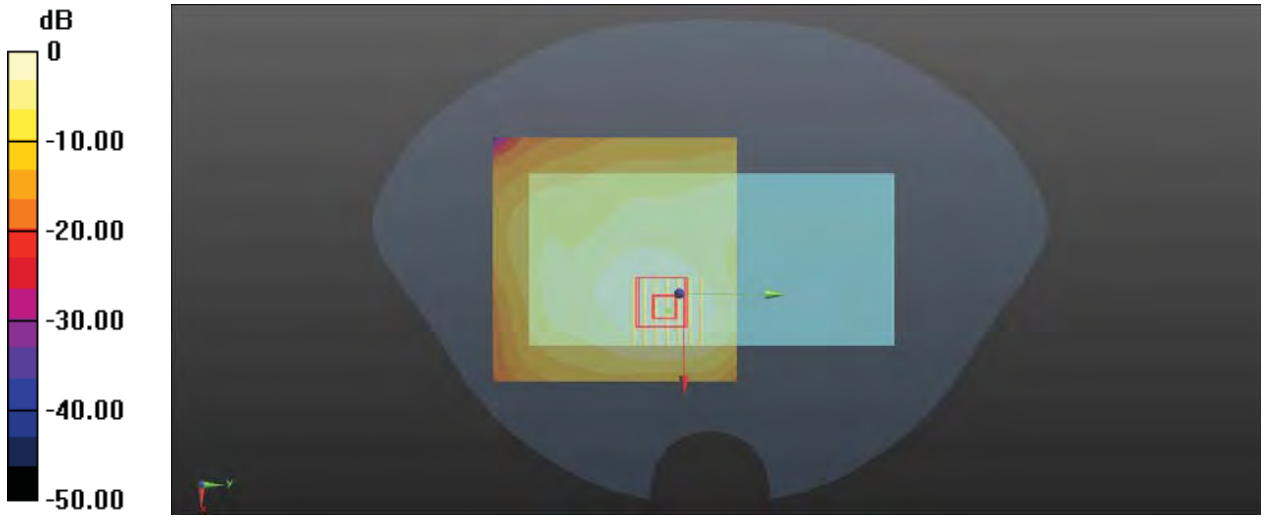
P72 LTE 7_ENDC_QPSK20M_Rear Face_1cm_Ch21100_1RB_OS99_Ant10

Communication System: LTE_FDD; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2535 MHz; σ = 1.884 S/m; ε_r = 39.182; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2535 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.552 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.474 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.725 W/kg
SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.224 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 53.3%
Maximum value of SAR (measured) = 0.557 W/kg



0 dB = 0.557 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

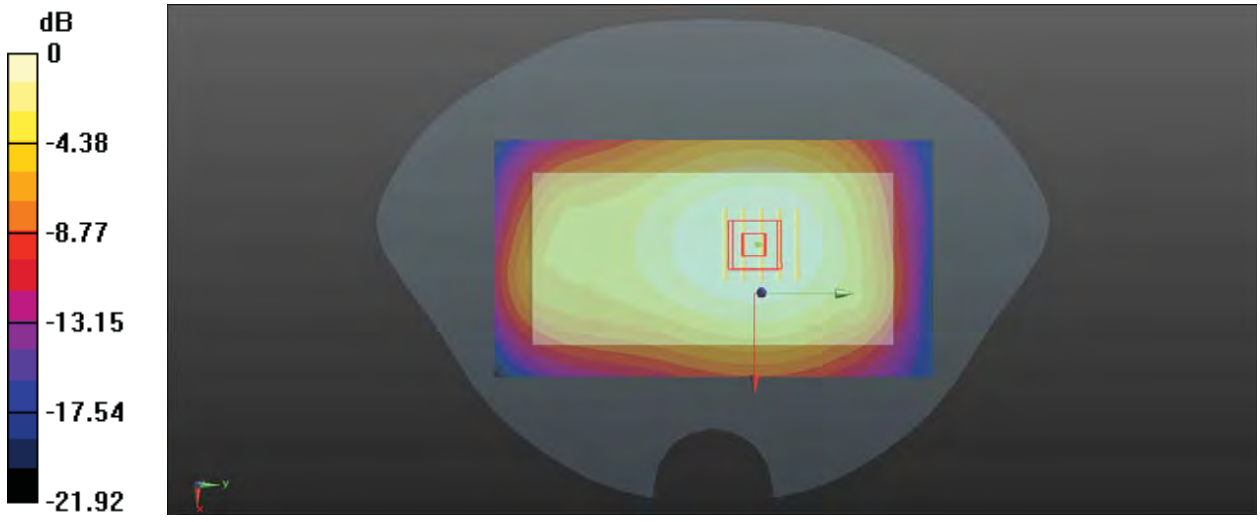
P73 LTE 12_QPSK10M_Rear Face_1cm_Ch23060_1RB_OS49_Ant0

Communication System: LTE_FDD; Frequency: 704 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 704 MHz; σ = 0.896 S/m; ε_r = 43.693; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 704 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.420 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.11 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.276 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.3%
Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.424 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

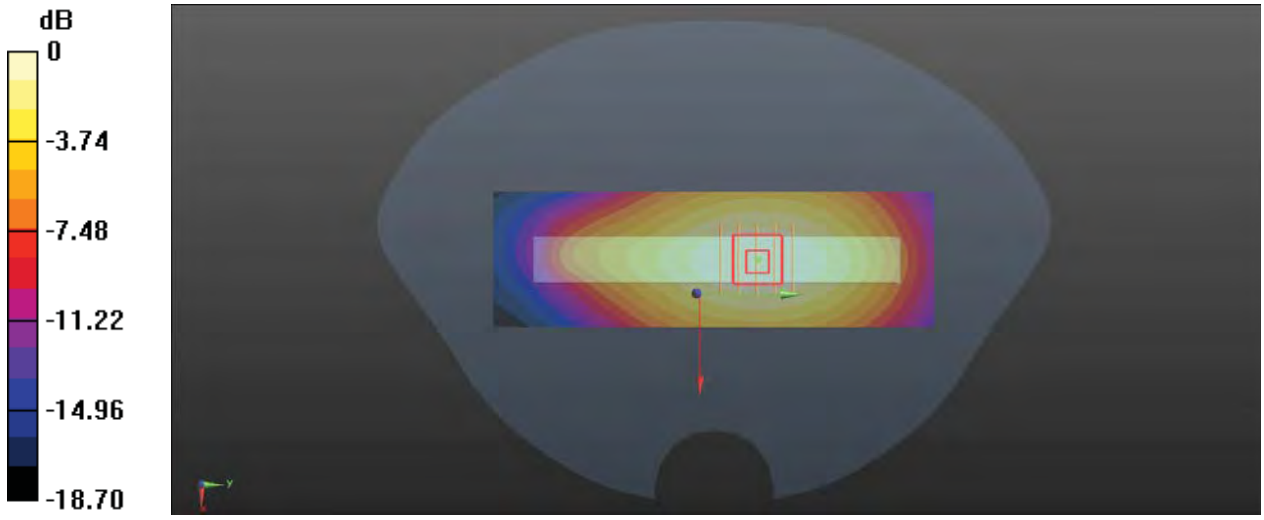
P74 LTE 13_QPSK10M_Left Side_1cm_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 782 MHz; σ = 0.924 S/m; ε_r = 43.444; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.401 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.58 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.501 W/kg
SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.218 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 64.9%
Maximum value of SAR (measured) = 0.404 W/kg



0 dB = 0.404 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

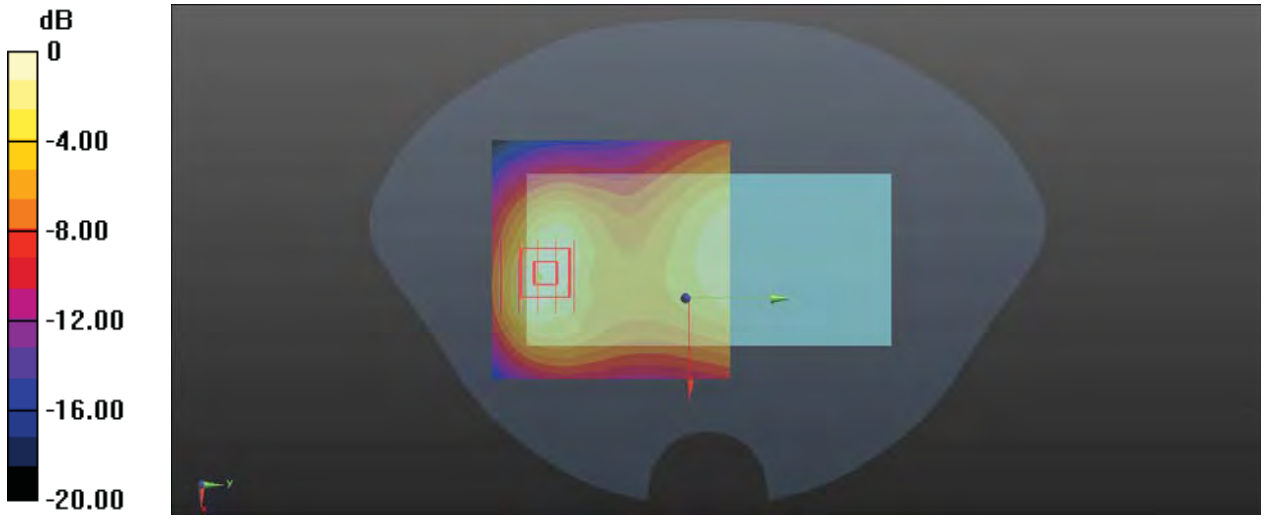
P75 LTE 14_QPSK10M_Rear Face_1cm_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 793 MHz; σ = 0.929 S/m; ε_r = 43.443; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.368 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.37 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.514 W/kg
SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.164 W/kg
Smallest distance from peaks to all points 3 dB below = 11.6 mm
Ratio of SAR at M2 to SAR at M1 = 56.8%
Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.393 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

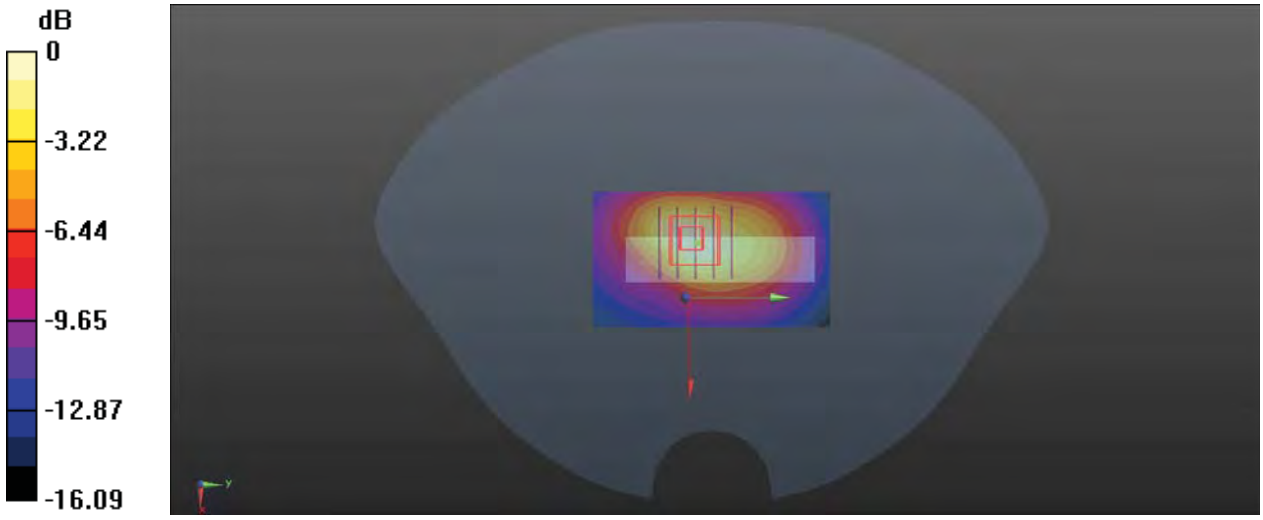
P76 LTE 25_QPSK20M_Bottom Side_1cm_Ch26340_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1880 MHz; σ = 1.424 S/m; ε_r = 39.007; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.920 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.77 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.347 W/kg
Smallest distance from peaks to all points 3 dB below = 10.7 mm
Ratio of SAR at M2 to SAR at M1 = 57.9%
Maximum value of SAR (measured) = 0.908 W/kg



0 dB = 0.908 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/11

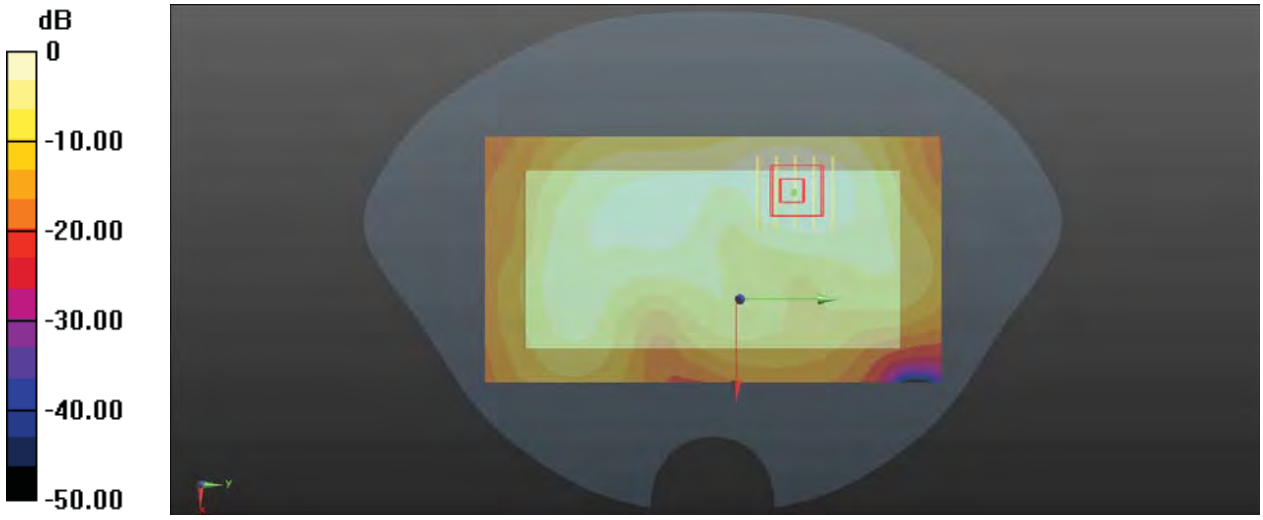
P77 LTE 2_QPSK20M_Rear Face_1cm_Ch18700_1RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0411 Medium parameters used: f = 1860 MHz; σ = 1.389 S/m; ε_r = 40.462; ρ = 1000 kg/m^3
Ambient Temperature：23.6℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV3 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM ; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.464 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.365 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.554 W/kg
SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.213 W/kg
Smallest distance from peaks to all points 3 dB below = 15.8 mm
Ratio of SAR at M2 to SAR at M1 = 63.9%
Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

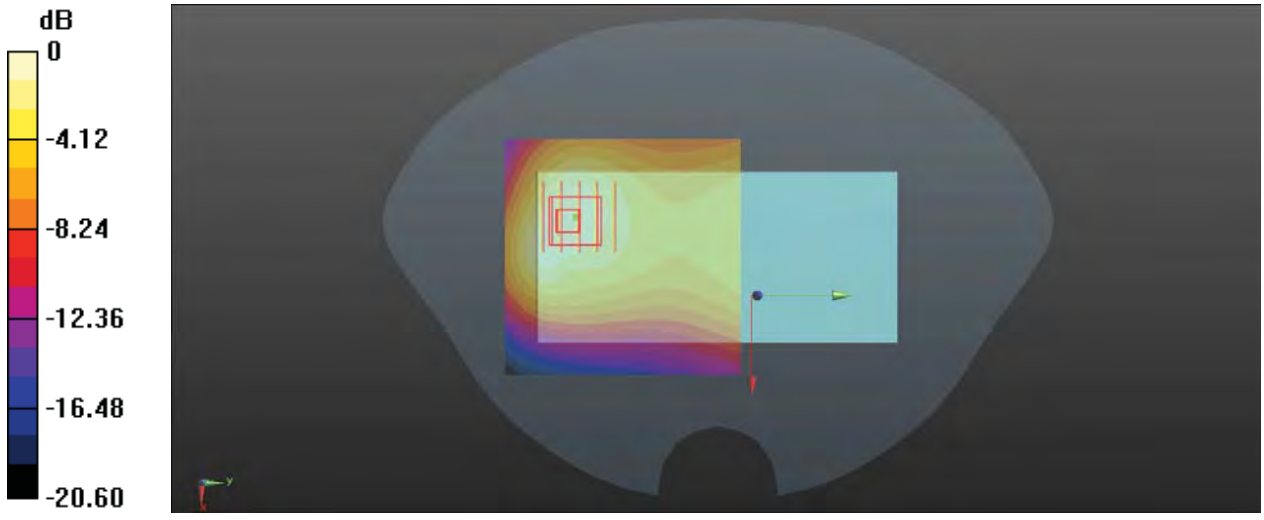
P78 LTE 26_QPSK15M_Rear Face_1cm_Ch26765_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 821.5 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 821.5 MHz; σ = 0.933 S/m; ε_r = 43.414; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 821.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.363 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.72 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.459 W/kg
SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.177 W/kg
Smallest distance from peaks to all points 3 dB below = 14.8 mm
Ratio of SAR at M2 to SAR at M1 = 60.3%
Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

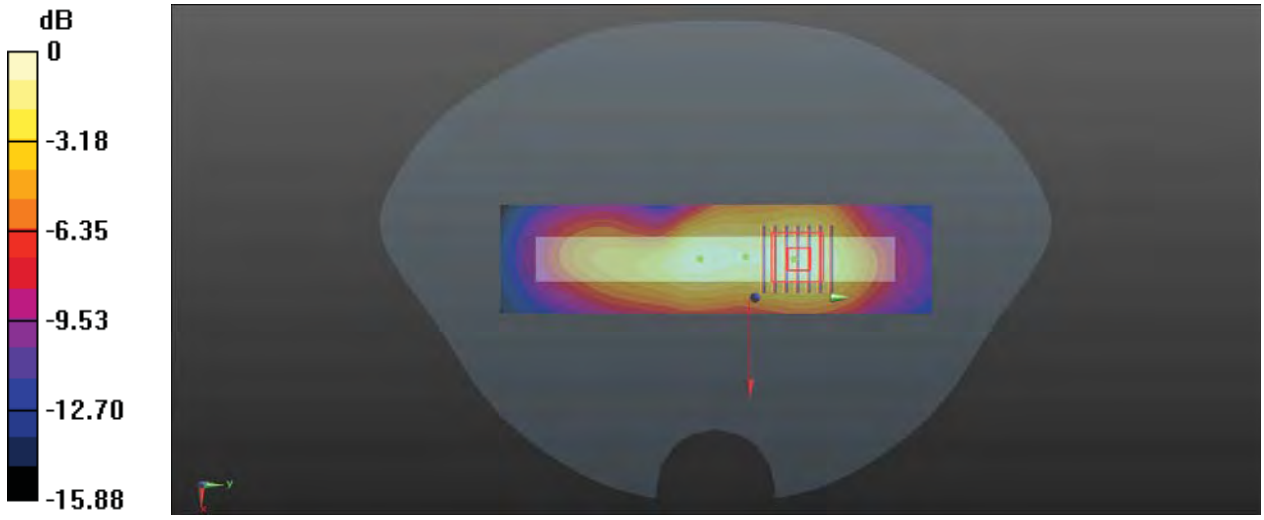
P79 LTE 30_QPSK10M_Left Side_1cm_Ch27710_1RB_OS24_Ant10

Communication System: LTE_FDD; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.618 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.14 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.811 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.266 W/kg
Smallest distance from peaks to all points 3 dB below = 16.2 mm
Ratio of SAR at M2 to SAR at M1 = 56.8%
Maximum value of SAR (measured) = 0.633 W/kg



0 dB = 0.633 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

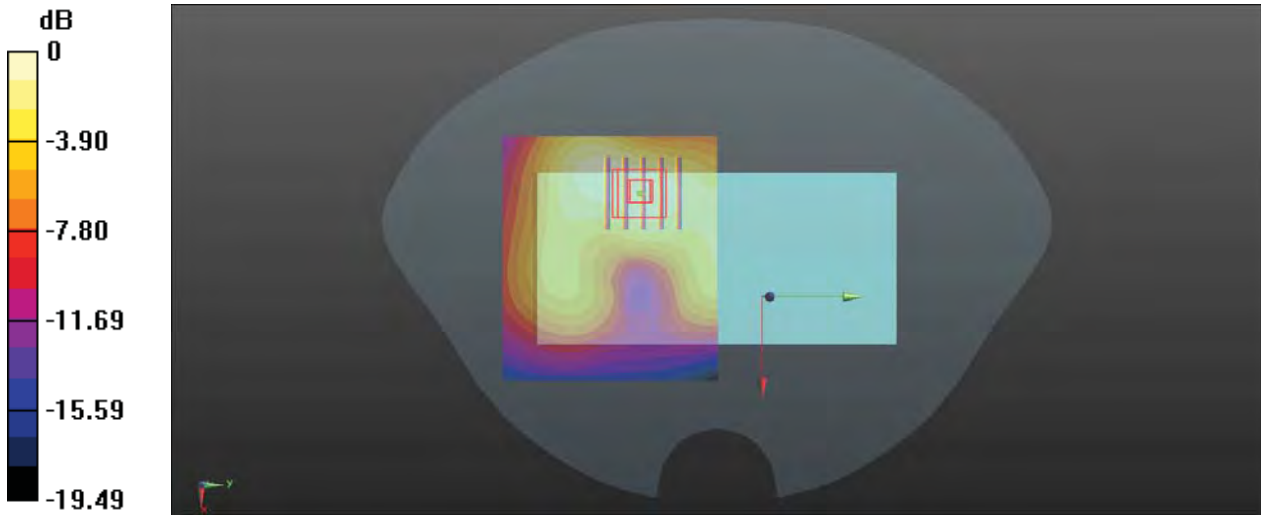
P80 LTE 38_QPSK20M_Rear Face_1cm_Ch38150_1RB_OS50_Ant6

Communication System: LTE_TDD; Frequency: 2610 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0415 Medium parameters used: f = 2610 MHz; σ = 1.994 S/m; ε_r = 39.396; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2610 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.642 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.54 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.834 W/kg
SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.242 W/kg
Smallest distance from peaks to all points 3 dB below = 15.8 mm
Ratio of SAR at M2 to SAR at M1 = 52.8%
Maximum value of SAR (measured) = 0.630 W/kg



0 dB = 0.630 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

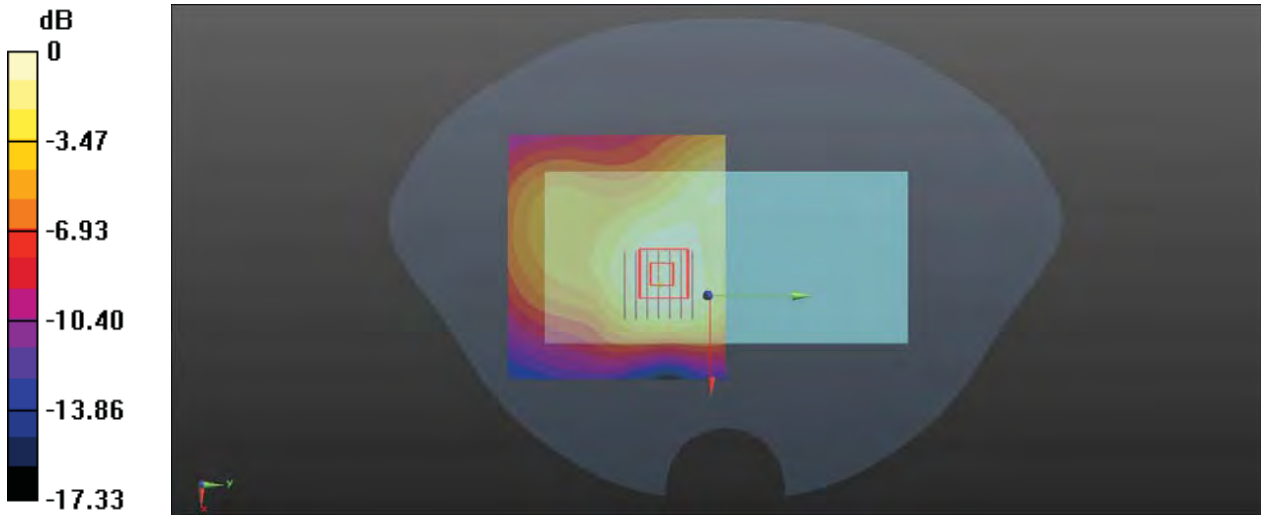
P81 LTE 41_QPSK20M_Rear Face_1cm_Ch41490_1RB_OS0_Ant10

Communication System: LTE_TDD; Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: HSL2600_0416 Medium parameters used: f = 2680 MHz; σ = 1.947 S/m; ε_r = 39.375; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2680 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.409 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.78 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.537 W/kg
SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.164 W/kg
Smallest distance from peaks to all points 3 dB below = 19.2 mm
Ratio of SAR at M2 to SAR at M1 = 50.7%
Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.206 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

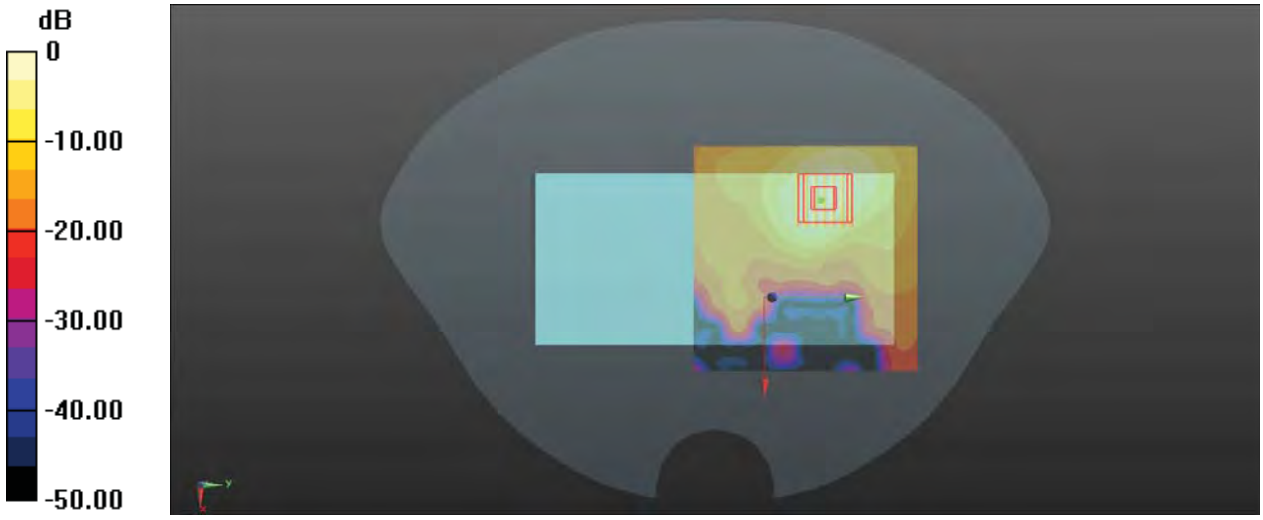
P82 LTE 42_QPSK20M_Rear Face_1cm_Ch42590_1RB_OS0_Ant11

Communication System: LTE_TDD; Frequency: 3500 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3500 MHz; σ = 2.821 S/m; ε_r = 39.678; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.485 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.125 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.693 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.131 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 71.3%
Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/10

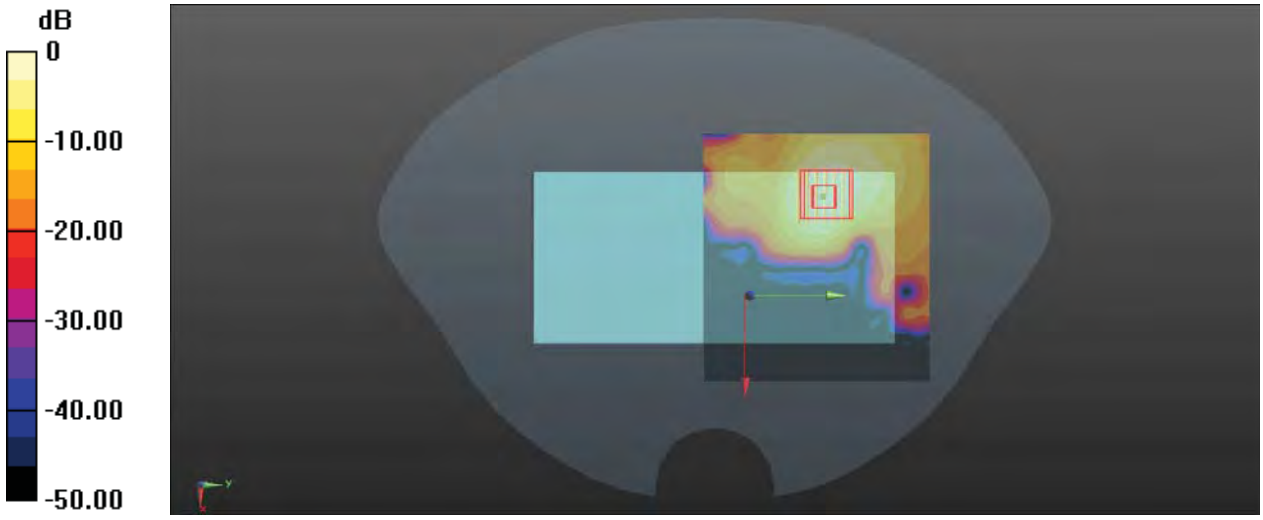
P83 LTE 48_QPSK20M_Rear Face_1cm_Ch56640_1RB_OS50_Ant11

Communication System: LTE_TDD; Frequency: 3690 MHz;Duty Cycle: 1:1.59
Medium: HSL3700_0510 Medium parameters used: f = 3690 MHz; σ = 3.002 S/m; ε_r = 39.374; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.5℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3690 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.391 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.721 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.521 W/kg
SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.100 W/kg
Smallest distance from peaks to all points 3 dB below = 10.2 mm
Ratio of SAR at M2 to SAR at M1 = 71.6%
Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

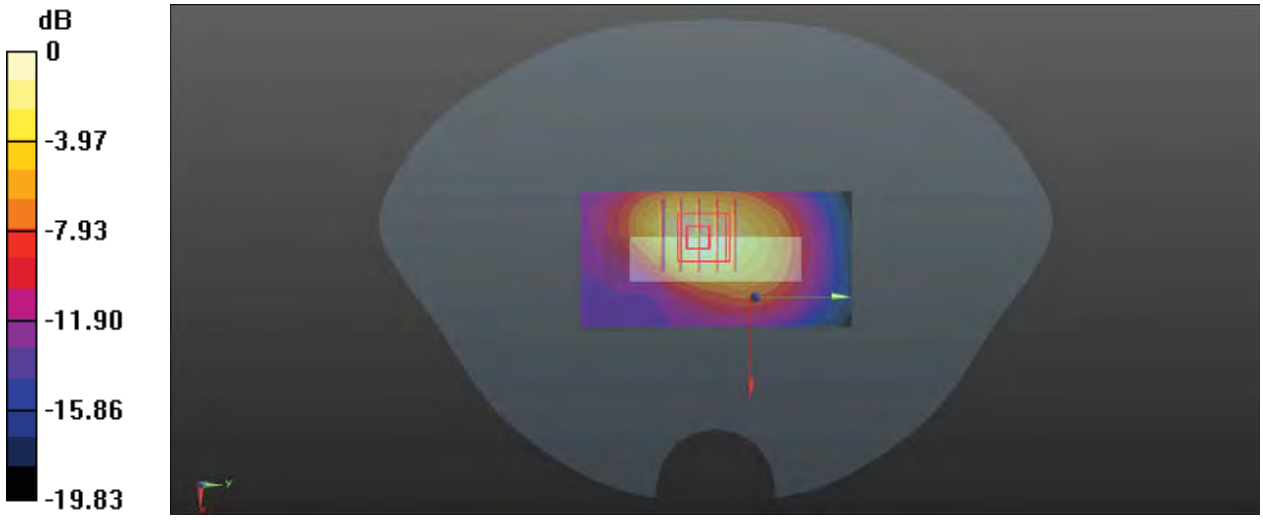
P84 LTE 66_QPSK20M_Bottom Side_1cm_Ch132322_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1745 MHz; σ = 1.419 S/m; ε_r = 41.136; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1745 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.736 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.60 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.905 W/kg
SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.297 W/kg
Smallest distance from peaks to all points 3 dB below = 11.3 mm
Ratio of SAR at M2 to SAR at M1 = 60.1%
Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/06

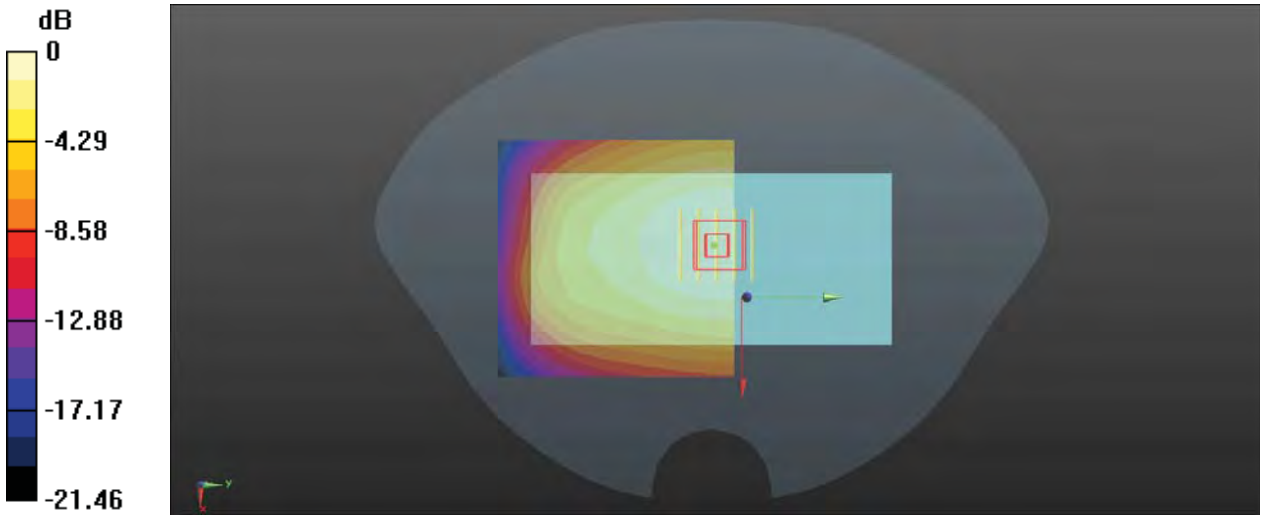
P85 LTE 71_QPSK20M_Rear Face_1cm_Ch133222_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz;Duty Cycle: 1:1
Medium: HSL750_0406 Medium parameters used: f = 673 MHz; σ = 0.884 S/m; ε_r = 43.773; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.429 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.12 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.274 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.1%
Maximum value of SAR (measured) = 0.423 W/kg



0 dB = 0.423 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/14

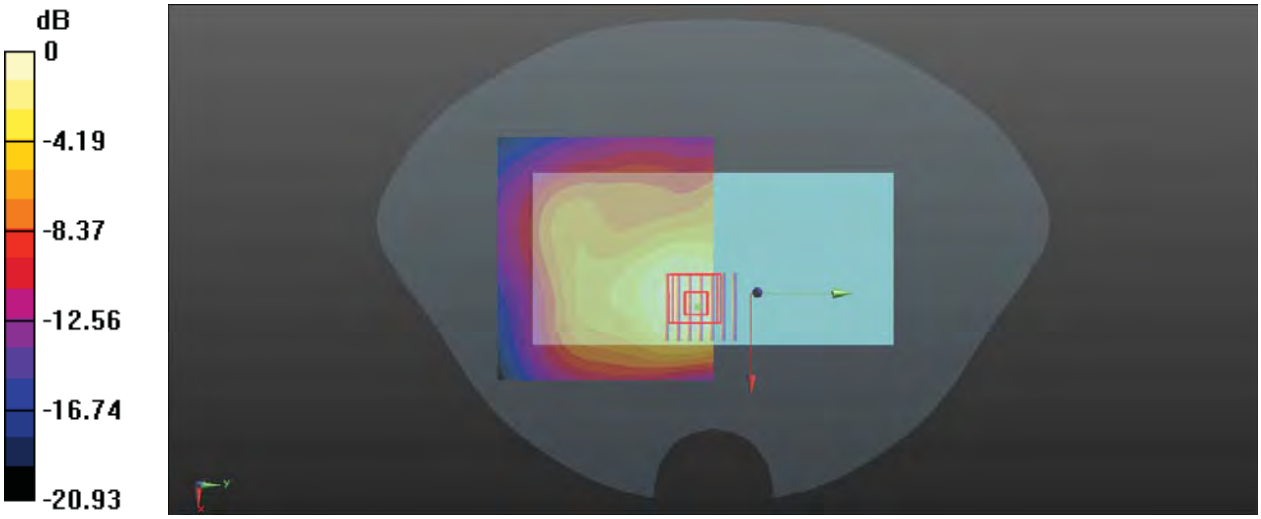
P86 N7_ENDC_QPSK25M SCS15KHz_Rear Face_1cm_Ch511500_1RB_OS1_Ant10

Communication System: NR; Frequency: 2557.5 MHz;Duty Cycle: 1:1
Medium: HSL2600_0414 Medium parameters used: f = 2557.5 MHz; σ = 1.902 S/m; ε_r = 39.163; ρ = 1000 kg/m^3
Ambient Temperature : 23.4℃; Liquid Temperature : 22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2557.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.655 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.21 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.854 W/kg
SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.263 W/kg
Smallest distance from peaks to all points 3 dB below = 15.8 mm
Ratio of SAR at M2 to SAR at M1 = 53.1%
Maximum value of SAR (measured) = 0.661 W/kg



0 dB = 0.661 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

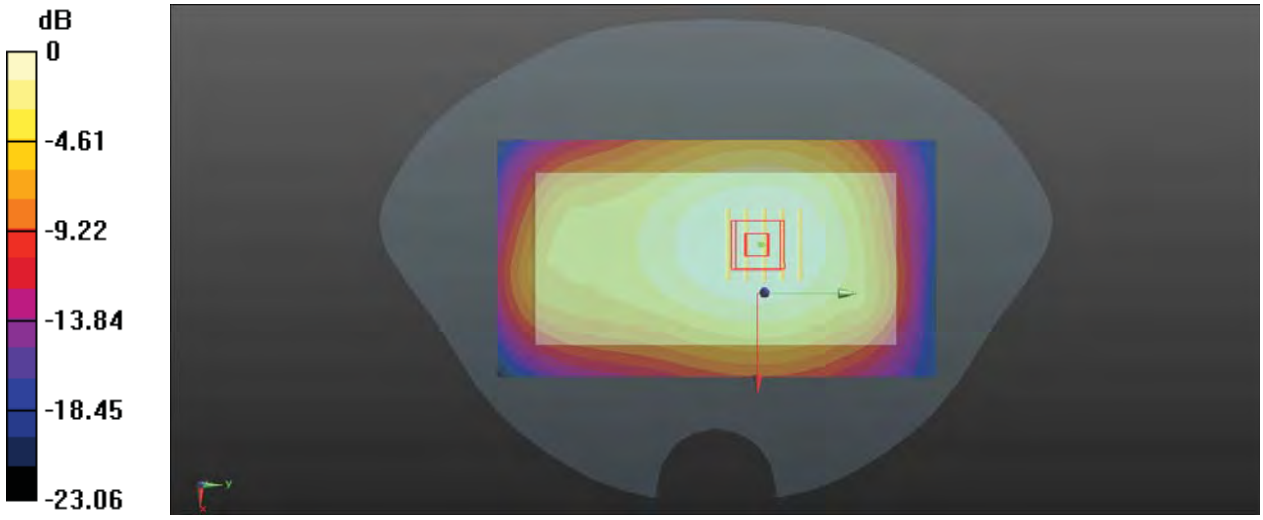
P87 N12_QPSK15M SCS15KHz_Rear Face_1cm_Ch141300_1RB_OS1_Ant0

Communication System: NR; Frequency: 706.5 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 706.5 MHz; σ = 0.897 S/m; ε_r = 43.293; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 706.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.553 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.44 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.593 W/kg
SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.299 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.7%
Maximum value of SAR (measured) = 0.543 W/kg



0 dB = 0.543 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

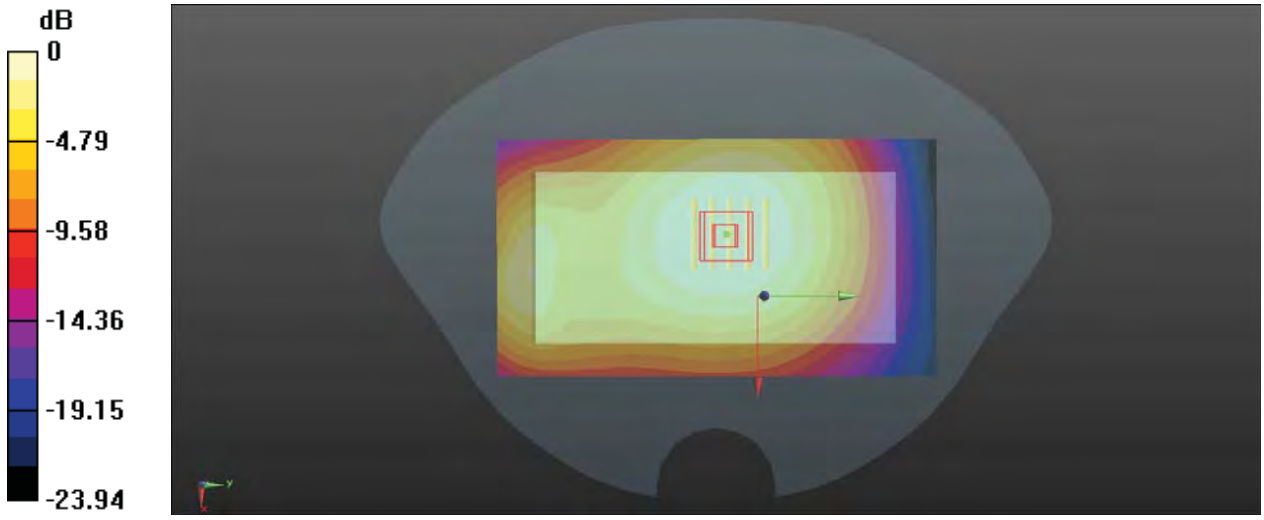
P88 N13_QPSK10M SCS15KHz_Rear Face_1cm_Ch156400_25RB_OS14_Ant0

Communication System: NR; Frequency: 756 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 756 MHz; σ = 0.912 S/m; ε_r = 43.128; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 756 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.414 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.30 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.461 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.264 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 76.2%
Maximum value of SAR (measured) = 0.413 W/kg



0 dB = 0.413 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

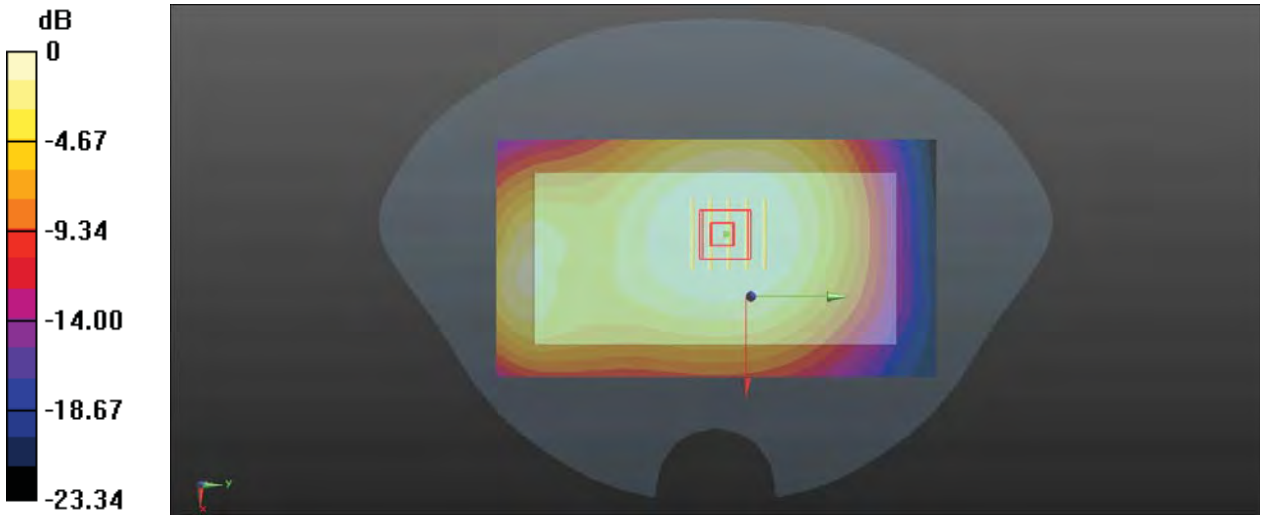
P89 N14_QPSK10M SCS15KHz_Rear Face_1cm_Ch158600_25RB_OS14_Ant0

Communication System: NR; Frequency: 758 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 758 MHz; σ = 0.912 S/m; ε_r = 43.123; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 758 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.418 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.15 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.418 W/kg
SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.238 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 75.7%
Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.372 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

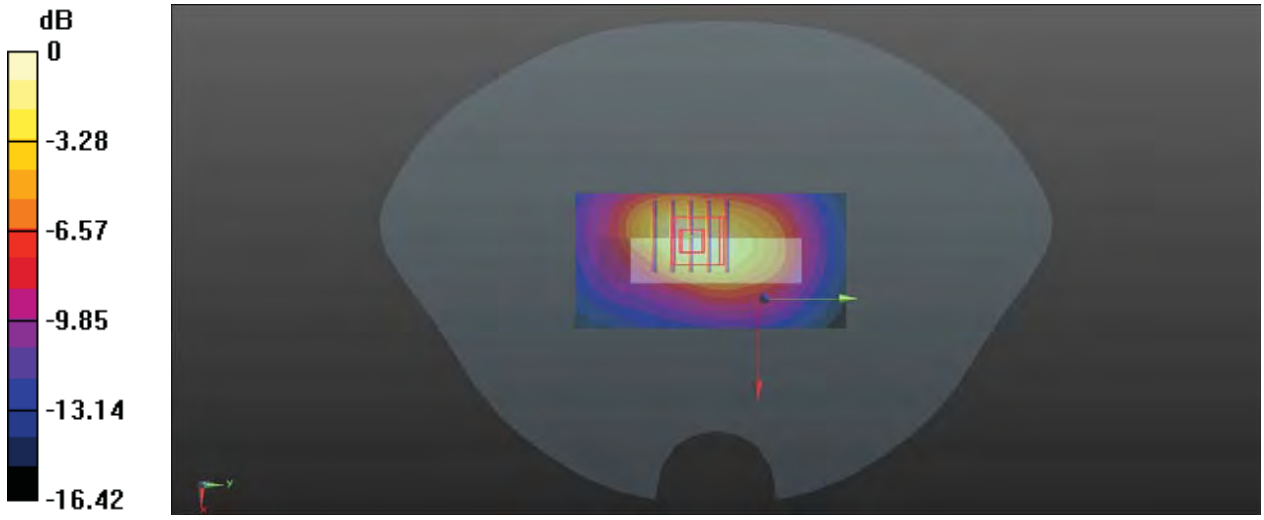
P90 N25_QPSK40M SCS15KHz_Bottom Side_1cm_Ch374000_108RB_OS54_Ant0

Communication System: NR; Frequency: 1870 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1870 MHz; σ = 1.416 S/m; ε_r = 39.019; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1870 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.846 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.34 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.335 W/kg
Smallest distance from peaks to all points 3 dB below = 11.3 mm
Ratio of SAR at M2 to SAR at M1 = 57.4%
Maximum value of SAR (measured) = 0.884 W/kg



0 dB = 0.884 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/12

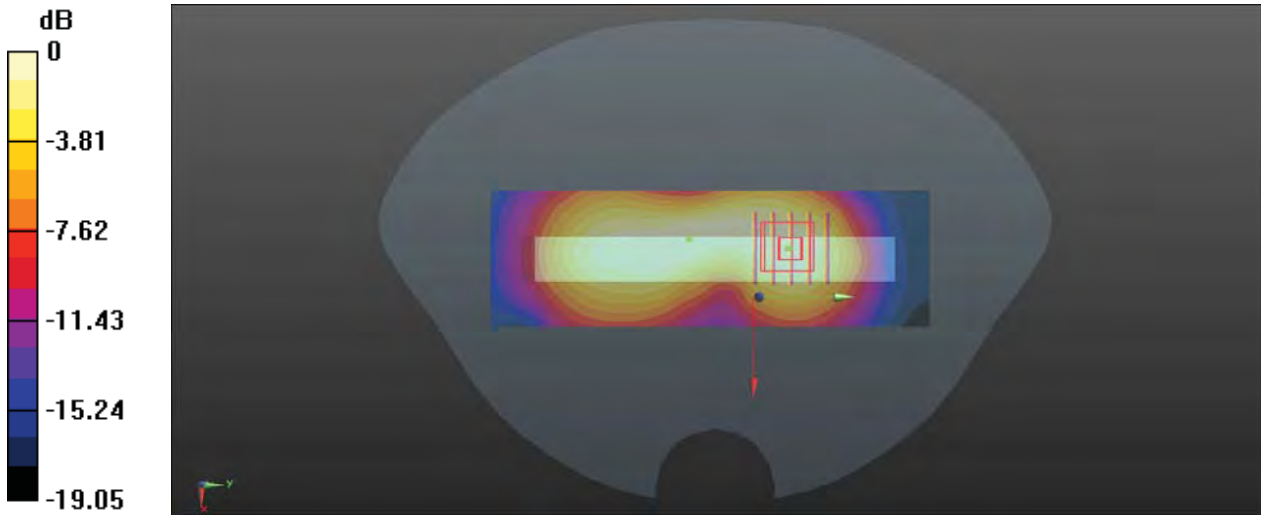
P91 N2_ENDC_QPSK40M SCS15KHz_Right Side_1cm_Ch372000_50RB_OS28_Ant2

Communication System: NR; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL1900_0412 Medium parameters used: f = 1860 MHz; σ = 1.409 S/m; ε_r = 39.038; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.2℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.682 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.24 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.793 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.296 W/kg
Smallest distance from peaks to all points 3 dB below = 16.3 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 0.653 W/kg



0 dB = 0.653 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/08

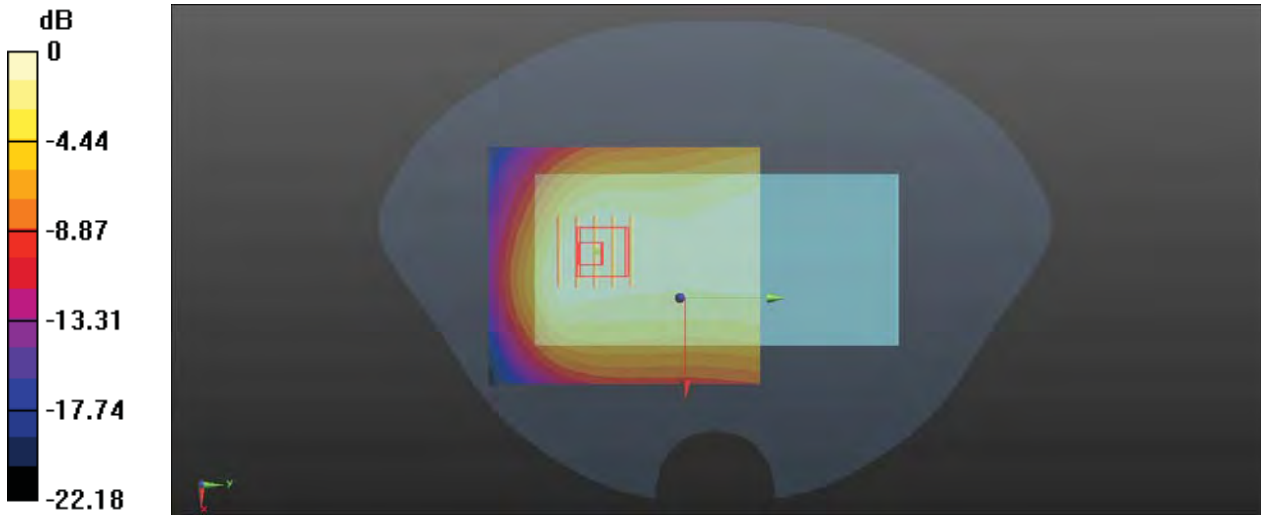
P92 N26_QPSK20M SCS15KHz_Rear Face_1.5cm_Ch167800_50RB_OS28_Ant0

Communication System: NR; Frequency: 839 MHz;Duty Cycle: 1:1
Medium: HSL835_0408 Medium parameters used: f = 839 MHz; σ = 0.939 S/m; ε_r = 43.272; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 839 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.364 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.34 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.409 W/kg
SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.235 W/kg
Smallest distance from peaks to all points 3 dB below = 19.5 mm
Ratio of SAR at M2 to SAR at M1 = 65.1%
Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.352 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/13

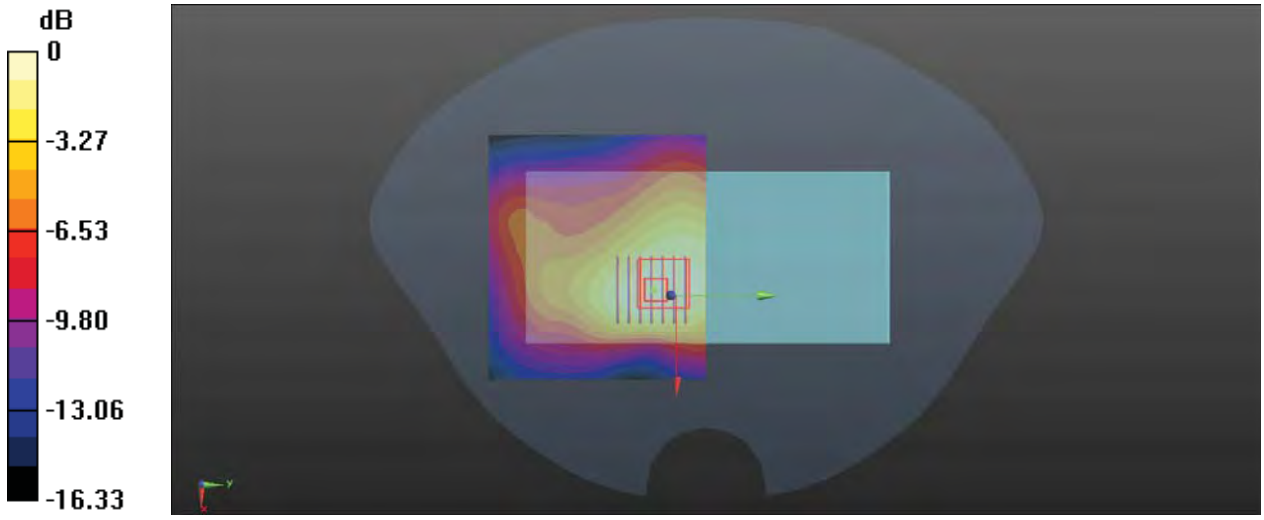
P93 N30_QPSK10M SCS15KHz_Rear Face_1cm_Ch462000_25RB_OS14_Ant10

Communication System: NR; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL2300_0413 Medium parameters used: f = 2310 MHz; σ = 1.713 S/m; ε_r = 39.502; ρ = 1000 kg/m^3
Ambient Temperature：23.7℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.766 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.79 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.968 W/kg
SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.323 W/kg
Smallest distance from peaks to all points 3 dB below = 19.8 mm
Ratio of SAR at M2 to SAR at M1 = 55.3%
Maximum value of SAR (measured) = 0.757 W/kg



0 dB = 0.757 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/10

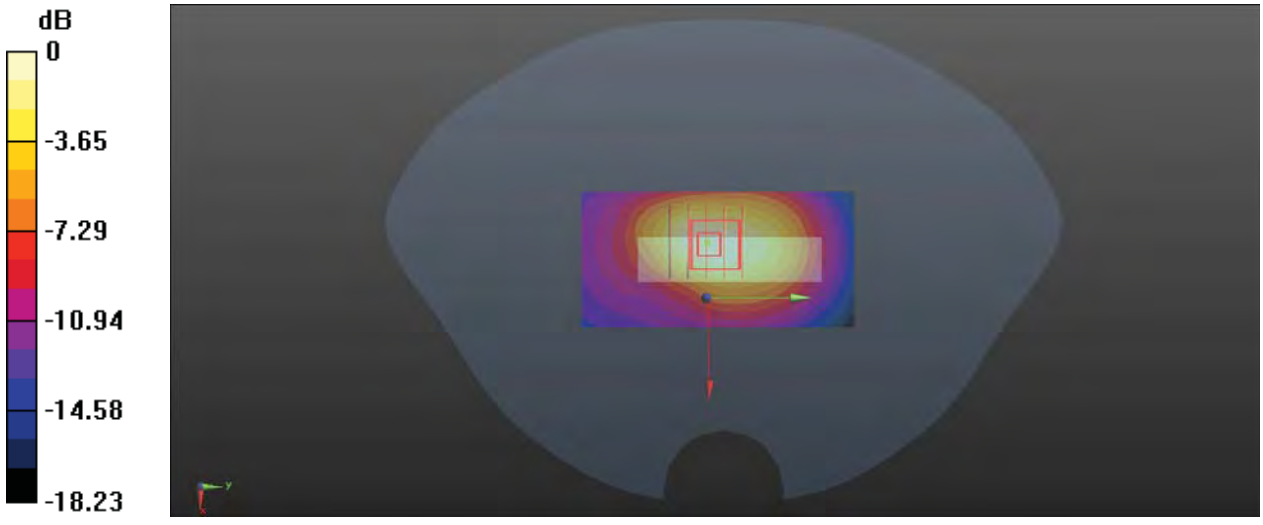
P94 N66_QPSK40M SCS15KHz_Bottom Side_1cm_Ch346000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1730 MHz;Duty Cycle: 1:1
Medium: HSL1750_0410 Medium parameters used: f = 1730 MHz; σ = 1.365 S/m; ε_r = 40.905; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.7℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1730 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.788 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.23 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.965 W/kg
SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.348 W/kg
Smallest distance from peaks to all points 3 dB below = 12.8 mm
Ratio of SAR at M2 to SAR at M1 = 61.3%
Maximum value of SAR (measured) = 0.793 W/kg



0 dB = 0.793 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/07

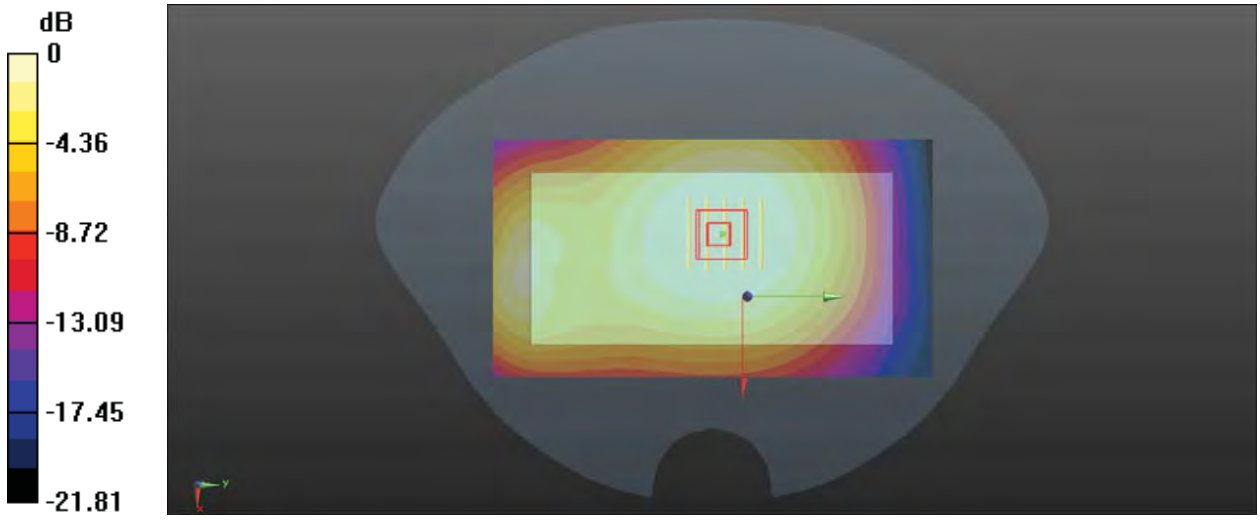
P95 N71_QPSK20M SCS15KHz_Rear Face_1cm_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 652 MHz;Duty Cycle: 1:1
Medium: HSL750_0407 Medium parameters used: f = 652 MHz; σ = 0.88 S/m; ε_r = 43.471; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.1℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 652 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.504 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.95 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.558 W/kg
SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.328 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 77.7%
Maximum value of SAR (measured) = 0.503 W/kg



0 dB = 0.503 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/15

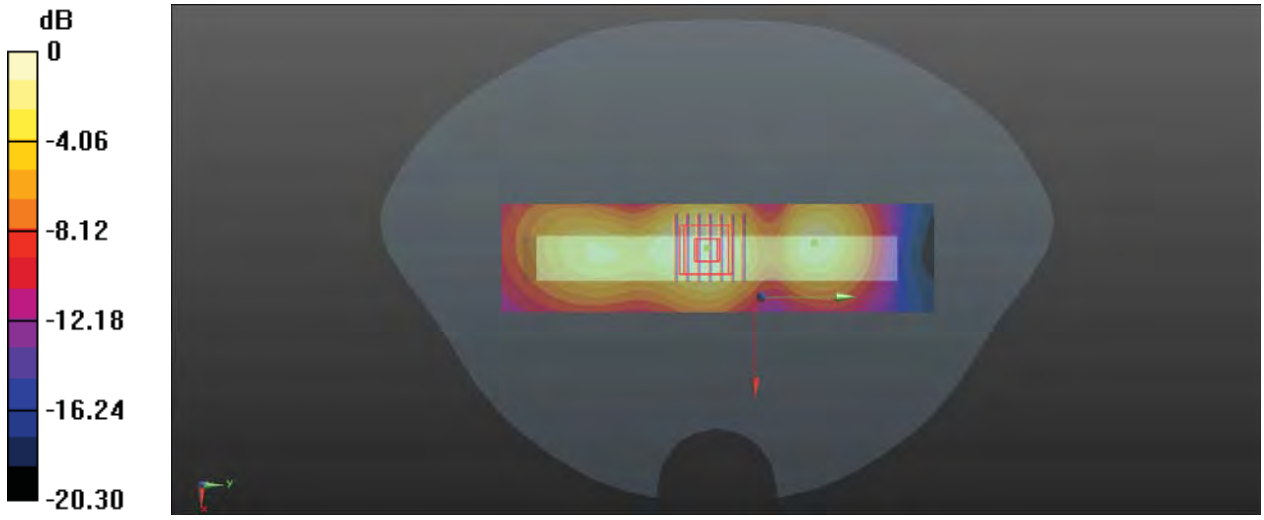
P96 N38_ENDC_QPSK40M SCS30KHz_Left Side_1cm_Ch520000_1RB_OS1_Ant10

Communication System: NR; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: HSL2600_0415 Medium parameters used: f = 2600 MHz; σ = 1.986 S/m; ε_r = 39.41; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.6℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.996 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.47 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.338 W/kg
Smallest distance from peaks to all points 3 dB below = 15.2 mm
Ratio of SAR at M2 to SAR at M1 = 52.1%
Maximum value of SAR (measured) = 0.957 W/kg



0 dB = 0.957 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/16

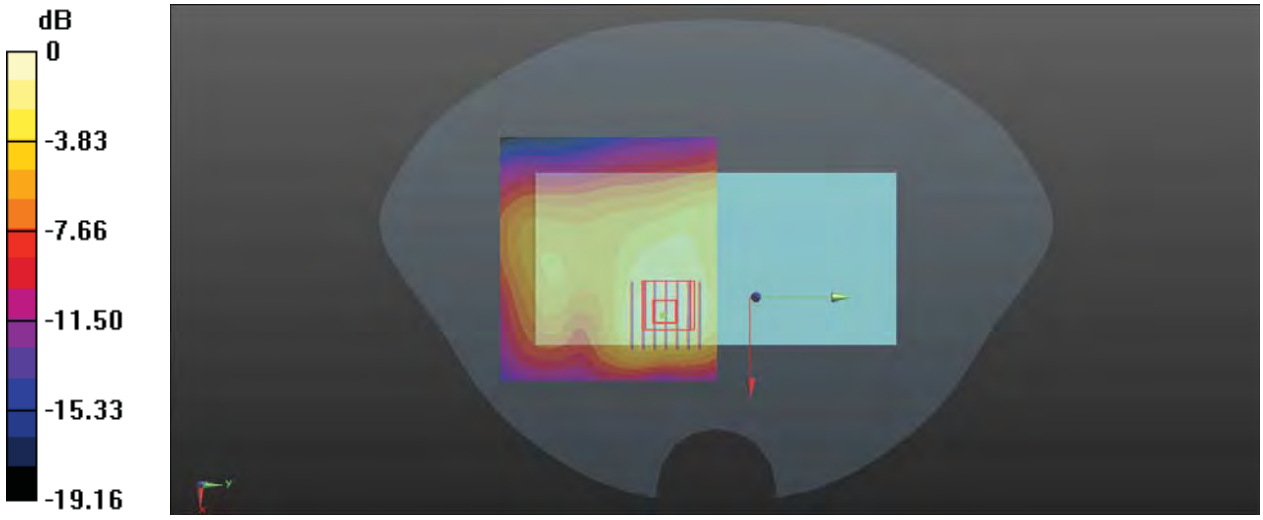
P97 N41_QPSK100M SCS30KHz_Rear Face_1cm_Ch528000_135RB_OS69_Ant10

Communication System: NR; Frequency: 2640 MHz;Duty Cycle: 1:1
Medium: HSL2600_0416 Medium parameters used: f = 2640 MHz; σ = 1.921 S/m; ε_r = 39.444; ρ = 1000 kg/m^3
Ambient Temperature：23.3℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2640 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.887 W/kg

-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.48 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.357 W/kg
Smallest distance from peaks to all points 3 dB below = 14.9 mm
Ratio of SAR at M2 to SAR at M1 = 50.5%
Maximum value of SAR (measured) = 0.883 W/kg



0 dB = 0.883 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

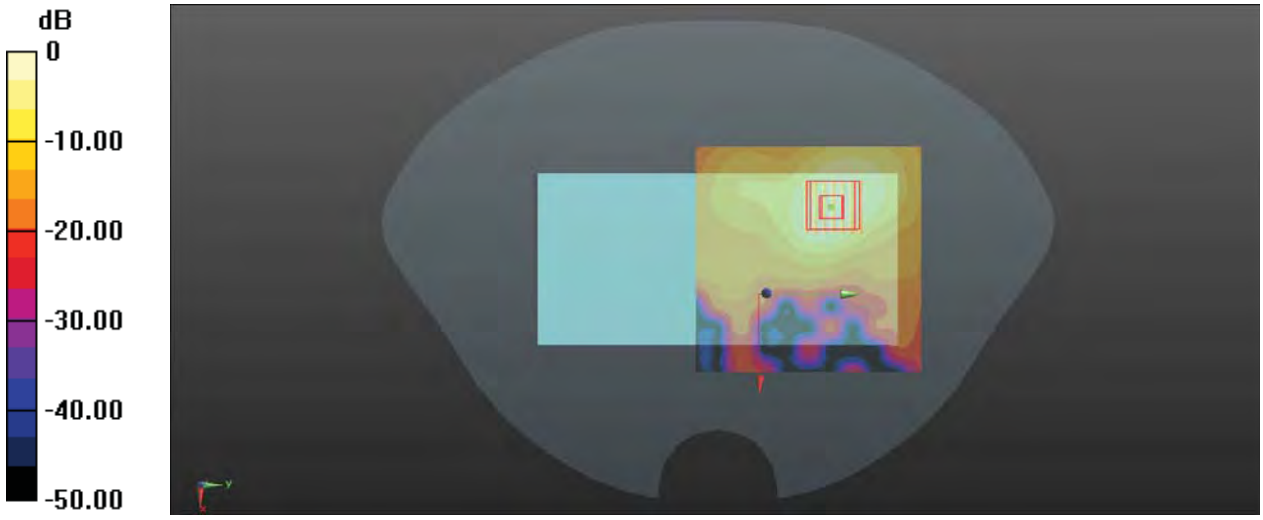
P98 N48_QPSK40M SCS30KHz_Rear Face_1cm_Ch638000_1RB_OS1_Ant11

Communication System: NR; Frequency: 3570 MHz;Duty Cycle: 1:1
Medium: HSL3500_0508 Medium parameters used: f = 3570 MHz; σ = 2.891 S/m; ε_r = 39.569; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3570 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.594 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.696 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.147 W/kg
Smallest distance from peaks to all points 3 dB below = 9.8 mm
Ratio of SAR at M2 to SAR at M1 = 71.3%
Maximum value of SAR (measured) = 0.564 W/kg



0 dB = 0.564 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/09

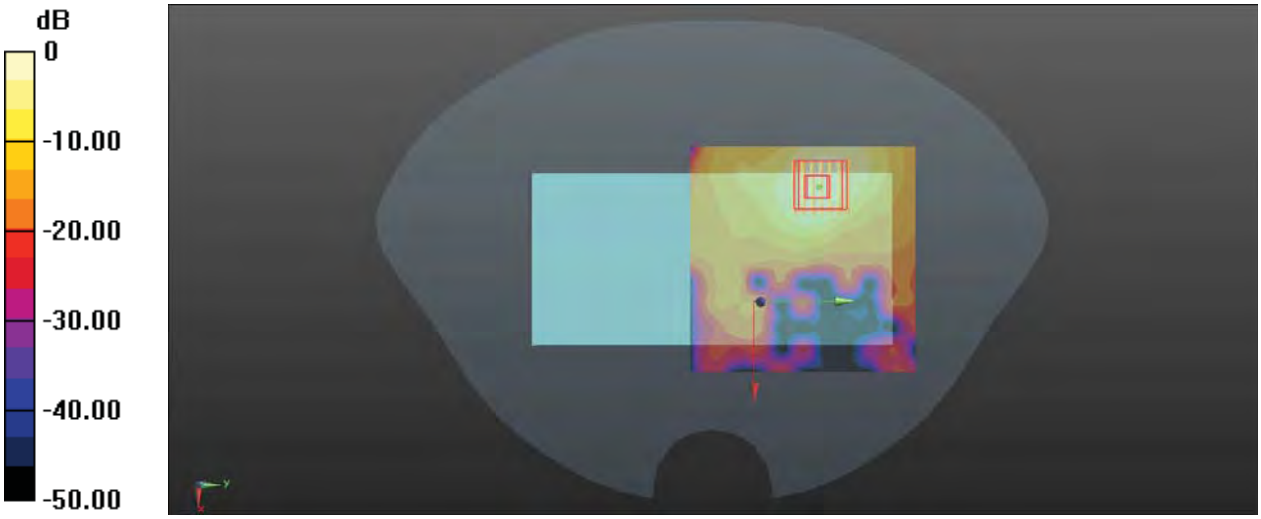
P99 N77_QPSK100M SCS30KHz_Rear Face_1cm_Ch633334_1RB_OS1_Ant11

Communication System: NR; Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500.01 MHz; σ = 2.821 S/m; ε_r = 39.678; ρ = 1000 kg/m^3
Ambient Temperature : 23.2℃; Liquid Temperature : 22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500.01 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.548 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.246 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.735 W/kg
SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.141 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 71.9%
Maximum value of SAR (measured) = 0.532 W/kg



0 dB = 0.532 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/04/09

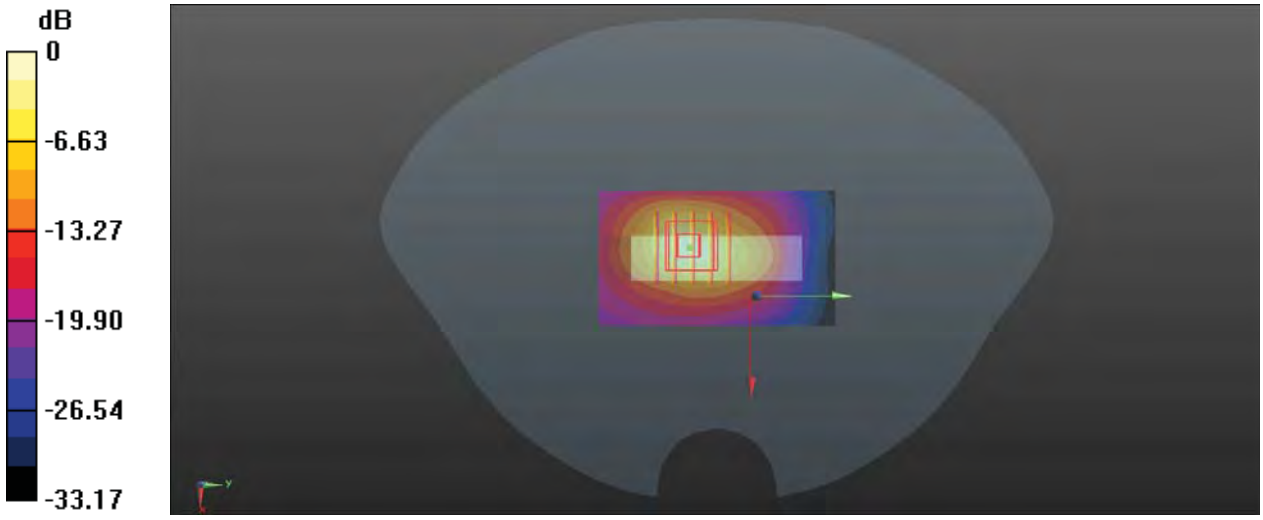
P100 WCDMA IV_RMC12.2K_Bottom Side_0cm_Ch1513_ANT0

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: HSL1750_0409 Medium parameters used: f = 1753 MHz; σ = 1.424 S/m; ε_r = 41.119; ρ = 1000 kg/m^3
Ambient Temperature：23.4℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1752.6 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.09 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.10 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.38 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 44.6%
Maximum value of SAR (measured) = 9.36 W/kg



0 dB = 9.36 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

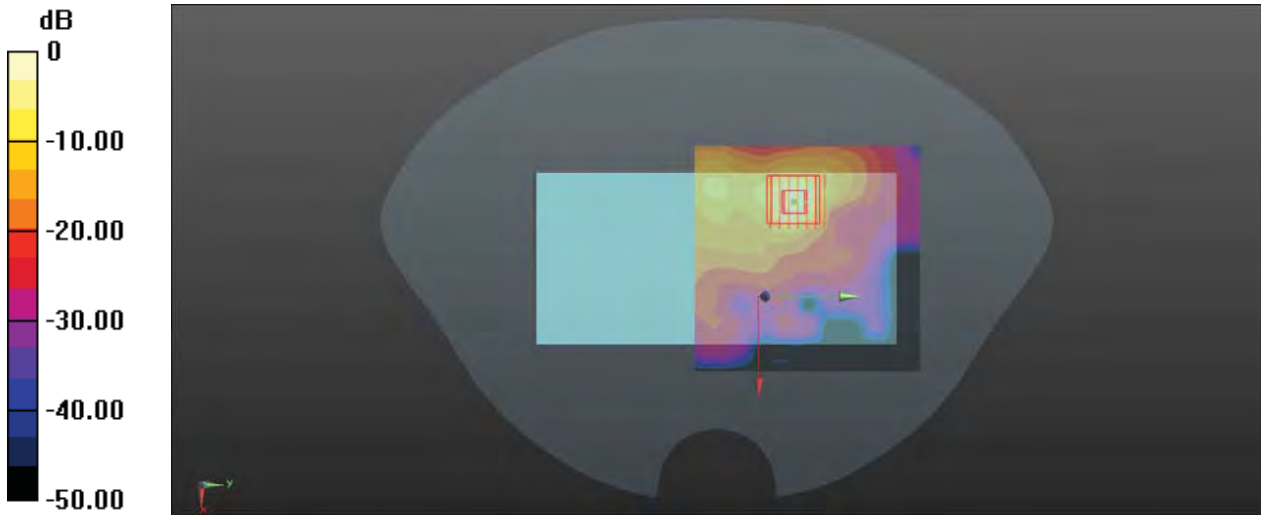
P101 LTE 42_QPSK20M_Rear Face_0cm_Ch42990_1RB_OS0_Ant11

Communication System: LTE_TDD; Frequency: 3540 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3540 MHz; σ = 2.86 S/m; ε_r = 39.61; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3540 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 16.6 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.890 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 24.4 W/kg
SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.5 W/kg
Smallest distance from peaks to all points 3 dB below = 5.1 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

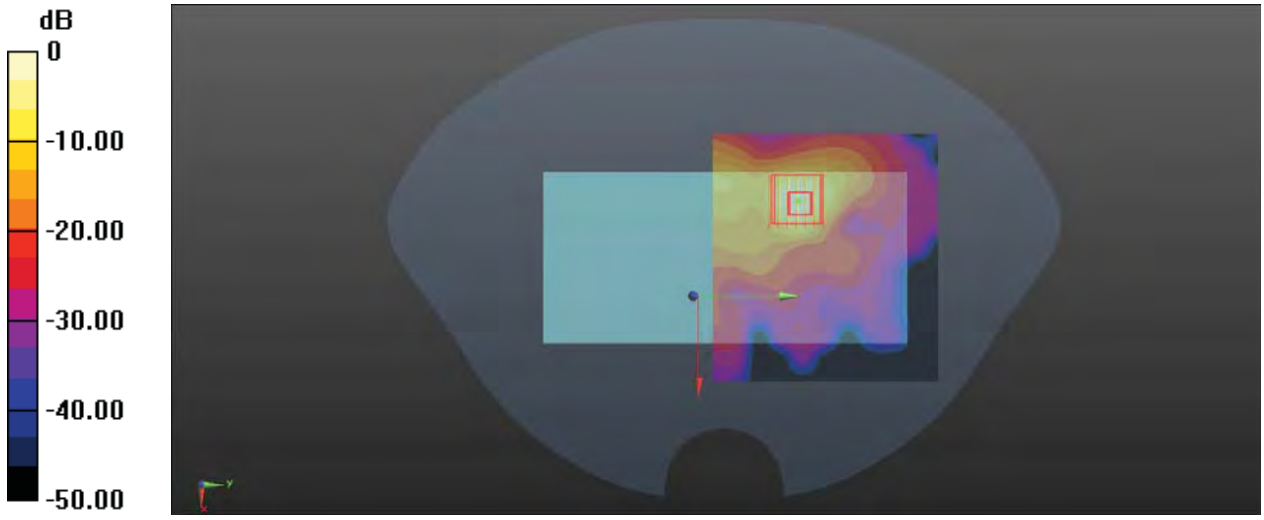
P102 LTE 48_QPSK20M_Rear Face_0cm_Ch55340_1RB_OS50_Ant11

Communication System: LTE_TDD; Frequency: 3560 MHz;Duty Cycle: 1:1.59
Medium: HSL3500_0508 Medium parameters used: f = 3560 MHz; σ = 2.881 S/m; ε_r = 39.583; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3560 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.9 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 9.061 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 25.1 W/kg
SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.46 W/kg
Smallest distance from peaks to all points 3 dB below = 5.4 mm
Ratio of SAR at M2 to SAR at M1 = 62.3%
Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/08

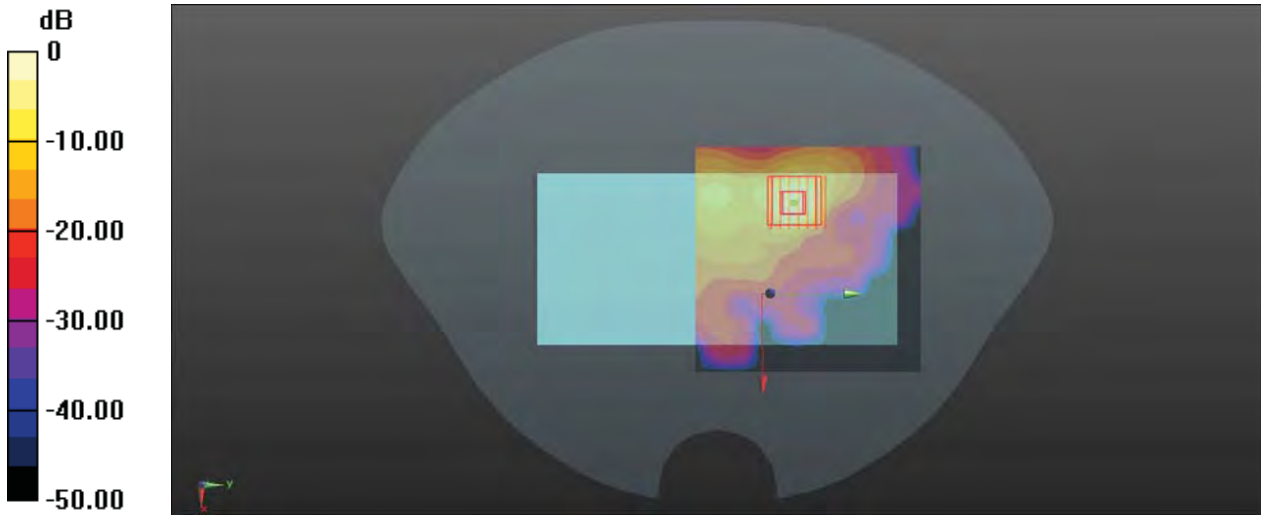
P103 N48_QPSK40M SCS30KHz_Rear Face_0cm_Ch638000_1RB_OS1_Ant11

Communication System: NR; Frequency: 3570 MHz;Duty Cycle: 1:1
Medium: HSL3500_0508 Medium parameters used: f = 3570 MHz; σ = 2.891 S/m; ε_r = 39.569; ρ = 1000 kg/m^3
Ambient Temperature：23.5℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3570 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.4 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 12.09 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 26.2 W/kg
SAR(1 g) = 8.87 W/kg; SAR(10 g) = 2.71 W/kg
Smallest distance from peaks to all points 3 dB below = 4.7 mm
Ratio of SAR at M2 to SAR at M1 = 65.7%
Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg

Test Laboratory: ritt 7 Layers SAR/HAC Testing Lab Date: 2024/05/09

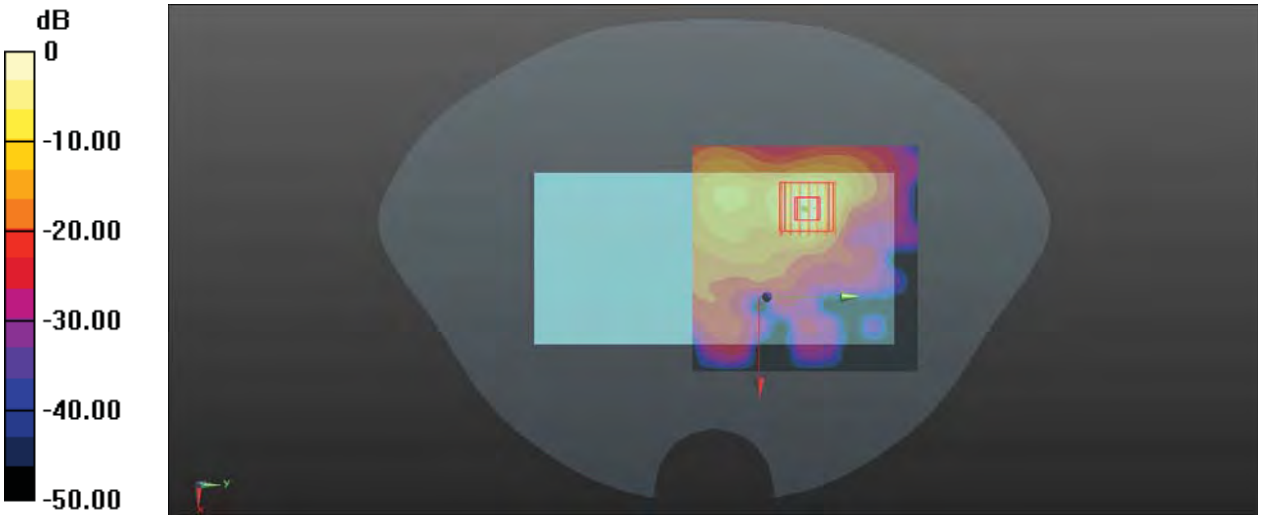
P104 N77_QPSK100M SCS30KHz_Rear Face_0cm_Ch633334_270RB_OS0_Ant11

Communication System: NR; Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium: HSL3500_0509 Medium parameters used: f = 3500.01 MHz; σ = 2.794 S/m; ε_r = 39.127; ρ = 1000 kg/m^3
Ambient Temperature：23.2℃; Liquid Temperature：22.4℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500.01 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: TP:2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

- **Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 9.963 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 21.7 W/kg
SAR(1 g) = 7.1 W/kg; SAR(10 g) = 2.19 W/kg
Smallest distance from peaks to all points 3 dB below = 5.1 mm
Ratio of SAR at M2 to SAR at M1 = 61.8%
Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

In Collaboration with
CALIBRATION LABORATORY

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

CALIBRATION
CNAS L0570

Client : B.V.ADT Certificate No: 23J02Z80116

CALIBRATION CERTIFICATE

Object	DAE4 - SN: 1389
Calibration Procedure(s)	FF-Z11-002-01 Calibration Procedure for the Data Acquisition Electronics (DAEx)
Calibration date:	November 03, 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
Process Calibrator 753	1971018	12-Jun-23 (CTTL, No.J23X05436)	Jun-24

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

Issued: November 06, 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: emf@caict.ac.cn http://www.caict.ac.cn

Glossary:

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- *DC Voltage Measurement*: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.

- The report provide only calibration results for DAE, it does not contain other performance test results.

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

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV , full range = -100...+300 mV
Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.774 ± 0.15% (k=2)	403.734 ± 0.15% (k=2)	404.202 ± 0.15% (k=2)
Low Range	3.98103 ± 0.7% (k=2)	3.96455 ± 0.7% (k=2)	4.02426 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	130.5° ± 1 °

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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 **ADT**
Shenzhen

Certificate No. **EX-3873_Aug23**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3873
Calibration procedure(s)	QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, QA CAL-25.v8 Calibration procedure for dosimetric E-field probes
Calibration date	August 22, 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
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Aidonia Georgiadou	Laboratory Technician	
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.

Glossary

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

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"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z*: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- *PAR*: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Parameters of Probe: EX3DV4 - SN:3873

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ($k = 2$)
Norm ($\mu V/(V/m)^2$) [A]	0.37	0.46	0.47	±10.1%
DCP (mV) [B]	101.3	99.5	100.1	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B $dB\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc[E] $k = 2$
0	CW	X	0.00	0.00	1.00	0.00	136.4	±0.9%	±4.7%
		Y	0.00	0.00	1.00		126.6		
		Z	0.00	0.00	1.00		121.9		
10352	Pulse Waveform (200Hz, 10%)	X	4.30	71.17	13.33	10.00	60.0	±3.0%	±9.6%
		Y	20.00	90.28	19.97		60.0		
		Z	20.00	91.52	21.10		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	4.76	74.17	13.16	6.99	80.0	±1.6%	±9.6%
		Y	20.00	92.23	19.86		80.0		
		Z	20.00	92.48	20.27		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	2.89	71.74	10.79	3.98	95.0	±1.3%	±9.6%
		Y	20.00	97.01	20.82		95.0		
		Z	20.00	93.37	19.07		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.31	60.03	4.87	2.22	120.0	±1.3%	±9.6%
		Y	20.00	102.79	22.10		120.0		
		Z	20.00	90.63	16.31		120.0		
10387	QPSK Waveform, 1 MHz	X	1.56	65.45	14.39	1.00	150.0	±2.9%	±9.6%
		Y	1.75	67.46	15.67		150.0		
		Z	1.56	64.87	14.09		150.0		
10388	QPSK Waveform, 10 MHz	X	2.11	67.46	15.23	0.00	150.0	±0.9%	±9.6%
		Y	2.37	69.33	16.45		150.0		
		Z	2.09	66.92	14.87		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.97	70.43	18.58	3.01	150.0	±0.7%	±9.6%
		Y	2.76	69.49	18.50		150.0		
		Z	2.95	69.45	18.12		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.41	66.85	15.54	0.00	150.0	±2.5%	±9.6%
		Y	3.60	67.70	16.16		150.0		
		Z	3.43	66.68	15.41		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.81	65.52	15.43	0.00	150.0	±4.5%	±9.6%
		Y	4.95	66.05	15.85		150.0		
		Z	4.87	65.48	15.39		150.0		

Note: For details on UID parameters see Appendix

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%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 5).
[B] Linearization parameter uncertainty for maximum specified field strength.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EX3DV4 - SN:3873

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms\,V^{-2}$	T2 $ms\,V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	47.5	357.05	36.00	8.03	0.50	5.04	0.70	0.41	1.01
y	44.8	338.44	36.40	13.33	0.00	5.10	0.14	0.43	1.01
z	50.3	382.59	36.62	11.76	0.42	5.10	0.19	0.55	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	21.3°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

Parameters of Probe: EX3DV4 - SN:3873

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity[F] (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unc ($k = 2$)
750	41.9	0.89	9.34	8.97	9.88	0.39	1.27	±12.0%
835	41.5	0.90	9.94	9.14	8.98	0.37	1.27	±12.0%
900	41.5	0.97	9.02	8.94	8.88	0.37	1.27	±12.0%
1750	40.1	1.37	8.12	8.17	8.10	0.26	1.27	±12.0%
1900	40.0	1.40	7.76	7.82	7.71	0.29	1.27	±12.0%
2300	39.5	1.67	7.64	7.67	7.54	0.31	1.27	±12.0%
2450	39.2	1.80	7.62	7.65	7.52	0.30	1.27	±12.0%
2600	39.0	1.96	7.52	7.57	7.43	0.29	1.27	±12.0%
3300	38.2	2.71	6.73	6.65	6.76	0.30	1.27	±14.0%
3500	37.9	2.91	6.70	6.61	6.72	0.29	1.27	±14.0%
3700	37.7	3.12	6.61	6.52	6.63	0.29	1.27	±14.0%
3900	37.5	3.32	6.50	6.41	6.52	0.33	1.27	±14.0%
4100	37.2	3.53	6.52	6.41	6.54	0.31	1.27	±14.0%
5250	35.9	4.71	5.05	4.95	5.04	0.32	1.62	±14.0%
5600	35.5	5.07	4.65	4.62	4.65	0.34	1.75	±14.0%
5800	35.3	5.27	4.59	4.56	4.63	0.35	1.86	±14.0%

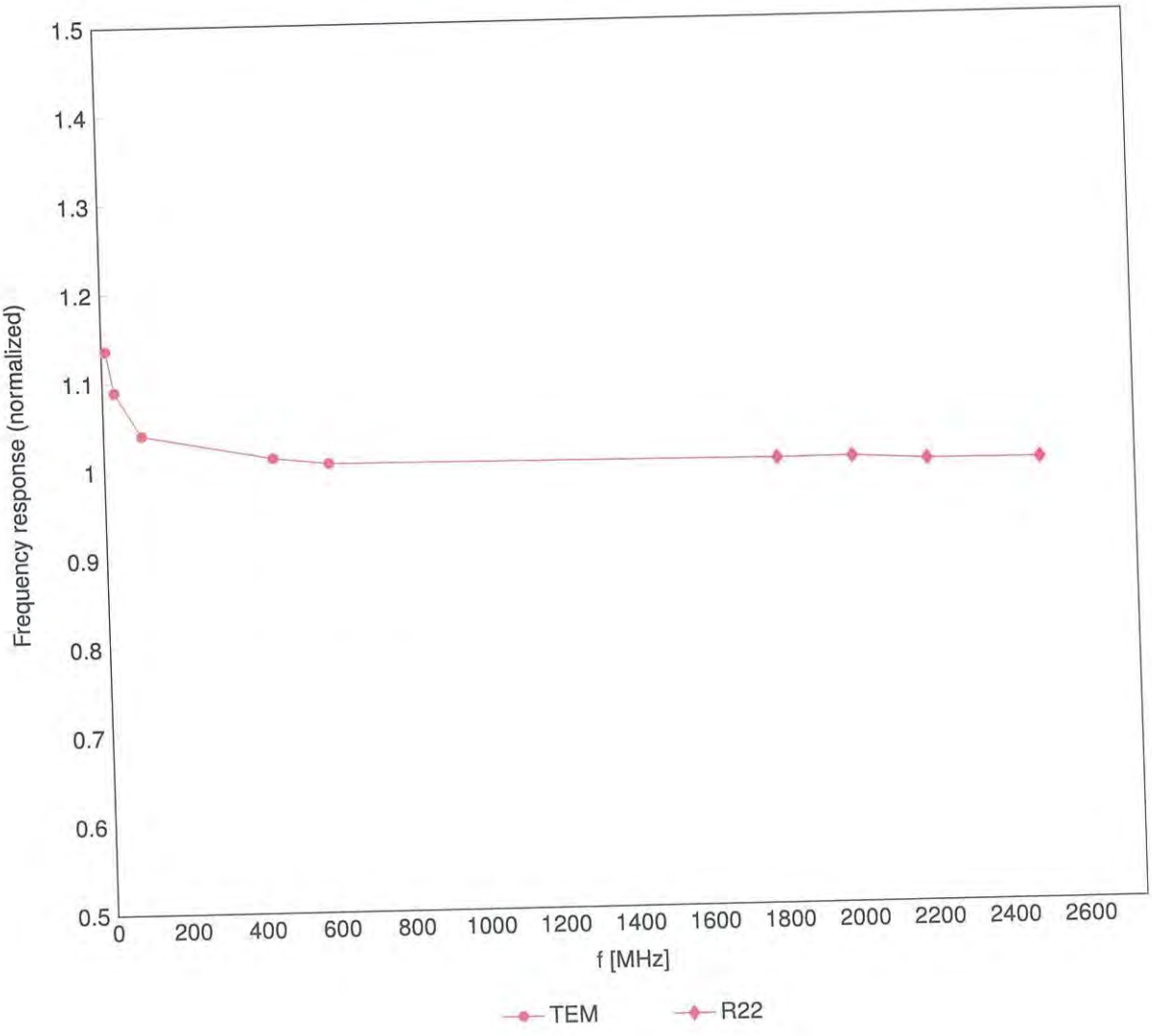
[C] Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

[F] The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

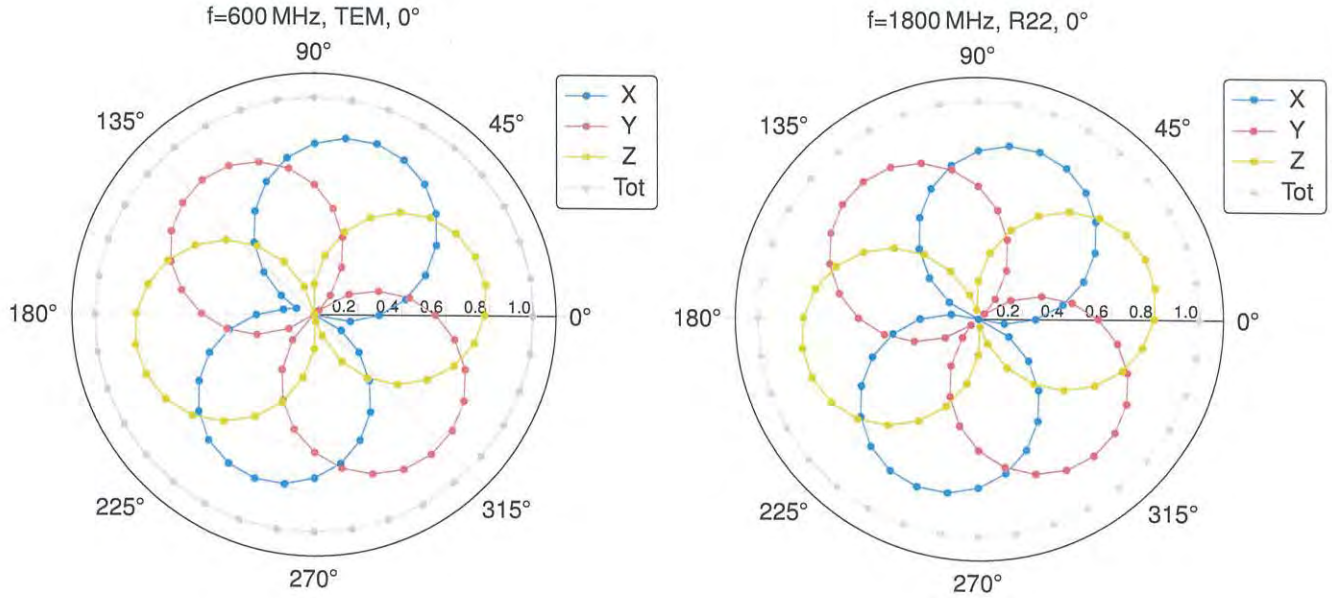
Frequency Response of E-Field

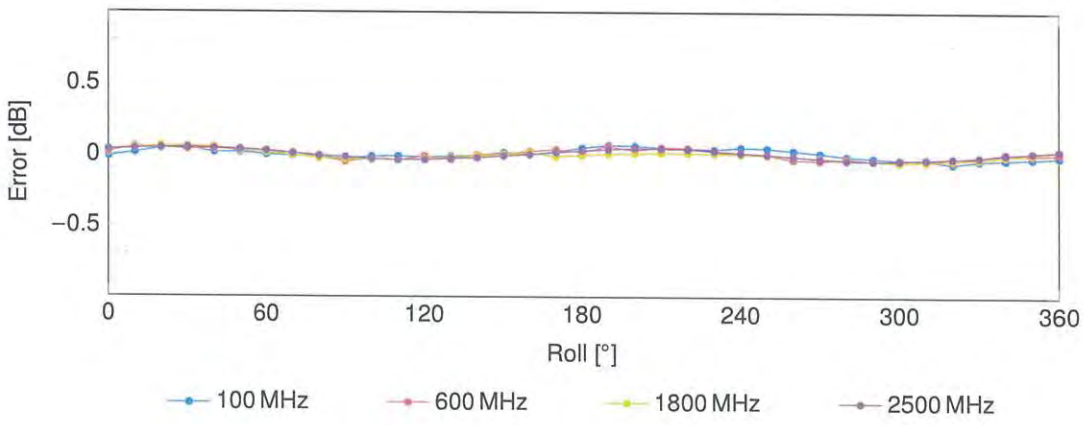
(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

Receiving Pattern (ϕ), $\vartheta = 0°$

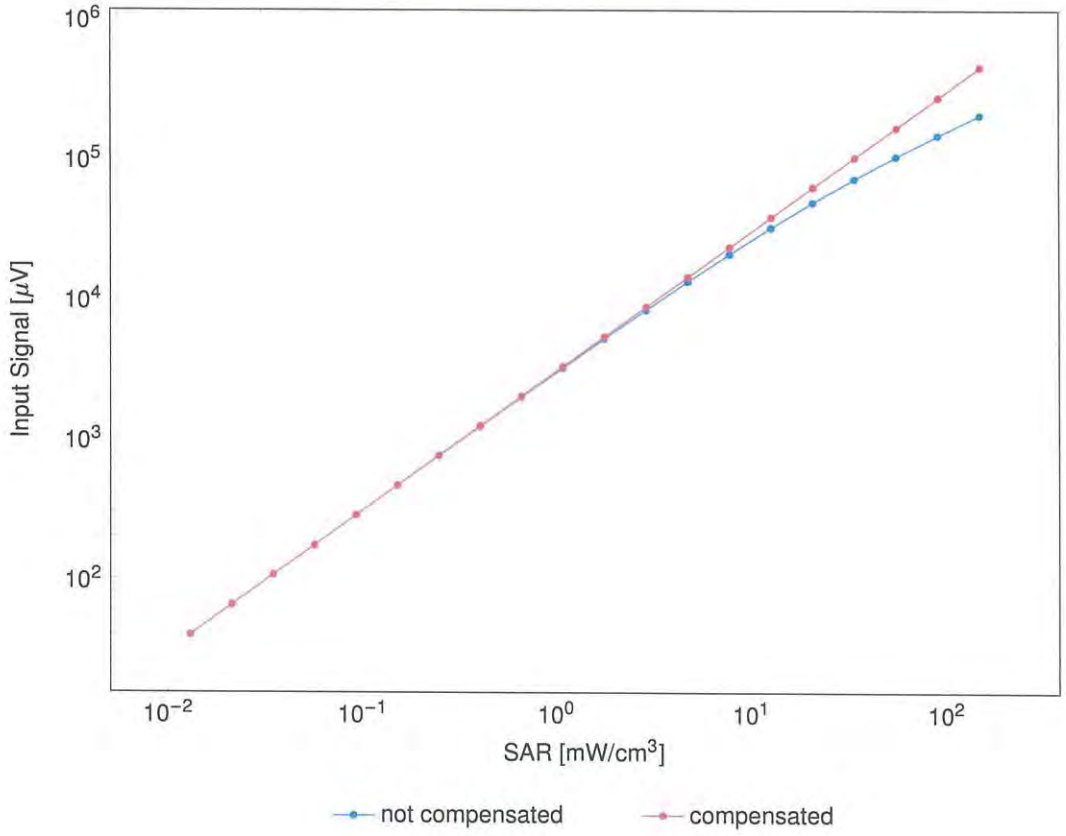


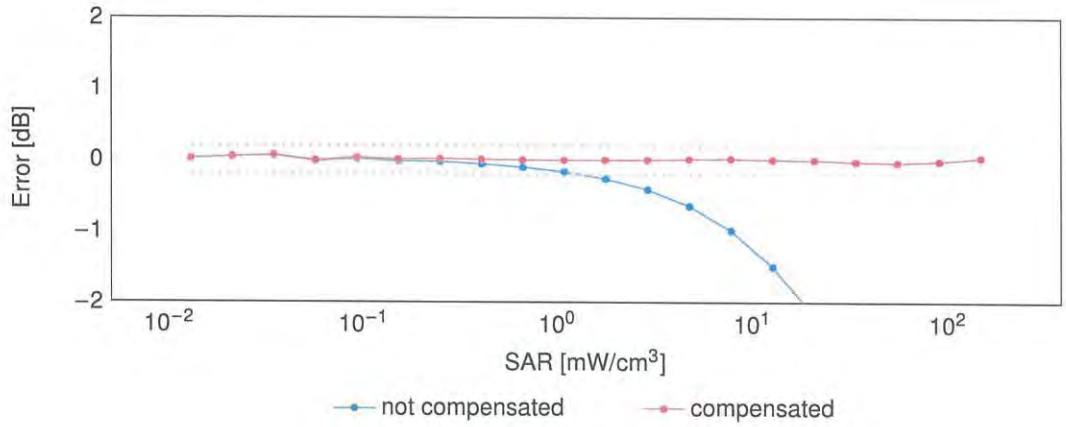


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Dynamic Range f(SAR_{head})

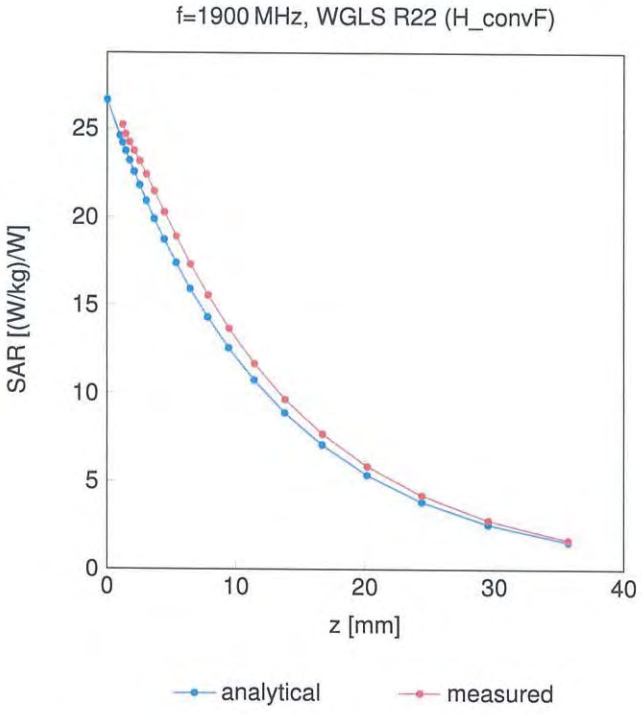
(TEM cell, f_{eval} = 1900 MHz)





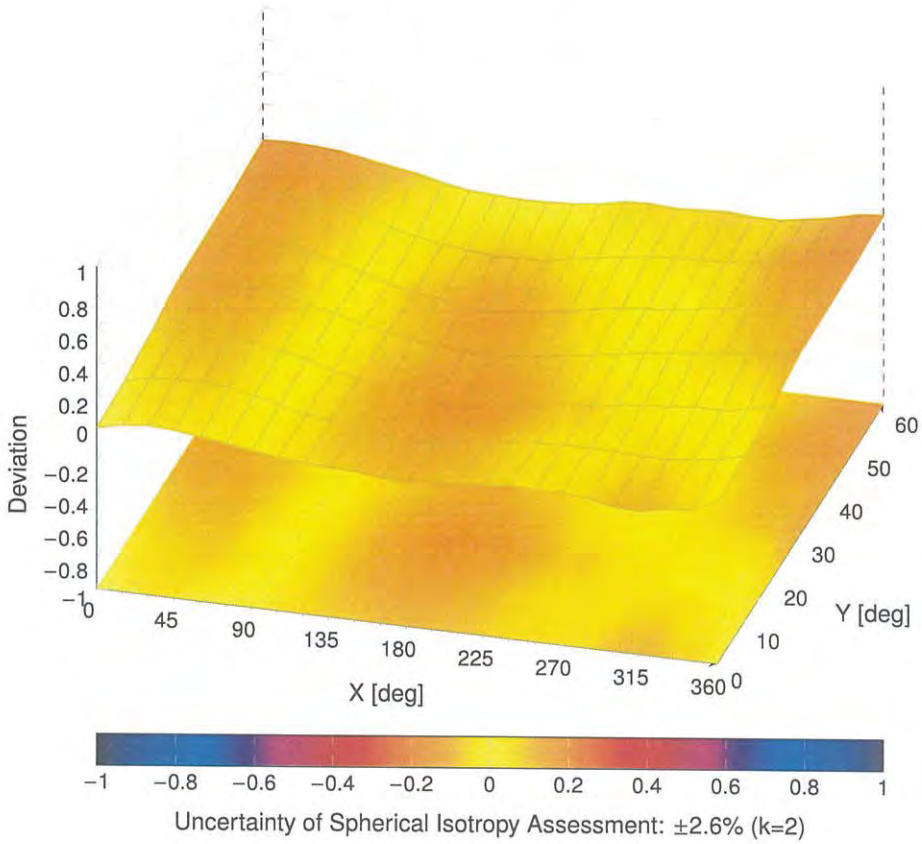
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ±2.6% (k=2)

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc^E $k = 2$
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc^E $k = 2$
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc^E $k=2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc^E $k = 2$
10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	iDEN 1:3	iDEN	10.51	±9.6
10314	AAA	iDEN 1:6	iDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6