13.4 WLAN 2.4 GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	**16.62**	9.50	9.50
CH 06	2437	16.31	10.47	10.48
CH 11	2462	16.23	8.86	8.88

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	6.80
CH 06	2437	8.86
CH 09	2452	7.46

Note:

1. SAR test of WLAN 2.4GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
   1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
   2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
4. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
5. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 98.43%, so the duty cycle factor is 1.016.

13.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 36	5180	**13.35**	12.62	13.22
CH 40	5200	12.55	11.91	13.21
CH 48	5240	11.97	11.29	12.27

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	6.50	6.68
CH 46	5230	6.89	6.56

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 42	5210	5.96

Note:
1. SAR test of WLAN 5.2GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 90.23%, so the duty cycle factor is 1.108.

13.6 WLAN 5.3GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 52	5260	12.86	12.00	**12.95**
CH 56	5280	11.85	10.97	11.91
CH 64	5320	12.54	11.67	12.59

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 54	5270	6.45	6.06
CH 62	5310	6.23	6.27

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 58	5290	5.83

Note:
1. SAR test of WLAN 5.3GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 91.34%, so the duty cycle factor is 1.095.

13.7 WLAN 5.6GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 100	5500	11.56	11.44	11.50
CH 120	5600	**11.58**	11.40	11.60
CH 140	5700	11.25	10.98	11.25

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 102	5510	7.56	7.60
CH 118	5590	6.86	6.88
CH 134	5670	7.00	7.05

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 106	5530	7.88
CH 122	5610	7.73

Note:
1. SAR test of WLAN 5.6GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 91.34%, so the duty cycle factor is 1.095.

13.8 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 149	5745	**13.49**	11.89	13.39
CH 157	5785	13.36	11.81	13.35
CH 165	5825	12.52	11.77	12.48

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	11.59	13.11
CH 159	5795	11.17	12.74

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	10.88

Note:
1. SAR test of WLAN 5.8GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 91.26%, so the duty cycle factor is 1.096.

13.9 Bluetooth Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	π/4-DQPSK	8DPSK
CH 00	2402	5.41	5.64	**5.72**
CH 39	2441	4.42	4.70	4.84
CH 78	2480	3.78	4.13	4.34

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	0.54	0.24	0.48	0.30
CH 20	2442	-0.20	-0.51	-0.28	-0.47
CH 39	2480	-1.24	-1.67	-1.34	-1.53

Note:

1. SAR test of Bluetooth is performed and the mode with highest average power is selected for SAR testing.
2. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR test for BLE is not required.
3. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

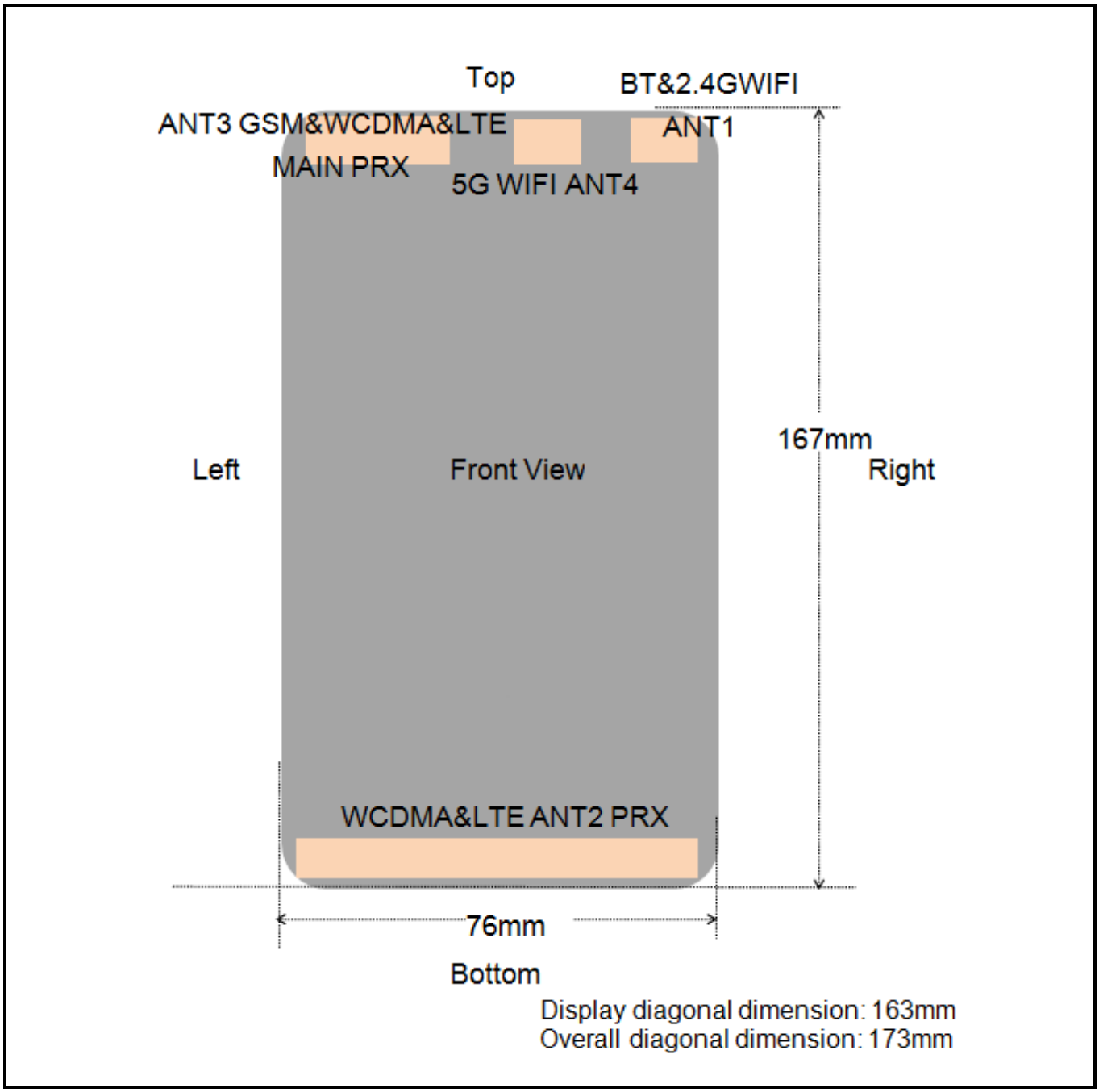


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	**Back**	**Front**	**Top Side**	**Bottom Side**	**Right Side**	**Left Side**
2G/3G/4G ANT2	<25mm	<25mm	152mm	<25mm	<25mm	<25mm
2G/3G/4G ANT3	<25mm	<25mm	<25mm	150mm	35mm	<25mm
2.4GWIFI & Bluetooth ANT1	<25mm	<25mm	<25mm	145mm	<25mm	60mm
5GWIFI ANT4	<25mm	<25mm	<25mm	159mm	<25mm	42mm

Test Positions Test distance: 10mm						
Antennas	**Back**	**Front**	**Top Side**	**Bottom Side**	**Right Side**	**Left Side**
2G/3G/4G ANT2	Yes	Yes	No	Yes	Yes	Yes
2G/3G/4G ANT3	Yes	Yes	Yes	No	No	Yes
2.4GWIFI & Bluetooth ANT1	Yes	Yes	Yes	No	Yes	No
5GWIFI ANT4	Yes	Yes	Yes	No	Yes	No

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm * 5cm, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. Per KDB 447498 D04v01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
4. Per KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➢ GSM Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	GSM850/Voice	Right Cheek	3	190	836.6	33.77	-0.32	34.0	0.725	1.054	0.764
	GSM850/Voice	Right Tilted	3	190	836.6	33.77	0.64	34.0	0.589	1.054	0.621
	GSM850/Voice	Left Cheek	3	190	836.6	33.77	-0.44	34.0	0.595	1.054	0.627
	GSM850/Voice	Left Tilted	3	190	836.6	33.77	0.98	34.0	0.512	1.054	0.540
	GSM850/Voice	Right Cheek	3	128	824.2	33.60	-0.61	34.0	0.859	1.096	0.941
1	GSM850/Voice	Right Cheek	3	251	848.8	33.52	-0.97	34.0	**0.946**	1.117	1.057
	GSM850/Voice	**Right Cheek**	**3**	**251**	**848.8**	**33.52**	**1.16**	**34.0**	**0.910**	**1.117**	1.016
	PCS1900/Voice	Right Cheek	3	512	1850.2	30.43	1.22	30.5	0.621	1.016	0.631
2	PCS1900/Voice	Right Tilted	3	512	1850.2	30.43	1.35	30.5	**0.829**	1.016	0.842
	PCS1900/Voice	Left Cheek	3	512	1850.2	30.43	-0.25	30.5	0.511	1.016	0.519
	PCS1900/Voice	Left Tilted	3	512	1850.2	30.43	-1.03	30.5	0.714	1.016	0.725
	PCS1900/Voice	Right Tilted	3	661	1880	30.25	0.53	30.5	0.763	1.059	0.808
	PCS1900/Voice	Right Tilted	3	810	1909.8	30.09	-4.02	30.5	0.794	1.099	0.873
	PCS1900/Voice	**Right Tilted**	**3**	**512**	**1850.2**	**30.43**	**1.29**	**30.5**	**0.792**	**1.016**	**0.805**
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ WCDMA Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band II/RMC	Right Cheek	3	9538	1907.6	23.30	0.37	23.5	0.399	1.047	0.418
3	Band II/RMC	Right Tilted	3	9538	1907.6	23.30	-1.90	23.5	**0.485**	1.047	0.508
	Band II/RMC	Left Cheek	3	9538	1907.6	23.30	-1.39	23.5	0.286	1.047	0.299
	Band II/RMC	Left Tilted	3	9538	1907.6	23.30	1.52	23.5	0.312	1.047	0.327
	Band II/RMC	Right Cheek	2	9400	1880	23.15	0.15	23.5	0.060	1.084	0.065
	Band II/RMC	Right Tilted	2	9400	1880	23.15	0.51	23.5	0.059	1.084	0.064
	Band II/RMC	Left Cheek	2	9400	1880	23.15	0.81	23.5	0.071	1.084	0.077
	Band II/RMC	Left Tilted	2	9400	1880	23.15	-0.08	23.5	0.069	1.084	0.075
	Band IV/RMC	Right Cheek	3	1413	1732.6	22.99	3.25	23.0	0.393	1.002	0.394
4	Band IV/RMC	Right Tilted	3	1413	1732.6	22.99	3.14	23.0	**0.477**	1.002	0.478
	Band IV/RMC	Left Cheek	3	1413	1732.6	22.99	0.80	23.0	0.203	1.002	0.203
	Band IV/RMC	Left Tilted	3	1413	1732.6	22.99	0.70	23.0	0.299	1.002	0.300
	Band IV/RMC	Right Cheek	2	1413	1732.6	23.10	-1.95	23.5	0.051	1.096	0.056
	Band IV/RMC	Right Tilted	2	1413	1732.6	23.10	-0.23	23.5	0.037	1.096	0.041
	Band IV/RMC	Left Cheek	2	1413	1732.6	23.10	-1.66	23.5	0.039	1.096	0.043
	Band IV/RMC	Left Tilted	2	1413	1732.6	23.10	0.55	23.5	0.071	1.096	0.078
	Band V/RMC	Right Cheek	3	4132	826.4	24.16	-0.66	24.5	0.748	1.081	0.809
	Band V/RMC	Right Tilted	3	4132	826.4	24.16	-0.06	24.5	0.581	1.081	0.628
	Band V/RMC	Left Cheek	3	4132	826.4	24.16	-0.18	24.5	0.712	1.081	0.770
	Band V/RMC	Left Tilted	3	4132	826.4	24.16	-0.63	24.5	0.549	1.081	0.593
5	Band V/RMC	Right Cheek	3	4183	836.6	23.95	-1.71	24.5	**0.791**	1.135	0.898
	Band V/RMC	Right Cheek	3	4233	846.6	24.00	-0.62	24.5	0.774	1.122	0.868
	Band V/RMC	Right Cheek	2	4132	826.4	24.21	-0.40	24.5	0.075	1.069	0.080
	Band V/RMC	Right Tilted	2	4132	826.4	24.21	0.62	24.5	0.052	1.069	0.056
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 2(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band2/1RB#99	Right Cheek	3	19100	1900	24.05	0.39	24.5	0.526	1.109	0.583
6	Band2/1RB#99	Right Tilted	3	19100	1900	24.05	0.10	24.5	**0.684**	1.109	0.759
	Band2/1RB#99	Left Cheek	3	19100	1900	24.05	-1.80	24.5	0.362	1.109	0.401
	Band2/1RB#99	Left Tilted	3	19100	1900	24.05	0.50	24.5	0.449	1.109	0.498
	Band2/50%RB#0	Right Cheek	3	19100	1900	22.26	-0.76	22.5	0.350	1.057	0.370
	Band2/50%RB#0	Right Tilted	3	19100	1900	22.26	0.42	22.5	0.486	1.057	0.514
	Band2/50%RB#0	Left Cheek	3	19100	1900	22.26	0.61	22.5	0.261	1.057	0.276
	Band2/50%RB#0	Left Tilted	3	19100	1900	22.26	1.92	22.5	0.299	1.057	0.316
	Band2/1RB#99	Right Cheek	2	19100	1900	23.91	0.87	24.0	0.096	1.021	0.098
	Band2/1RB#99	Right Tilted	2	19100	1900	23.91	1.80	24.0	0.076	1.021	0.078
	Band2/1RB#99	Left Cheek	2	19100	1900	23.91	0.22	24.0	0.085	1.021	0.087
	Band2/1RB#99	Left Tilted	2	19100	1900	23.91	-0.76	24.0	0.061	1.021	0.062
	Band2/50%RB#49	Right Cheek	2	19100	1900	22.17	-0.65	22.5	0.070	1.079	0.076
	Band2/50%RB#49	Right Tilted	2	19100	1900	22.17	1.74	22.5	0.069	1.079	0.074
	Band2/50%RB#49	Left Cheek	2	19100	1900	22.17	-1.03	22.5	0.063	1.079	0.068
	Band2/50%RB#49	Left Tilted	2	19100	1900	22.17	-1.84	22.5	0.052	1.079	0.056
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 4(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
7	Band4/1RB#49	Right Cheek	3	20300	1745	24.27	-0.59	24.5	**0.525**	1.054	0.553
	Band4/1RB#49	Right Tilted	3	20300	1745	24.27	-0.71	24.5	0.505	1.054	0.532
	Band4/1RB#49	Left Cheek	3	20300	1745	24.27	-0.99	24.5	0.261	1.054	0.275
	Band4/1RB#49	Left Tilted	3	20300	1745	24.27	1.60	24.5	0.226	1.054	0.238
	Band4/50%RB#0	Right Cheek	3	20050	1720	22.27	0.51	22.5	0.433	1.054	0.456
	Band4/50%RB#0	Right Tilted	3	20050	1720	22.27	0.24	22.5	0.392	1.054	0.413
	Band4/50%RB#0	Left Cheek	3	20050	1720	22.27	1.73	22.5	0.221	1.054	0.233
	Band4/50%RB#0	Left Tilted	3	20050	1720	22.27	-0.08	22.5	0.211	1.054	0.222
	Band4/1RB#99	Right Cheek	2	20300	1745	24.33	0.09	24.5	0.102	1.04	0.106
	Band4/1RB#99	Right Tilted	2	20300	1745	24.33	-1.22	24.5	0.062	1.04	0.064
	Band4/1RB#99	Left Cheek	2	20300	1745	24.33	0.25	24.5	0.044	1.04	0.046
	Band4/1RB#99	Left Tilted	2	20300	1745	24.33	-0.27	24.5	0.023	1.04	0.024
	Band4/50%RB#49	Right Cheek	2	20300	1745	22.30	-0.89	22.5	0.065	1.047	0.068
	Band4/50%RB#49	Right Tilted	2	20300	1745	22.30	-0.32	22.5	0.042	1.047	0.044
	Band4/50%RB#49	Left Cheek	2	20300	1745	22.30	2.51	22.5	0.036	1.047	0.038
	Band4/50%RB#49	Left Tilted	2	20300	1745	22.30	-0.69	22.5	0.018	1.047	0.019
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 5(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
8	Band5/1RB#49	Right Cheek	3	20525	836.5	24.28	0.01	24.5	**0.793**	1.052	0.834
	Band5/1RB#49	Right Tilted	3	20525	836.5	24.28	-0.94	24.5	0.654	1.052	0.688
	Band5/1RB#49	Left Cheek	3	20525	836.5	24.28	1.52	24.5	0.523	1.052	0.550
	Band5/1RB#49	Left Tilted	3	20525	836.5	24.28	-0.65	24.5	0.470	1.052	0.494
	Band5/1RB#49	Right Cheek	3	20450	829	24.10	-1.31	24.5	0.712	1.096	0.780
	Band5/1RB#49	Right Cheek	3	20600	844	24.23	1.34	24.5	0.733	1.064	0.780
	Band5/50%RB#24	Right Cheek	3	20600	844	23.05	-0.47	23.5	0.638	1.109	0.708
	Band5/50%RB#24	Right Tilted	3	20600	844	23.05	-1.70	23.5	0.520	1.109	0.577
	Band5/50%RB#24	Left Cheek	3	20600	844	23.05	-1.52	23.5	0.389	1.109	0.431
	Band5/50%RB#24	Left Tilted	3	20600	844	23.05	-1.07	23.5	0.378	1.109	0.419
	Band5/100%RB#0	Right Cheek	3	20600	844	22.99	1.30	23.0	0.511	1.002	0.512

	Band5/1RB#49	Right Cheek	2	20600	844	24.40	3.88	24.5	0.111	1.023	0.114
	Band5/1RB#49	Right Tilted	2	20600	844	24.40	0.65	24.5	0.057	1.023	0.058
	Band5/1RB#49	Left Cheek	2	20600	844	24.40	2.33	24.5	0.102	1.023	0.104
	Band5/1RB#49	Left Tilted	2	20600	844	24.40	-1.42	24.5	0.041	1.023	0.042
	Band5/50%RB#24	Right Cheek	2	20600	844	23.12	0.85	23.5	0.088	1.091	0.096
	Band5/50%RB#24	Right Tilted	2	20600	844	23.12	-4.47	23.5	0.044	1.091	0.048
	Band5/50%RB#24	Left Cheek	2	20600	844	23.12	-1.69	23.5	0.081	1.091	0.088
	Band5/50%RB#24	Left Tilted	2	20600	844	23.12	-1.10	23.5	0.039	1.091	0.043
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 7(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band7/1RB#49	Right Cheek	3	20850	2510	22.69	-1.54	23.0	0.502	1.074	0.539
9	Band7/1RB#49	Right Tilted	3	20850	2510	22.69	1.83	23.0	**0.509**	1.074	0.547
	Band7/1RB#49	Left Cheek	3	20850	2510	22.69	-0.22	23.0	0.302	1.074	0.324
	Band7/1RB#49	Left Tilted	3	20850	2510	22.69	1.75	23.0	0.288	1.074	0.309
	Band7/50%RB#24	Right Cheek	3	20850	2510	21.73	-0.17	22.0	0.350	1.064	0.372
	Band7/50%RB#24	Right Tilted	3	20850	2510	21.73	2.39	22.0	0.356	1.064	0.379
	Band7/50%RB#24	Left Cheek	3	20850	2510	21.73	-0.71	22.0	0.250	1.064	0.266
	Band7/50%RB#24	Left Tilted	3	20850	2510	21.73	-0.18	22.0	0.232	1.064	0.247
	Band7/1RB#49	Right Cheek	2	20850	2510	22.69	-0.69	23.0	0.194	1.074	0.208
	Band7/1RB#49	Right Tilted	2	20850	2510	22.69	-0.25	23.0	0.152	1.074	0.163
	Band7/1RB#49	Left Cheek	2	20850	2510	22.69	-4.51	23.0	0.342	1.074	0.367
	Band7/1RB#49	Left Tilted	2	20850	2510	22.69	0.39	23.0	0.182	1.074	0.195
	Band7/50%RB#24	Right Cheek	2	20850	2510	21.72	-0.83	22.0	0.167	1.067	0.178
	Band7/50%RB#24	Right Tilted	2	20850	2510	21.72	1.49	22.0	0.122	1.067	0.130
	Band7/50%RB#24	Left Cheek	2	20850	2510	21.72	0.77	22.0	0.284	1.067	0.303
	Band7/50%RB#24	Left Tilted	2	20850	2510	21.72	-1.66	22.0	0.135	1.067	0.144
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ TDD-LTE Band41(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	Band41/1RB#99	Right Cheek	3	41140	2645	22.64	-0.54	23.0	0.630	1.086	1.008	0.690
10	Band41/1RB#99	Right Tilted	3	41140	2645	22.64	-1.35	23.0	**0.636**	1.086	1.008	0.696
	Band41/1RB#99	Left Cheek	3	41140	2645	22.64	-4.77	23.0	0.344	1.086	1.008	0.377
	Band41/1RB#99	Left Tilted	3	41140	2645	22.64	-4.53	23.0	0.340	1.086	1.008	0.372
	Band41/50%RB#0	Right Cheek	3	41140	2645	21.70	0.49	22.0	0.529	1.072	1.008	0.572
	Band41/50%RB#0	Right Tilted	3	41140	2645	21.70	-0.54	22.0	0.524	1.072	1.008	0.566
	Band41/50%RB#0	Left Cheek	3	41140	2645	21.70	-1.88	22.0	0.367	1.072	1.008	0.397
	Band41/50%RB#0	Left Tilted	3	41140	2645	21.70	2.92	22.0	0.393	1.072	1.008	0.425
	Band41/1RB#49	Right Cheek	2	41140	2645	23.27	-3.68	23.5	0.100	1.054	1.008	0.106
	Band41/1RB#49	Right Tilted	2	41140	2645	23.27	1.04	23.5	0.075	1.054	1.008	0.080
	Band41/1RB#49	Left Cheek	2	41140	2645	23.27	0.99	23.5	0.151	1.054	1.008	0.160
	Band41/1RB#49	Left Tilted	2	41140	2645	23.27	0.34	23.5	0.089	1.054	1.008	0.095
	Band41/50%RB#24	Right Cheek	2	41140	2645	22.19	4.25	22.5	0.090	1.074	1.008	0.097
	Band41/50%RB#24	Right Tilted	2	41140	2645	22.19	2.89	22.5	0.064	1.074	1.008	0.069
	Band41/50%RB#24	Left Cheek	2	41140	2645	22.19	4.60	22.5	0.128	1.074	1.008	0.139
	Band41/50%RB#24	Left Tilted	2	41140	2645	22.19	0.93	22.5	0.072	1.074	1.008	0.078
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	2.4GHz/802.11b	Right Cheek	1	1	2416	16.62	1.24	17.0	0.360	1.091	1.016	0.399
	2.4GHz/802.11b	Right Tilted	1	1	2416	16.62	-2.62	17.0	0.423	1.091	1.016	0.469
11	2.4GHz/802.11b	Left Cheek	1	1	2416	16.62	-0.39	17.0	**0.670**	1.091	1.016	0.743
	2.4GHz/802.11b	Left Tilted	1	1	2416	16.62	0.51	17.0	0.503	1.091	1.016	0.558
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.2GHz/802.11a	Right Cheek	4	36	5180	13.35	2.28	13.5	0.122	1.035	1.108	0.140
	5.2GHz/802.11a	Right Tilted	4	36	5180	13.35	1.05	13.5	0.255	1.035	1.108	0.293
	5.2GHz/802.11a	Left Cheek	4	36	5180	13.35	1.64	13.5	0.281	1.035	1.108	0.322
12	5.2GHz/802.11a	Left Tilted	4	36	5180	13.35	0.40	13.5	**0.434**	1.035	1.108	0.498
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.3 GHz Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.3GHz/802.11a	Right Cheek	4	52	5260	12.86	-0.46	13.0	0.125	1.033	1.095	0.141
	5.3GHz/802.11a	Right Tilted	4	52	5260	12.86	0.43	13.0	0.312	1.033	1.095	0.353
	5.3GHz/802.11a	Left Cheek	4	52	5260	12.86	1.95	13.0	0.156	1.033	1.095	0.176
13	5.3GHz/802.11a	Left Tilted	4	52	5260	12.86	-0.36	13.0	**0.343**	1.033	1.095	0.388
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.6 GHz Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.6GHz/802.11a	Right Cheek	4	120	5600	11.58	1.04	12.0	0.219	1.102	1.095	0.264
	5.6GHz/802.11a	Right Tilted	4	120	5600	11.58	1.01	12.0	0.415	1.102	1.095	0.501
	5.6GHz/802.11a	Left Cheek	4	120	5600	11.58	1.33	12.0	0.253	1.102	1.095	0.305
14	5.6GHz/802.11a	Left Tilted	4	120	5600	11.58	0.85	12.0	**0.477**	1.102	1.095	0.575
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.8GHz/802.11a	Right Cheek	4	149	5745	13.49	-0.85	13.5	0.186	1.002	1.096	0.204
	5.8GHz/802.11a	Right Tilted	4	149	5745	13.49	-1.74	13.5	0.386	1.002	1.096	0.424
	5.8GHz/802.11a	Left Cheek	4	149	5745	13.49	0.85	13.5	0.223	1.002	1.096	0.245
15	5.8GHz/802.11a	Left Tilted	4	149	5745	13.49	1.15	13.5	**0.414**	1.002	1.096	0.455
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ Bluetooth Head SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	BT/8DPSK	Right Cheek	1	0	2402	5.72	-0.74	6.0	0.023	1.067	1.000	0.025
	BT/8DPSK	Right Tilted	1	0	2402	5.72	1.72	6.0	0.028	1.067	1.000	0.030
	BT/8DPSK	Left Cheek	1	0	2402	5.72	0.58	6.0	0.031	1.067	1.000	0.033
16	BT/8DPSK	Left Tilted	1	0	2402	5.72	0.34	6.0	**0.032**	1.067	1.000	0.034
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

Note:

1. Per KDB 447498 D04v01, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg.
3. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
4. Per KDB 248227 D01v02r02, for 802.11b DSSS , when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.
5. Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. Cuz the maximum output power specified for OFDM and DSSS are 11.22mW(10.5dBm) and 50.12mW(17.0dBm), the scaled SAR would be 0.743×(11.22/50.12)=0.166W/Kg<1.2 W/kg, therefore, SAR is not required for OFDM.
6. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.

15.2 Standalone Body SAR

➢ GSM Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	GPRS850/2 slots	Front	3	190	836.6	31.67	-0.64	32.0	0.285	1.079	0.308
17	GPRS850/2 slots	Back	3	190	836.6	31.67	2.03	32.0	**0.451**	1.079	0.487
	GPRS1900/4 slots	Front	3	512	1850.2	26.70	-3.15	27.0	0.459	1.072	0.492
18	GPRS1900/4 slots	Back	3	512	1850.2	26.70	0.79	27.0	**0.539**	1.072	0.578
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band II/RMC	Front	3	9538	1907.6	23.30	-0.10	23.5	0.186	1.047	0.195
	Band II/RMC	Back	3	9538	1907.6	23.30	-3.55	23.5	0.218	1.047	0.228
	Band II/RMC	Front	2	9400	1880	23.15	0.40	23.5	0.166	1.084	0.180
19	Band II/RMC	Back	2	9400	1880	23.15	2.16	23.5	**0.363**	1.084	0.393
	Band IV/RMC	Front	3	1413	1732.6	22.99	-1.36	23.0	0.245	1.002	0.245
20	Band IV/RMC	Back	3	1413	1732.6	22.99	-1.89	23.0	**0.821**	1.002	0.823
	Band IV/RMC	Back	3	1312	1712.4	22.93	0.73	23.0	0.676	1.016	0.687
	Band IV/RMC	Back	3	1513	1752.6	22.94	0.15	23.0	0.632	1.014	0.641
	Band IV/RMC	Front	2	1413	1732.6	23.10	-0.28	23.5	0.105	1.096	0.115
	Band IV/RMC	Back	2	1413	1732.6	23.10	3.96	23.5	0.158	1.096	0.173
	Band V/RMC	Front	3	4132	826.4	24.16	-0.03	24.5	0.255	1.081	0.276
21	Band V/RMC	Back	3	4132	826.4	24.16	-1.66	24.5	**0.343**	1.081	0.371
	Band V/RMC	Front	2	4132	826.4	24.21	-1.89	24.5	0.054	1.069	0.058
	Band V/RMC	Back	2	4132	826.4	24.21	-4.65	24.5	0.091	1.069	0.097
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band2/1RB#99	Front	3	19100	1900	24.05	-2.46	24.5	0.117	1.109	0.130
	Band2/1RB#99	Back	3	19100	1900	24.05	-0.82	24.5	0.167	1.109	0.185
	Band2/50%RB#0	Front	3	19100	1900	22.26	0.75	22.5	0.106	1.057	0.112
	Band2/50%RB#0	Back	3	19100	1900	22.26	-0.63	22.5	0.150	1.057	0.159
	Band2/1RB#99	Front	2	19100	1900	23.91	-0.83	24.0	0.183	1.021	0.187
22	Band2/1RB#99	Back	2	19100	1900	23.91	-0.87	24.0	**0.481**	1.021	0.491
	Band2/50%RB#49	Front	2	19100	1900	22.17	-1.19	22.5	0.125	1.079	0.135
	Band2/50%RB#49	Back	2	19100	1900	22.17	0.28	22.5	0.333	1.079	0.359
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 4(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band4/1RB#49	Front	3	20300	1745	24.27	5.50	24.5	0.092	1.054	0.097
	Band4/1RB#49	Back	3	20300	1745	24.27	1.67	24.5	0.135	1.054	0.142
	Band4/50%RB#0	Front	3	20050	1720	22.27	0.80	22.5	0.081	1.054	0.085
	Band4/50%RB#0	Back	3	20050	1720	22.27	-1.36	22.5	0.133	1.054	0.140
	Band4/1RB#99	Front	2	20300	1745	24.33	-1.34	24.5	0.128	1.040	0.133
23	Band4/1RB#99	Back	2	20300	1745	24.33	1.32	24.5	**0.223**	1.040	0.232
	Band4/50%RB#49	Front	2	20300	1745	22.30	0.72	22.5	0.093	1.047	0.097
	Band4/50%RB#49	Back	2	20300	1745	22.30	-0.01	22.5	0.162	1.047	0.170
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band5/1RB#49	Front	3	20525	836.5	24.28	1.20	24.5	0.206	1.052	0.217
24	Band5/1RB#49	Back	3	20525	836.5	24.28	-0.03	24.5	**0.298**	1.052	0.313
	Band5/50%RB#24	Front	3	20600	844	23.05	1.14	23.5	0.172	1.109	0.191
	Band5/50%RB#24	Back	3	20600	844	23.05	-0.10	23.5	0.240	1.109	0.266
	Band5/1RB#49	Front	2	20600	844	24.40	-0.78	24.5	0.079	1.023	0.081
	Band5/1RB#49	Back	2	20600	844	24.40	0.07	24.5	0.136	1.023	0.139
	Band5/50%RB#24	Front	2	20600	844	23.12	-1.58	23.5	0.063	1.091	0.069
	Band5/50%RB#24	Back	2	20600	844	23.12	0.95	23.5	0.106	1.091	0.116
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band7/1RB#49	Front	3	20850	2510	22.69	0.39	23.0	0.072	1.074	0.077
	Band7/1RB#49	Back	3	20850	2510	22.69	-0.25	23.0	0.213	1.074	0.229
	Band7/50%RB#24	Front	3	20850	2510	21.73	-0.04	22.0	0.062	1.064	0.066
	Band7/50%RB#24	Back	3	20850	2510	21.73	-0.18	22.0	0.198	1.064	0.211
	Band7/1RB#49	Front	2	20850	2510	22.69	-0.41	23.0	0.448	1.074	0.481
25	Band7/1RB#49	Back	2	20850	2510	22.69	-1.61	23.0	**0.461**	1.074	0.495
	Band7/50%RB#49	Front	2	20850	2510	21.72	0.38	22.0	0.369	1.067	0.394
	Band7/50%RB#49	Back	2	20850	2510	21.72	0.21	22.0	0.382	1.067	0.408
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ TDD-LTE Band 41(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	Band41/1RB#99	Front	3	41140	2645	22.64	0.01	23.0	0.137	1.086	1.008	0.150
26	Band41/1RB#99	Back	3	41140	2645	22.64	-0.36	23.0	**0.260**	1.086	1.008	0.285
	Band41/50%RB#0	Front	3	41140	2645	21.70	0.00	22.0	0.102	1.072	1.008	0.110
	Band41/50%RB#0	Back	3	41140	2645	21.70	-0.77	22.0	0.208	1.072	1.008	0.225
	Band41/1RB#49	Front	2	41140	2645	23.27	-0.30	23.5	0.199	1.054	1.008	0.211
	Band41/1RB#49	Back	2	41140	2645	23.27	2.58	23.5	0.227	1.054	1.008	0.241
	Band41/50%RB#24	Front	2	41140	2645	22.19	-2.01	22.5	0.173	1.074	1.008	0.187
	Band41/50%RB#24	Back	2	41140	2645	22.19	4.53	22.5	0.171	1.074	1.008	0.185
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 2.4GHz Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	2.4GHz/802.11b	Front	1	1	2416	16.62	0.42	17.0	0.192	1.091	1.016	0.213
27	2.4GHz/802.11b	Back	1	1	2416	16.62	4.01	17.0	**0.256**	1.091	1.016	0.284
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.2GHz/802.11a	Front	4	36	5180	13.35	0.98	13.5	0.162	1.035	1.108	0.186
28	5.2GHz/802.11a	Back	4	36	5180	13.35	2.41	13.5	**0.199**	1.035	1.108	0.228
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.3GHz Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.3GHz/802.11a	Front	4	52	5260	12.86	0.41	13.0	0.167	1.033	1.095	0.189
29	5.3GHz/802.11a	Back	4	52	5260	12.86	-0.28	13.0	**0.239**	1.033	1.095	0.270
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.6GHz Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.6GHz/802.11a	Front	4	120	5600	11.58	1.28	12.0	0.134	1.102	1.095	0.162
30	5.6GHz/802.11a	Back	4	120	5600	11.58	4.52	12.0	**0.212**	1.102	1.095	0.256
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.8GHz Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.8GHz/802.11a	Front	4	149	5745	13.49	1.93	13.5	0.212	1.002	1.096	0.233
31	5.8GHz/802.11a	Back	4	149	5745	13.49	0.79	13.5	**0.282**	1.002	1.096	0.310
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ Bluetooth Body SAR

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	BT/8DPSK	Front	1	0	2402	5.72	0.99	6.0	0.015	1.067	1.000	0.016
32	BT/8DPSK	Back	1	0	2402	5.72	0.46	6.0	**0.021**	1.067	1.000	0.022
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
4. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
5. Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤0.8W/kg, other channels SAR testing is not necessary.
6. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥0.8W/kg.
7. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
8. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
9. Highlight part of test data means repeated test.

15.3 Body SAR in Hotspot Mode

➢ GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	GPRS850/2 slots	Front	3	190	836.6	31.67	-0.64	32.0	0.285	1.079	0.308
17	GPRS850/2 slots	Back	3	190	836.6	31.67	2.03	32.0	**0.451**	1.079	0.487
	GPRS850/2 slots	Left	3	190	836.6	31.67	-1.06	32.0	0.117	1.079	0.126
	GPRS850/2 slots	Top	3	190	836.6	31.67	0.18	32.0	0.215	1.079	0.232
	GPRS1900/4 slots	Front	3	512	1850.2	26.70	-3.15	27.0	0.459	1.072	0.492
	GPRS1900/4 slots	Back	3	512	1850.2	26.70	0.79	27.0	0.539	1.072	0.578
	GPRS1900/4 slots	Left	3	512	1850.2	26.70	-0.99	27.0	0.129	1.072	0.138
	GPRS1900/4 slots	Top	3	512	1850.2	26.70	-0.91	27.0	0.749	1.072	0.803
33	GPRS1900/4 slots	Top	3	661	1880	26.58	-0.78	27.0	**0.894**	1.102	0.985
	GPRS1900/4 slots	Top	3	810	1909.8	26.22	-0.90	27.0	0.720	1.197	0.862
	GPRS1900/3 slots	**Top**	**3**	**661**	**1880**	**26.58**	**0.18**	**27.0**	**0.852**	**1.102**	**0.939**
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band II/RMC	Front	3	9538	1907.6	23.30	-0.10	23.5	0.186	1.047	0.195
	Band II/RMC	Back	3	9538	1907.6	23.30	-3.55	23.5	0.218	1.047	0.228
	Band II/RMC	Left	3	9538	1907.6	23.30	1.35	23.5	0.086	1.047	0.090
	Band II/RMC	Top	3	9538	1907.6	23.30	-0.43	23.5	0.336	1.047	0.352
	Band II/RMC	Front	2	9400	1880	23.15	0.40	23.5	0.166	1.084	0.180
19	Band II/RMC	Back	2	9400	1880	23.15	2.16	23.5	**0.363**	1.084	0.393
	Band II/RMC	Left	2	9400	1880	23.15	0.44	23.5	0.129	1.084	0.140
	Band II/RMC	Right	2	9400	1880	23.15	0.33	23.5	0.089	1.084	0.096
	Band II/RMC	Bottom	2	9400	1880	23.15	1.07	23.5	0.299	1.084	0.324
	Band IV/RMC	Front	3	1413	1732.6	22.99	-1.36	23.0	0.245	1.002	0.245
	Band IV/RMC	Back	3	1413	1732.6	22.99	-1.89	23.0	0.821	1.002	0.823
	Band IV/RMC	Left	3	1413	1732.6	22.99	-0.30	23.0	0.126	1.002	0.126
34	Band IV/RMC	Top	3	1413	1732.6	22.99	-0.35	23.0	**1.068**	1.002	1.070
	Band IV/RMC	Back	3	1312	1712.4	22.93	0.73	23.0	0.676	1.016	0.687
	Band IV/RMC	Back	3	1513	1752.6	22.94	0.15	23.0	0.632	1.014	0.641
	Band IV/RMC	Top	3	1312	1712.4	22.93	-0.07	23.0	0.844	1.016	0.858
	Band IV/RMC	Top	3	1513	1752.6	22.94	3.56	23.0	0.903	1.014	0.916
	Band IV/RMC	**Top**	**3**	**1413**	**1732.6**	**22.99**	**-3.81**	**23.0**	**1.004**	**1.002**	**1.006**
	Band IV/RMC	Front	2	1413	1732.6	23.10	-0.28	23.5	0.105	1.096	0.115
	Band IV/RMC	Back	2	1413	1732.6	23.10	3.96	23.5	0.158	1.096	0.173
	Band IV/RMC	Left	2	1413	1732.6	23.10	-1.05	23.5	0.056	1.096	0.061
	Band IV/RMC	Right	2	1413	1732.6	23.10	-1.87	23.5	0.038	1.096	0.042
	Band IV/RMC	Bottom	2	1413	1732.6	23.10	3.07	23.5	0.242	1.096	0.265
	Band V/RMC	Front	3	4132	826.4	24.16	-0.03	24.5	0.255	1.081	0.276
21	Band V/RMC	Back	3	4132	826.4	24.16	-1.66	24.5	**0.343**	1.081	0.371
	Band V/RMC	Left	3	4132	826.4	24.16	0.78	24.5	0.111	1.081	0.120
	Band V/RMC	Top	3	4132	826.4	24.16	-0.36	24.5	0.184	1.081	0.199
	Band V/RMC	Front	2	4132	826.4	24.21	-1.89	24.5	0.054	1.069	0.058
	Band V/RMC	Back	2	4132	826.4	24.21	-4.65	24.5	0.091	1.069	0.097
	Band V/RMC	Left	2	4132	826.4	24.21	-0.81	24.5	0.032	1.069	0.034
	Band V/RMC	Right	2	4132	826.4	24.21	1.09	24.5	0.022	1.069	0.024
	Band V/RMC	Bottom	2	4132	826.4	24.21	-0.56	24.5	0.109	1.069	0.117
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 2(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band2/1RB#99	Front	3	19100	1900	24.05	-2.46	24.5	0.117	1.109	0.130
	Band2/1RB#99	Back	3	19100	1900	24.05	-0.82	24.5	0.167	1.109	0.185
	Band2/1RB#99	Left	3	19100	1900	24.05	1.55	24.5	0.033	1.109	0.037
	Band2/1RB#99	Top	3	19100	1900	24.05	0.76	24.5	0.255	1.109	0.283
	Band2/50%RB#0	Front	3	19100	1900	22.26	0.75	22.5	0.106	1.057	0.112
	Band2/50%RB#0	Back	3	19100	1900	22.26	-0.63	22.5	0.150	1.057	0.159
	Band2/50%RB#0	Left	3	19100	1900	22.26	0.23	22.5	0.045	1.057	0.048
	Band2/50%RB#0	Top	3	19100	1900	22.26	0.96	22.5	0.214	1.057	0.226
	Band2/1RB#99	Front	2	19100	1900	23.91	-0.83	24.0	0.183	1.021	0.187
22	Band2/1RB#99	Back	2	19100	1900	23.91	-0.87	24.0	**0.481**	1.021	0.491
	Band2/1RB#99	Left	2	19100	1900	23.91	3.11	24.0	0.136	1.021	0.139
	Band2/1RB#99	Right	2	19100	1900	23.91	-0.07	24.0	0.117	1.021	0.119
	Band2/1RB#99	Bottom	2	19100	1900	23.91	1.75	24.0	0.336	1.021	0.343
	Band2/50%RB#49	Front	2	19100	1900	22.17	-1.19	22.5	0.125	1.079	0.135
	Band2/50%RB#49	Back	2	19100	1900	22.17	0.28	22.5	0.333	1.079	0.359
	Band2/50%RB#49	Left	2	19100	1900	22.17	0.14	22.5	0.096	1.079	0.104
	Band2/50%RB#49	Right	2	19100	1900	22.17	0.31	22.5	0.081	1.079	0.087
	Band2/50%RB#49	Bottom	2	19100	1900	22.17	3.06	22.5	0.226	1.079	0.244
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 4(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band4/1RB#49	Front	3	20300	1745	24.27	5.50	24.5	0.092	1.054	0.097
	Band4/1RB#49	Back	3	20300	1745	24.27	1.67	24.5	0.135	1.054	0.142
	Band4/1RB#49	Left	3	20300	1745	24.27	-0.06	24.5	0.041	1.054	0.043
	Band4/1RB#49	Top	3	20300	1745	24.27	0.55	24.5	0.216	1.054	0.228
	Band4/50%RB#0	Front	3	20050	1720	22.27	0.80	22.5	0.081	1.054	0.085
	Band4/50%RB#0	Back	3	20050	1720	22.27	-1.36	22.5	0.133	1.054	0.140
	Band4/50%RB#0	Left	3	20050	1720	22.27	-0.42	22.5	0.038	1.054	0.040
	Band4/50%RB#0	Top	3	20050	1720	22.27	0.32	22.5	0.180	1.054	0.190
	Band4/1RB#99	Front	2	20300	1745	24.33	-1.34	24.5	0.128	1.040	0.133
	Band4/1RB#99	Back	2	20300	1745	24.33	1.32	24.5	0.223	1.040	0.232
	Band4/1RB#99	Left	2	20300	1745	24.33	-0.40	24.5	0.060	1.040	0.062
	Band4/1RB#99	Right	2	20300	1745	24.33	-1.02	24.5	0.051	1.040	0.053
35	Band4/1RB#99	Bottom	2	20300	1745	24.33	0.87	24.5	**0.309**	1.040	0.321
	Band4/50%RB#49	Front	2	20300	1745	22.30	0.72	22.5	0.093	1.047	0.097
	Band4/50%RB#49	Back	2	20300	1745	22.30	-0.01	22.5	0.162	1.047	0.170
	Band4/50%RB#49	Left	2	20300	1745	22.30	-1.31	22.5	0.042	1.047	0.044
	Band4/50%RB#49	Right	2	20300	1745	22.30	1.83	22.5	0.032	1.047	0.034
	Band4/50%RB#49	Bottom	2	20300	1745	22.30	2.04	22.5	0.219	1.047	0.229
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 5(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band5/1RB#49	Front	3	20525	836.5	24.28	1.20	24.5	0.206	1.052	0.217
24	Band5/1RB#49	Back	3	20525	836.5	24.28	-0.03	24.5	**0.298**	1.052	0.313
	Band5/1RB#49	Left	3	20525	836.5	24.28	-1.36	24.5	0.112	1.052	0.118
	Band5/1RB#49	Top	3	20525	836.5	24.28	0.19	24.5	0.226	1.052	0.238
	Band5/50%RB#24	Front	3	20600	844	23.05	1.14	23.5	0.172	1.109	0.191
	Band5/50%RB#24	Back	3	20600	844	23.05	-0.10	23.5	0.240	1.109	0.266
	Band5/50%RB#24	Left	3	20600	844	23.05	0.71	23.5	0.086	1.109	0.095
	Band5/50%RB#24	Top	3	20600	844	23.05	1.44	23.5	0.177	1.109	0.196
	Band5/1RB#49	Front	2	20600	844	24.40	-0.78	24.5	0.079	1.023	0.081
	Band5/1RB#49	Back	2	20600	844	24.40	0.07	24.5	0.136	1.023	0.139
	Band5/1RB#49	Left	2	20600	844	24.40	0.48	24.5	0.026	1.023	0.027
	Band5/1RB#49	Right	2	20600	844	24.40	-1.09	24.5	0.023	1.023	0.024
	Band5/1RB#49	Bottom	2	20600	844	24.40	3.90	24.5	0.116	1.023	0.119
	Band5/50%RB#24	Front	2	20600	844	23.12	-1.58	23.5	0.063	1.091	0.069
	Band5/50%RB#24	Back	2	20600	844	23.12	0.95	23.5	0.106	1.091	0.116
	Band5/50%RB#24	Left	2	20600	844	23.12	0.53	23.5	0.021	1.091	0.023
	Band5/50%RB#24	Right	2	20600	844	23.12	1.38	23.5	0.015	1.091	0.016
	Band5/50%RB#24	Bottom	2	20600	844	23.12	-2.89	23.5	0.091	1.091	0.099
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 7(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band7/1RB#49	Front	3	20850	2510	22.69	0.39	23.0	0.072	1.074	0.077
	Band7/1RB#49	Back	3	20850	2510	22.69	-0.25	23.0	0.213	1.074	0.229
	Band7/1RB#49	Left	3	20850	2510	22.69	0.79	23.0	0.160	1.074	0.172
	Band7/1RB#49	Top	3	20850	2510	22.69	-0.70	23.0	0.318	1.074	0.342
	Band7/50%RB#24	Front	3	20850	2510	21.73	-0.04	22.0	0.062	1.064	0.066
	Band7/50%RB#24	Back	3	20850	2510	21.73	-0.18	22.0	0.198	1.064	0.211
	Band7/50%RB#24	Left	3	20850	2510	21.73	0.69	22.0	0.113	1.064	0.120
	Band7/50%RB#24	Top	3	20850	2510	21.73	0.89	22.0	0.224	1.064	0.238
	Band7/1RB#49	Front	2	20850	2510	22.69	-0.41	23.0	0.448	1.074	0.481
	Band7/1RB#49	Back	2	20850	2510	22.69	-1.61	23.0	0.461	1.074	0.495
36	Band7/1RB#49	Left	2	20850	2510	22.69	-0.93	23.0	**0.474**	1.074	0.509
	Band7/1RB#49	Right	2	20850	2510	22.69	-1.11	23.0	0.221	1.074	0.237
	Band7/1RB#49	Bottom	2	20850	2510	22.69	2.92	23.0	0.299	1.074	0.321
	Band7/50%RB#49	Front	2	20850	2510	21.72	0.38	22.0	0.369	1.067	0.394
	Band7/50%RB#49	Back	2	20850	2510	21.72	0.21	22.0	0.382	1.067	0.408
	Band7/50%RB#49	Left	2	20850	2510	21.72	0.59	22.0	0.404	1.067	0.431
	Band7/50%RB#49	Right	2	20850	2510	21.72	-1.73	22.0	0.186	1.067	0.198
	Band7/50%RB#49	Bottom	2	20850	2510	21.72	3.45	22.0	0.240	1.067	0.256
A ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**					

➢ TDD-LTE Band 41(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	Band41/1RB#99	Front	3	41140	2645	22.64	0.01	23.0	0.137	1.086	1.008	0.150
	Band41/1RB#99	Back	3	41140	2645	22.64	-0.36	23.0	0.260	1.086	1.008	0.285
	Band41/1RB#99	Left	3	41140	2645	22.64	0.96	23.0	0.129	1.086	1.008	0.141
37	Band41/1RB#99	Top	3	41140	2645	22.64	-0.47	23.0	**0.405**	1.086	1.008	0.443
	Band41/50%RB#0	Front	3	41140	2645	21.70	0.00	22.0	0.102	1.072	1.008	0.110
	Band41/50%RB#0	Back	3	41140	2645	21.70	-0.77	22.0	0.208	1.072	1.008	0.225
	Band41/50%RB#0	Left	3	41140	2645	21.70	0.90	22.0	0.135	1.072	1.008	0.146
	Band41/50%RB#0	Top	3	41140	2645	21.70	-0.91	22.0	0.351	1.072	1.008	0.379
	Band41/1RB#49	Front	2	41140	2645	23.27	-0.30	23.5	0.199	1.054	1.008	0.211
	Band41/1RB#49	Back	2	41140	2645	23.27	2.58	23.5	0.227	1.054	1.008	0.241
	Band41/1RB#49	Left	2	41140	2645	23.27	3.48	23.5	0.224	1.054	1.008	0.238
	Band41/1RB#49	Right	2	41140	2645	23.27	0.77	23.5	0.086	1.054	1.008	0.091
	Band41/1RB#49	Bottom	2	41140	2645	23.27	0.08	23.5	0.145	1.054	1.008	0.154
	Band41/50%RB#24	Front	2	41140	2645	22.19	-2.01	22.5	0.173	1.074	1.008	0.187
	Band41/50%RB#24	Back	2	41140	2645	22.19	4.53	22.5	0.171	1.074	1.008	0.185
	Band41/50%RB#24	Left	2	41140	2645	22.19	0.79	22.5	0.195	1.074	1.008	0.211
	Band41/50%RB#24	Right	2	41140	2645	22.19	-0.45	22.5	0.050	1.074	1.008	0.054
	Band41/50%RB#24	Bottom	2	41140	2645	22.19	-0.57	22.5	0.131	1.074	1.008	0.142
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	2.4GHz/802.11b	Front	1	1	2416	16.62	0.42	17.0	0.192	1.091	1.016	0.213
	2.4GHz/802.11b	Back	1	1	2416	16.62	4.01	17.0	0.256	1.091	1.016	0.284
	2.4GHz/802.11b	Right	1	1	2416	16.62	1.35	17.0	0.312	1.091	1.016	0.346
38	2.4GHz/802.11b	Top	1	1	2416	16.62	0.81	17.0	**0.335**	1.091	1.016	0.371
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.2GHz/802.11a	Front	4	36	5180	13.35	0.98	13.5	0.162	1.035	1.108	0.186
	5.2GHz/802.11a	Back	4	36	5180	13.35	2.41	13.5	0.199	1.035	1.108	0.228
	5.2GHz/802.11a	Right	4	36	5180	13.35	-0.39	13.5	0.125	1.035	1.108	0.143
39	5.2GHz/802.11a	Top	4	36	5180	13.35	0.88	13.5	**0.239**	1.035	1.108	0.274
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.8GHz/802.11a	Front	4	149	5745	13.49	1.93	13.5	0.212	1.002	1.096	0.233
	5.8GHz/802.11a	Back	4	149	5745	13.49	0.79	13.5	0.282	1.002	1.096	0.310
	5.8GHz/802.11a	Right	4	149	5745	13.49	-1.47	13.5	0.126	1.002	1.096	0.138
40	5.8GHz/802.11a	Top	4	149	5745	13.49	0.51	13.5	**0.359**	1.002	1.096	0.394
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

➢ Bluetooth Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	ANT	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	BT/8DPSK	Front	1	0	2402	5.72	0.99	6.0	0.015	1.067	1.000	0.016
32	BT/8DPSK	Back	1	0	2402	5.72	0.46	6.0	**0.021**	1.067	1.000	0.022
	BT/8DPSK	Right	1	0	2402	5.72	-1.30	6.0	0.019	1.067	1.000	0.020
	BT/8DPSK	Top	1	0	2402	5.72	2.21	6.0	0.020	1.067	1.000	0.021
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

Note:

1. Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤0.8W/kg, other channels SAR testing is not necessary.
2. Additional WLAN SAR testing was performed for simultaneous transmission analysis.
3. For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
4. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA SAR evaluation can be excluded.
5. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥0.8W/kg.
6. Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is > 1.2 W/kg, SAR testing with a headset connected to the handset is required.
7. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel.
8. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
9. Highlight part of test data means repeated test.

15.4 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1st Repeated		2nd Repeated	
					Value	Ratio	Value	Ratio
GSM850/Voice	Right Cheek	3	251	0.946	0.910	1.04	/	/
PCS1900/Voice	Right Tilted	3	512	0.829	0.792	1.05	/	/
GPRS1900/3 slots	Top	3	661	0.894	0.852	1.05	/	/
Band IV/RMC	Top	3	1413	1.068	1.004	1.06	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				**1.6 W/kg (mW/g) Averaged over 1g**				

Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8 W/kg
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR <1.45 W/kg, only one repeated measurement is required.

15.5 Multi-Band Simultaneous Transmission Considerations

➢ **Simultaneous Transmission Capabilities**

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

Fig.15.1 Simultaneous Transmission Paths

➢ **Simultaneous Transmission Procedures**

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D04v01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D04v01 Appendix E, E.1), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$SAR_{est} = 1.6 \cdot P_{ant} / P_{th} \ [\mathrm{W/kg}].$$

Note:

1. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, P_{th} =1mW.

➢ **Multi-Band simultaneous Transmission Consideration**

	Position	Applicable Combination
Simultaneous Transmission Consideration	Head	WWAN (Voice) + WLAN 2.4 GHz/5.2GHz/5.3GHz/5.6GHz /5.8GHz
		WWAN (Voice) + Bluetooth
	Body	WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.3GHz/5.6GHz /5.8GHz
		WWAN (Data) + Bluetooth
	Hotspot	WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.8GHz
		WWAN (Data) + Bluetooth

Note:

1. WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.3GHz Band, WLAN 5.6GHz Band, WLAN 5.8GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously.
2. WCDMALTE ANT 2 and WCDMA/LTE ANT 3 cannot transmit simultaneously.
3. GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
4. The Report SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D04v01, simultaneous transmission SAR is compliant if,
   i. Scalar SAR summation < 1.6 W/kg.
   ii. SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (*min. separation distance, mm*), and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary
   iii. Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.6 SAR Simultaneous Transmission Analysis

➢ **Simultaneous Transmission**

Position		Standalone SAR(W/kg)				ΣSAR_{1g} (W/kg)		
		1	2	3	4	1+2	1+3	1+4
		WWAN	2.4G WLAN	5G WLAN	BT			
Head	Right Cheek	1.057	0.399	0.264	0.025	1.456	1.321	1.082
	Right Tilted	0.873	0.469	0.501	0.030	1.342	1.374	0.903
	Left Cheek	0.770	0.743	0.322	0.033	1.513	1.092	0.803
	Left Tilted	0.725	0.558	0.575	0.034	1.283	1.3	0.759
Body-worn	Front	0.492	0.213	0.233	0.016	0.705	0.725	0.508
	Back	0.823	0.284	0.310	0.022	1.107	1.133	0.845
Hotspot	Front	0.492	0.213	0.233	0.016	0.705	0.725	0.508
	Back	0.823	0.284	0.310	0.022	1.107	1.133	0.845
	Left	0.509	/	/	/	0.509	0.509	0.509
	Right	0.237	0.346	0.143	0.020	0.583	0.38	0.257
	Top	1.070	0.371	0.394	0.021	1.441	1.464	1.091
	Bottom	0.343	/	/	/	0.343	0.343	0.343

➢ **Simultaneous Transmission Conclusion**

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01.

15.7 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEC/IEEE 62209-1528:2020 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

16 Reference

[1]. FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2]. ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3]. IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, October 2020

[4]. OpenSAR V5 Software User Manual

[5]. FCC KDB 248227 D01 v02r02, “SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS”, October 2015

[6]. FCC KDB 447498 D04 v01, “RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES”, November 2021

[7]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015

[8]. FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, October 2015

[9]. FCC KDB 941225 D05 v02r05, “SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES”, Dec 2015

[10]. FCC KDB 941225 D06 v02r01, " SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES", October 2015

[11]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

System check at 835 MHz

Date of measurement: 15/3/2024

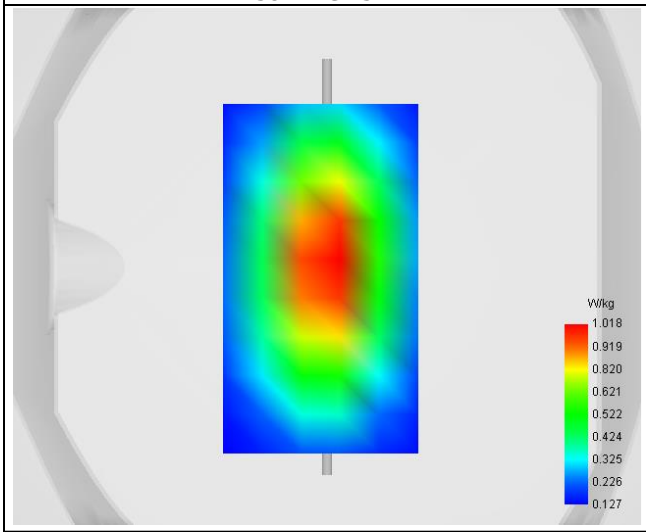
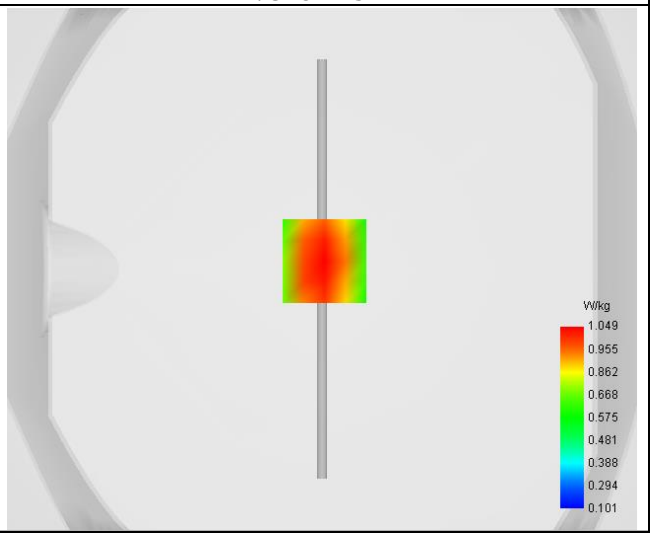
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW835
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	835.000000
Relative permitivity (real part)	41.228951
Conductivity (S/m)	0.899950

C. SAR Surface and Volume

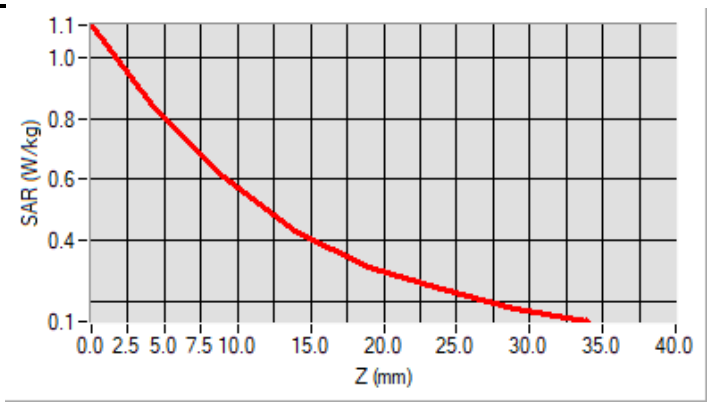
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=3.00 ; SAR Peak: 1.11 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.596881
SAR 1g (W/Kg)	0.962340
Variation (%)	-1.010000

E. Z Axis Scan



System check at 1750 MHz

Date of measurement: 17/3/2024

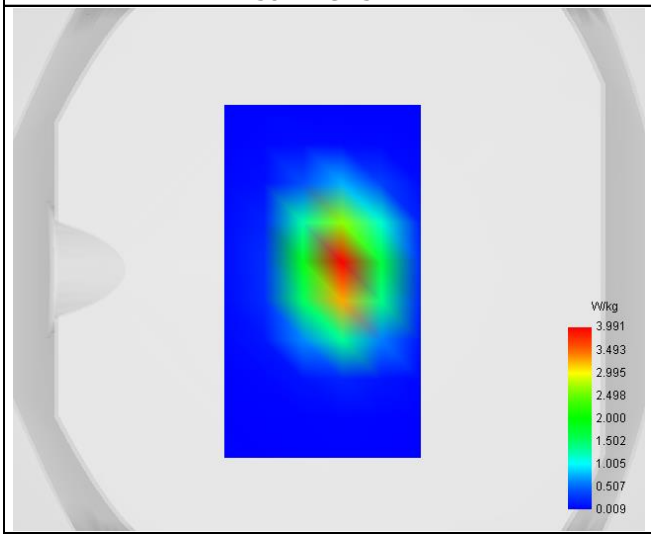
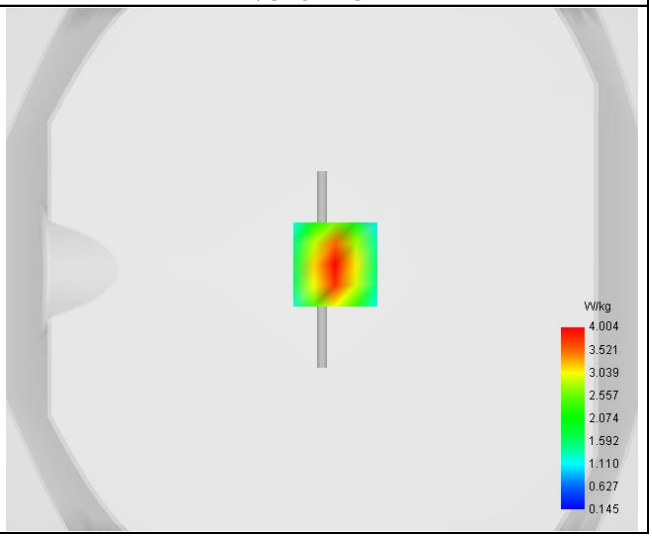
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW1750
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1750.000000
Relative permitivity (real part)	39.520538
Conductivity (S/m)	1.348941

C. SAR Surface and Volume

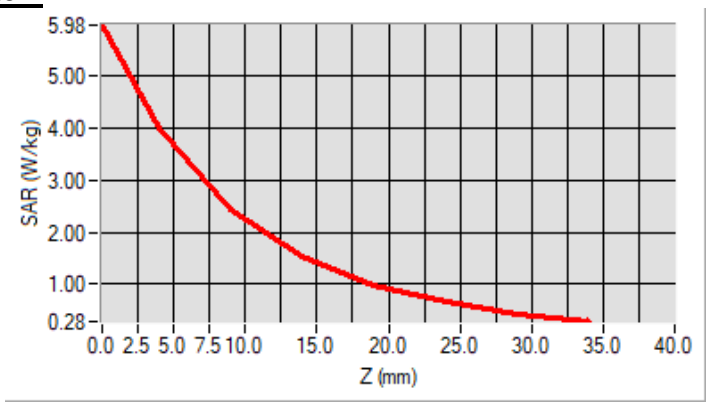
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=2.00 ; SAR Peak: 5.94 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.933364
SAR 1g (W/Kg)	3.581100
Variation (%)	-1.180000

E. Z Axis Scan



System check at 1900 MHz

Date of measurement: 17/3/2024

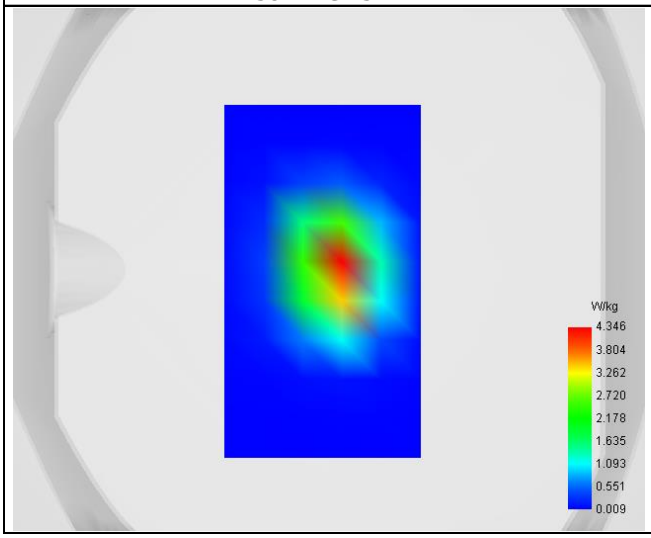
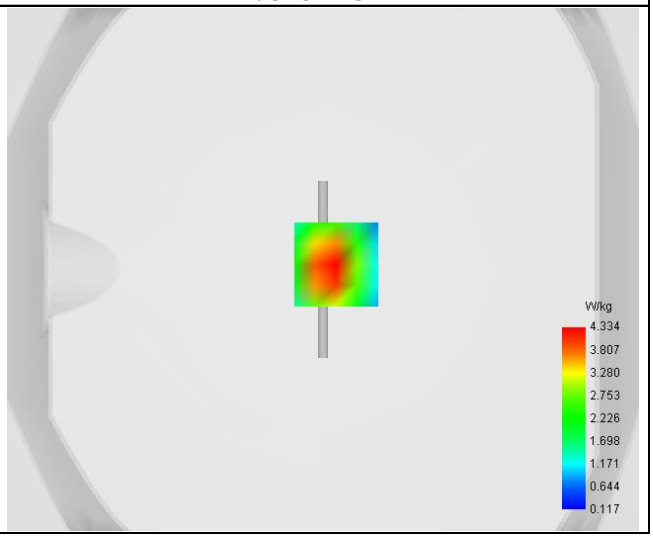
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW1900
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1900.000000
Relative permitivity (real part)	39.441618
Conductivity (S/m)	1.376000

C. SAR Surface and Volume

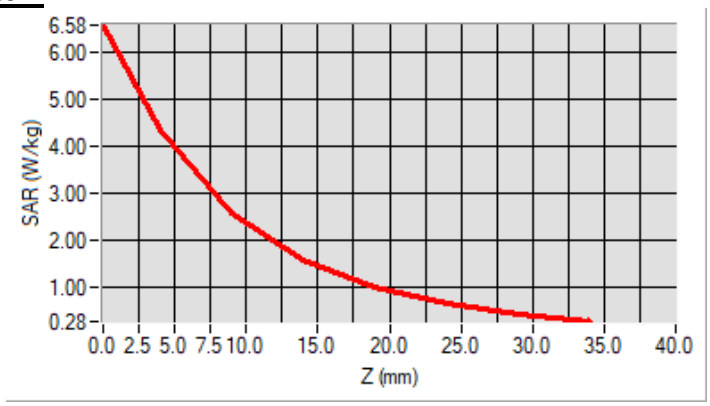
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=2.00 ; SAR Peak: 6.71 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.110053
SAR 1g (W/Kg)	4.087111
Variation (%)	3.100000

E. Z Axis Scan



System check at 2450 MHz

Date of measurement: 20/3/2024

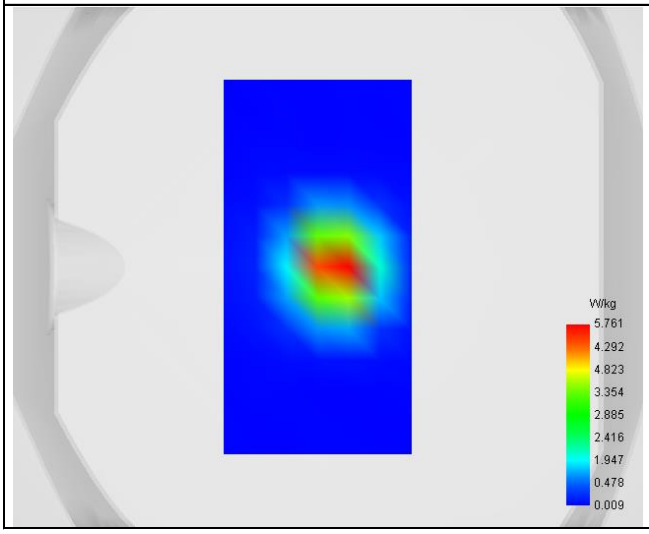
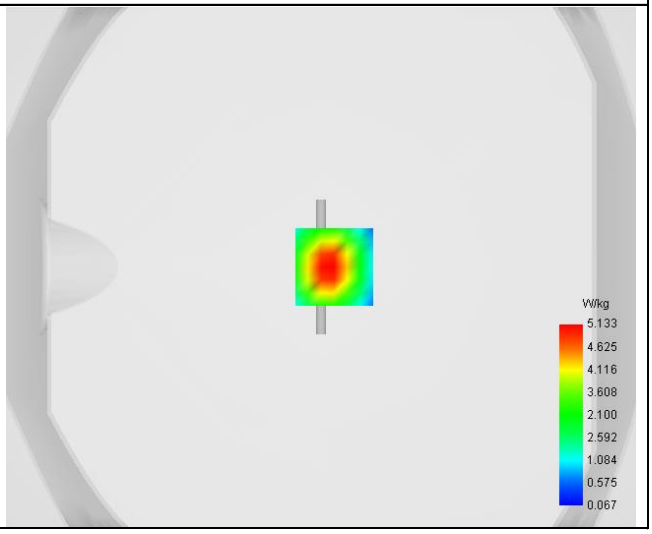
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW2450
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2450.000000
Relative permitivity (real part)	38.641615
Conductivity (S/m)	1.769028

C. SAR Surface and Volume

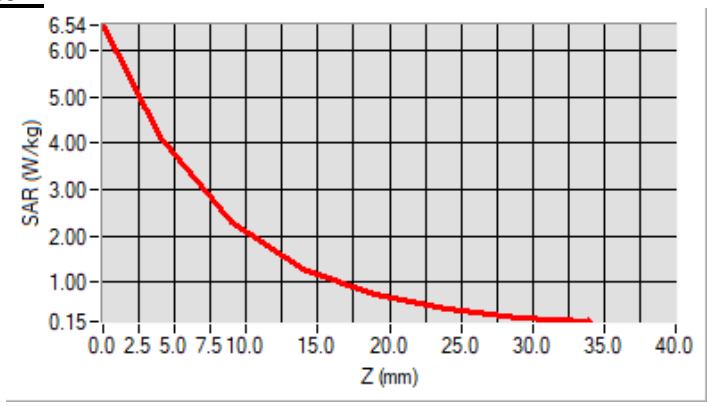
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=0.00 ; SAR Peak: 6.58 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.347047
SAR 1g (W/Kg)	5.311106
Variation (%)	-2.040000

E. Z Axis Scan



System check at 2600 MHz

Date of measurement: 20/3/2024

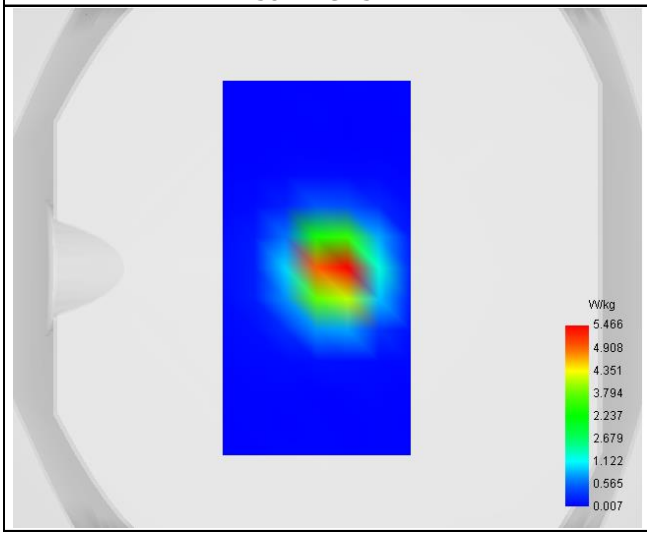
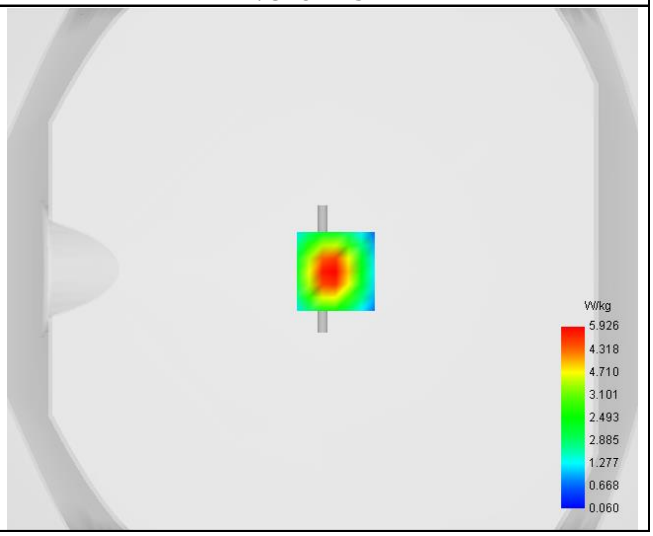
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW2600
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2600.000000
Relative permitivity (real part)	38.450726
Conductivity (S/m)	1.930680

C. SAR Surface and Volume

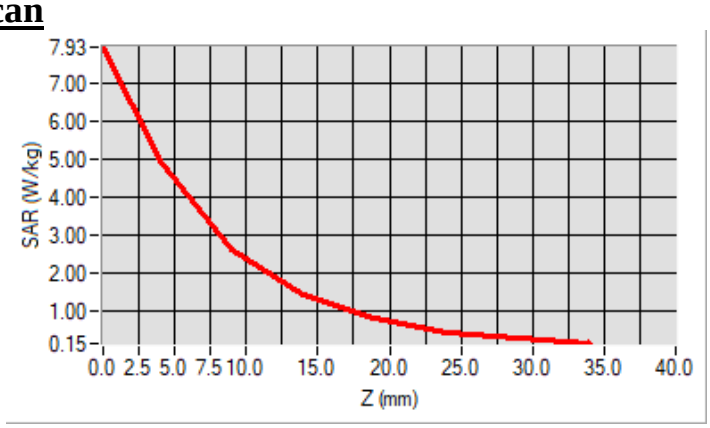
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 7.99 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.245531
SAR 1g (W/Kg)	5.267883
Variation (%)	4.380000

E. Z Axis Scan



System check at 5200 MHz

Date of measurement: 23/3/2024

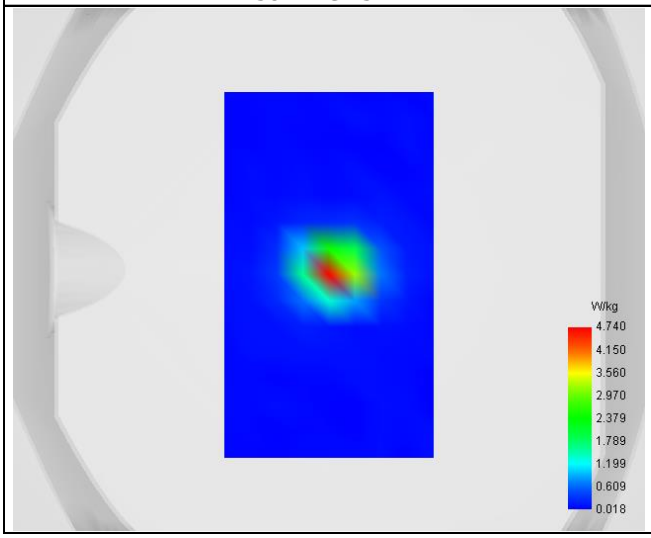
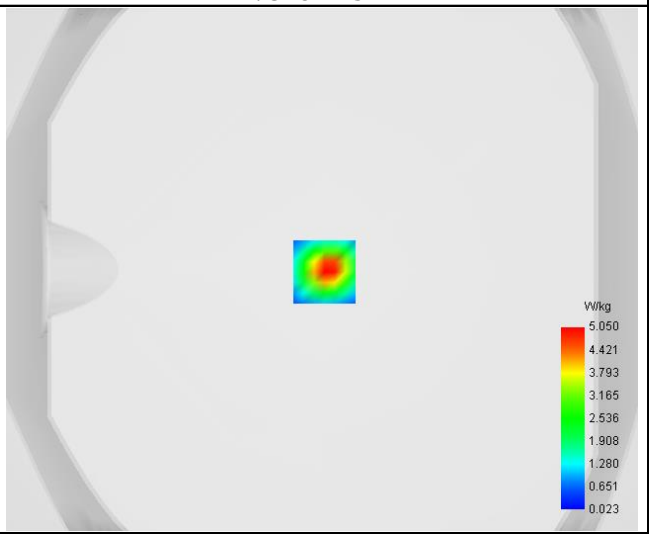
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.42
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5200.000000
Relative permitivity (real part)	35.931105
Conductivity (S/m)	4.648943

C. SAR Surface and Volume

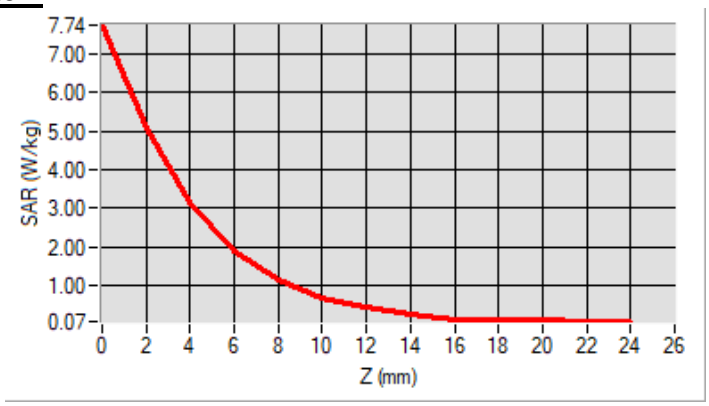
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 8.13 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.952256
SAR 1g (W/Kg)	3.111084
Variation (%)	-3.560000

E. Z Axis Scan



System check at 5400 MHz

Date of measurement: 23/3/2024

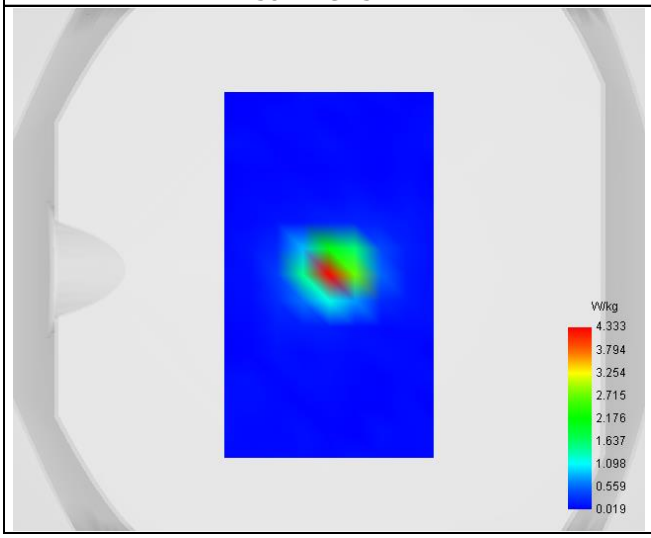
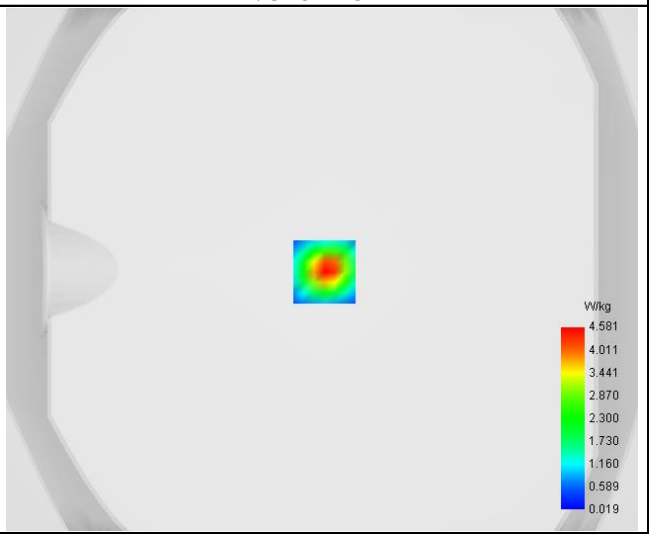
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.40
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5400.000000
Relative permitivity (real part)	35.702511
Conductivity (S/m)	4.853661

C. SAR Surface and Volume

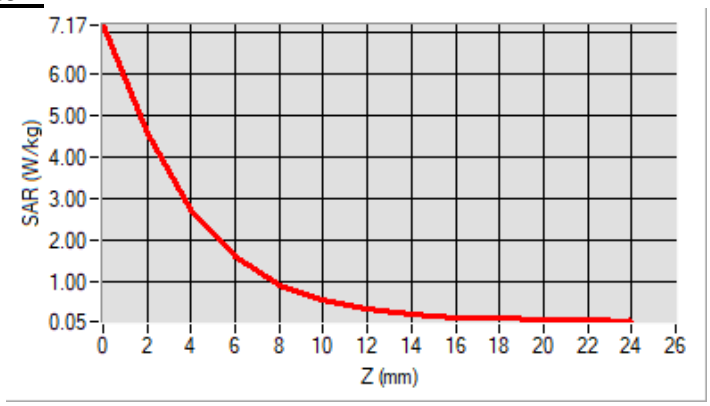
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 7.50 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.967344
SAR 1g (W/Kg)	3.307217
Variation (%)	1.830000

E. Z Axis Scan



System check at 5600 MHz

Date of measurement: 26/3/2024

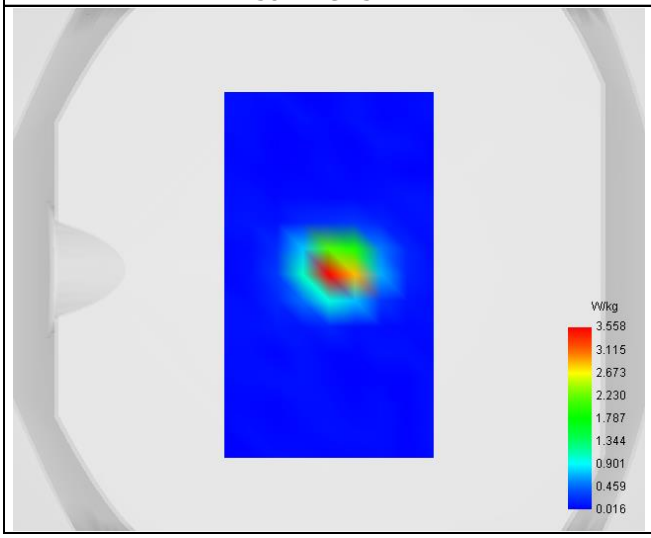
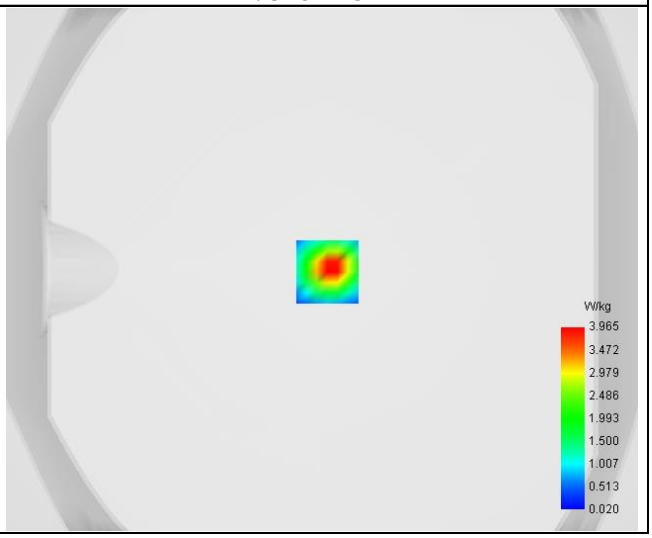
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.26
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5600.000000
Relative permitivity (real part)	35.474119
Conductivity (S/m)	5.058533

C. SAR Surface and Volume

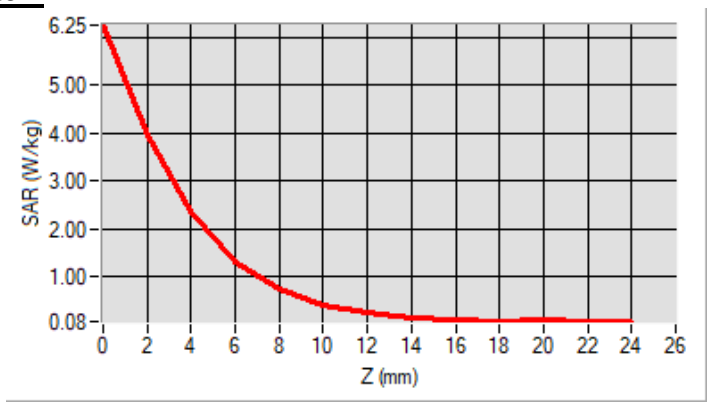
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 6.82 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.955427
SAR 1g (W/Kg)	3.193580
Variation (%)	-2.039000

E. Z Axis Scan



System check at 5800 MHz

Date of measurement: 29/3/2024

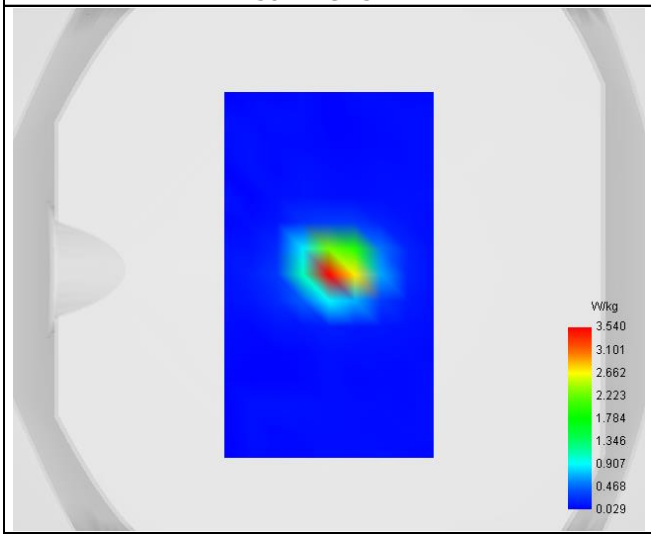
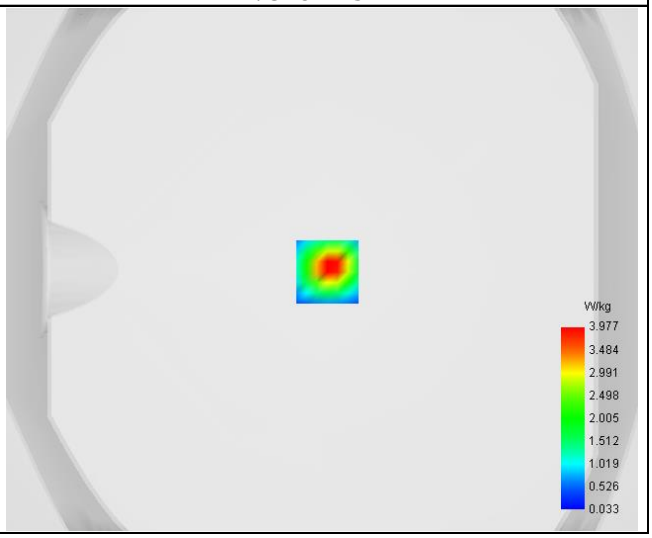
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.18
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5800.000000
Relative permitivity (real part)	35.245399
Conductivity (S/m)	5.263200

C. SAR Surface and Volume

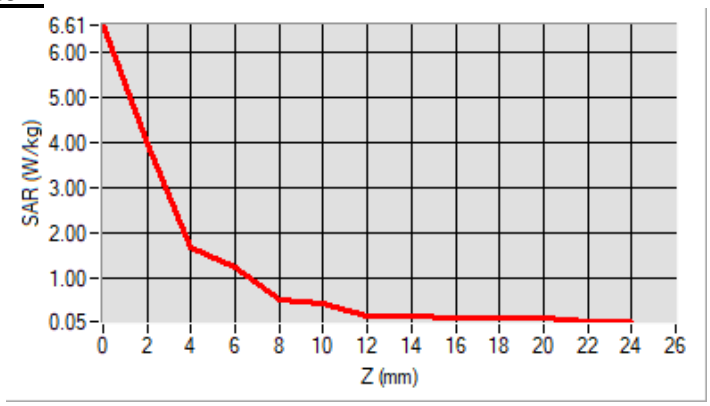
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 7.02 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.927417
SAR 1g (W/Kg)	3.203111
Variation (%)	0.570000

E. Z Axis Scan



Appendix B: Plots of SAR Test Data

SAR Measurement at GSM850 (Cheek, Right)

Date of measurement: 15/3/2024

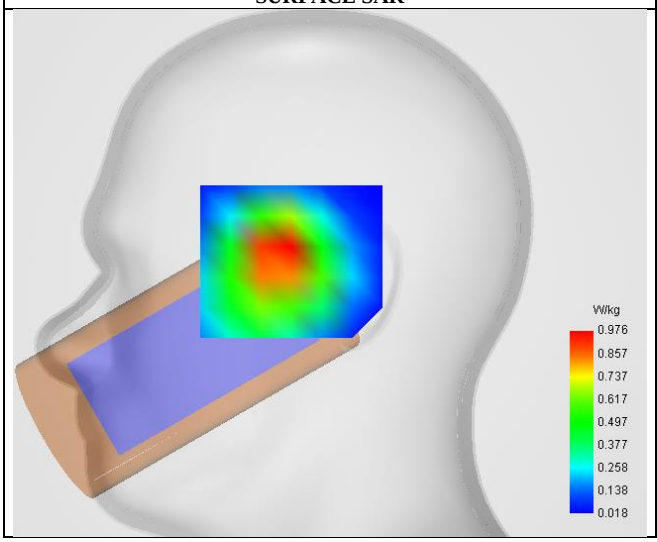
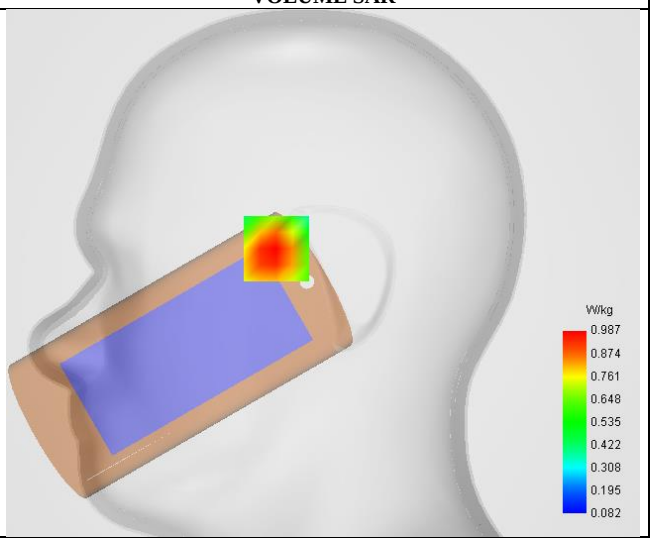
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.0)

B. Permitivity

Frequency (MHz)	848.799988
Relative permitivity (real part)	41.181683
Conductivity (S/m)	0.902521

C. SAR Surface and Volume

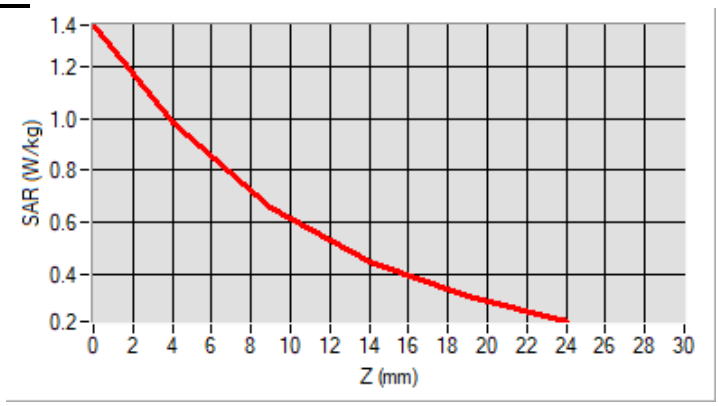
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-23.00, Y=12.00 ; SAR Peak: 1.36 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.627795
SAR 1g (W/Kg)	0.945722
Variation (%)	-0.970000

E. Z Axis Scan



SAR Measurement at GSM1900 (Tilt, Right)

Date of measurement: 17/3/2024

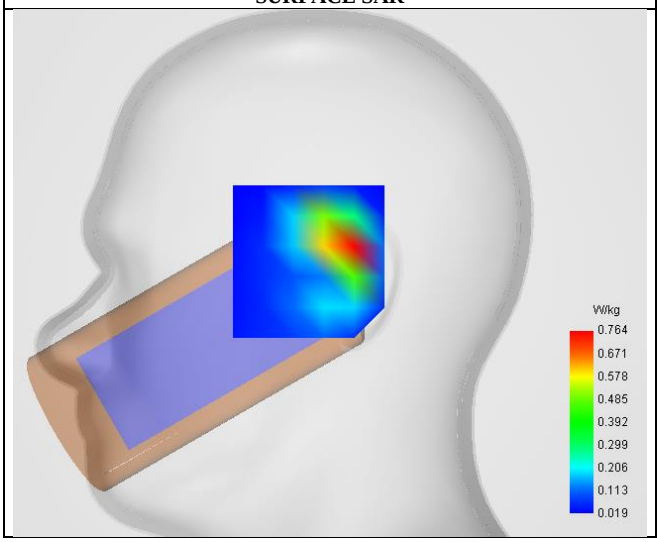
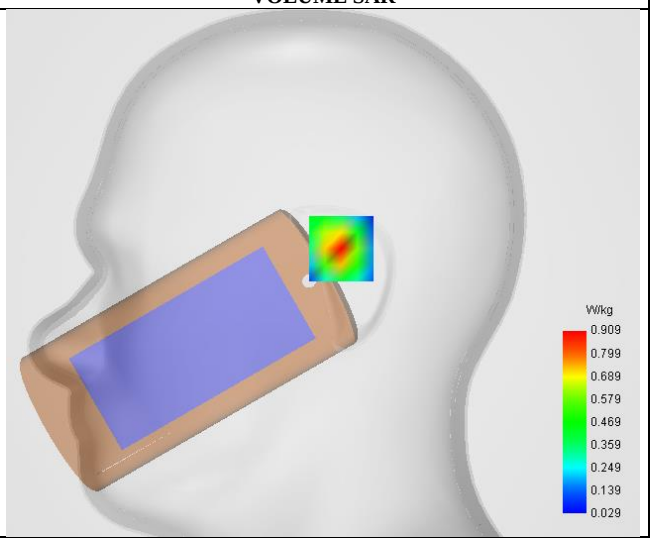
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. Permitivity

Frequency (MHz)	1850.199951
Relative permitivity (real part)	39.441633
Conductivity (S/m)	1.376607

C. SAR Surface and Volume

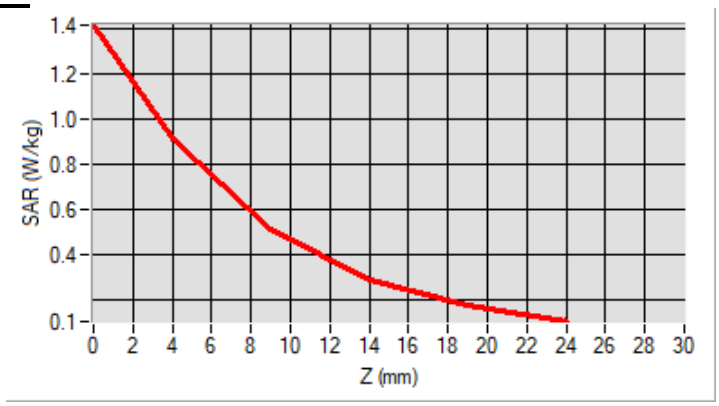
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=12.00 ; SAR Peak: 1.43 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.423296
SAR 1g (W/Kg)	0.829328
Variation (%)	1.350000

E. Z Axis Scan



SAR Measurement at Band2_WCDMA1900 (Tilt, Right)

Date of measurement: 17/3/2024

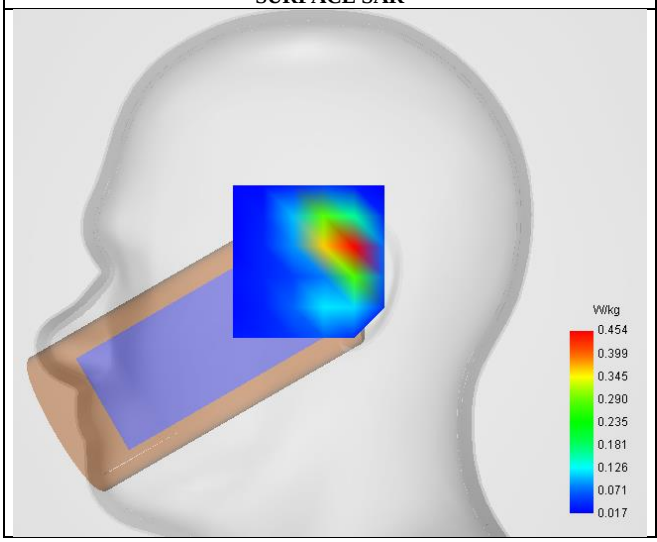
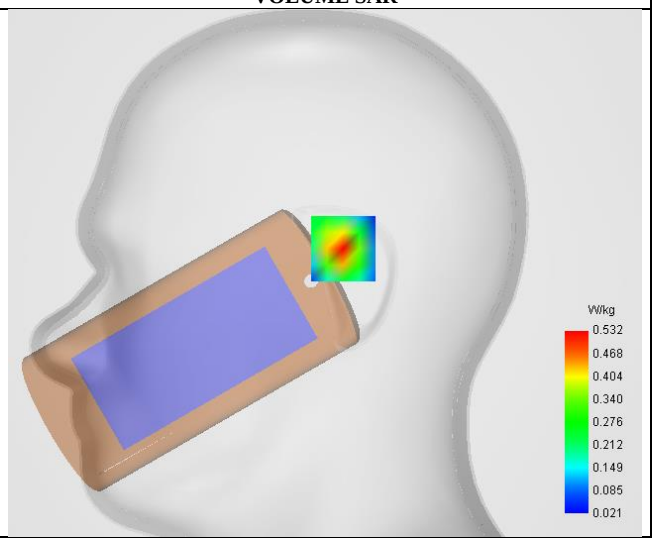
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	Band2_WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1907.600000
Relative permitivity (real part)	39.441600
Conductivity (S/m)	1.375843

C. SAR Surface and Volume

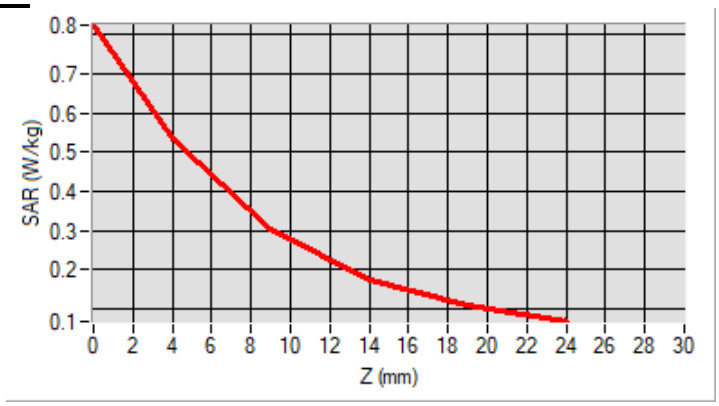
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=12.00 ; SAR Peak: 0.84 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.248884
SAR 1g (W/Kg)	0.485437
Variation (%)	-1.900000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA_1700) (Tilt, Right)

Date of measurement: 17/3/2024

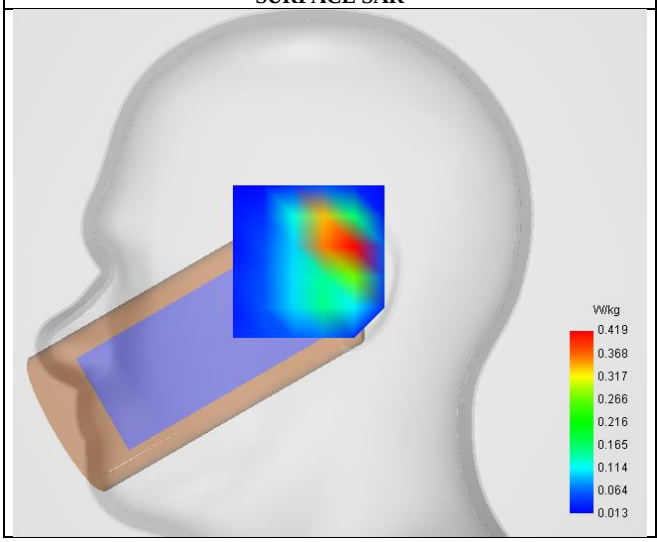
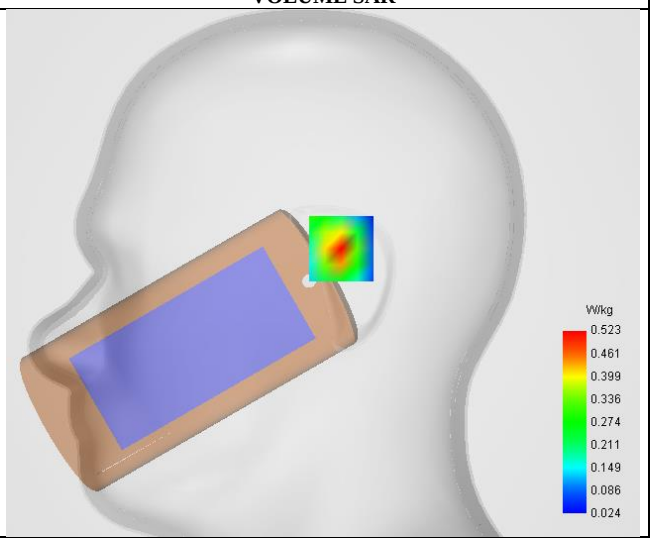
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	WCDMA 1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1732.599976
Relative permitivity (real part)	39.548941
Conductivity (S/m)	1.338740

C. SAR Surface and Volume

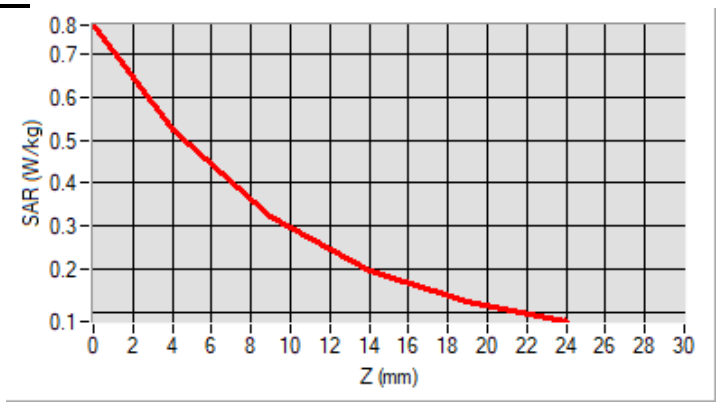
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=12.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.253411
SAR 1g (W/Kg)	0.477071
Variation (%)	3.140000

E. Z Axis Scan



SAR Measurement at Band5_WCDMA850 (Cheek, Right)

Date of measurement: 15/3/2024

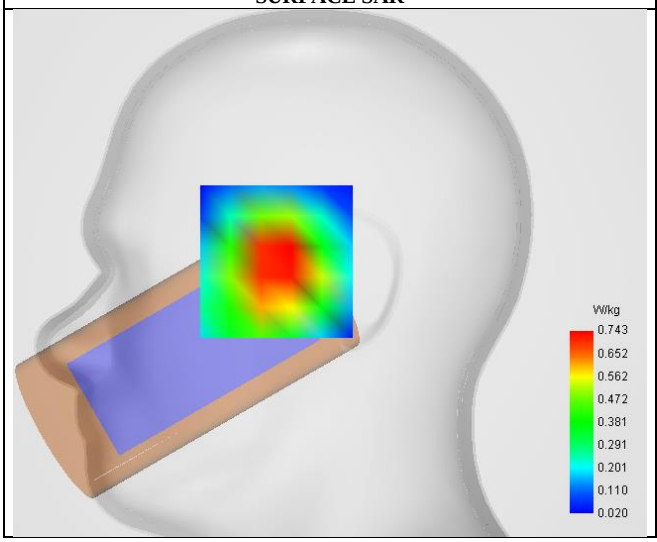
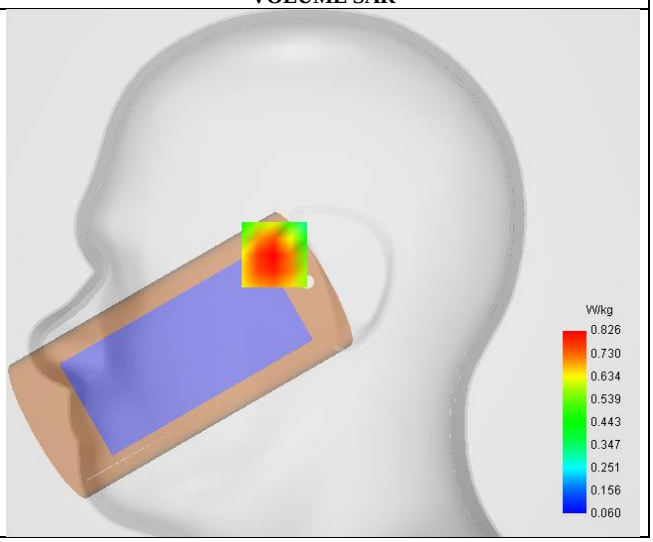
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	836.599976
Relative permitivity (real part)	41.234032
Conductivity (S/m)	0.899432

C. SAR Surface and Volume

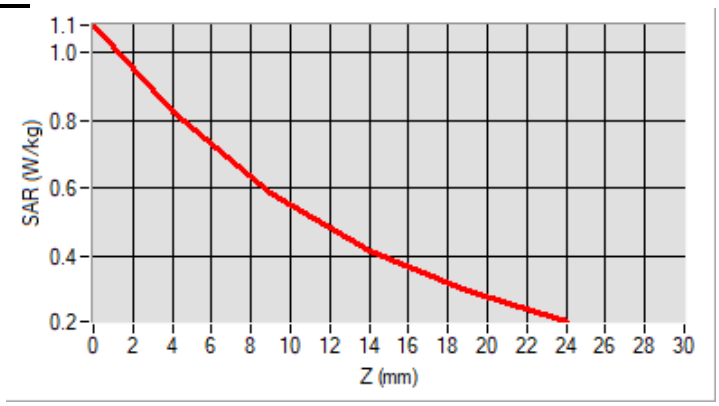
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-24.00, Y=9.00 ; SAR Peak: 1.08 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.538091
SAR 1g (W/Kg)	0.790659
Variation (%)	-1.710000

E. Z Axis Scan



SAR Measurement at LTE band 2 (Tilt, Right)

Date of measurement: 17/3/2024

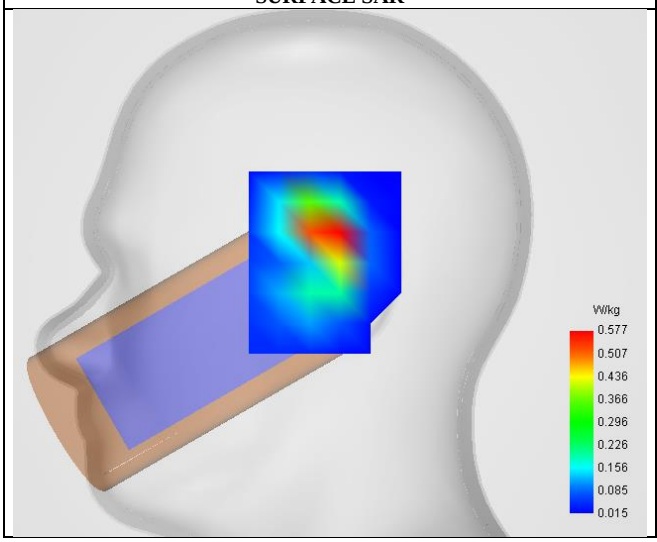
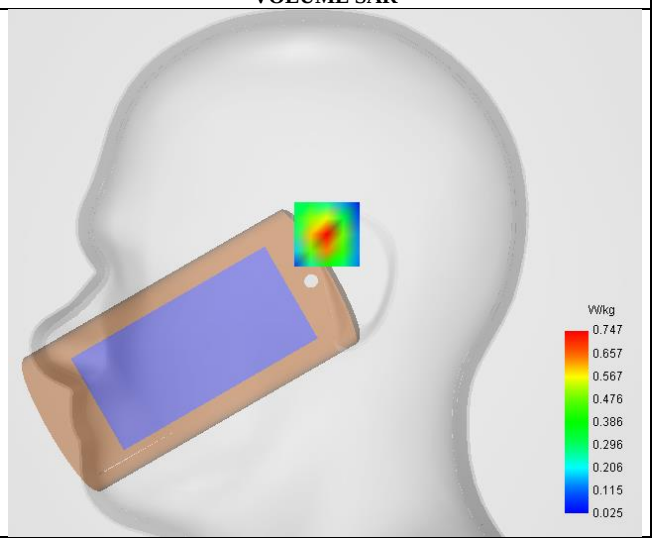
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 2
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1900.000000
Relative permitivity (real part)	39.441618
Conductivity (S/m)	1.376000

C. SAR Surface and Volume

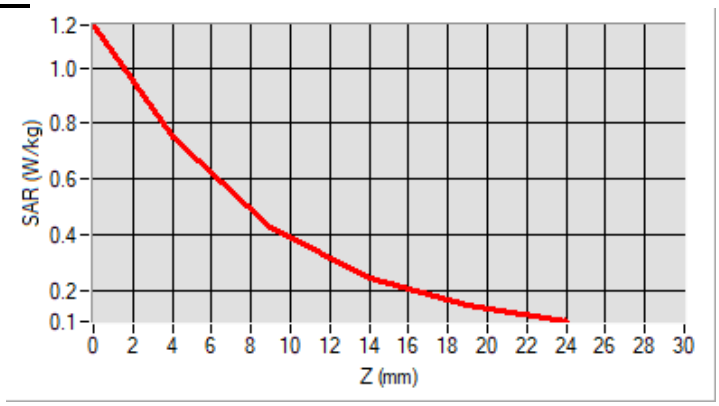
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=19.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.347136
SAR 1g (W/Kg)	0.684424
Variation (%)	0.100000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE_Band_4) (Cheek, Right)

Date of measurement: 17/3/2024

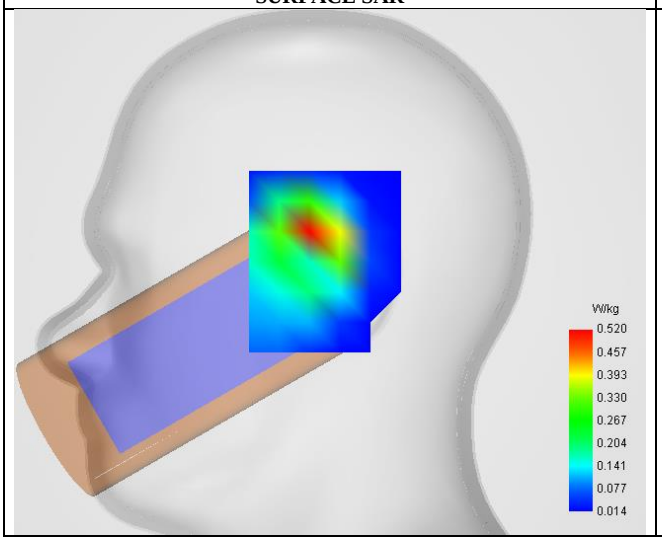
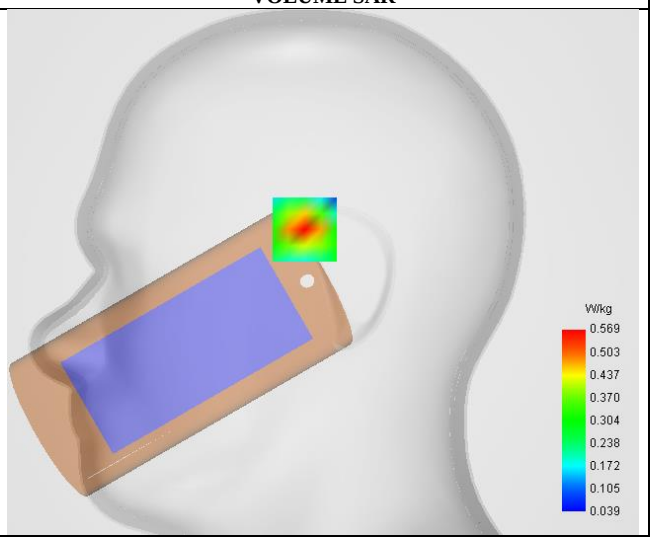
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1745.000000
Relative permitivity (real part)	39.528413
Conductivity (S/m)	1.346100

C. SAR Surface and Volume

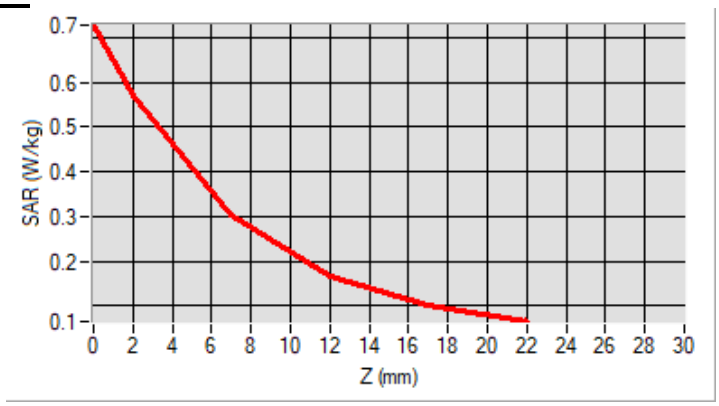
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-9.00, Y=21.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.278202
SAR 1g (W/Kg)	0.525131
Variation (%)	-0.590000

E. Z Axis Scan



SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 15/3/2024

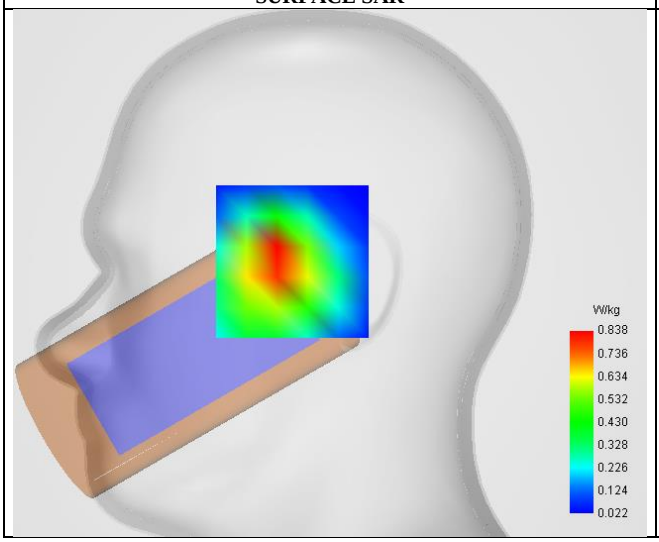
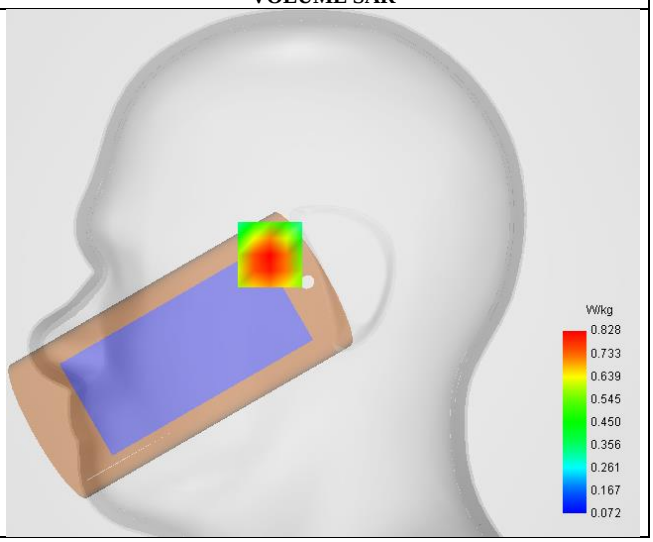
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	836.500000
Relative permitivity (real part)	41.234032
Conductivity (S/m)	0.899432

C. SAR Surface and Volume

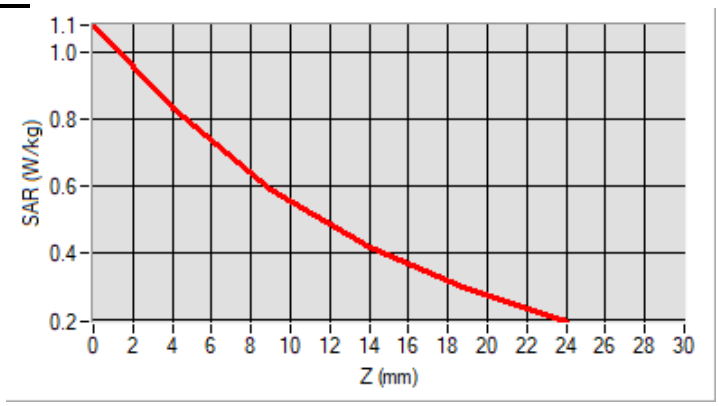
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-26.00, Y=9.00 ; SAR Peak: 1.08 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.535982
SAR 1g (W/Kg)	0.792559
Variation (%)	0.010000

E. Z Axis Scan



SAR Measurement at LTE band 7 (Tilt, Right)

Date of measurement: 20/3/2024

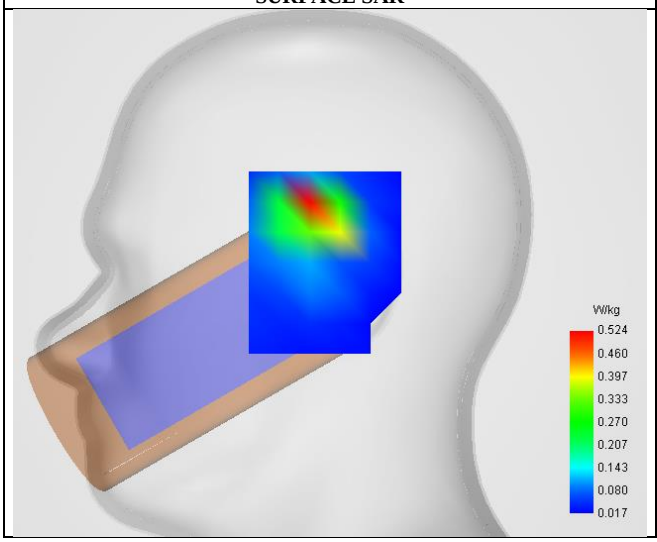
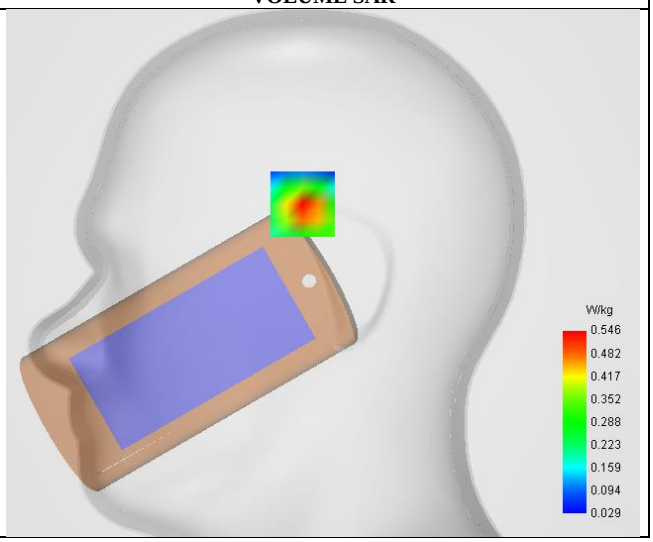
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 7
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2510.000000
Relative permitivity (real part)	38.565217
Conductivity (S/m)	1.833729

C. SAR Surface and Volume

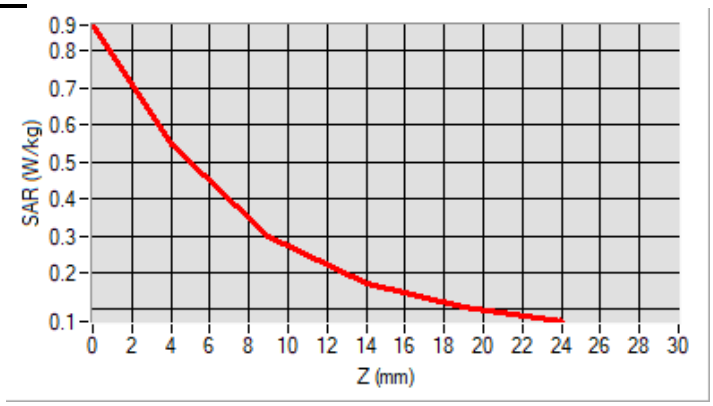
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=34.00 ; SAR Peak: 0.89 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.262740
SAR 1g (W/Kg)	0.509406
Variation (%)	1.830000

E. Z Axis Scan



SAR Measurement at LTE band 41 (Tilt, Right)

Date of measurement: 20/3/2024

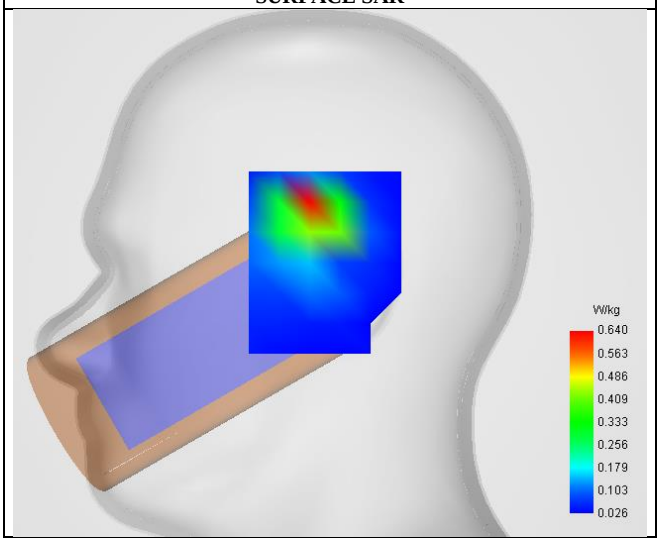
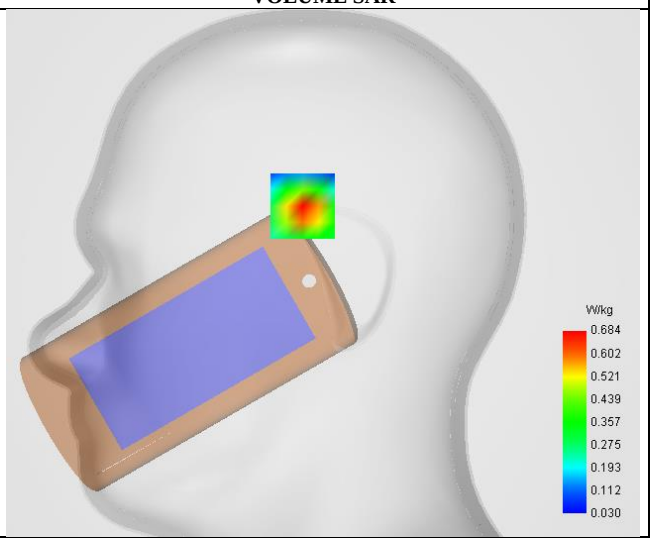
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	dx=15mm dy=15mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	LTE band 41
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2645.000000
Relative permitivity (real part)	38.393452
Conductivity (S/m)	1.994311

C. SAR Surface and Volume

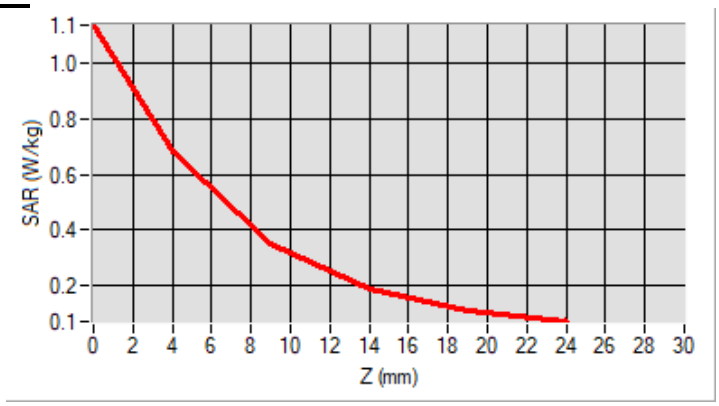
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=33.00 ; SAR Peak: 1.16 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.317102
SAR 1g (W/Kg)	0.636496
Variation (%)	-1.350000

E. Z Axis Scan



SAR Measurement at IEEE 802.11b ISM (Cheek, Left)

Date of measurement: 20/3/2024

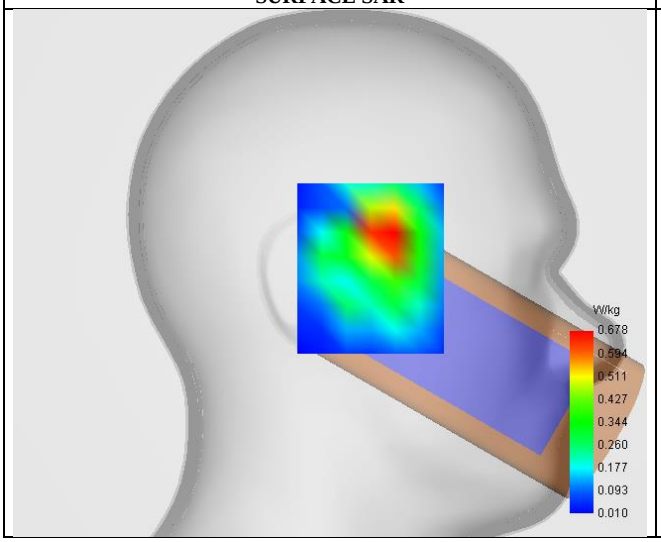
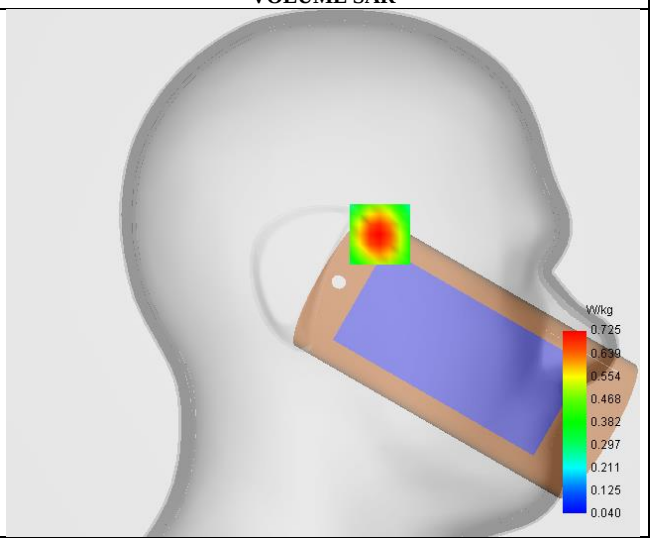
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2416.000000
Relative permitivity (real part)	38.702020
Conductivity (S/m)	1.739222

C. SAR Surface and Volume

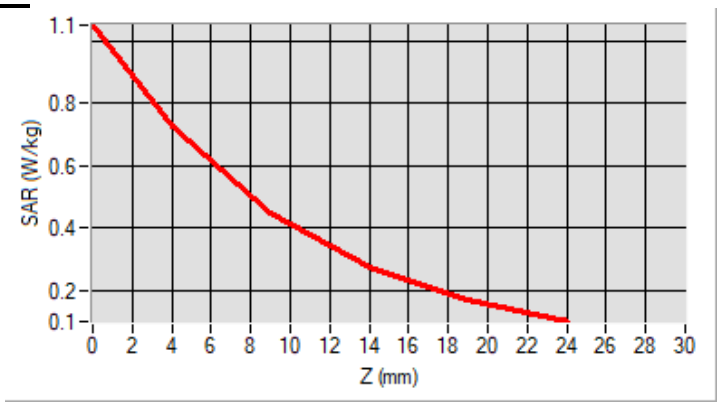
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-28.00, Y=19.00 ; SAR Peak: 1.05 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.386506
SAR 1g (W/Kg)	0.670094
Variation (%)	-0.390000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz_802.11a) (Tilt, Left)

Date of measurement: 23/3/2024

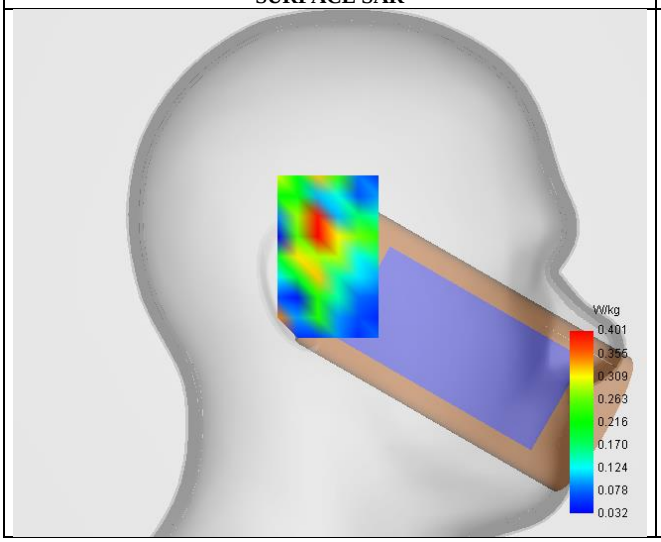
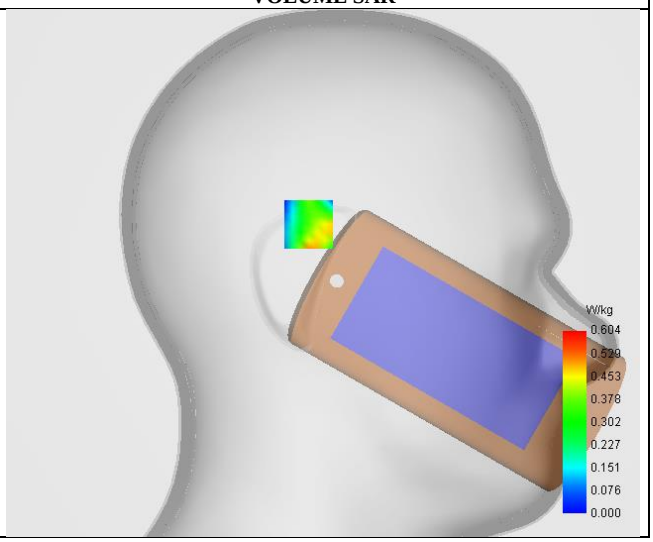
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.42
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Tilt
Band	5.2GHz_802.11a
Channels	Low
Signal	5.2GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5180.000000
Relative permitivity (real part)	35.954333
Conductivity (S/m)	4.628501

C. SAR Surface and Volume

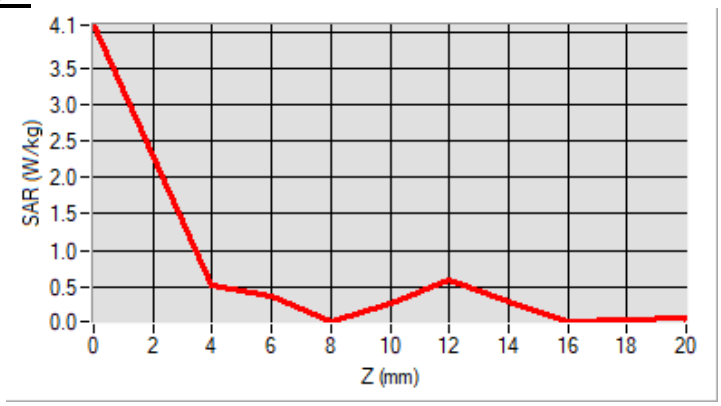
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=24.00 ; SAR Peak: 2.07 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.225695
SAR 1g (W/Kg)	0.434020
Variation (%)	0.400002

E. Z Axis Scan



SAR Measurement at CUSTOM (5.3GHz_802.11a) (Tilt, Left)

Date of measurement: 23/3/2024

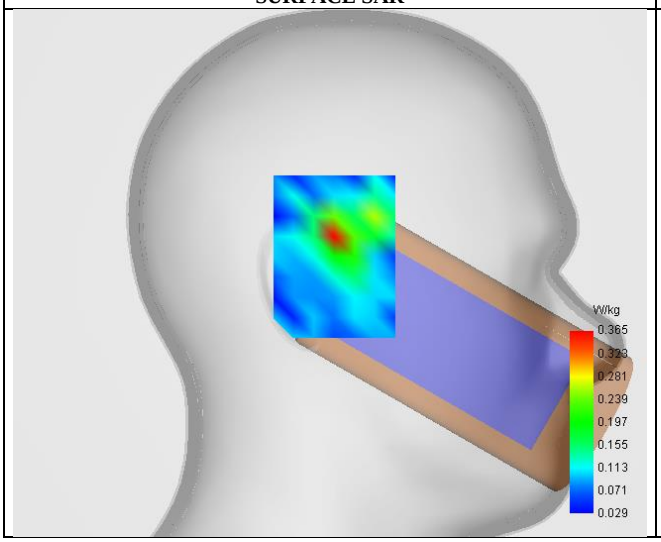
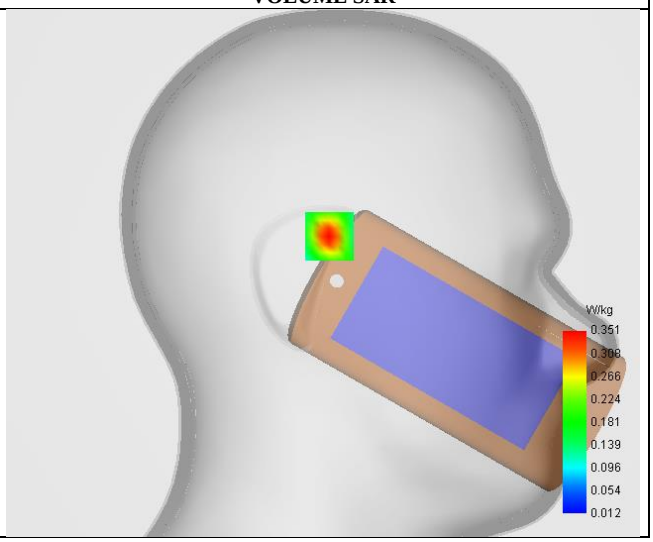
A. Experimental conditions.

Probe	2423E-PGO-413
ConvF	1.42
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Tilt
Band	5.3GHz/802.11a
Channels	Low
Signal	5.3GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5260.000000
Relative permitivity (real part)	35.862541
Conductivity (S/m)	4.710408

C. SAR Surface and Volume

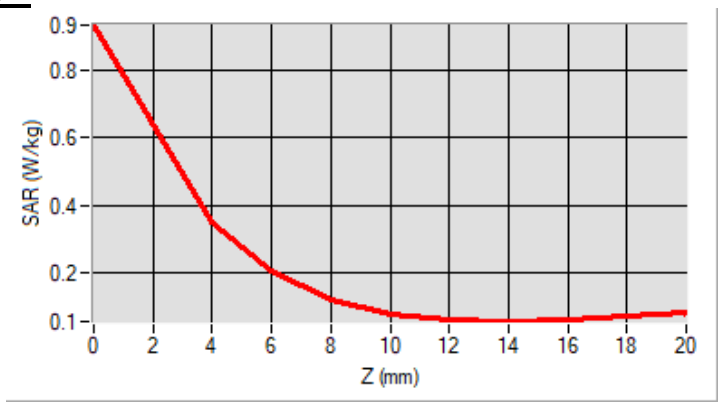
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=18.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.155538
SAR 1g (W/Kg)	0.343029
Variation (%)	-0.360000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.6GHz_802.11a) (Tilt, Left)

Date of measurement: 26/3/2024

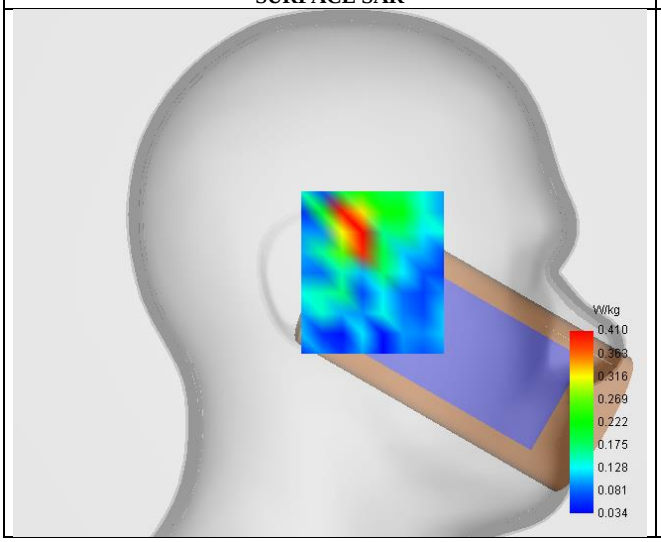
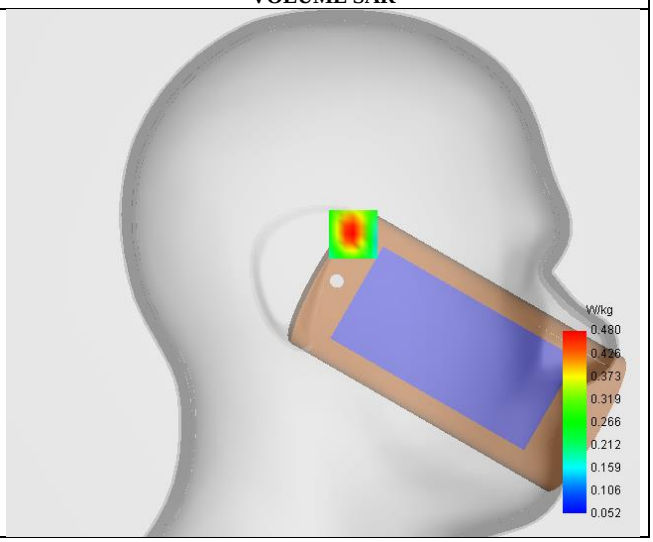
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.26
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Tilt
Band	5.6GHz_802.11a
Channels	Middle
Signal	5.6GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5600.000000
Relative permitivity (real part)	35.474119
Conductivity (S/m)	5.058533

C. SAR Surface and Volume

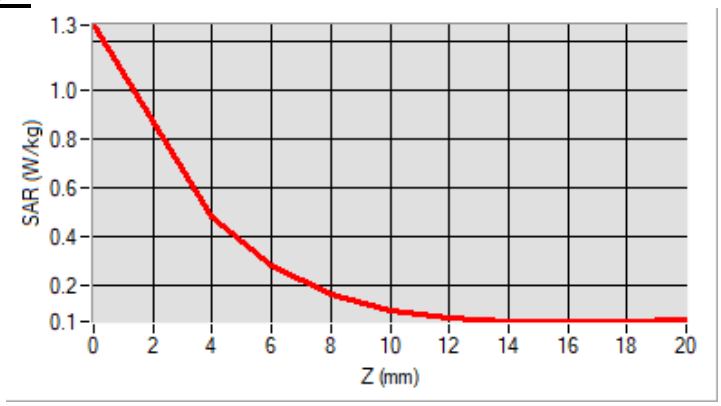
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-15.00, Y=19.00 ; SAR Peak: 1.27 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.210148
SAR 1g (W/Kg)	0.476746
Variation (%)	0.850000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz_802.11a) (Tilt, Left)

Date of measurement: 29/3/2024

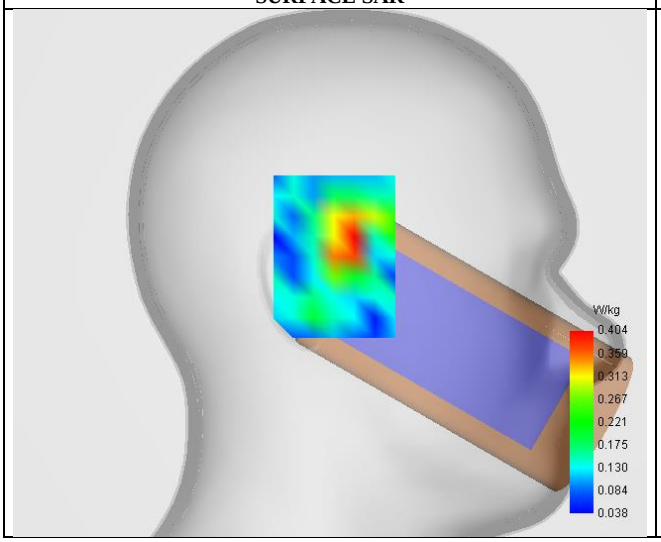
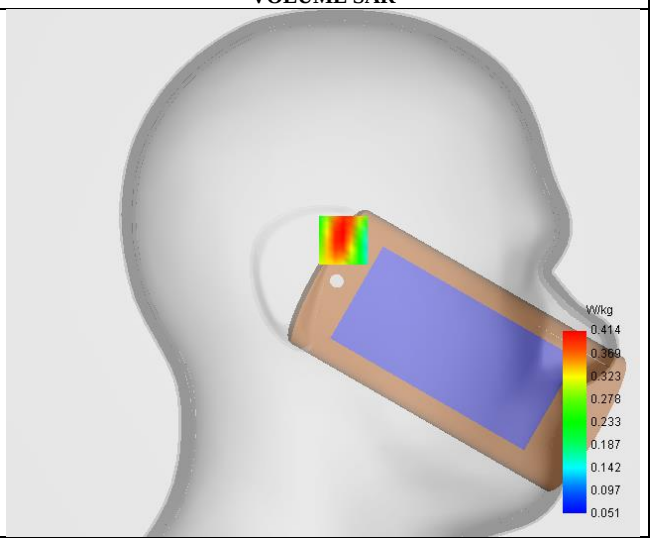
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.18
Area Scan	dx=10mm dy=10mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Left head
Device Position	Tilt
Band	5.8GHz_802.11a
Channels	Low
Signal	5.8GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5745.000000
Relative permitivity (real part)	35.308250
Conductivity (S/m)	5.203842

C. SAR Surface and Volume

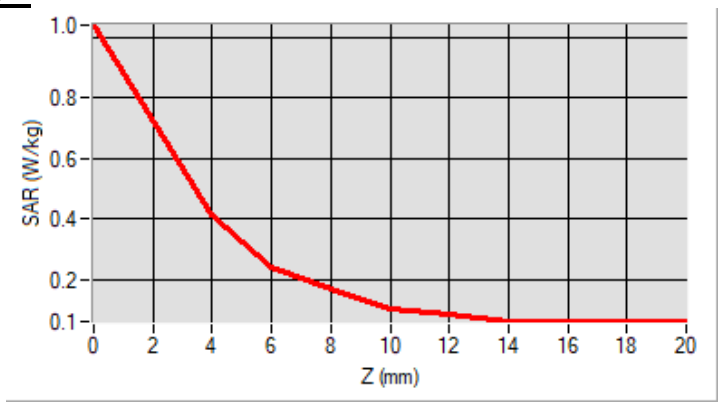
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=16.00 ; SAR Peak: 0.99 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.198868
SAR 1g (W/Kg)	0.414491
Variation (%)	1.150000

E. Z Axis Scan



SAR Measurement at Bluetooth (Tilt, Left)

Date of measurement: 20/3/2024

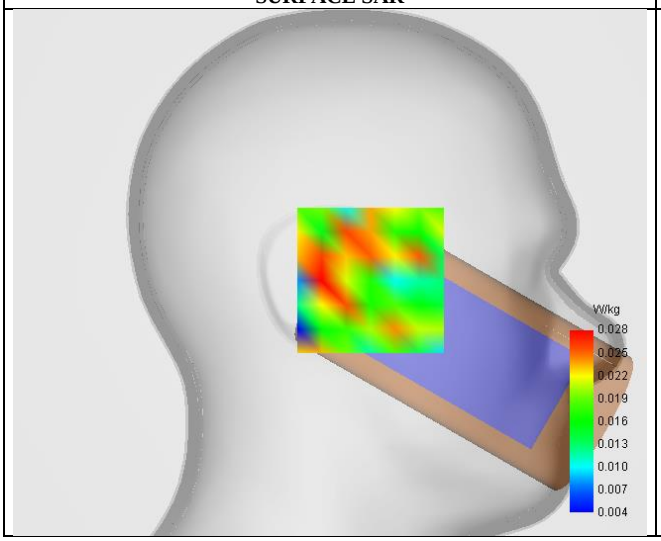
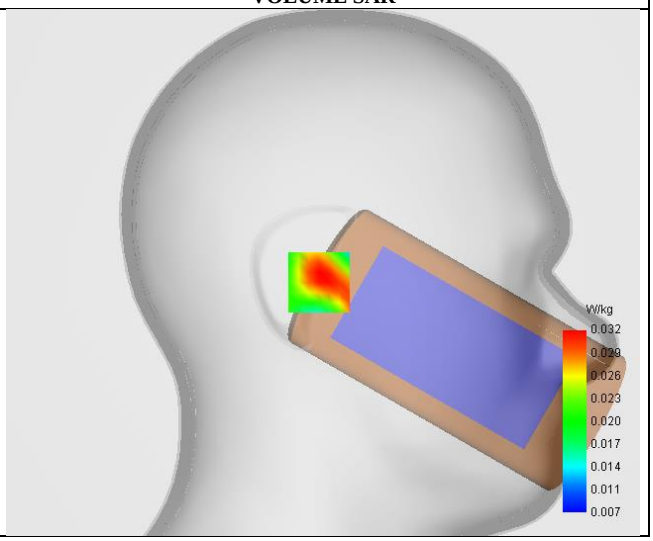
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	dx=12mm dy=12mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Left head
Device Position	Tilt
Band	Bluetooth
Channels	Low
Signal	Bluetooth (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2402.000000
Relative permitivity (real part)	38.730429
Conductivity (S/m)	1.725311

C. SAR Surface and Volume

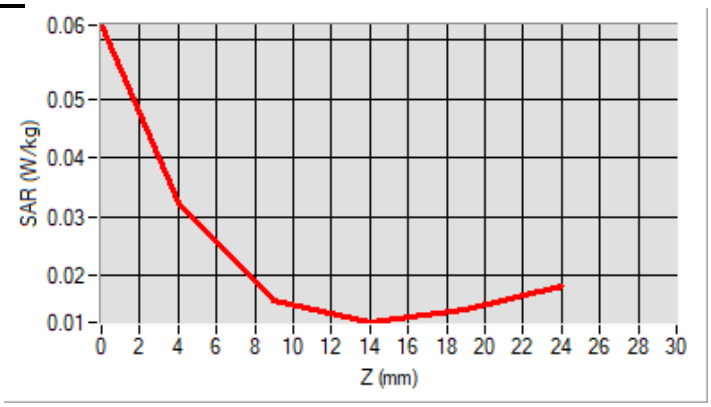
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-5.00 ; SAR Peak: 0.06 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.021135
SAR 1g (W/Kg)	0.031661
Variation (%)	0.340000

E. Z Axis Scan



SAR Measurement at CUSTOM (GPRS8504Txslots) (Body, Validation Plane)

Date of measurement: 15/3/2024

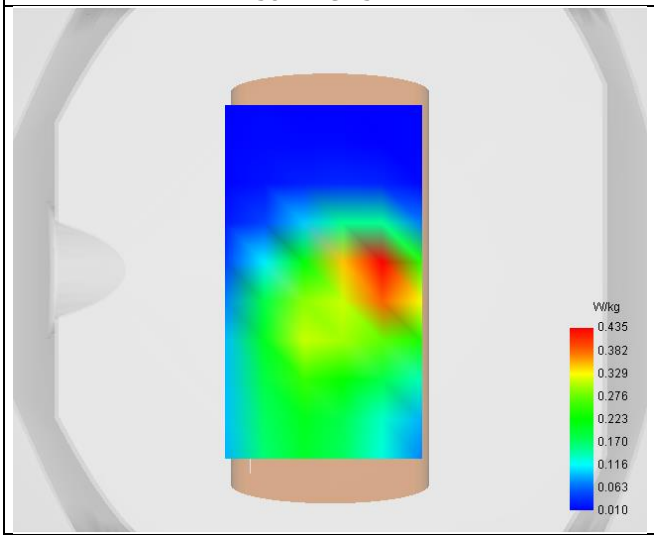
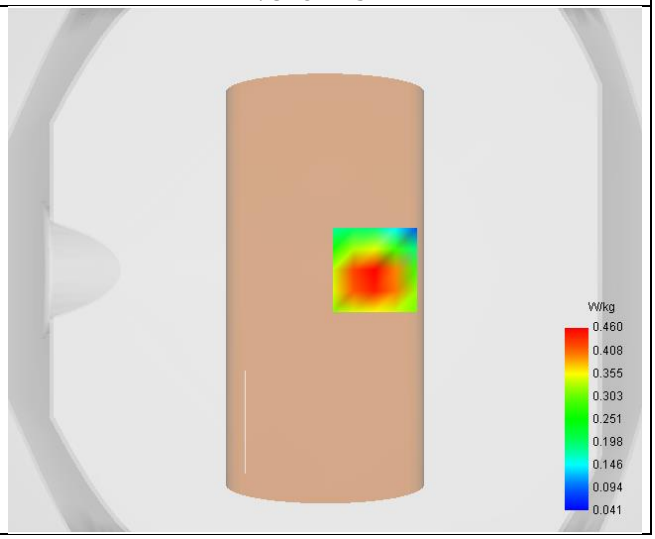
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.26
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS 850
Channels	Middle
Signal	GSM (Crest factor: 2.0)

B. Permitivity

Frequency (MHz)	836.599976
Relative permitivity (real part)	41.234032
Conductivity (S/m)	0.899432

C. SAR Surface and Volume

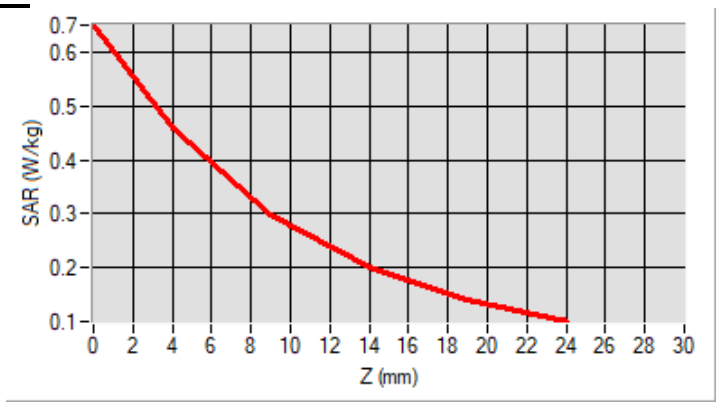
SURFACE SAR	VOLUME SAR
	

Maximum location: X=19.00, Y=0.00 ; SAR Peak: 0.67 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.278965
SAR 1g (W/Kg)	0.451274
Variation (%)	2.030000

E. Z Axis Scan



SAR Measurement at CUSTOM (GPRS19004Txslots) (Body, Validation Plane)

Date of measurement: 17/3/2024

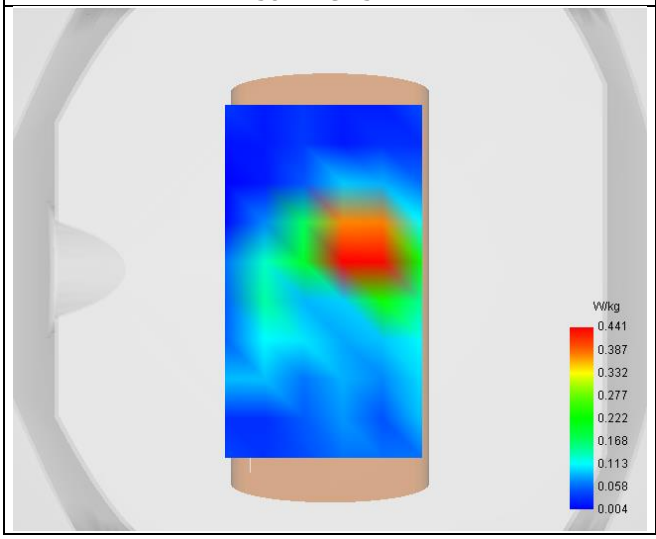
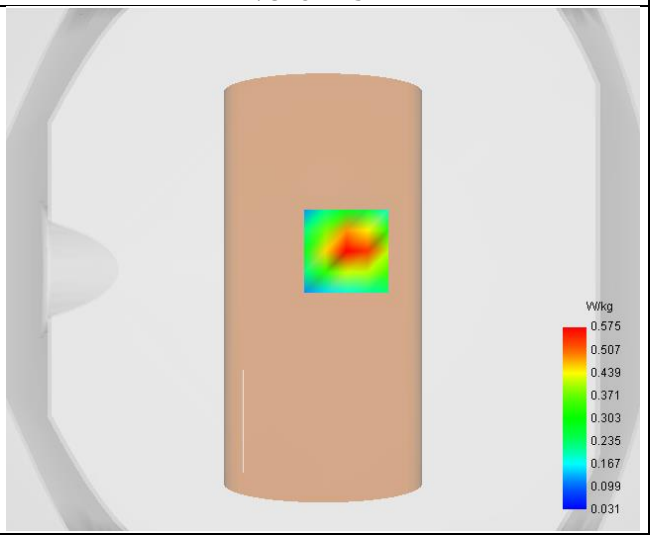
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS 1900
Channels	Low
Signal	GSM (Crest factor: 2.0)

B. Permitivity

Frequency (MHz)	1850.199951
Relative permitivity (real part)	39.441633
Conductivity (S/m)	1.376607

C. SAR Surface and Volume

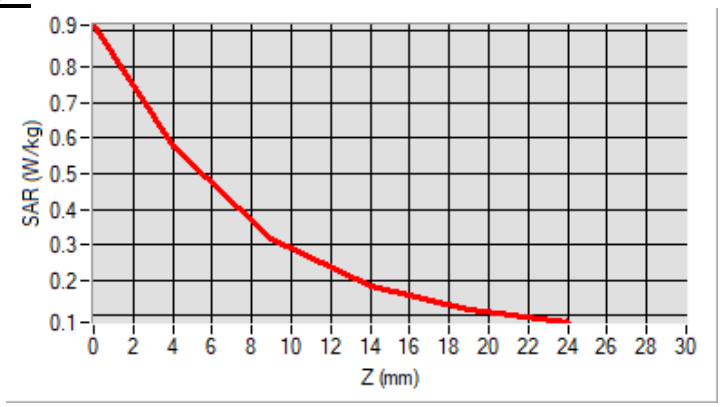
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=7.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.291312
SAR 1g (W/Kg)	0.539371
Variation (%)	0.790000

E. Z Axis Scan



SAR Measurement at Band2_WCDMA1900 (Body, Validation Plane)

Date of measurement: 17/3/2024

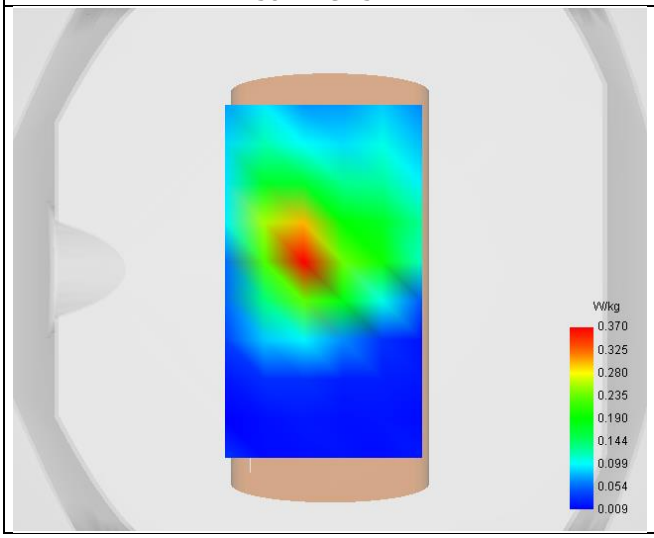
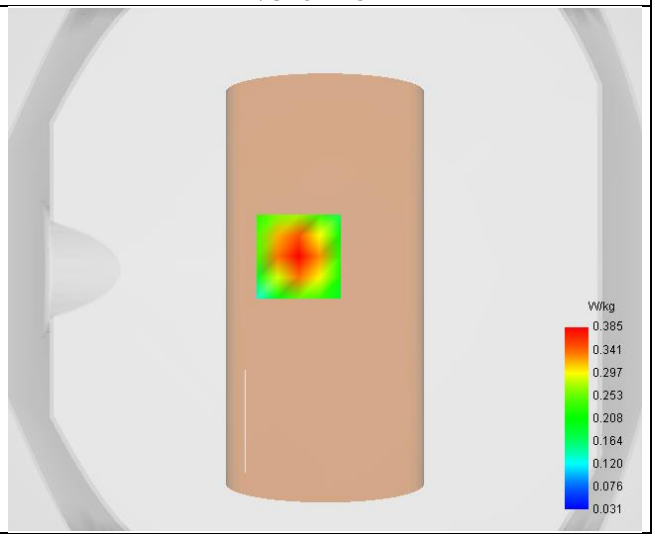
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band2_WCDMA1900
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1880.000000
Relative permitivity (real part)	39.441600
Conductivity (S/m)	1.376218

C. SAR Surface and Volume

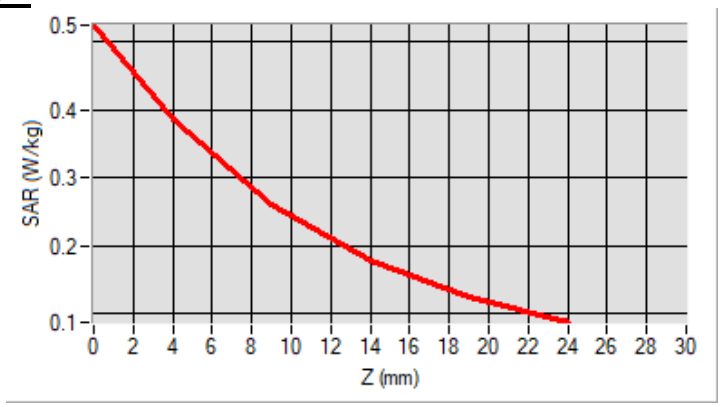
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=5.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.227319
SAR 1g (W/Kg)	0.362552
Variation (%)	2.160000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA_1700) (Body, Validation Plane)

Date of measurement: 17/3/2024

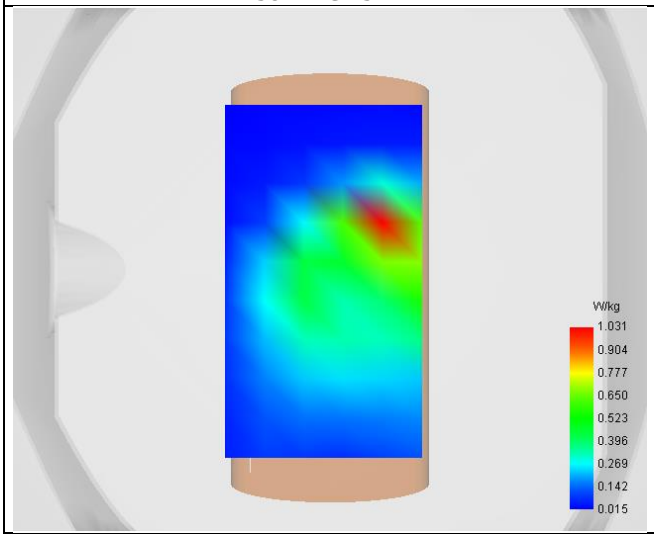
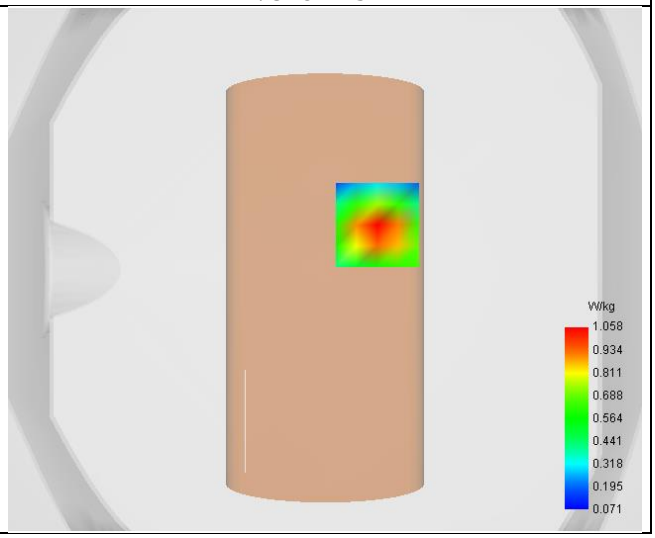
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	WCDMA 1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1732.599976
Relative permitivity (real part)	39.548941
Conductivity (S/m)	1.338740

C. SAR Surface and Volume

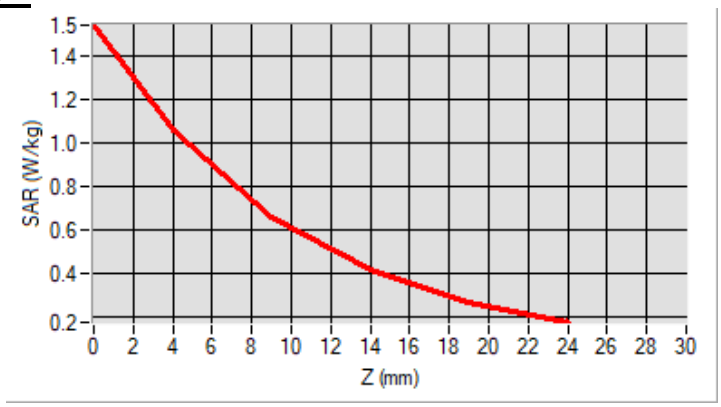
SURFACE SAR	VOLUME SAR
	

Maximum location: X=20.00, Y=17.00 ; SAR Peak: 1.30 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.471567
SAR 1g (W/Kg)	0.820721
Variation (%)	-1.890000

E. Z Axis Scan



SAR Measurement at Band5_WCDMA850 (Body, Validation Plane)

Date of measurement: 15/3/2024

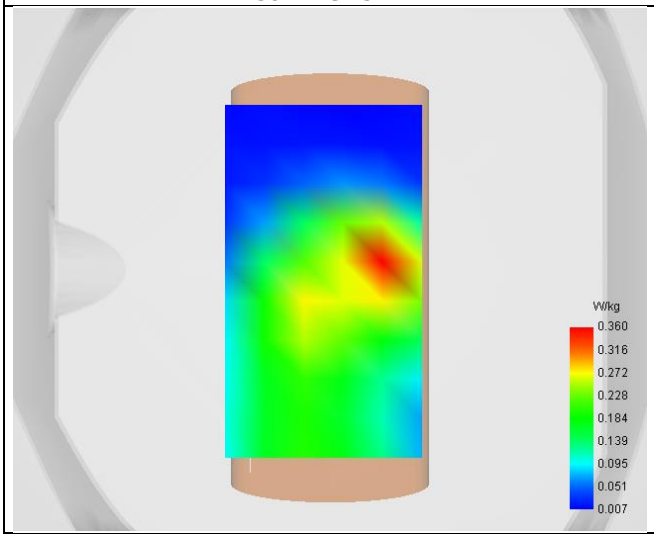
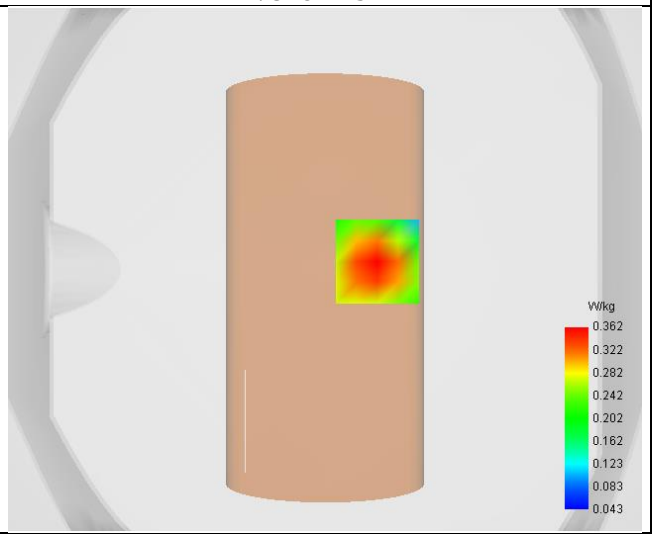
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	826.400000
Relative permitivity (real part)	41.274036
Conductivity (S/m)	0.895436

C. SAR Surface and Volume

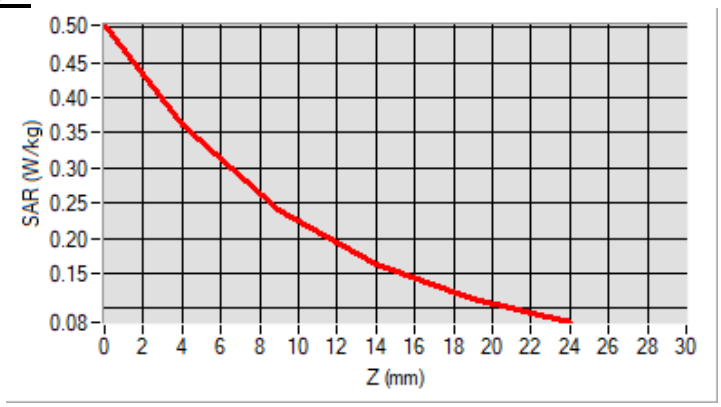
SURFACE SAR	VOLUME SAR
	

Maximum location: X=20.00, Y=3.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.218962
SAR 1g (W/Kg)	0.343313
Variation (%)	-1.660000

E. Z Axis Scan



SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 17/3/2024

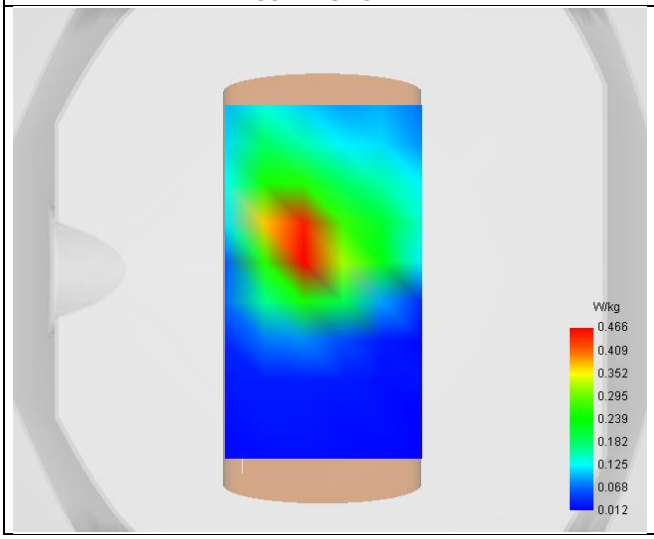
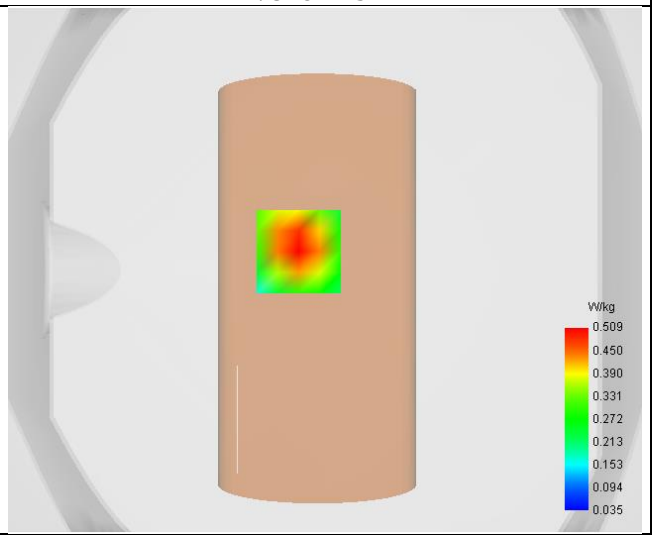
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1900.000000
Relative permitivity (real part)	39.441618
Conductivity (S/m)	1.376000

C. SAR Surface and Volume

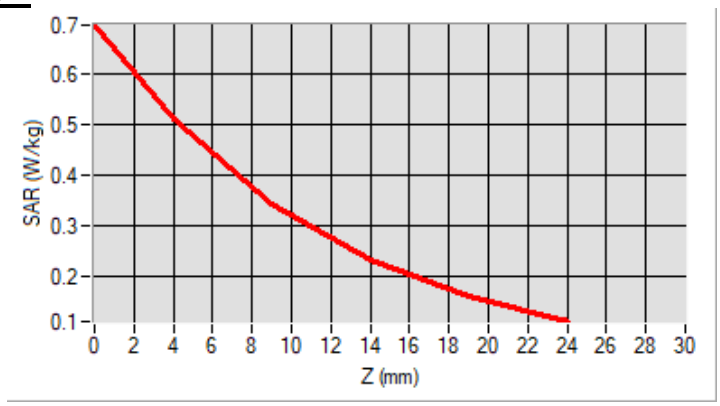
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=7.00 ; SAR Peak: 0.70 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.301881
SAR 1g (W/Kg)	0.480722
Variation (%)	-0.870000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE_Band_4) (Body, Validation Plane)

Date of measurement: 17/3/2024

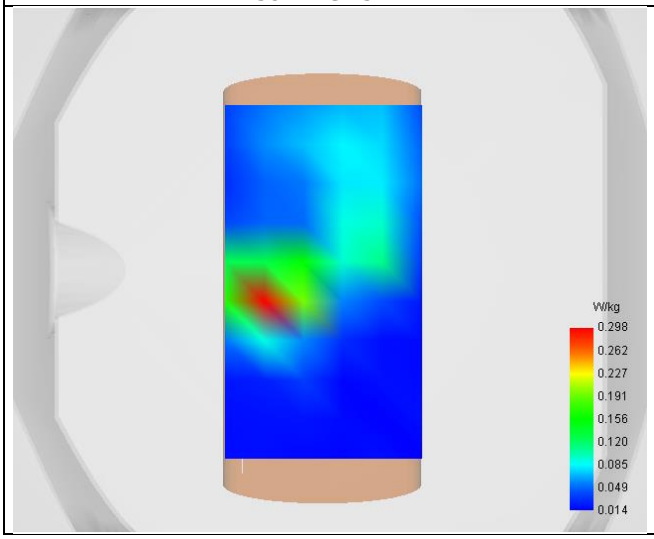
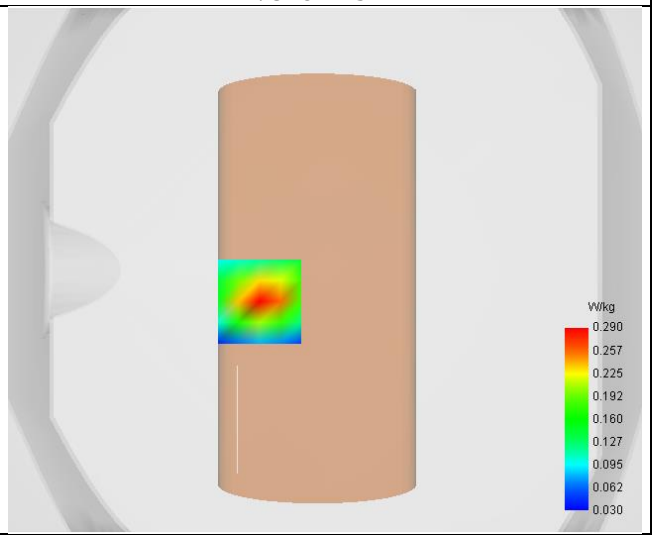
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE Band 4
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1745.000000
Relative permitivity (real part)	39.528413
Conductivity (S/m)	1.346100

C. SAR Surface and Volume

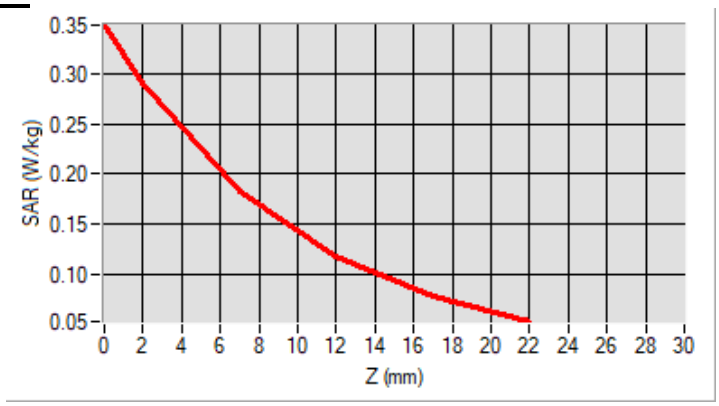
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-25.00, Y=-12.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.128933
SAR 1g (W/Kg)	0.223168
Variation (%)	1.320000

E. Z Axis Scan



SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 15/3/2024

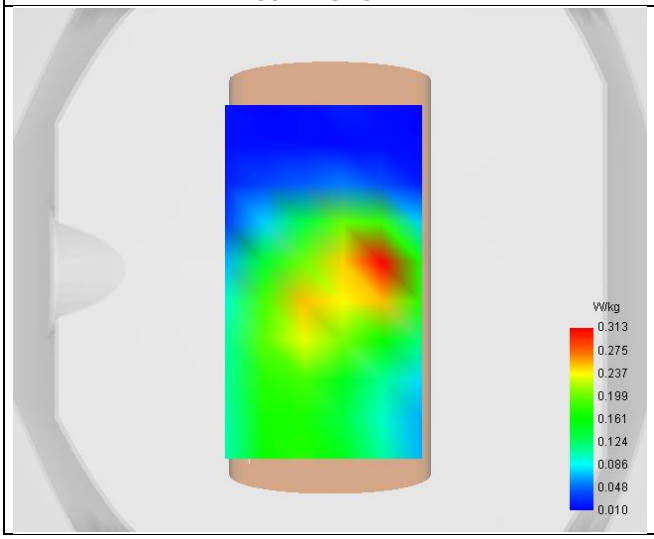
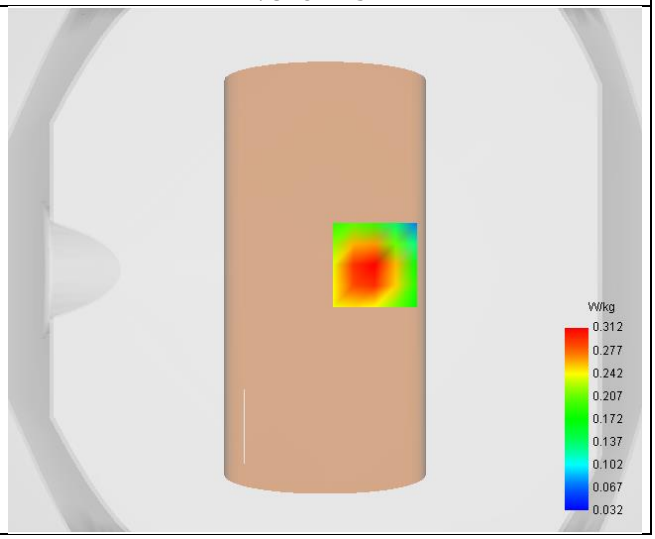
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.42
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	836.500000
Relative permitivity (real part)	41.234032
Conductivity (S/m)	0.899432

C. SAR Surface and Volume

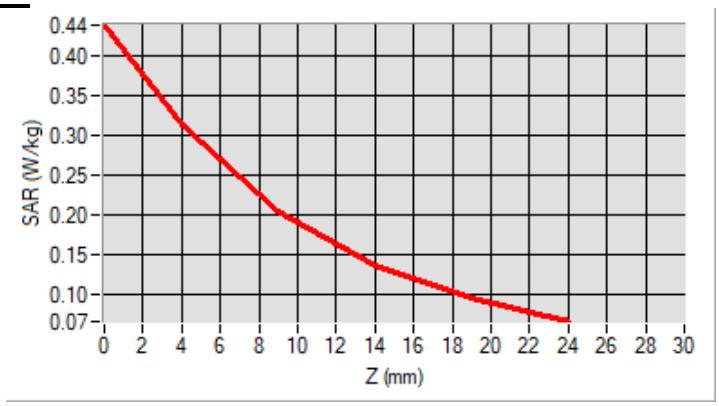
SURFACE SAR	VOLUME SAR
	

Maximum location: X=19.00, Y=2.00 ; SAR Peak: 0.44 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.188612
SAR 1g (W/Kg)	0.298428
Variation (%)	-0.030000

E. Z Axis Scan



SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 20/3/2024

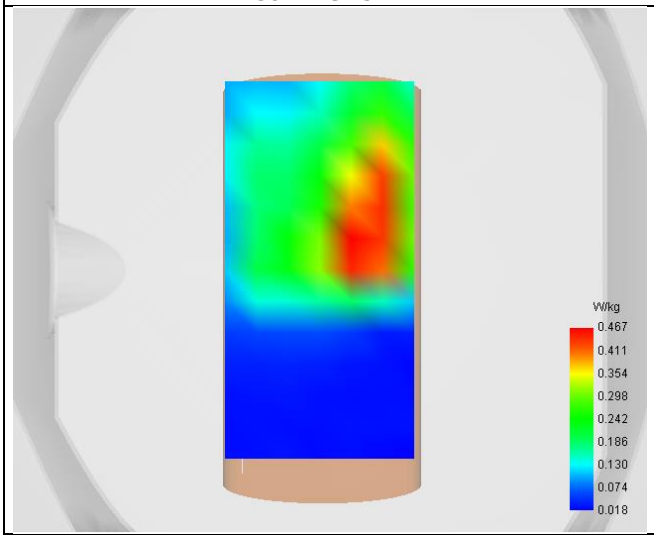
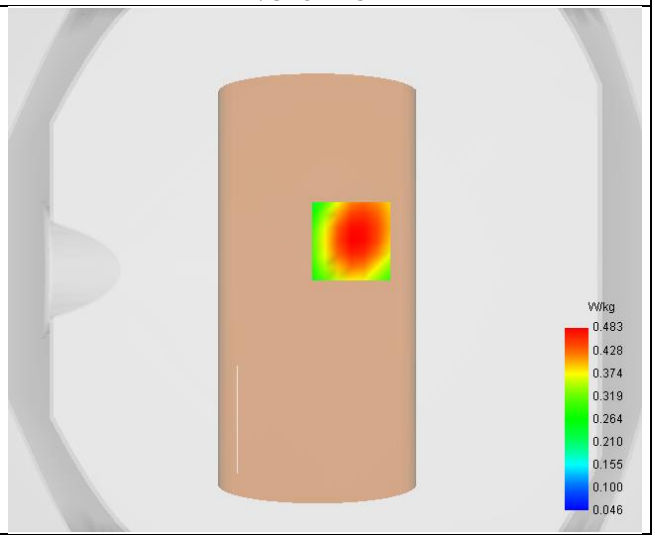
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2510.000000
Relative permitivity (real part)	38.565217
Conductivity (S/m)	1.833729

C. SAR Surface and Volume

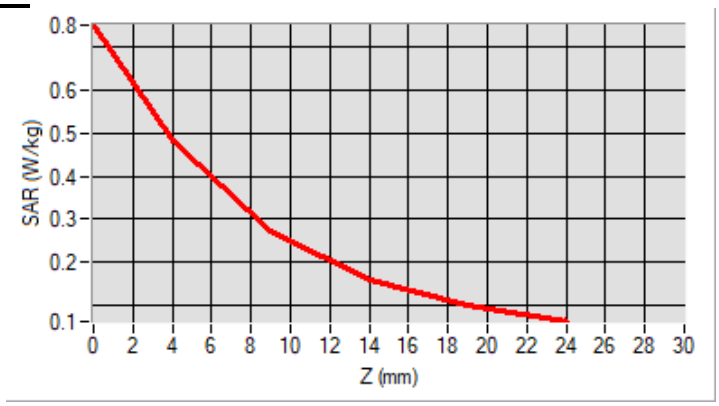
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=11.00 ; SAR Peak: 0.76 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.271809
SAR 1g (W/Kg)	0.460858
Variation (%)	-1.610000

E. Z Axis Scan



SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 20/3/2024

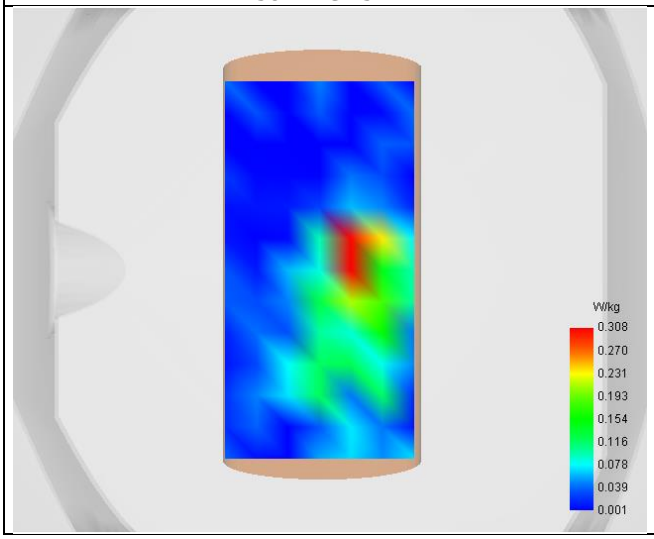
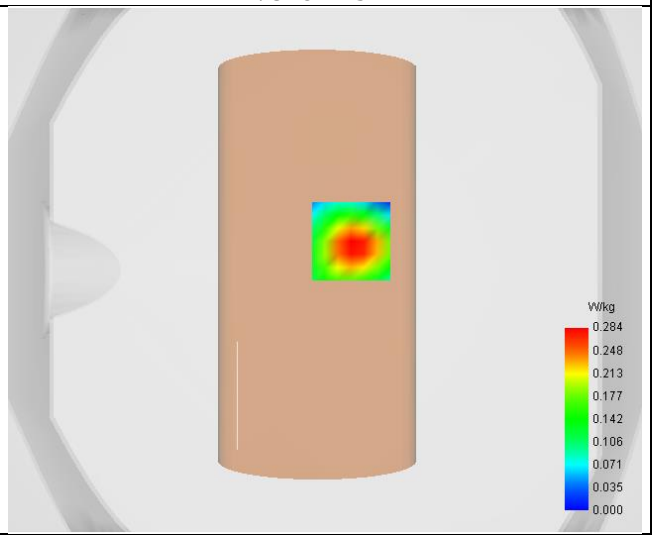
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.15
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2645.000000
Relative permitivity (real part)	38.393452
Conductivity (S/m)	1.994311

C. SAR Surface and Volume

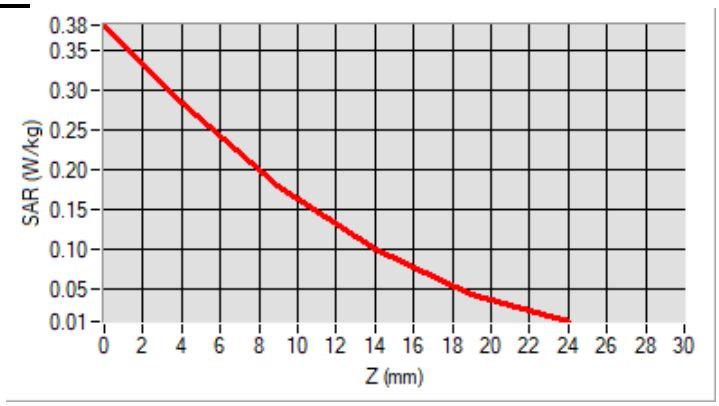
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=11.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.134837
SAR 1g (W/Kg)	0.260410
Variation (%)	-0.360000

E. Z Axis Scan



SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)

Date of measurement: 20/3/2024

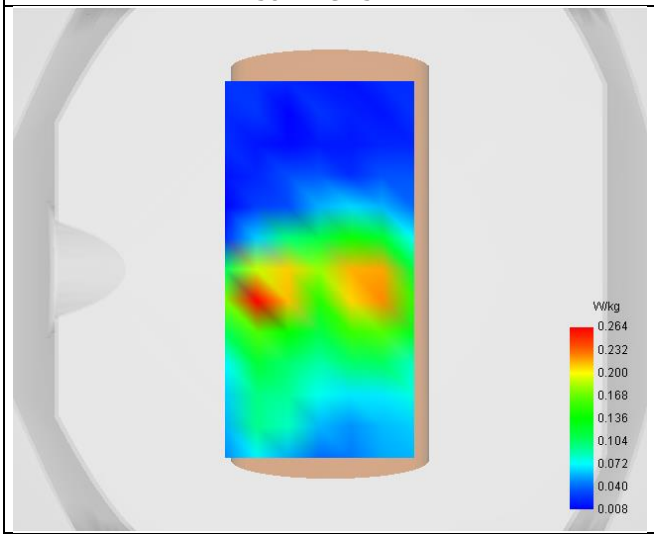
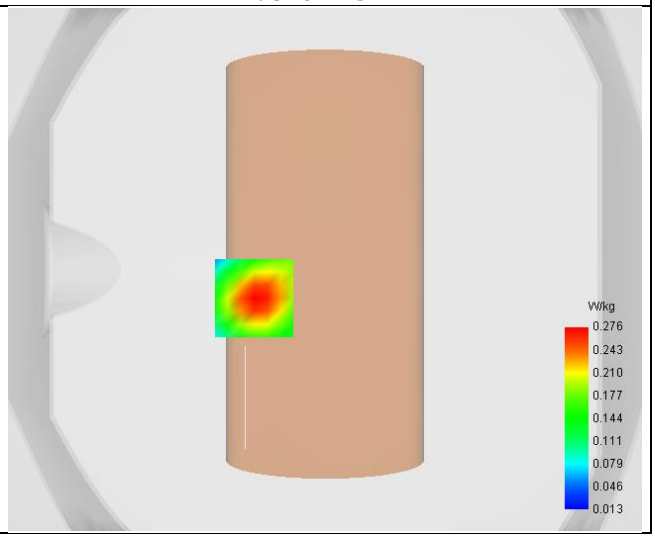
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2416.000000
Relative permitivity (real part)	38.702020
Conductivity (S/m)	1.739222

C. SAR Surface and Volume

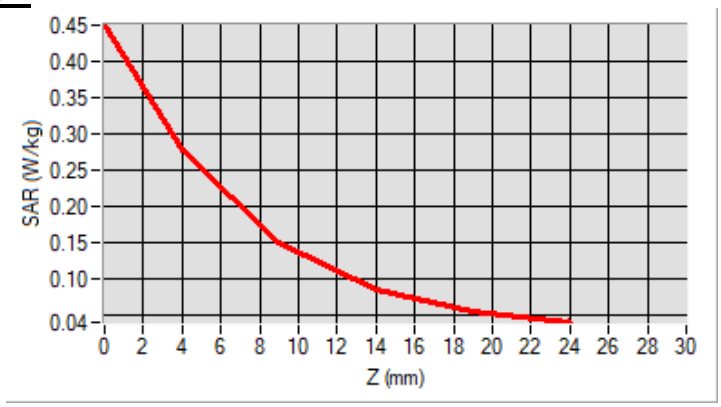
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-27.00, Y=-11.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.140381
SAR 1g (W/Kg)	0.255660
Variation (%)	4.010000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz_802.11a) (Body, Validation Plane)

Date of measurement: 23/3/2024

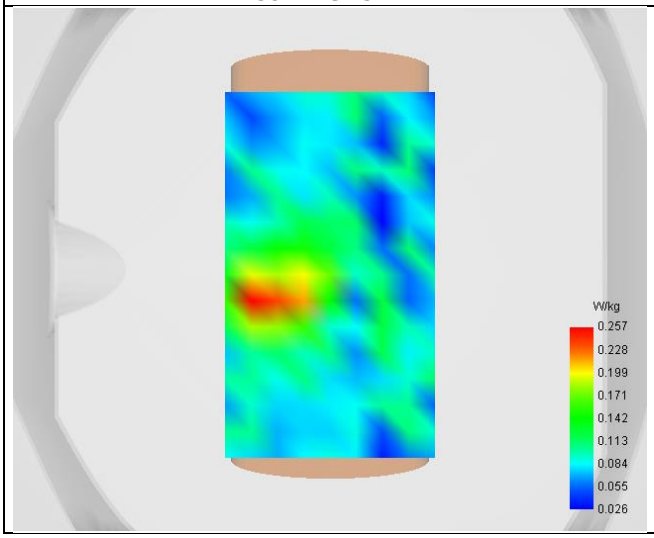
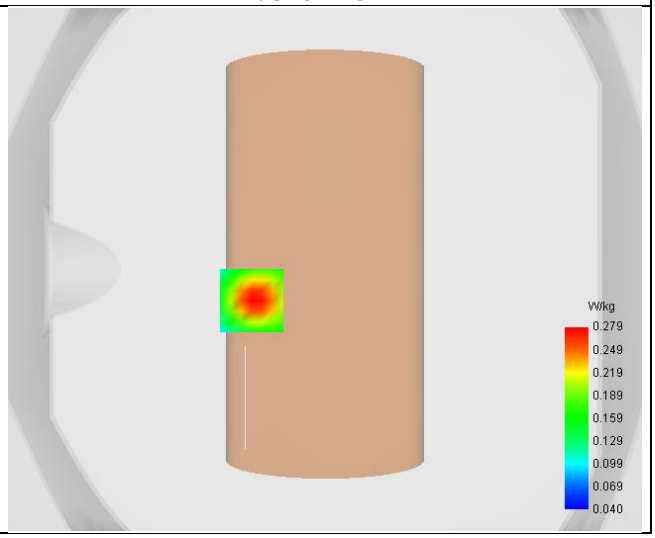
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.42
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.2GHz_802.11a
Channels	Low
Signal	5.2GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5180.000000
Relative permitivity (real part)	35.954333
Conductivity (S/m)	4.628501

C. SAR Surface and Volume

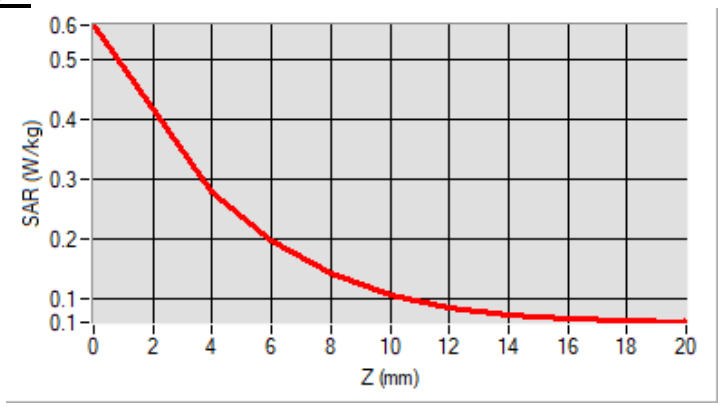
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-28.00, Y=-12.00 ; SAR Peak: 0.41 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.116622
SAR 1g (W/Kg)	0.198634
Variation (%)	2.410000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.3GHz_802.11a) (Body, Validation Plane)

Date of measurement: 23/3/2024

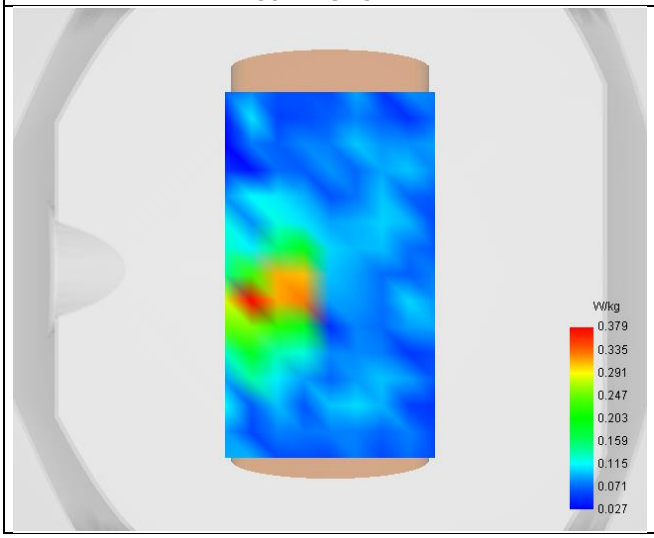
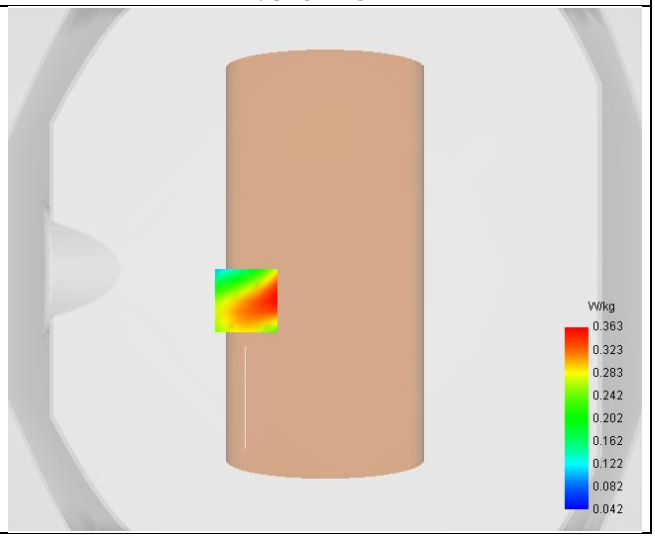
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.42
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.3GHz 802.11a
Channels	Low
Signal	5.3GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5260.000000
Relative permitivity (real part)	35.862541
Conductivity (S/m)	4.710408

C. SAR Surface and Volume

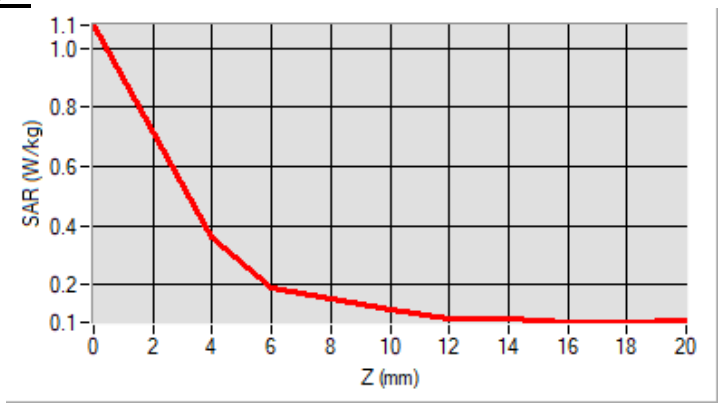
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-30.00, Y=-12.00 ; SAR Peak: 0.57 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.133145
SAR 1g (W/Kg)	0.238993
Variation (%)	-0.280000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.6GHz_802.11a) (Body, Validation Plane)

Date of measurement: 26/3/2024

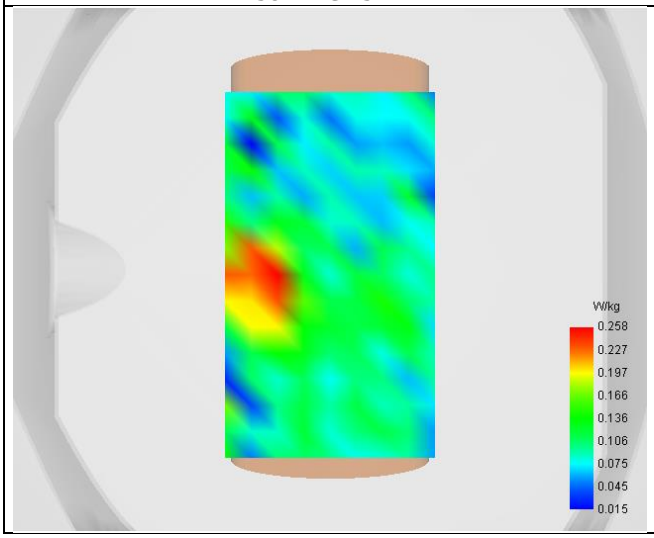
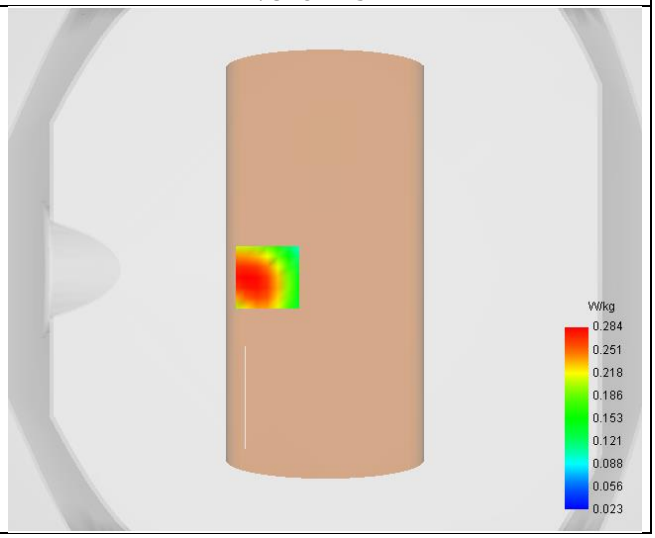
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.26
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.6GHz_802.11a
Channels	Middle
Signal	5.6GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5600.000000
Relative permitivity (real part)	35.474119
Conductivity (S/m)	5.058533

C. SAR Surface and Volume

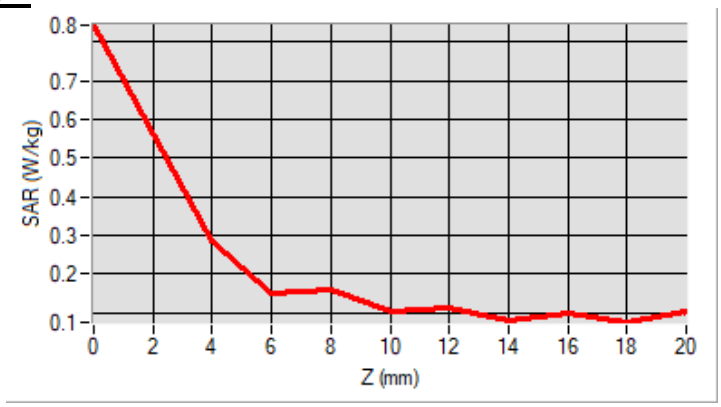
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-22.00, Y=-3.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.126716
SAR 1g (W/Kg)	0.212475
Variation (%)	4.520000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz_802.11a) (Body, Validation Plane)

Date of measurement: 29/3/2024

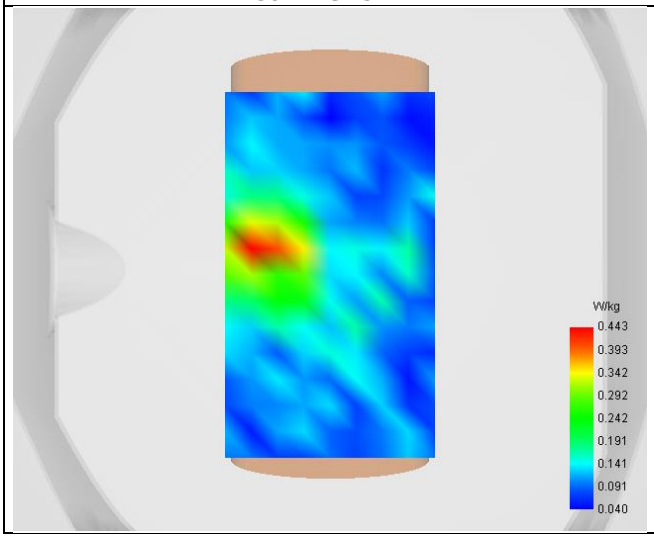
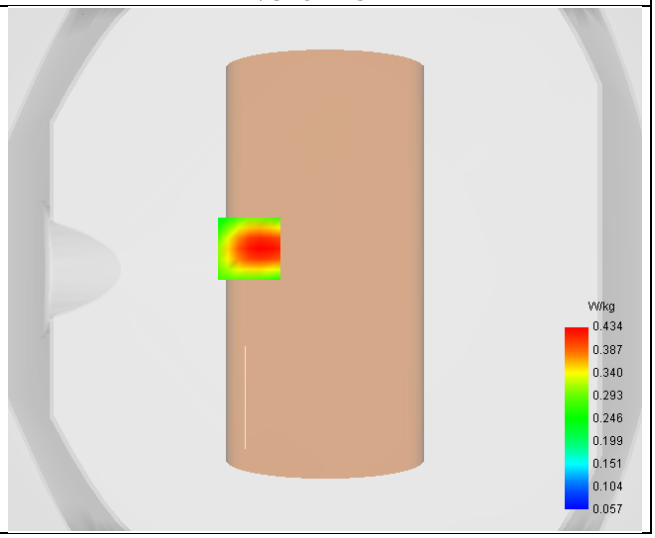
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.18
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.8GHz_802.11a
Channels	Low
Signal	5.8GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5745.000000
Relative permitivity (real part)	35.308250
Conductivity (S/m)	5.203842

C. SAR Surface and Volume

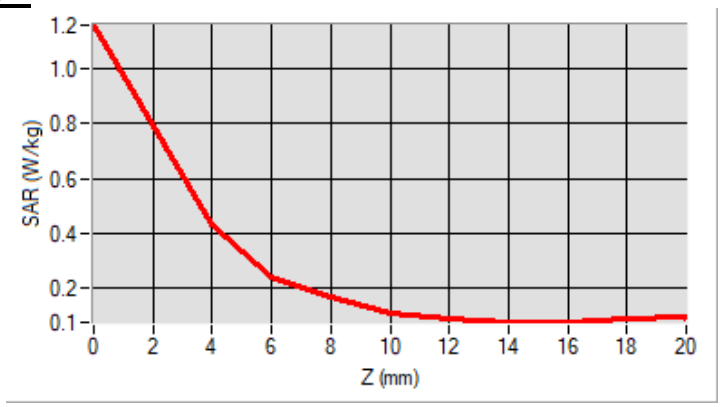
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-29.00, Y=8.00 ; SAR Peak: 0.71 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.154939
SAR 1g (W/Kg)	0.282345
Variation (%)	0.790000

E. Z Axis Scan



SAR Measurement at Bluetooth (Body, Validation Plane)

Date of measurement: 20/3/2024

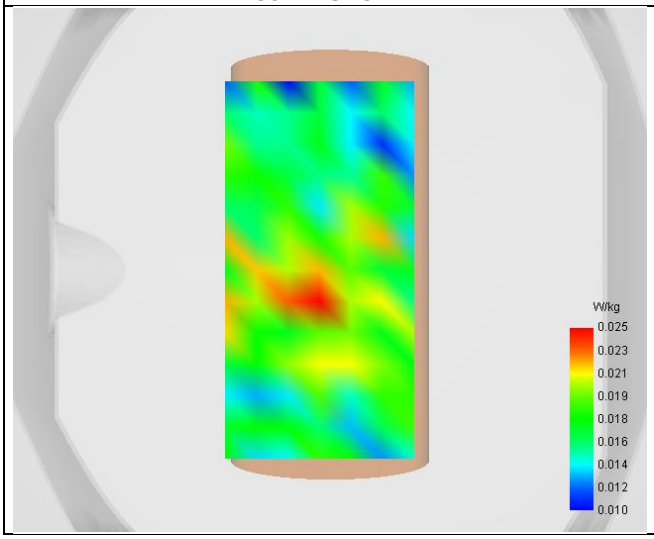
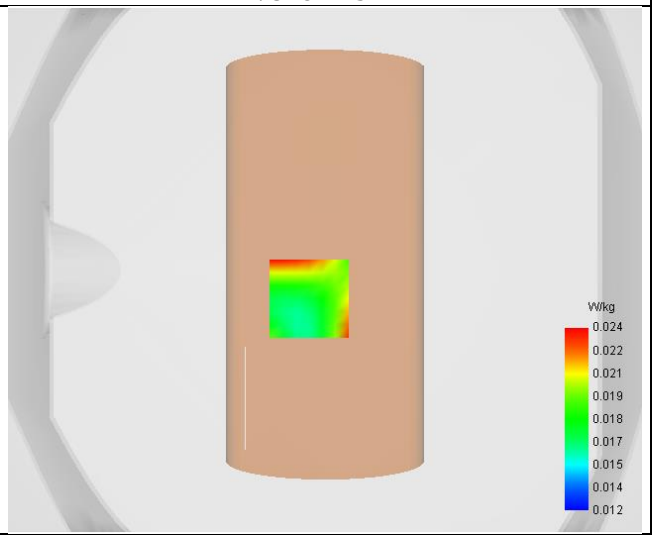
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Bluetooth
Channels	Low
Signal	Bluetooth (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2402.000000
Relative permitivity (real part)	38.730429
Conductivity (S/m)	1.725311

C. SAR Surface and Volume

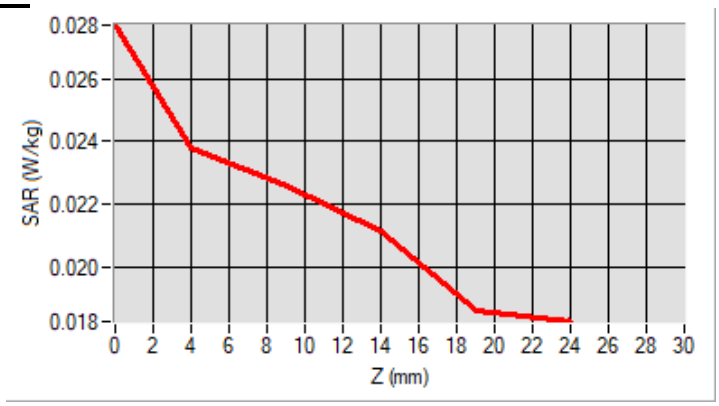
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=-11.00 ; SAR Peak: 0.03 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.018703
SAR 1g (W/Kg)	0.021266
Variation (%)	0.459999

E. Z Axis Scan



SAR Measurement at CUSTOM (GPRS19004Txslots) (Body, Validation Plane)

Date of measurement: 17/3/2024

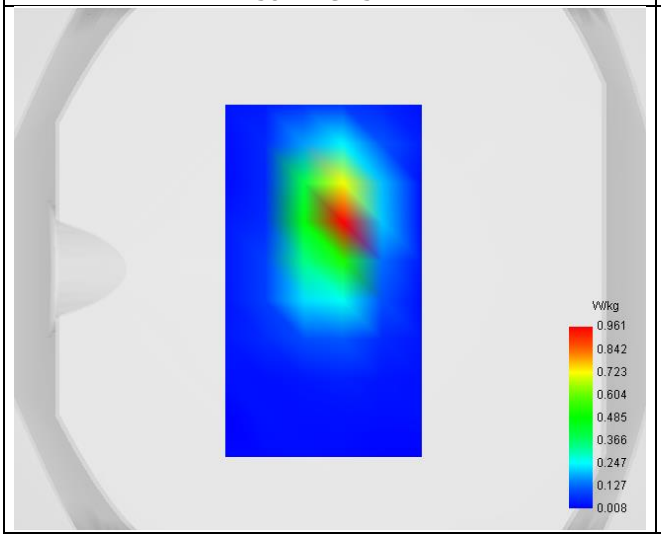
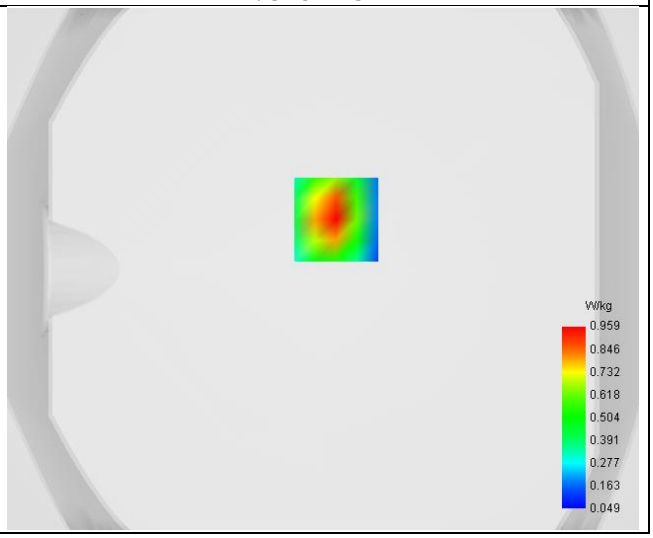
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.44
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS 1900
Channels	Middle
Signal	GSM (Crest factor: 2.0)

B. Permitivity

Frequency (MHz)	1880.000000
Relative permitivity (real part)	39.441600
Conductivity (S/m)	1.376218

C. SAR Surface and Volume

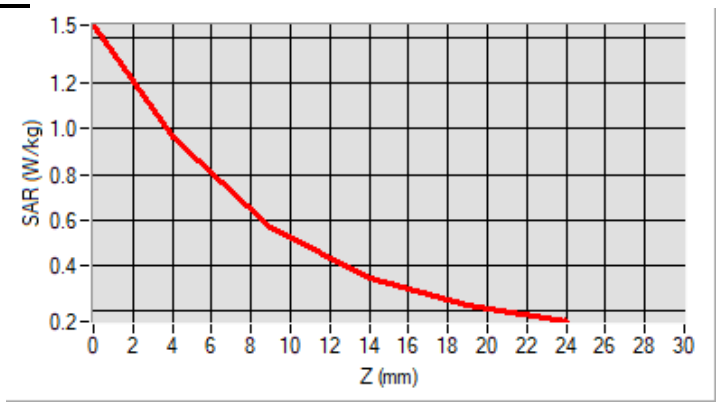
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=19.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.484454
SAR 1g (W/Kg)	0.894316
Variation (%)	-0.780000

E. Z Axis Scan



SAR Measurement at CUSTOM (WCDMA_1700) (Body, Validation Plane)

Date of measurement: 17/3/2024

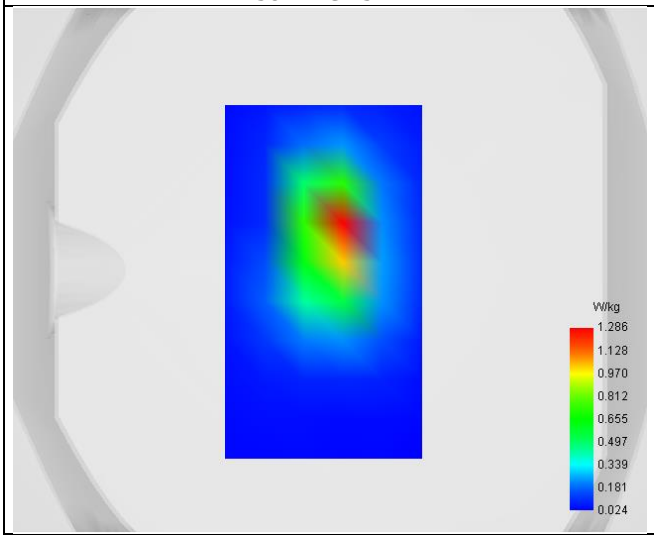
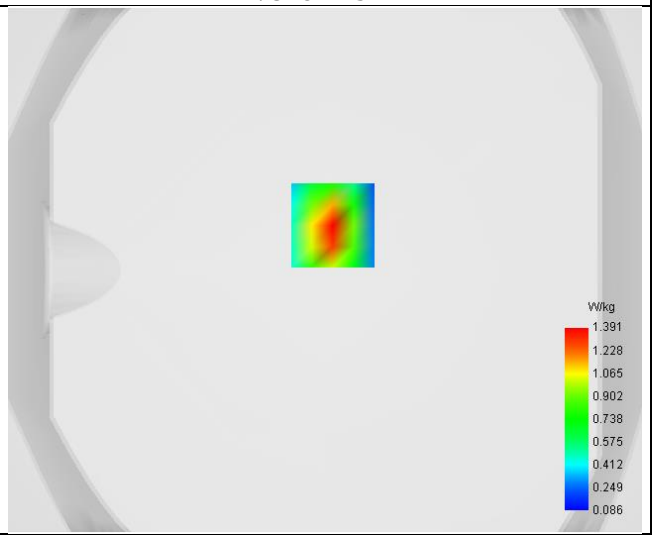
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	WCDMA 1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1732.599976
Relative permitivity (real part)	39.548941
Conductivity (S/m)	1.338740

C. SAR Surface and Volume

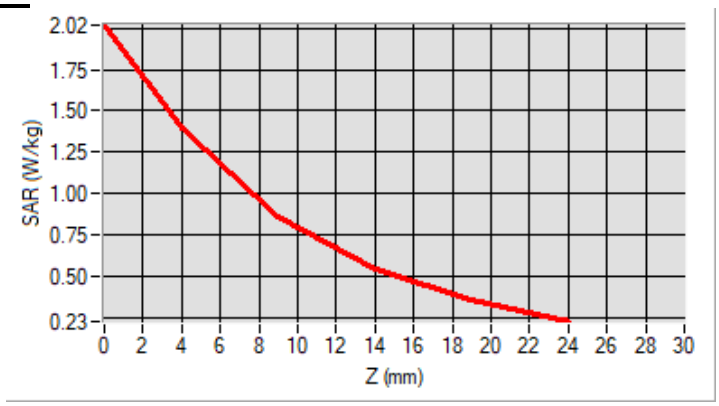
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=17.00 ; SAR Peak: 1.70 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.595766
SAR 1g (W/Kg)	1.067628
Variation (%)	-0.350000

E. Z Axis Scan



SAR Measurement at CUSTOM (LTE_Band_4) (Body, Validation Plane)

Date of measurement: 17/3/2024

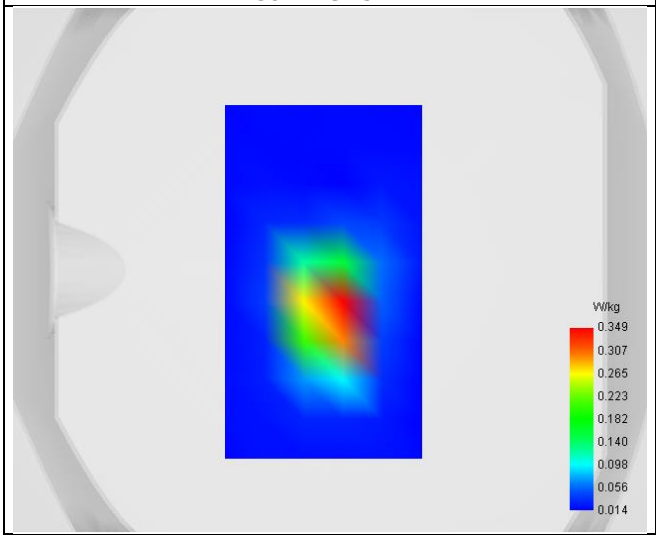
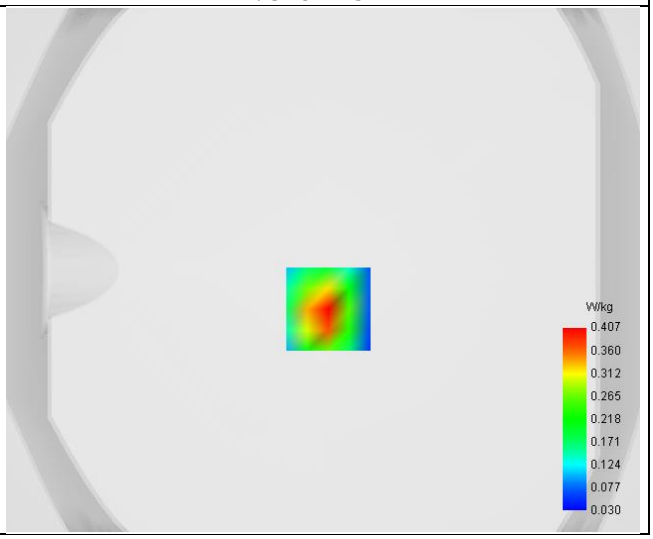
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.52
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE Band 4
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	1745.000000
Relative permitivity (real part)	39.528413
Conductivity (S/m)	1.346100

C. SAR Surface and Volume

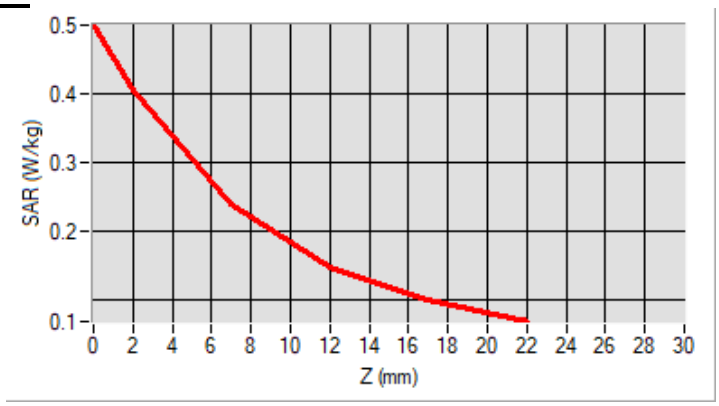
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-15.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.170996
SAR 1g (W/Kg)	0.308971
Variation (%)	0.870000

E. Z Axis Scan



SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 20/3/2024

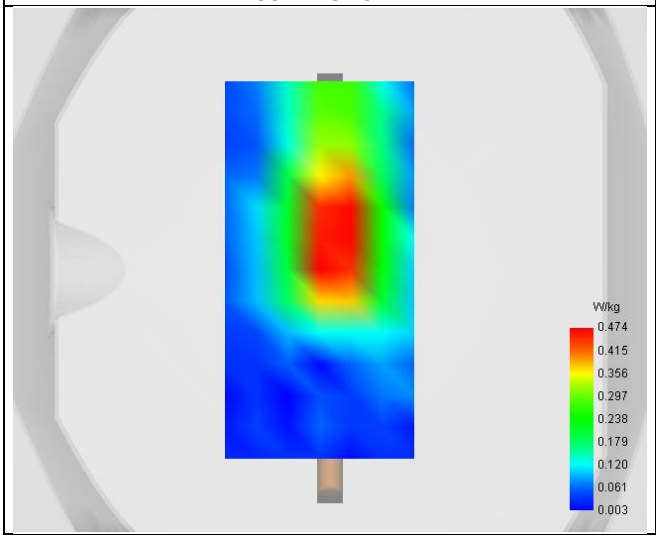
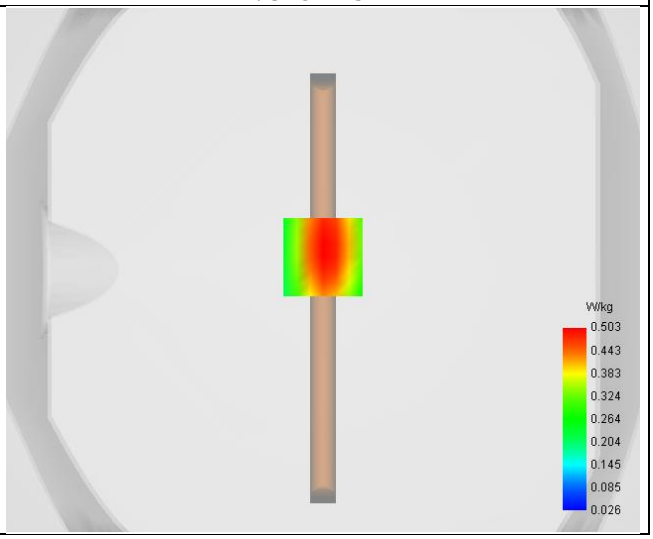
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Low
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2510.000000
Relative permitivity (real part)	38.565217
Conductivity (S/m)	1.833729

C. SAR Surface and Volume

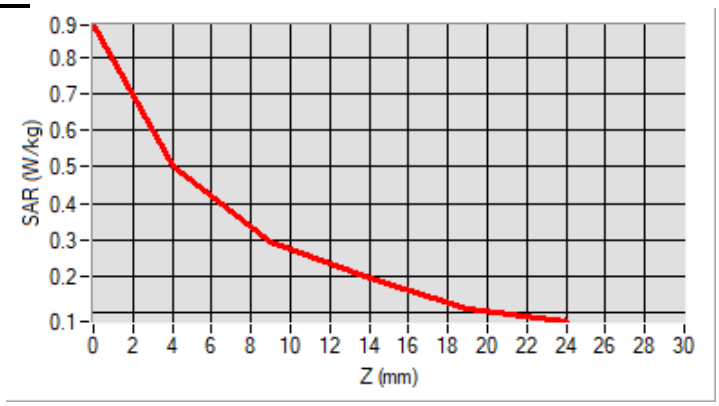
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=5.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.281633
SAR 1g (W/Kg)	0.473673
Variation (%)	-0.930000

E. Z Axis Scan



SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 20/3/2024

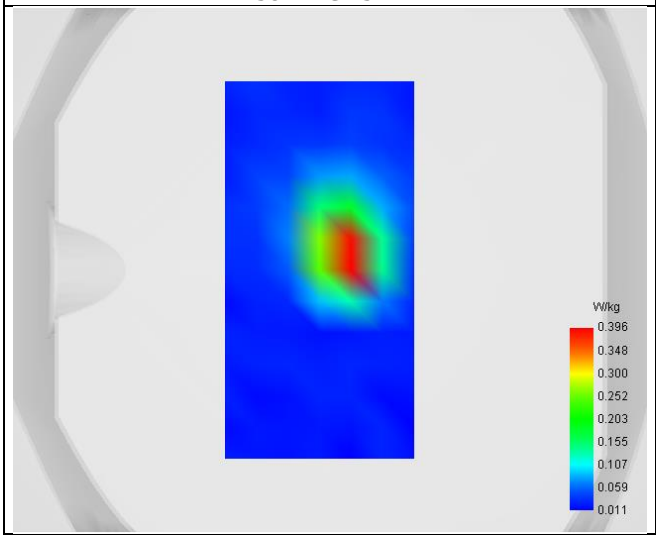
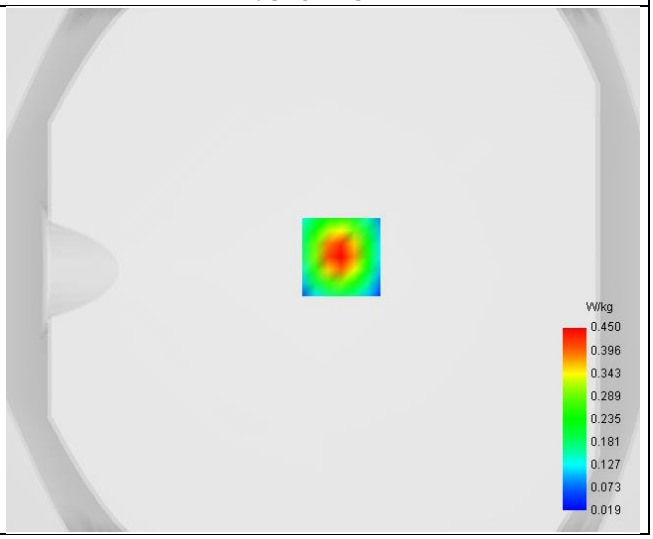
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.17
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2645.000000
Relative permitivity (real part)	38.393452
Conductivity (S/m)	1.994311

C. SAR Surface and Volume

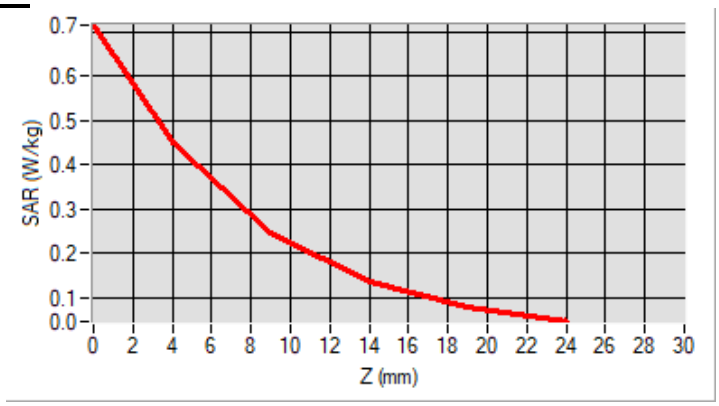
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=5.00 ; SAR Peak: 0.72 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.202846
SAR 1g (W/Kg)	0.404988
Variation (%)	-0.469999

E. Z Axis Scan



SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)

Date of measurement: 20/3/2024

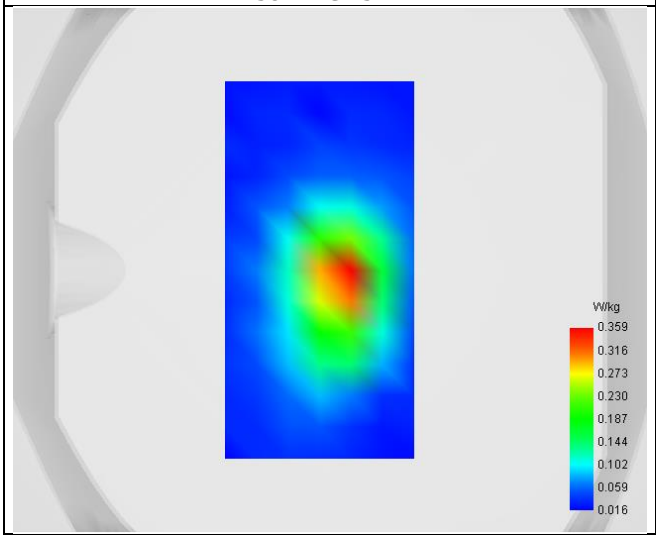
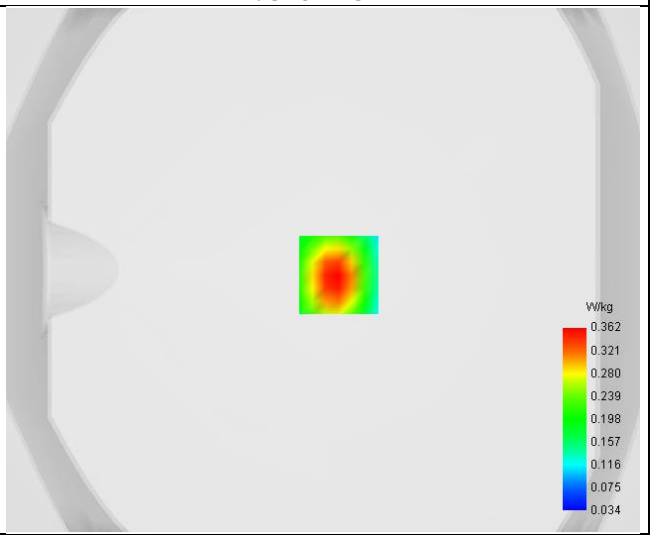
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	2.39
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	2416.000000
Relative permitivity (real part)	38.702020
Conductivity (S/m)	1.739222

C. SAR Surface and Volume

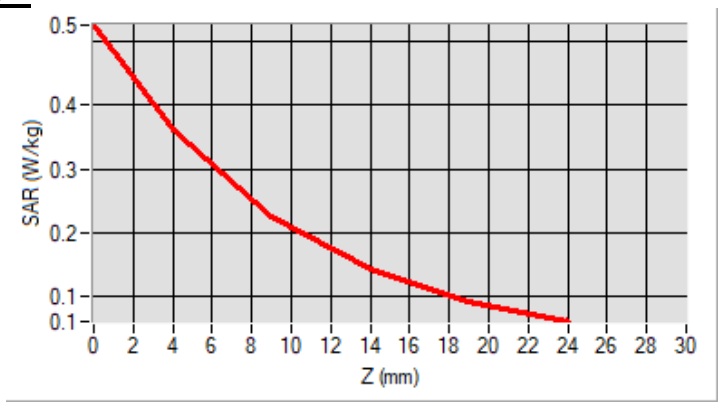
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.194861
SAR 1g (W/Kg)	0.334839
Variation (%)	0.810000

E. Z Axis Scan



SAR Measurement at CUSTOM (5.2GHz_802.11a) (Body, Validation Plane)

Date of measurement: 23/3/2024

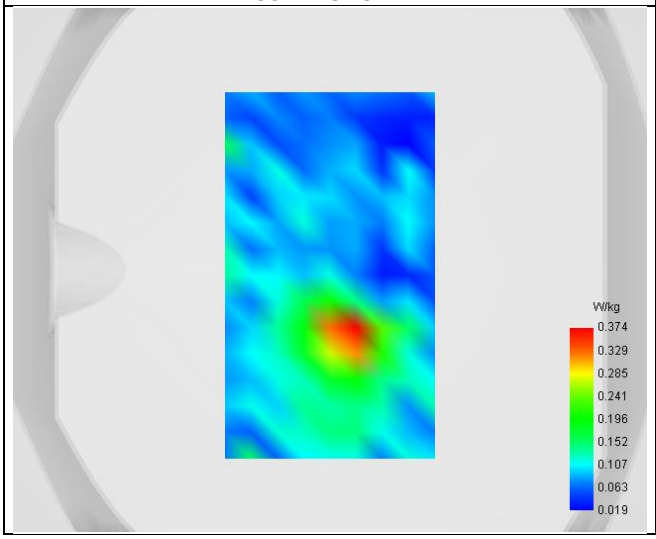
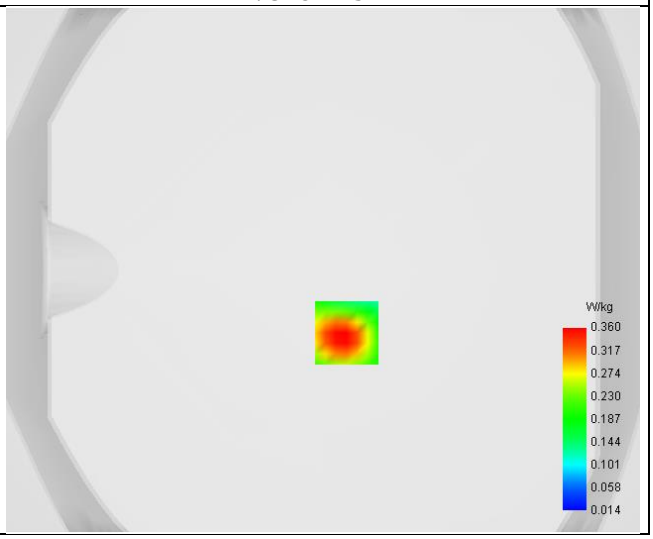
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.42
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.2GHz_802.11a
Channels	Low
Signal	5.2GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5180.000000
Relative permitivity (real part)	35.954333
Conductivity (S/m)	4.628501

C. SAR Surface and Volume

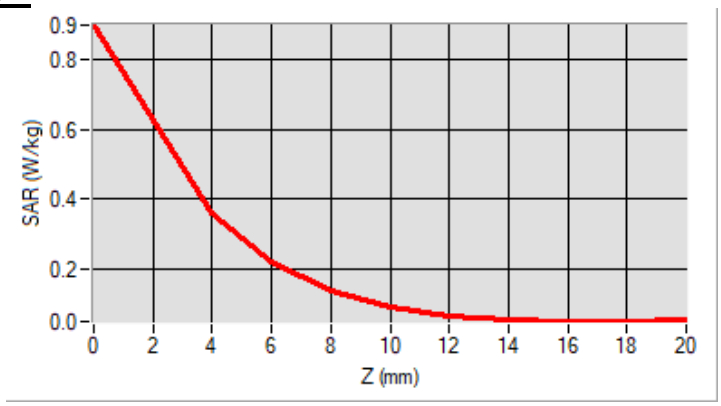
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-24.00 ; SAR Peak: 0.62 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.120303
SAR 1g (W/Kg)	0.239358
Variation (%)	0.879997

E. Z Axis Scan



SAR Measurement at CUSTOM (5.8GHz_802.11a) (Body, Validation Plane)

Date of measurement: 29/3/2024

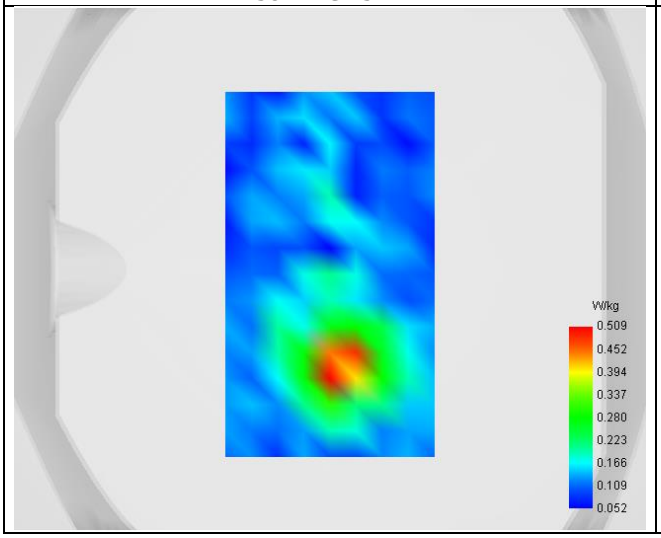
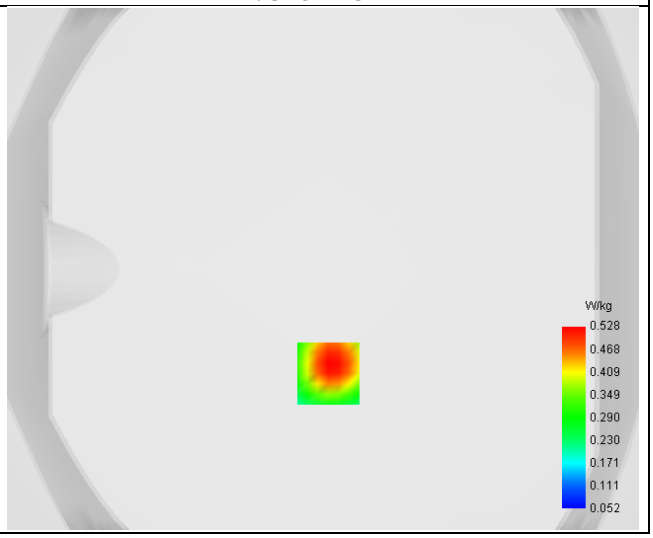
A. Experimental conditions.

Probe	2423-EPGO-413
ConvF	1.18
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	5.8GHz_802.11a
Channels	Low
Signal	5.8GHz (Crest factor: 1.0)

B. Permitivity

Frequency (MHz)	5745.000000
Relative permitivity (real part)	35.308250
Conductivity (S/m)	5.203842

C. SAR Surface and Volume

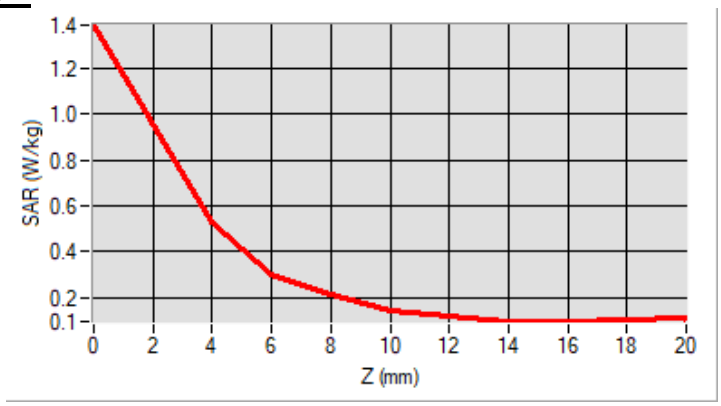
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-40.00 ; SAR Peak: 0.90 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.180399
SAR 1g (W/Kg)	0.358879
Variation (%)	0.510002

E. Z Axis Scan



------End of Report----