Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20775	Channel 21100	Channel 21425
5MHz	QPSK	1	0	0	22.87	22.54	21.88
			12	0	22.68	22.45	21.74
			24	0	22.83	22.52	21.49
		12	0	1	21.80	21.72	20.73
			6	1	21.73	21.73	20.74
			13	1	21.72	21.58	20.60
		25	0	1	21.77	21.57	20.63
	16QAM	1	0	1	21.68	21.80	20.85
			12	1	21.58	21.75	20.64
			24	1	21.67	21.70	20.53
		12	0	2	20.75	20.76	19.77
			6	2	20.74	20.80	19.78
			13	2	20.74	20.68	19.60
		25	0	2	20.82	20.60	19.64
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20800	Channel 21100	Channel 21400
10MHz	QPSK	1	0	0	22.91	22.85	22.10
			24	0	22.66	22.53	21.80
			49	0	23.17	22.61	21.15
		25	0	1	21.78	21.70	20.86
			12	1	21.75	21.73	20.89
			25	1	21.94	21.67	20.68
		50	0	1	21.88	21.69	20.83
	16QAM	1	0	1	22.07	21.78	21.16
			24	1	21.84	21.35	20.88
			49	1	22.24	21.52	20.68
		25	0	2	20.71	20.71	19.93
			12	2	20.71	20.74	19.92
			25	2	20.95	20.71	19.80
		50	0	2	20.82	20.66	19.83

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	23.62	23.28	22.31
			37	0	**23.76**	23.05	22.70
			74	0	22.36	22.96	21.99
		37	0	1	22.65	22.88	21.38
			16	1	22.90	22.55	21.66
			35	1	22.56	22.51	21.33
		75	0	1	22.24	22.31	21.54
	16QAM	1	0	1	22.24	22.90	21.38
			37	1	22.63	22.57	21.74
			74	1	22.84	22.53	21.30
		37	0	2	22.33	22.92	21.44
			16	2	22.66	22.56	21.73
			35	2	22.87	22.57	21.29
		75	0	2	21.59	21.26	20.48
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	23.29	23.65	22.18
			49	0	23.69	22.92	22.48
			99	0	23.74	23.18	22.13
		50	0	1	22.41	22.33	21.41
			25	1	22.38	22.36	21.42
			49	1	22.82	22.18	21.56
		100	0	1	22.69	22.15	21.53
	16QAM	1	0	1	22.43	23.31	21.27
			49	1	22.66	22.69	21.61
			99	1	22.70	22.93	21.57
		50	0	2	21.44	21.40	20.39
			25	2	21.48	21.44	20.40
			49	2	21.76	21.23	20.61
		100	0	2	21.64	21.25	20.43

Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	22.92	22.69	24.01
			2	0	22.73	22.62	**24.10**
			5	0	22.75	22.60	24.00
		3	0	0	22.80	22.68	24.01
			1	0	22.79	22.68	24.00
			2	0	22.64	22.57	23.96
		6	0	1	21.73	21.82	23.01
	16QAM	1	0	1	21.94	21.72	22.97
			2	1	21.69	21.77	23.08
			5	1	21.75	21.59	23.00
		3	0	1	21.63	21.51	22.83
			1	1	21.61	21.49	22.82
			2	1	21.54	21.40	22.90
		6	0	2	20.77	20.79	22.08
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	22.86	22.87	22.87
			7	0	22.80	22.76	22.93
			14	0	22.80	22.84	22.81
		8	0	1	21.83	21.77	21.79
			4	1	21.85	21.79	21.80
			7	1	21.91	21.75	21.81
		15	0	1	21.87	21.84	21.85
	16QAM	1	0	1	21.78	21.72	21.76
			7	1	21.88	21.63	21.86
			14	1	21.87	21.61	21.69
		8	0	2	20.87	20.75	20.83
			4	2	20.80	20.75	20.84
			7	2	20.90	20.76	20.83
		15	0	2	20.85	20.74	20.68

Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23035	23095	23155
5MHz	QPSK	1	0	0	22.92	22.92	22.93
			12	0	22.93	22.79	22.88
			24	0	22.89	22.75	22.85
		12	0	1	21.91	21.88	21.86
			6	1	21.90	21.87	21.87
			13	1	21.90	21.83	21.85
		25	0	1	21.87	21.89	21.86
	16QAM	1	0	1	21.81	21.87	21.85
			12	1	21.79	21.75	21.79
			24	1	21.88	21.81	21.85
		12	0	2	20.91	20.91	20.91
			6	2	20.89	20.91	20.93
			13	2	20.87	20.88	20.86
		25	0	2	20.87	20.83	20.93
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	23.06	23.12	23.13
			25	0	22.77	22.78	22.77
			49	0	22.89	22.87	22.86
		25	0	1	22.02	21.99	21.94
			13	1	22.03	21.89	21.93
			25	1	21.91	21.88	21.81
		50	0	1	21.89	21.78	21.82
	16QAM	1	0	1	22.14	22.06	21.95
			25	1	21.85	21.55	21.55
			49	1	21.96	21.71	21.81
		25	0	2	20.95	20.97	20.96
			13	2	20.94	20.92	20.97
			25	2	20.89	20.93	20.83
		50	0	2	20.88	20.77	20.90

Conducted Power of LTE Band 17(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23755	23790	23825
5MHz	QPSK	1	0	0	23.09	23.16	23.16
			12	0	23.14	23.12	23.21
			24	0	23.13	23.04	23.12
		12	0	1	22.13	22.05	22.14
			6	1	22.14	22.06	22.15
			13	1	22.05	22.00	22.13
		25	0	1	22.09	22.02	22.10
	16QAM	1	0	1	22.20	22.16	22.11
			12	1	22.22	22.01	22.13
			24	1	22.28	22.00	22.03
		12	0	2	21.11	21.08	21.15
			6	2	21.11	21.08	21.14
			13	2	21.14	21.05	21.09
		25	0	2	21.00	21.05	21.04
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	**23.41**	23.37	23.40
			24	0	23.25	23.02	23.02
			49	0	23.36	23.11	23.11
		25	0	1	22.29	22.22	22.17
			12	1	22.27	22.18	22.15
			25	1	22.08	22.08	22.10
		50	0	1	22.17	22.15	22.06
	16QAM	1	0	1	22.37	22.31	22.13
			24	1	22.19	21.87	21.80
			49	1	22.31	22.01	21.91
		25	0	2	21.22	21.19	21.21
			12	2	21.25	21.23	21.21
			25	2	21.05	21.20	21.08
		50	0	2	21.14	21.06	21.06

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	＞5	＞4	＞8	＞12	＞16	＞18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	＞5	＞4	＞8	＞12	＞16	＞18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
…					
NS_20	-	-	-	-	-

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	14.35
		06	2437	**14.42**
		11	2462	13.27
802.11g	6	01	2412	12.11
		06	2437	13.05
		11	2462	12.79
802.11n(20)	6.5	01	2412	10.97
		06	2437	12.08
		11	2462	11.86
802.11n(40)	13.5	03	2422	11.27
		06	2437	11.44
		09	2452	11.79

Bluetooth_V4.2(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	-3.935
	39	2441	-2.771
	78	2480	**2.124**
π /4-DQPSK	0	2402	-4.609
	39	2441	-2.618
	78	2480	2.266
8-DPSK	0	2402	-4.590
	39	2441	-2.650
	78	2480	2.212

Bluetooth_V4.2(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK 1M	0	2402	-5.947
	19	2440	-5.918
	39	2480	**-5.536**
GFSK 2M	0	2402	-5.920
	19	2440	-5.923
	39	2480	**-5.508**

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**14.82**	14.67	14.64	14.51	14.37	14.27	14.15	14.08
	40	5200	14.60	14.47	14.32	14.28	14.15	14.08	13.91	13.85
	44	5220	13.74	13.64	13.45	13.39	13.34	13.17	13.06	12.94
	48	5240	13.02	12.90	12.73	12.68	12.58	12.49	12.39	12.22
	149	5745	**16.42**	16.33	16.16	16.06	15.92	15.87	15.75	15.76
	157	5785	15.28	15.18	15.08	14.91	14.86	14.76	14.60	14.55
	165	5825	14.41	14.25	14.15	14.08	13.93	13.82	13.76	13.69
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	14.49	14.34	14.27	14.18	14.05	13.94	13.87	13.73
	40	5200	13.63	13.50	13.37	13.31	13.28	13.11	12.94	12.90
	44	5220	13.24	13.14	12.96	12.89	12.86	12.67	12.52	12.49
	48	5240	13.09	12.97	12.82	12.75	12.62	12.56	12.46	12.32
	149	5745	15.28	15.19	15.05	14.92	14.85	14.73	14.63	14.56
	157	5785	14.43	14.33	14.21	14.06	13.94	13.91	13.75	13.69
	165	5825	13.50	13.34	13.26	13.17	13.01	12.91	12.88	12.74
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	13.15	13.00	12.94	12.84	12.69	12.60	12.48	12.39
	46	5230	12.77	12.64	12.52	12.45	12.34	12.25	12.08	12.04
	151	5755	15.27	15.17	14.96	14.92	14.85	14.70	14.59	14.52
	159	5795	14.93	14.81	14.68	14.59	14.49	14.40	14.30	14.16
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	12.72	12.57	12.50	12.45	12.26	12.17	12.05	11.93
	40	5200	11.98	11.85	11.72	11.69	11.55	11.46	11.29	11.25
	44	5220	11.56	11.46	11.28	11.28	11.14	10.99	10.88	10.82
	48	5240	11.45	11.33	11.18	11.15	11.01	10.92	10.82	10.68
	149	5745	14.47	14.38	14.24	14.14	14.03	13.92	13.80	13.75
	157	5785	13.54	13.44	13.32	13.16	13.08	13.02	12.86	12.84
	165	5825	12.76	12.60	12.52	12.43	12.29	12.17	12.11	12.07
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	11.48	11.33	11.26	11.17	11.02	10.94	10.81	10.72
	46	5230	11.09	10.96	10.83	10.77	10.66	10.52	10.40	10.36
	151	5755	12.46	12.36	12.18	12.11	12.04	11.85	11.78	11.71
	159	5795	12.31	12.19	12.04	11.97	11.87	11.76	11.68	11.54
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	11.76	11.61	11.57	11.45	11.34	11.21	11.09	11.00
	155	5775	11.99	11.86	11.74	11.67	11.55	11.47	11.30	11.26

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 5mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/kg, SAR testing with a headset connected is not required.
5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing 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 ≤1.2W/kg.
6. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
9. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
10. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
11. Per KDB 941125 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.

12. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
13. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r03, smaller bandwidth SAR testing is not required.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 47.3					
Product: Brama S-A1									
Test Mode: GSM850 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Body back	voice	190	836.6	0.08	0.432	33.00	32.92	0.440	1.6
Body front	voice	190	836.6	0.09	0.209	33.00	32.92	0.213	1.6
Body back	GPRS-2 slot	190	836.6	-0.11	**0.582**	31.40	30.08	**0.789**	1.6
Body front	GPRS-2 slot	190	836.6	-0.01	0.276	31.40	30.08	0.374	1.6
Edge 1 (Top)	GPRS-2 slot	190	836.6	-0.14	0.467	31.40	30.08	0.633	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	0.14	0.351	31.40	30.08	0.476	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	-0.08	0.384	31.40	30.08	0.520	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: Brama S-A1									
Test Mode: PCS1900 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Body back	voice	661	1880.0	0.06	0.590	30.00	29.92	0.601	1.6
Body front	voice	661	1880.0	0.18	0.101	30.00	29.92	0.103	1.6
Body back	GPRS-2 slot	512	1850.2	-0.03	0.835	27.90	27.74	0.866	1.6
Body back	GPRS-2 slot	661	1880.0	-0.13	**1.040**	27.90	27.56	**1.125**	1.6
Body back	GPRS-2 slot	810	1909.8	-0.06	0.801	27.90	27.84	0.812	1.6
Body front	GPRS-2 slot	661	1880.0	-0.01	0.143	27.90	27.56	0.155	1.6
Edge 1 (Top)	GPRS-2 slot	661	1880.0	0.14	1.010	27.90	27.56	1.092	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	0.01	0.180	27.90	27.56	0.195	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	-0.01	0.240	27.90	27.56	0.260	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: Brama S-A1									
Test Mode: WCDMA Band II with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	9400	1880	0.11	**0.735**	22.50	22.34	**0.763**	1.6
Body front	RMC 12.2kbps	9400	1880	0.01	0.430	22.50	22.34	0.446	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-0.16	0.263	22.50	22.34	0.273	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.13	0.107	22.50	22.34	0.111	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.05	0.302	22.50	22.34	0.313	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.3					
Product: Brama S-A1									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	8662	1732.4	-0.13	**0.750**	22.80	22.57	**0.791**	1.6
Body front	RMC 12.2kbps	8662	1732.4	0.12	0.064	22.80	22.57	0.067	1.6
Edge 1 (Top)	RMC 12.2kbps	8662	1732.4	0.07	0.178	22.80	22.57	0.188	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	0.16	0.009	22.80	22.57	0.009	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.4	0.14	0.104	22.80	22.57	0.110	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15			Relative Humidity (%): 47.5						
Product: Brama S-A1									
Test Mode: WCDMA Band V with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	4132	826.4	0.13	0.821	23.80	23.76	0.829	1.6
Body back	RMC 12.2kbps	4183	836.6	0.13	0.805	23.80	23.54	0.855	1.6
Body back	RMC 12.2kbps	4233	846.6	0.15	**0.861**	23.80	23.50	**0.923**	1.6
Body front	RMC 12.2kbps	4183	836.6	0.06	0.470	23.80	23.54	0.499	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.6	-0.11	0.134	23.80	23.54	0.142	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	0.06	0.010	23.80	23.54	0.011	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	0.18	0.014	23.80	23.54	0.015	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 51.8							
Product: Brama S-A1												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB Allocation								
20	QPSK	Body back	1	0	18900	1880	0.05	0.605	22.20	22.17	0.609	1.6
		Body front	1	0	18900	1880	0.15	0.364	22.20	22.17	0.367	1.6
		Edge 1 (Top)	1	0	18900	1880	0.05	**0.732**	22.20	22.17	**0.737**	1.6
		Edge 2(Right)	1	0	18900	1880	0.06	0.094	22.20	22.17	0.095	1.6
		Edge 4(Left)	1	0	18900	1880	-0.05	0.309	22.20	22.17	0.311	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 54.3							
Product: Brama S-A1												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	20175	1732.5	-0.14	**0.506**	23.80	22.06	**0.755**	1.6
		Body front	1	0	20175	1732.5	0.13	0.036	23.80	22.06	0.054	1.6
		Edge 1 (Top)	1	0	20175	1732.5	0.09	0.150	23.80	22.06	0.224	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.10	0.004	23.80	22.06	0.006	1.6
		Edge 4(Left)	1	0	20175	1732.5	0.04	0.039	23.80	22.06	0.058	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 45.6							
Product: Brama S-A1												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	-0.11	**0.397**	24.00	22.78	**0.526**	1.6
		Body front	1	0	20525	836.5	-0.19	0.299	24.00	22.78	0.396	1.6
		Edge 1 (Top)	1	0	20525	836.5	0.07	0.007	24.00	22.78	0.009	1.6
		Edge 2(Right)	1	0	20525	836.5	0.19	0.079	24.00	22.78	0.105	1.6
		Edge 4(Left)	1	0	20525	836.5	-0.05	0.077	24.00	22.78	0.102	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 52.4								
Product: Brama S-A1												
Test Mode: LTE Band 7												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	21100	2535	-0.14	0.163	23.80	23.65	0.169	1.6
		Body front	1	0	21100	2535	-0.01	0.149	23.80	23.65	0.154	1.6
		Edge 1 (Top)	1	0	21100	2535	-0.03	0.014	23.80	23.65	0.014	1.6
		Edge 2(Right)	1	0	21100	2535	0.01	0.268	23.80	23.65	0.277	1.6
		Edge 4(Left)	1	0	21100	2535	-0.07	**0.557**	23.80	23.65	**0.577**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 50.6								
Product: Brama S-A1												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23095	707.5	0.06	**0.318**	24.10	23.12	**0.398**	1.6
		Body front	1	0	23095	707.5	-0.03	0.172	24.10	23.12	0.216	1.6
		Edge 1 (Top)	1	0	23095	707.5	-0.10	0.103	24.10	23.12	0.129	1.6
		Edge 2(Right)	1	0	23095	707.5	-0.17	0.200	24.10	23.12	0.251	1.6
		Edge 4(Left)	1	0	23095	707.5	-0.17	0.245	24.10	23.12	0.307	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 50.6							
Product: Brama S-A1												
Test Mode: LTE Band 17												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23790	710	0.11	**0.294**	23.50	23.37	**0.303**	1.6
		Body front	1	0	23790	710	-0.01	0.150	23.50	23.37	0.155	1.6
		Edge 1 (Top)	1	0	23790	710	-0.19	0.103	23.50	23.37	0.106	1.6
		Edge 2(Right)	1	0	23790	710	-0.15	0.183	23.50	23.37	0.189	1.6
		Edge 4(Left)	1	0	23790	710	-0.13	0.224	23.50	23.37	0.231	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 57.2					
Product: Brama S-A1									
Test Mode:802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	DTS	6	2437	-0.10	**0.202**	14.50	14.42	**0.206**	1.6
Body front	DTS	6	2437	0.15	0.196	14.50	14.42	0.200	1.6
Edge 3(Bottom)	DTS	6	2437	0.03	0.064	14.50	14.42	0.065	1.6
Edge 4(Left)	DTS	6	2437	0.14	0.159	14.50	14.42	0.162	1.6

Note:
- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above “DTS” means data transmitters.
- The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 46.4				
Product: Brama S-A1								
Test Mode: 5.2GHz WIFI								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	40	5200	-0.13	0.250	14.90	14.60	0.268	1.6
Body front	40	5200	0.17	0.184	14.90	14.60	0.197	1.6
Edge 3(Bottom)	40	5200	-0.12	**0.383**	14.90	14.60	**0.410**	1.6
Edge 4(Left)	40	5200	-0.02	0.295	14.90	14.60	0.316	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15			Relative Humidity (%): 42.1					
Product: Brama S-A1								
Test Mode: 5.8GHz WIFI								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	157	5785	0.08	0.252	16.50	15.28	0.334	1.6
Body front	157	5785	0.14	0.412	16.50	15.28	0.546	1.6
Edge 3(Bottom)	157	5785	0.14	0.148	16.50	15.28	0.196	1.6
Edge 4(Left)	157	5785	0.19	**0.496**	16.50	15.28	**0.657**	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 5mm of all above table.

Repeated SAR										
Product: Brama S-A1										
Test Mode: PCS1900& WCDMA Band V										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
Body back	GPRS-2 slot	661	1880.0	-0.05	**1.040**	--	--	--	--	1.6
Body back	RMC 12.2kbps	4233	846.6	0.06	**0.857**	--	--	--	--	1.6

The second repeated SAR judge reference								
Product: Brama S-A1								
Band	**Position**	**Mode**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
PCS1900	Body back	GPRS-2 slot	661	1880.0	1.040	1.040	1.000	＜1.2
WCDMA Band IV	Body back	RMC 12.2kbps	4233	846.6	0.861	0.857	1.005	＜1.2

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset	
		Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz&5GHz (data)	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	-
3	GSM (Data) + WLAN 2.4GHz &5GHz (data)	Yes	Yes
4	GSM (Data) + Bluetooth(data)	Yes	Yes
5	WCDMA+ WLAN 2.4GHz &5GHz (data)	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes
7	LTE + WLAN 2.4GHz&5GHz (data)	Yes	Yes
8	LTE + Bluetooth(data)	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 5mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - The result is rounded to one decimal place for comparison
   - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

   The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
   (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
   (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
   (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
   (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Body	3	2.00	5	0.084

Sum of the SAR for GSM 850 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	2.4GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.440	0.206		0.646	No
		0.440		0.084	0.524	No
	Front	0.213	0.200		0.413	No
		0.213		0.084	0.297	No
Body-worn (Data)	Rear	0.789		0.084	0.873	No
		0.789	0.206		0.995	No
	Front	0.374		0.084	0.458	No
		0.374	0.200		0.574	No
	Edge 4	0.520	0.162		0.682	No
	Edge 4	0.520		0.084	0.604	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 1900 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	2.4GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.601	0.206		0.807	No
		0.601		0.084	0.685	No
	Front	0.103	0.200		0.303	No
		0.103		0.084	0.187	No
Body-worn (Data)	Rear	1.125		0.084	1.209	No
		1.125	0.206		1.331	No
	Front	0.155		0.084	0.239	No
		0.155	0.200		0.355	No
	Edge 4	0.260	0.162		0.422	No
	Edge 4	0.260		0.084	0.344	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band II &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.763	0.206		0.969	No
	Front	0.446	0.200		0.646	No
	Edge 4	0.313	0.162		0.475	No
	Rear	0.763		0.084	0.847	No
	Front	0.446		0.084	0.530	No
	Edge 4	0.313		0.084	0.397	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band IV &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.791	0.206		0.997	No
	Front	0.067	0.200		0.267	No
	Edge 4	0.110	0.162		0.272	No
	Rear	0.791		0.084	0.875	No
	Front	0.067		0.084	0.151	No
	Edge 4	0.110		0.084	0.194	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band V &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.923	0.206		1.129	No
	Front	0.499	0.200		0.699	No
	Edge 4	0.015	0.162		0.177	No
	Rear	0.923		0.084	1.007	No
	Front	0.499		0.084	0.583	No
	Edge 4	0.015		0.084	0.099	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 2 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.609	0.206		0.815	No
	Front	0.367	0.200		0.567	No
	Edge 4	0.311	0.162		0.473	No
	Rear	0.609		0.084	0.693	No
	Front	0.367		0.084	0.451	No
	Edge 4	0.311		0.084	0.395	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 4 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.755	0.206		0.961	No
	Front	0.054	0.200		0.254	No
	Edge 4	0.058	0.162		0.220	No
	Rear	0.755		0.084	0.839	No
	Front	0.054		0.084	0.138	No
	Edge 4	0.058		0.084	0.142	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 5 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.526	0.206		0.732	No
	Front	0.396	0.200		0.596	No
	Edge 4	0.102	0.162		0.264	No
	Rear	0.755		0.084	0.839	No
	Front	0.396		0.084	0.480	No
	Edge 4	0.102		0.084	0.186	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 7 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.169	0.206		0.375	No
	Front	0.154	0.200		0.354	No
	Edge 4	0.577	0.162		0.739	No
	Rear	0.169		0.084	0.253	No
	Front	0.154		0.084	0.238	No
	Edge 4	0.577		0.084	0.661	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Sum of the SAR for LTE Band 12 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.398	0.206		0.604	No
	Front	0.216	0.200		0.416	No
	Edge 4	0.307	0.162		0.469	No
	Rear	0.398		0.084	0.482	No
	Front	0.216		0.084	0.300	No
	Edge 4	0.307		0.084	0.391	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Sum of the SAR for LTE Band 17 &2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.303	0.206		0.509	No
	Front	0.155	0.200		0.355	No
	Edge 4	0.231	0.162		0.393	No
	Rear	0.303		0.084	0.387	No
	Front	0.155		0.084	0.239	No
	Edge 4	0.231		0.084	0.315	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 850 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.440	0.268		0.708	No
		0.440		0.084	0.524	No
	Front	0.213	0.197		0.410	No
		0.213		0.084	0.297	No
Body-worn (Data)	Rear	0.789		0.084	0.873	No
		0.789	0.268		1.057	No
	Front	0.374		0.084	0.458	No
		0.374	0.197		0.571	No
	Edge 4	0.520	0.316		0.836	No
	Edge 4	0.520		0.084	0.604	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 1900 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.601	0.268		0.869	No
		0.601		0.084	0.685	No
	Front	0.103	0.197		0.300	No
		0.103		0.084	0.187	No
Body-worn (Data)	Rear	1.125		0.084	1.209	No
		1.125	0.268		1.393	No
	Front	0.155		0.084	0.239	No
		0.155	0.197		0.352	No
	Edge 4	0.260	0.316		0.576	No
	Edge 4	0.260		0.084	0.344	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band II &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.763	0.268		1.031	No
	Front	0.446	0.197		0.643	No
	Edge 4	0.313	0.316		0.629	No
	Rear	0.763		0.084	0.847	No
	Front	0.446		0.084	0.530	No
	Edge 4	0.313		0.084	0.397	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band IV &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.791	0.268		1.059	No
	Front	0.067	0.197		0.264	No
	Edge 4	0.110	0.316		0.426	No
	Rear	0.791		0.084	0.875	No
	Front	0.067		0.084	0.151	No
	Edge 4	0.110		0.084	0.194	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band V &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.923	0.268		1.191	No
	Front	0.499	0.197		0.696	No
	Edge 4	0.015	0.316		0.331	No
	Rear	0.923		0.084	1.007	No
	Front	0.499		0.084	0.583	No
	Edge 4	0.015		0.084	0.099	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 2 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.609	0.268		0.877	No
	Front	0.367	0.197		0.564	No
	Edge 4	0.311	0.316		0.627	No
	Rear	0.609		0.084	0.693	No
	Front	0.367		0.084	0.451	No
	Edge 4	0.311		0.084	0.395	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 4 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.755	0.268		1.023	No
	Front	0.054	0.197		0.251	No
	Edge 4	0.058	0.316		0.374	No
	Rear	0.755		0.084	0.839	No
	Front	0.054		0.084	0.138	No
	Edge 4	0.058		0.084	0.142	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 5 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.526	0.268		0.794	No
	Front	0.396	0.197		0.593	No
	Edge 4	0.102	0.316		0.418	No
	Rear	0.755		0.084	0.839	No
	Front	0.396		0.084	0.480	No
	Edge 4	0.102		0.084	0.186	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 7 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.169	0.268		0.437	No
	Front	0.154	0.197		0.351	No
	Edge 4	0.577	0.316		0.893	No
	Rear	0.169		0.084	0.253	No
	Front	0.154		0.084	0.238	No
	Edge 4	0.577		0.084	0.661	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 12 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.398	0.268		0.666	No
	Front	0.216	0.197		0.413	No
	Edge 4	0.307	0.316		0.623	No
	Rear	0.398		0.084	0.482	No
	Front	0.216		0.084	0.300	No
	Edge 4	0.307		0.084	0.391	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio

Sum of the SAR for LTE Band 17 &5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.303	0.268		0.571	No
	Front	0.155	0.197		0.352	No
	Edge 4	0.231	0.316		0.547	No
	Rear	0.303		0.084	0.387	No
	Front	0.155		0.084	0.239	No
	Edge 4	0.231		0.084	0.315	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 850 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.8GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.440	0.334		0.774	No
		0.440		0.084	0.524	No
	Front	0.213	0.546		0.759	No
		0.213		0.084	0.297	No
Body-worn (Data)	Rear	0.789		0.084	0.873	No
		0.789	0.334		1.123	No
	Front	0.374		0.084	0.458	No
		0.374	0.546		0.920	No
	Edge 4	0.520	0.657		1.177	No
	Edge 4	0.520		0.084	0.604	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 1900 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.8GHz WI-Fi DTS Band	Bluetooth		
Body-worn (voice)	Rear	0.601	0.334		0.935	No
		0.601		0.084	0.685	No
	Front	0.103	0.546		0.649	No
		0.103		0.084	0.187	No
Body-worn (Data)	Rear	1.125		0.084	1.209	No
		1.125	0.334		**1.459**	No
	Front	0.155		0.084	0.239	No
		0.155	0.546		0.701	No
	Edge 4	0.260	0.657		0.917	No
	Edge 4	0.260		0.084	0.344	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band II &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.763	0.334		1.097	No
	Front	0.446	0.546		0.992	No
	Edge 4	0.313	0.657		0.970	No
	Rear	0.763		0.084	0.847	No
	Front	0.446		0.084	0.530	No
	Edge 4	0.313		0.084	0.397	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band IV &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.791	0.334		1.125	No
	Front	0.067	0.546		0.613	No
	Edge 4	0.110	0.657		0.767	No
	Rear	0.791		0.084	0.875	No
	Front	0.067		0.084	0.151	No
	Edge 4	0.110		0.084	0.194	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band V &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.923	0.334		1.257	No
	Front	0.499	0.546		1.045	No
	Edge 4	0.015	0.657		0.672	No
	Rear	0.923		0.084	1.007	No
	Front	0.499		0.084	0.583	No
	Edge 4	0.015		0.084	0.099	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 2 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.609	0.334		0.943	No
	Front	0.367	0.546		0.913	No
	Edge 4	0.311	0.657		0.968	No
	Rear	0.609		0.084	0.693	No
	Front	0.367		0.084	0.451	No
	Edge 4	0.311		0.084	0.395	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 4 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.755	0.334		1.089	No
	Front	0.054	0.546		0.600	No
	Edge 4	0.058	0.657		0.715	No
	Rear	0.755		0.084	0.839	No
	Front	0.054		0.084	0.138	No
	Edge 4	0.058		0.084	0.142	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 5 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.526	0.334		0.860	No
	Front	0.396	0.546		0.942	No
	Edge 4	0.102	0.657		0.759	No
	Rear	0.755		0.084	0.839	No
	Front	0.396		0.084	0.480	No
	Edge 4	0.102		0.084	0.186	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 7 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.169	0.334		0.503	No
	Front	0.154	0.546		0.700	No
	Edge 4	0.577	0.657		1.234	No
	Rear	0.169		0.084	0.253	No
	Front	0.154		0.084	0.238	No
	Edge 4	0.577		0.084	0.661	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Sum of the SAR for LTE Band 12 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.398	0.334		0.732	No
	Front	0.216	0.546		0.762	No
	Edge 4	0.307	0.657		0.964	No
	Rear	0.398		0.084	0.482	No
	Front	0.216		0.084	0.300	No
	Edge 4	0.307		0.084	0.391	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Sum of the SAR for LTE Band 17 &5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.303	0.334		0.637	No
	Front	0.155	0.546		0.701	No
	Edge 4	0.231	0.657		0.888	No
	Rear	0.303		0.084	0.387	No
	Front	0.155		0.084	0.239	No
	Edge 4	0.231		0.084	0.315	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.
·SPLSR mean is "The SAR to Peak Location Separation Ratio "

APPENDIX A. SAR SYSTEM CHECK DATA

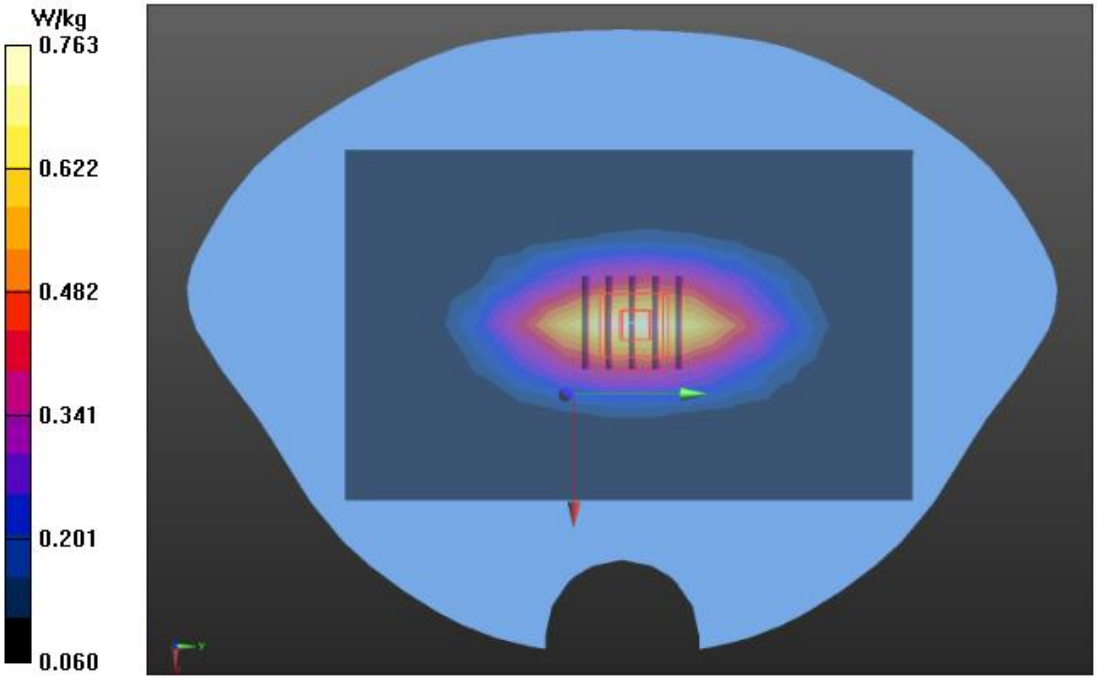
Test Laboratory: AGC Lab **Date: Nov. 08, 2021**
System Check Head 750MHz
DUT: Dipole 750 MHz Type: SID 750

Communication System: CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1;
Frequency: 750 MHz; Medium parameters used: f = 750MHz; σ =0.90 mho/m; ε_r =42.61; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 750MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.758 W/kg

Configuration/System Check Head 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.552 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.953 W/kg
SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.354 W/kg
Maximum value of SAR (measured) = 0.763 W/kg



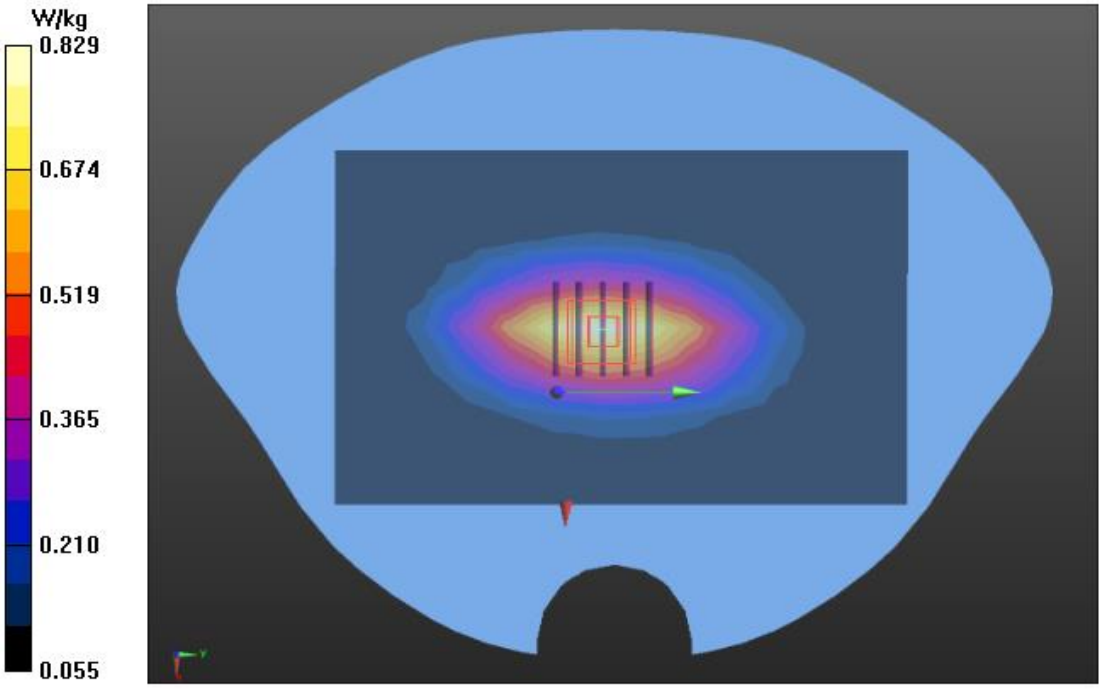
Test Laboratory: AGC Lab **Date: Nov. 24, 2021**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.88 mho/m; εr =42.72; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 835MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.824 W/kg

Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.987 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.999 W/kg
SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.389 W/kg
Maximum value of SAR (measured) = 0.829 W/kg



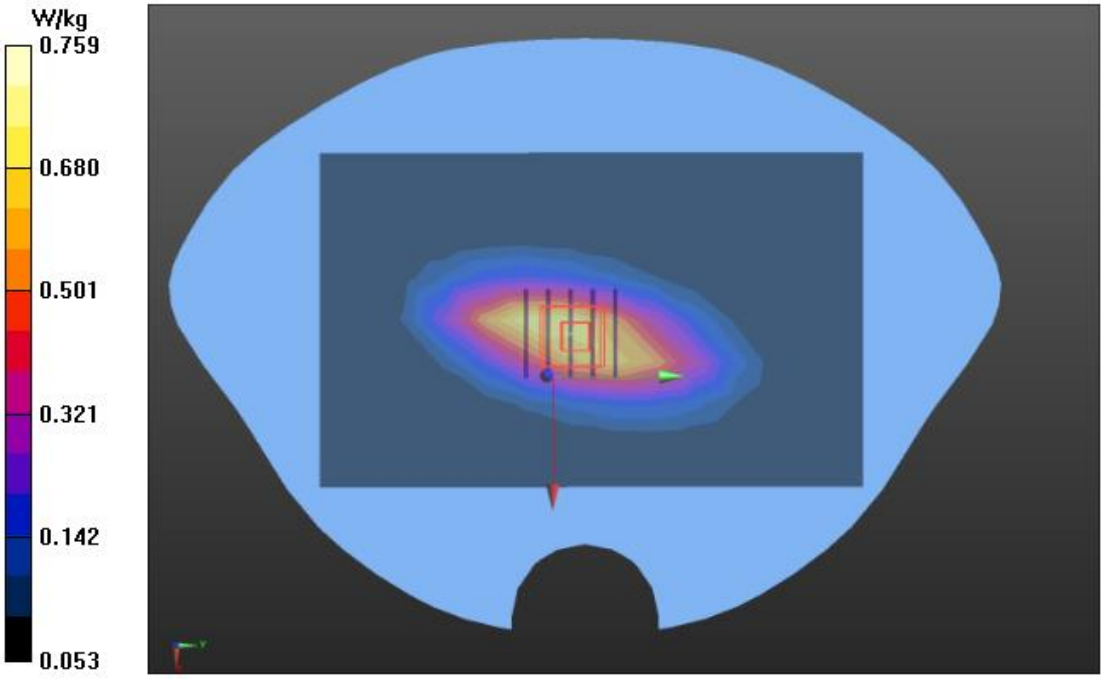
Test Laboratory: AGC Lab **Date: Nov. 30, 2021**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ =0.91 mho/m; ε_r =41.07; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 835MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.752 W/kg

Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.47 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.387 W/kg
Maximum value of SAR (measured) = 0.759 W/kg



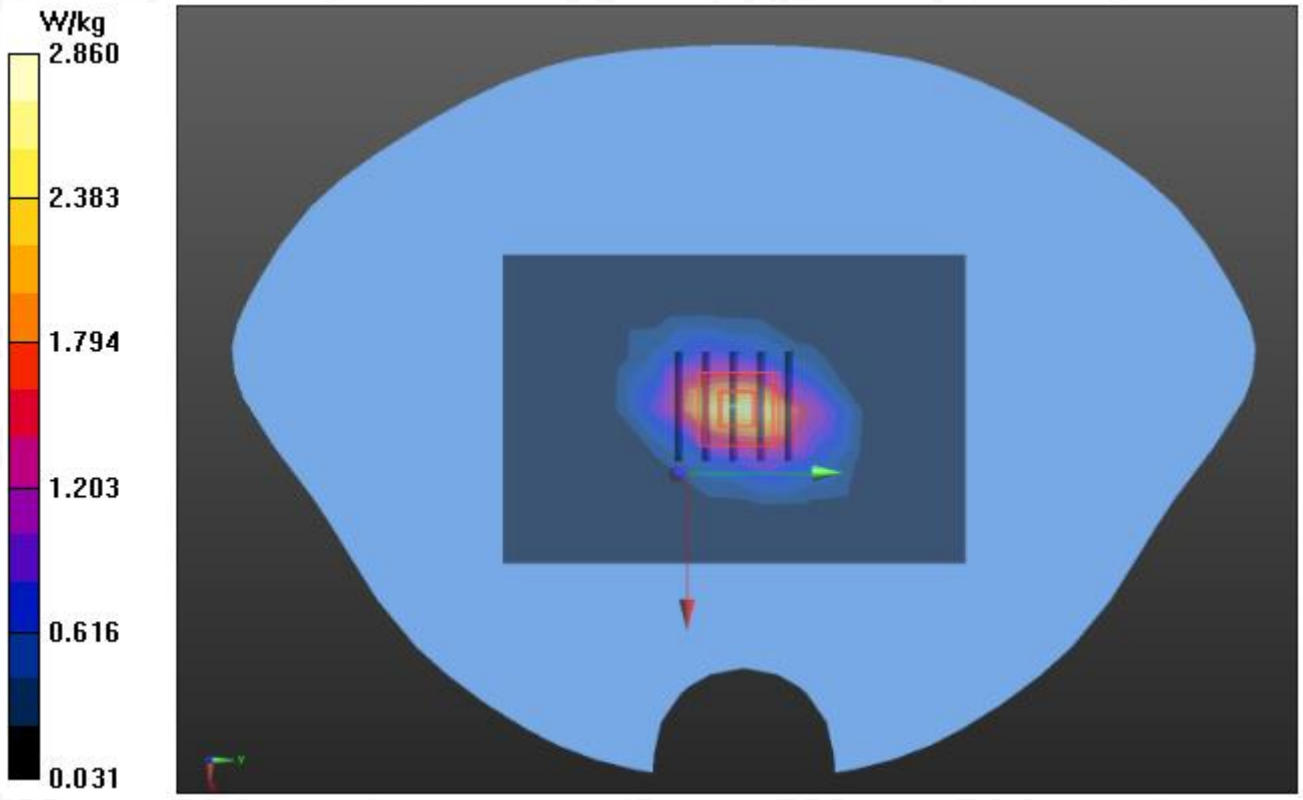
Test Laboratory: AGC Lab **Date: Nov. 03, 2021**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle: 1:1;
Frequency: 1750 MHz; Medium parameters used: f = 1750 MHz; σ =1.36 mho/m; ε_r =39.87; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1750MHz/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.59 W/kg

Configuration/System Check Head 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.257 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 4.22 W/kg
SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 2.86 W/kg



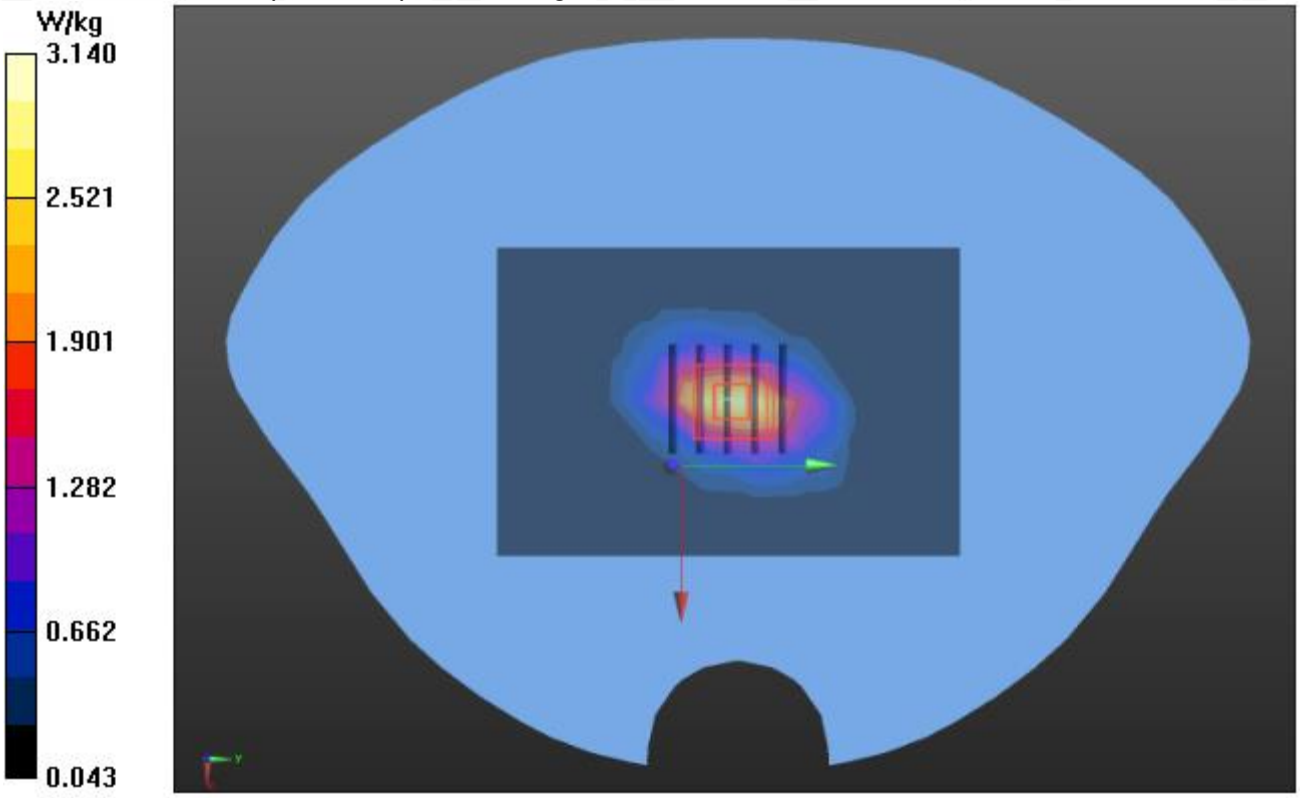
Test Laboratory: AGC Lab **Date: Nov. 25, 2021**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.37 mho/m; εr =39.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1900MHz/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.01 W/kg

Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.918 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 4.75 W/kg
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 3.14 W/kg



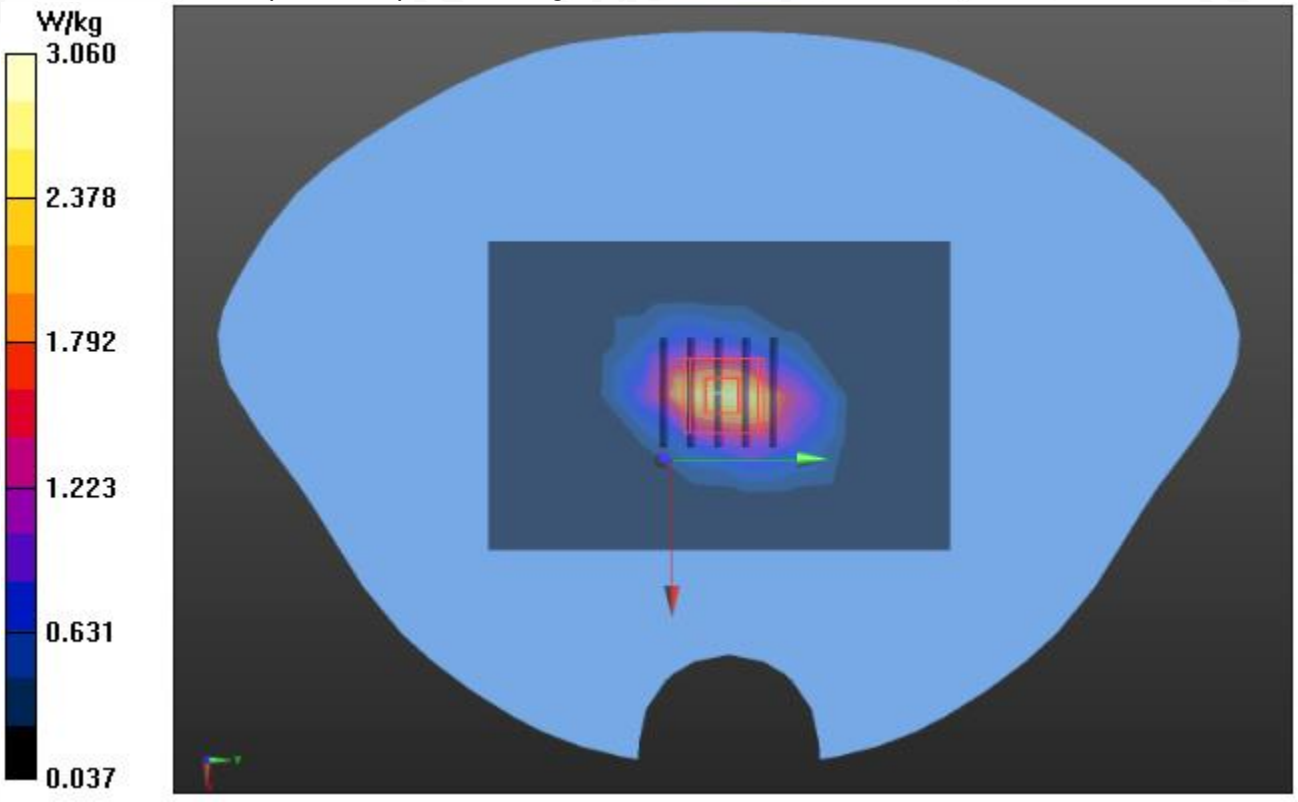
Test Laboratory: AGC Lab **Date: Nov. 02, 2021**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.37 mho/m; ε_r =39.56;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1900MH/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.95 W/kg

Configuration/System Check Head 1900MH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.589 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 4.49 W/kg
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 3.06 W/kg



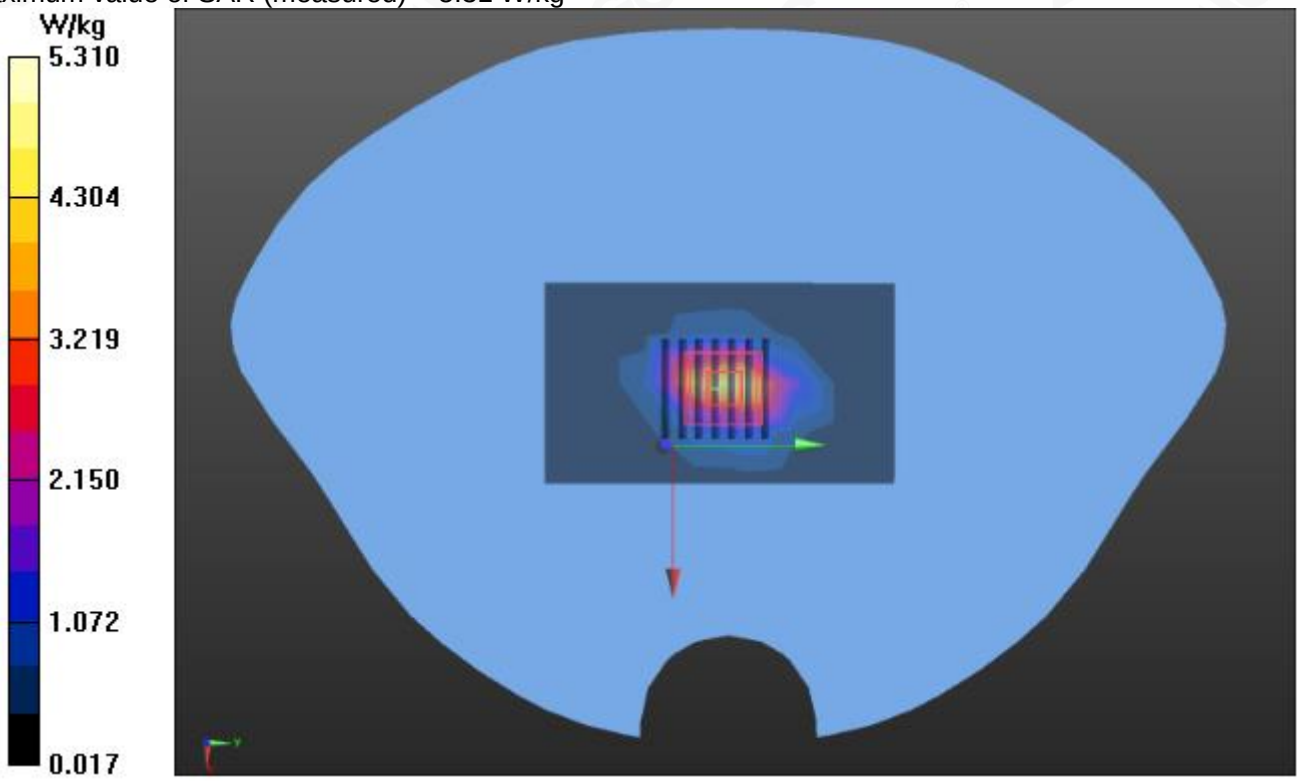
Test Laboratory: AGC Lab **Date: Nov. 04, 2021**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.78 mho/m; εr =38.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 2450Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) =5.25 W/kg

Configuration/System Check Head 2450Hz/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.017 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 7.35 W/kg
SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.56 W/kg
Maximum value of SAR (measured) = 5.31 W/kg



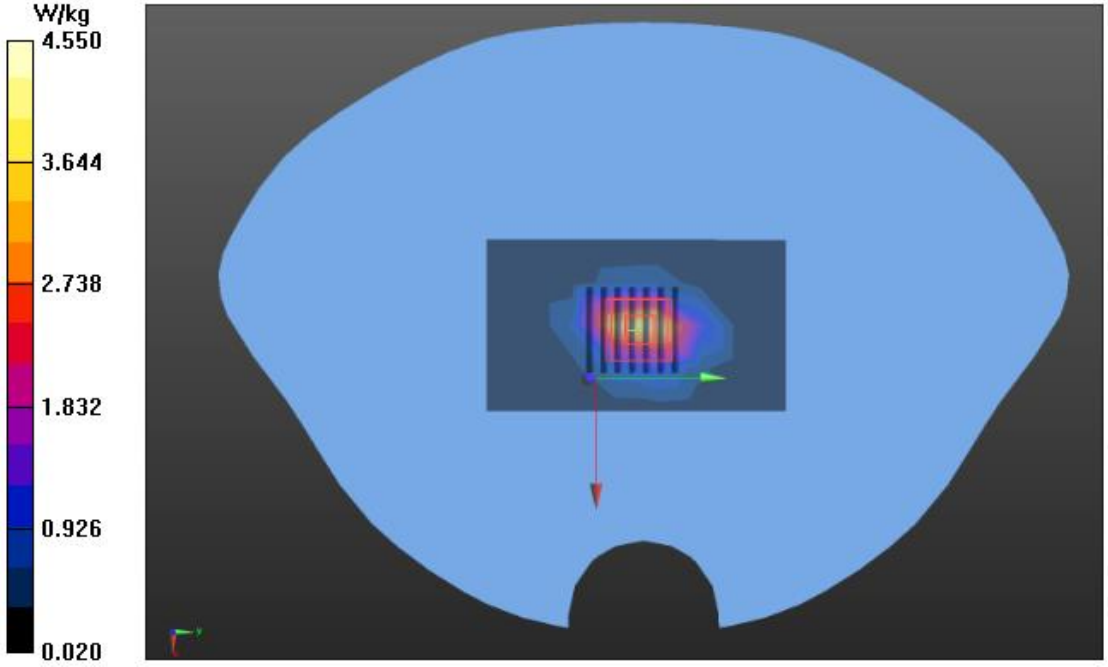
Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
System Check Head 2600 MHz
DUT: Dipole 2600 MHz; Type: SID 2600

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1;
Frequency: 2600 MHz; Medium parameters used: f = 2600 MHz; σ =1.91 mho/m; ε_r =38.64; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.42, 7.42, 7.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 2600Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.71 W/kg

Configuration/System Check Head 2600Hz/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.558 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 6.12 W/kg
SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.47 W/kg
Maximum value of SAR (measured) = 4.55 W/kg



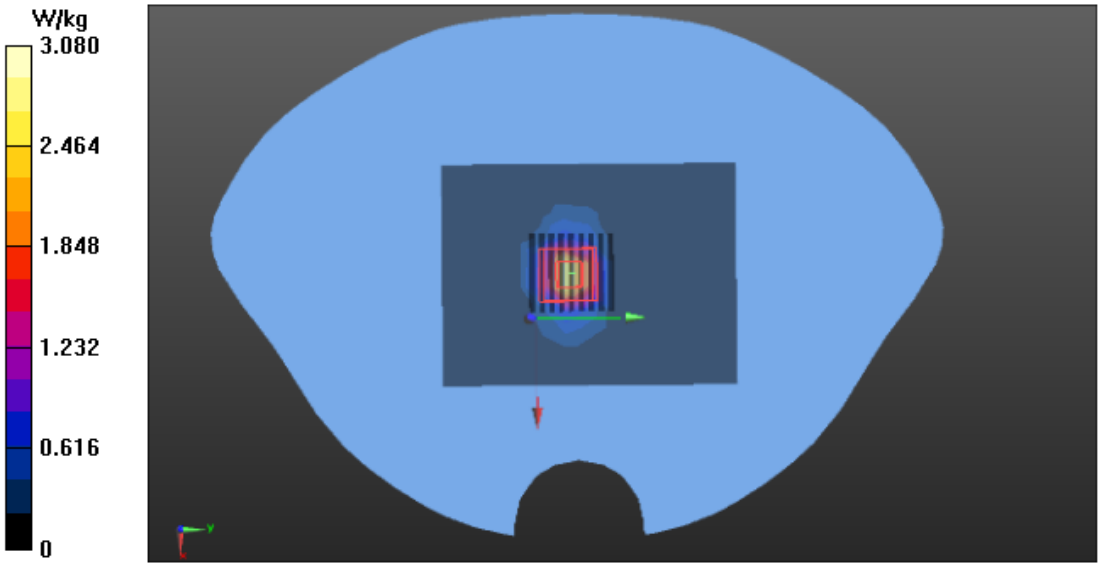
Test Laboratory: AGC Lab **Date: Nov. 28, 2021**
System Check Head 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.79mho/m; εr = 36.84; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.7,

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5200MHz Head/Area Scan (10x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.64 W/kg

Configuration/System Check 5200MHz Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 26.274 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 5.59 W/kg
SAR(1 g) = 1.69 W/kg; SAR(10 g) = 0.587 W/kg
Maximum value of SAR (measured) = 3.08 W/kg



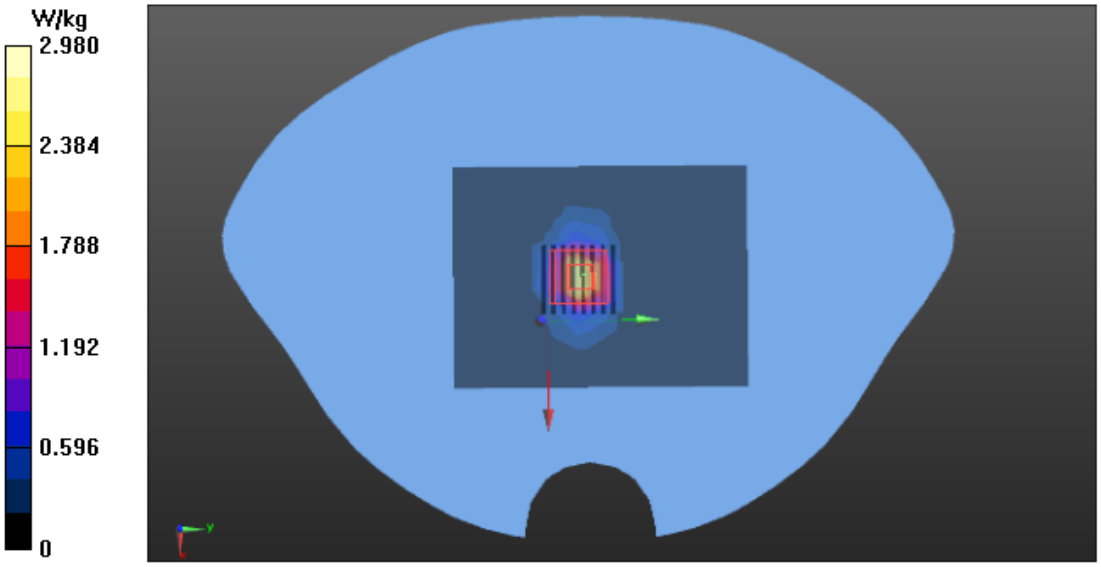
Test Laboratory: AGC Lab **Date: Nov. 29, 2021**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5800 MHz; Medium parameters used: f = 5750 MHz; σ =5.24 mho/m; εr =35.87; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.5, Liquid temperature (℃):

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5800MHz Head/Area Scan (10x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.59 W/kg

Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 26.103 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 5.42 W/kg
SAR(1 g) = 1.71 W/kg; SAR(10 g) = 0.574 W/kg
Maximum value of SAR (measured) = 2.98 W/kg



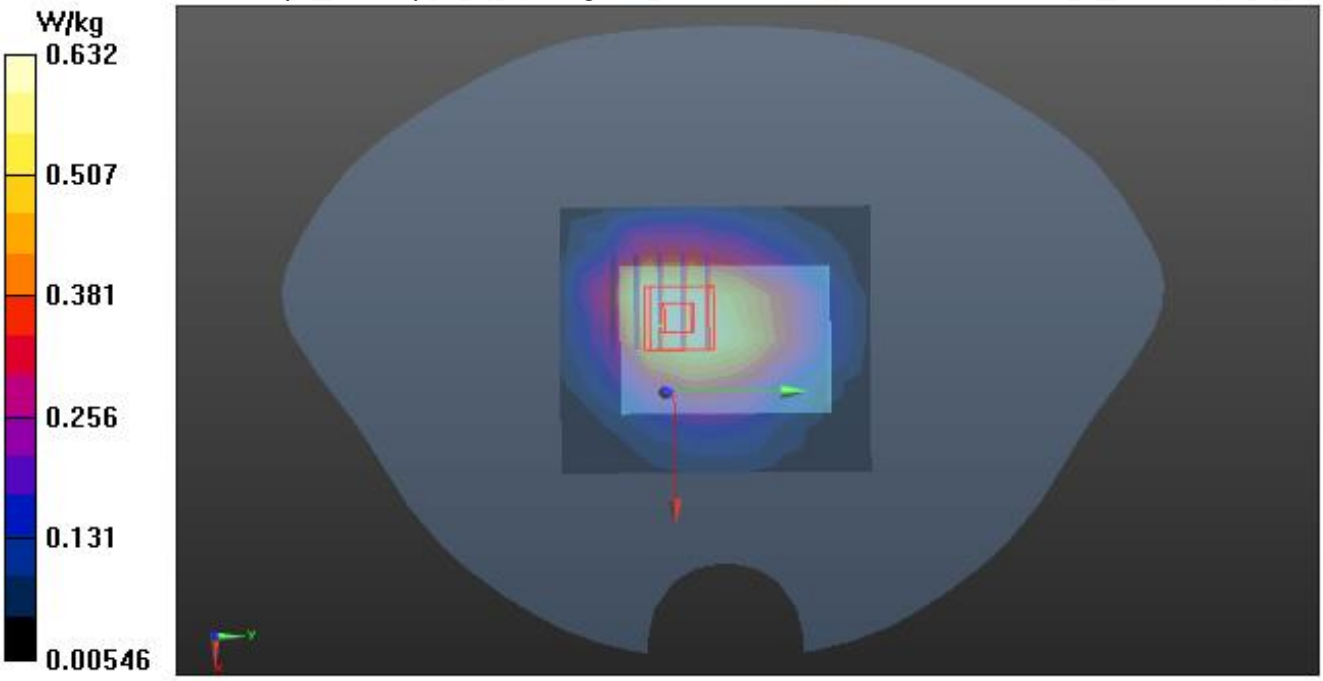
APPENDIX B. SAR MEASUREMENT DATA

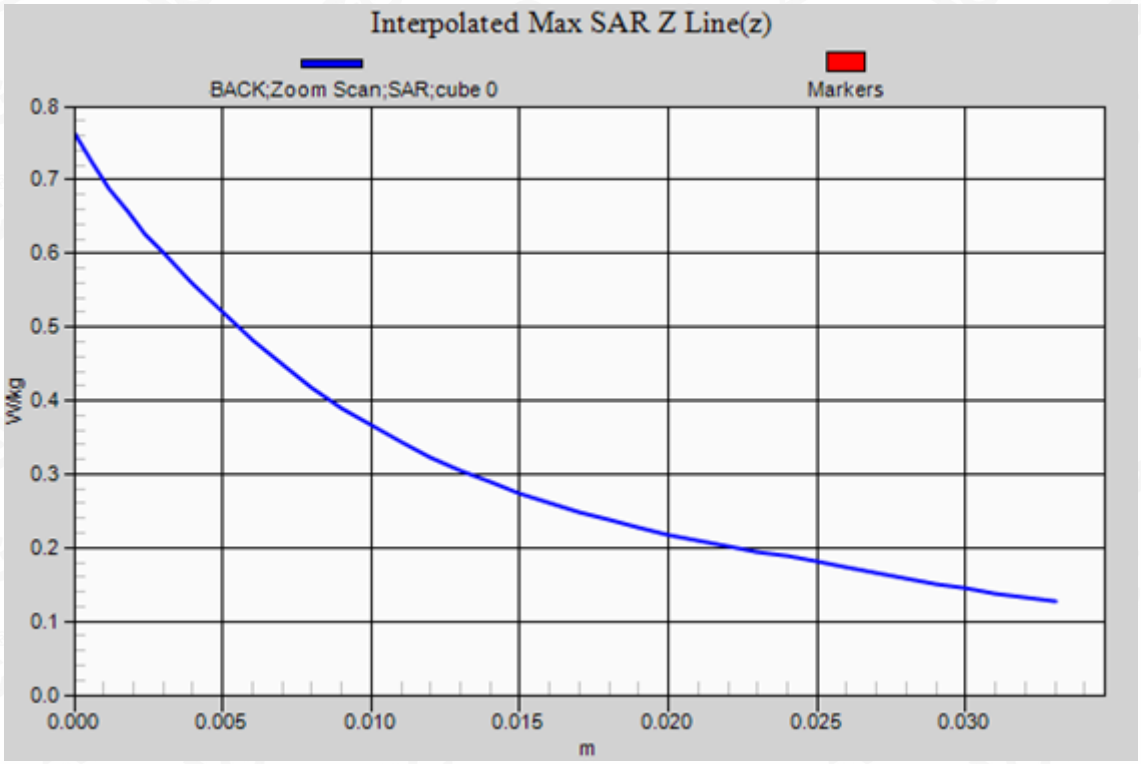
Test Laboratory: AGC Lab **Date: Nov. 24, 2021**
GPRS 850 Mid- Body- Back (2up) < SIM 1>
DUT: Brama S-A1; Type: M2

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.89 mho/m; εr = 42.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/2ST-BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.665 W/kg
BODY/2ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.590 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.762 W/kg
SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.437 W/kg
Maximum value of SAR (measured) = 0.632 W/kg



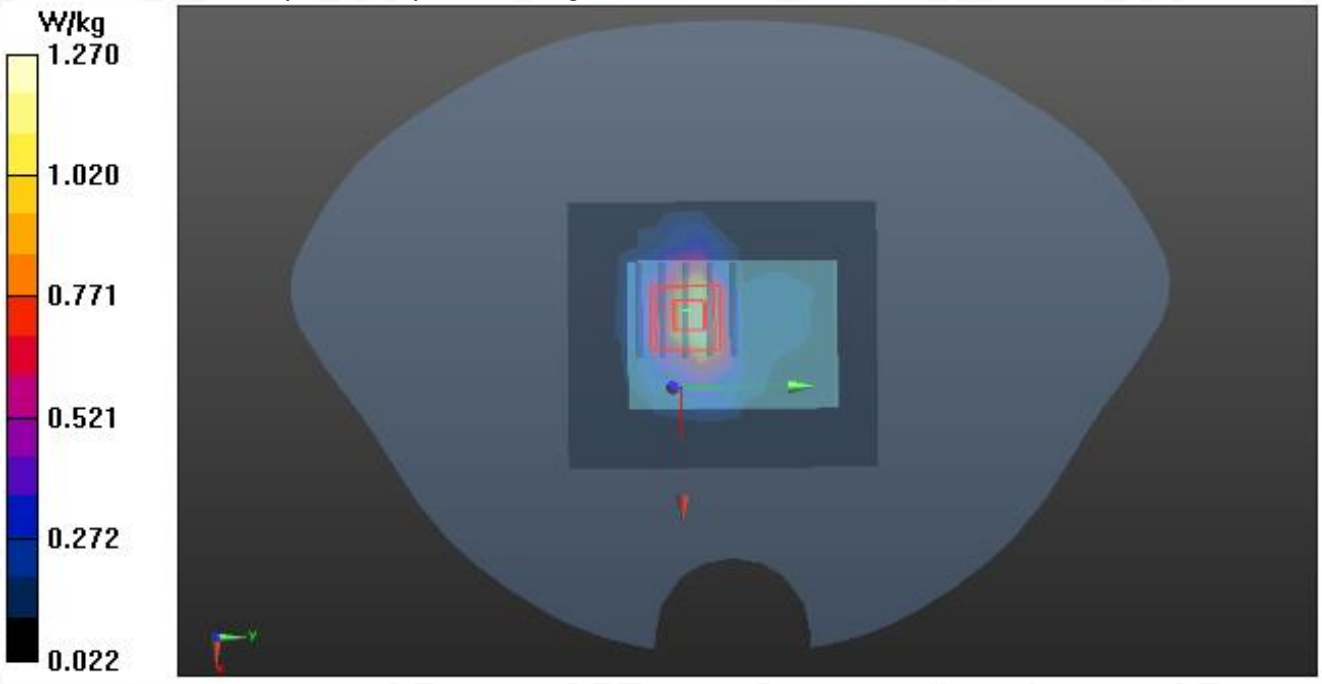


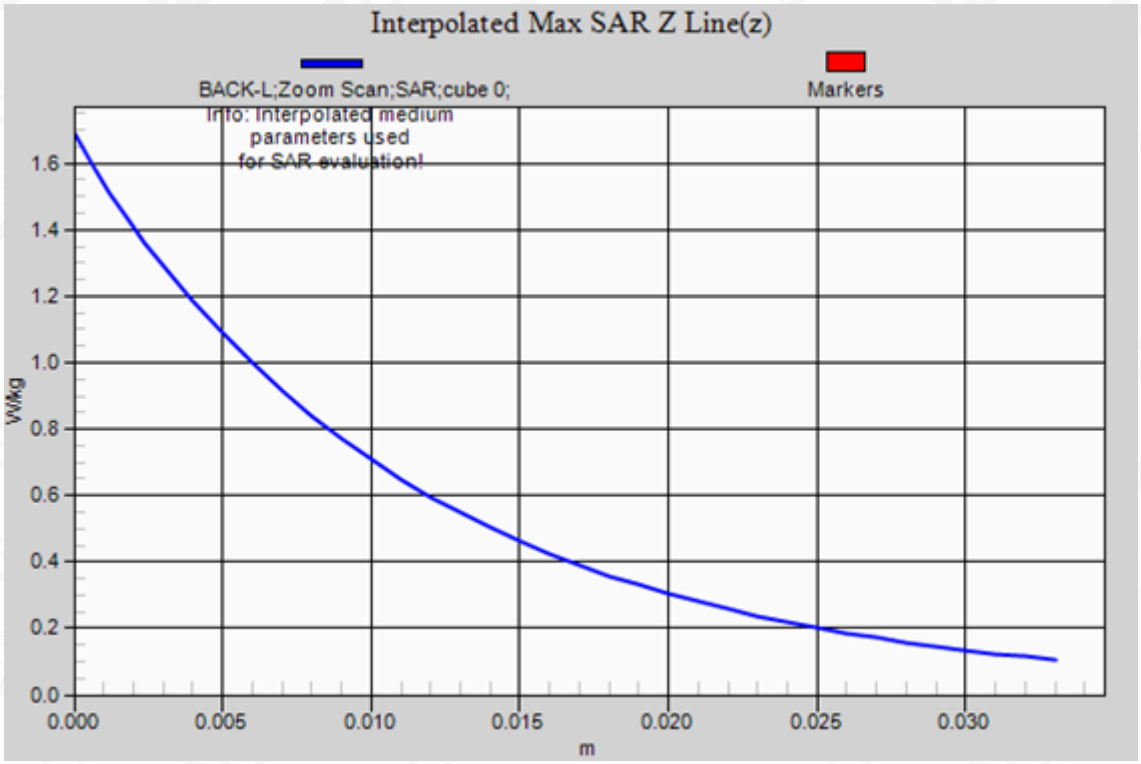
Test Laboratory: AGC Lab **Date: Nov. 25, 2021**
GPRS 1900 Mid-Body -Back (2up) < SIM 1>
DUT: Brama S-A1; Type: M2

Communication System: GPRS-2 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.36 mho/m; εr =39.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/2ST-BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.21 W/kg
BODY/2ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.493 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.69 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.576 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



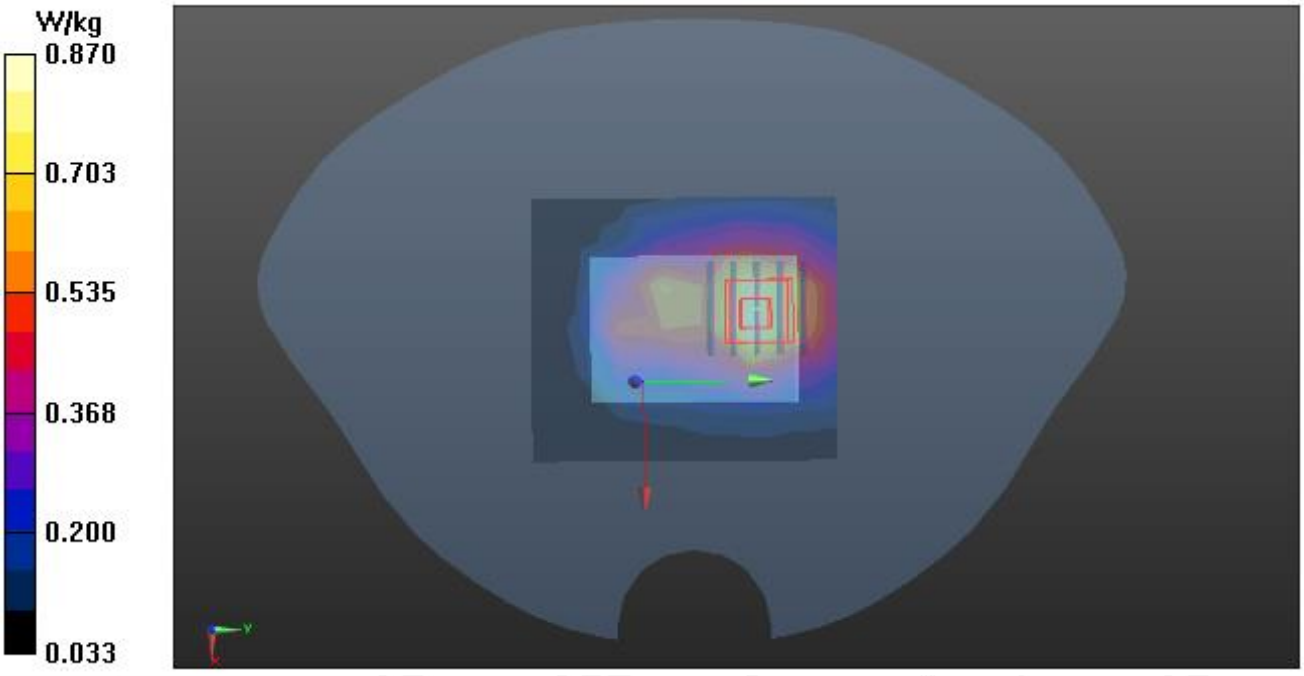


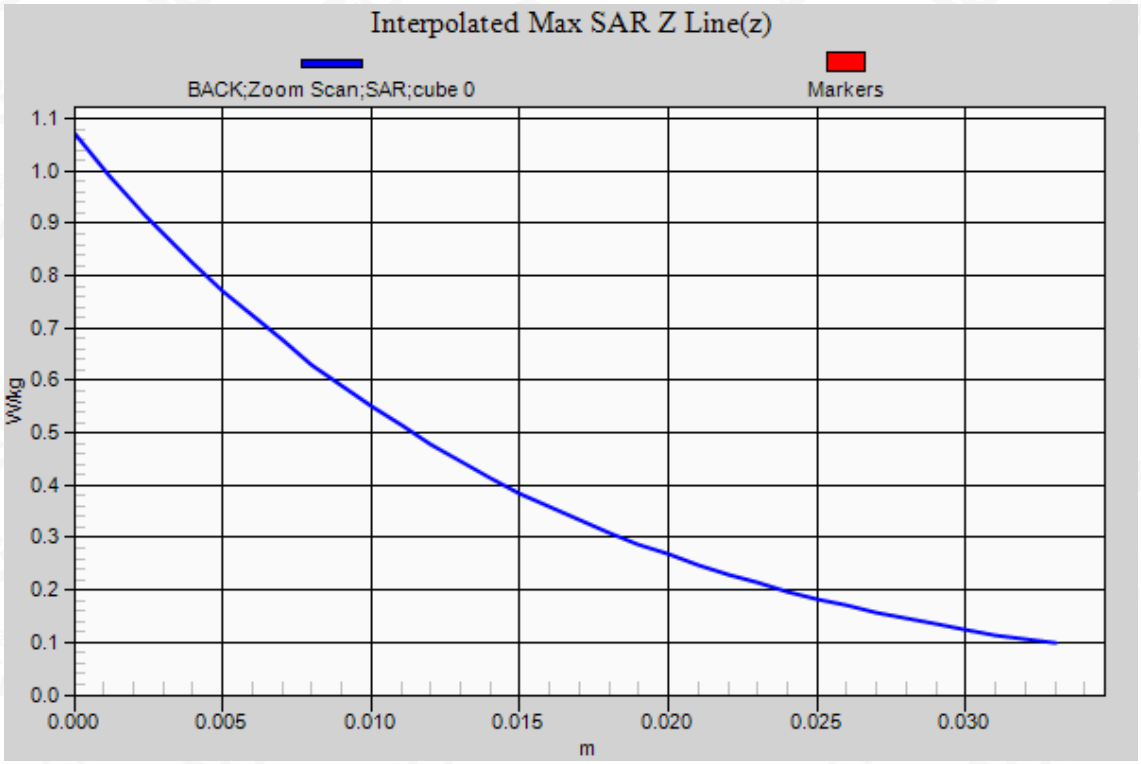
Test Laboratory: AGC Lab **Date: Nov. 25, 2021**
WCDMA Band II Mid -Body-Towards Grounds
DUT: Brama S-A1; Type: M2

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ=1.36 mho/m; εr =39.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.884 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.329 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.482 W/kg
Maximum value of SAR (measured) = 0.870 W/kg



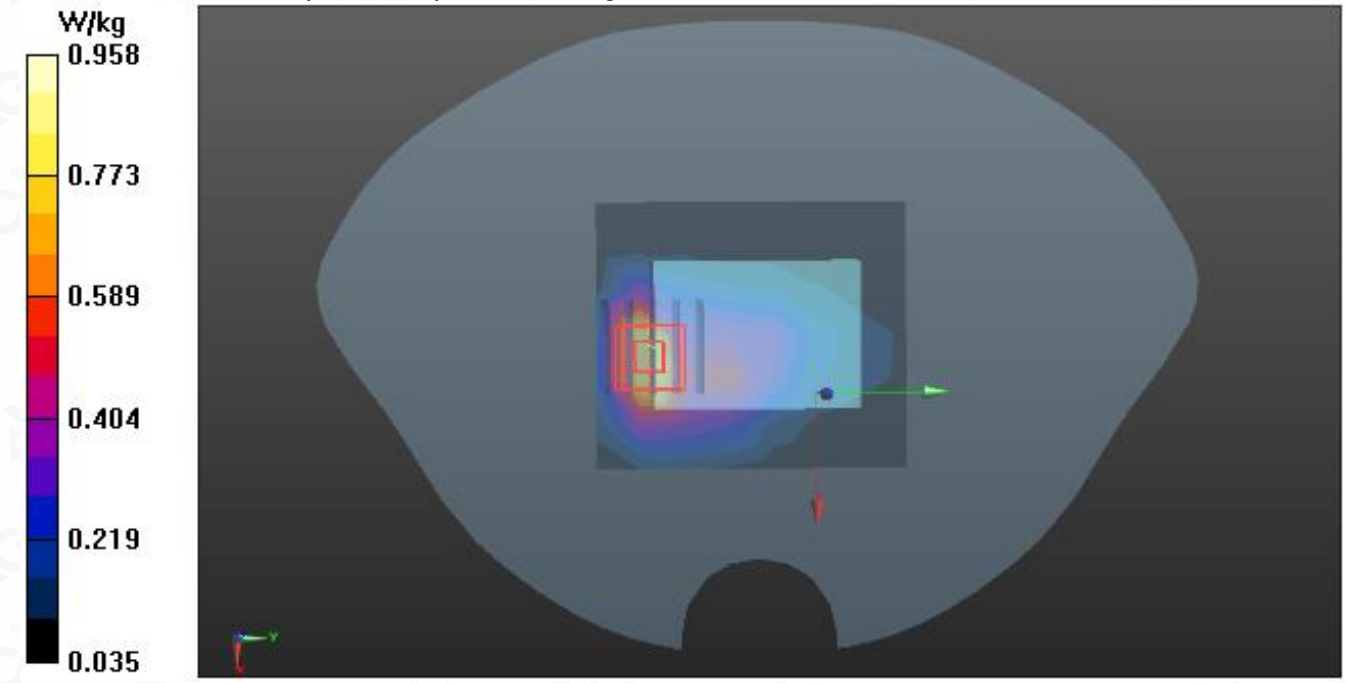


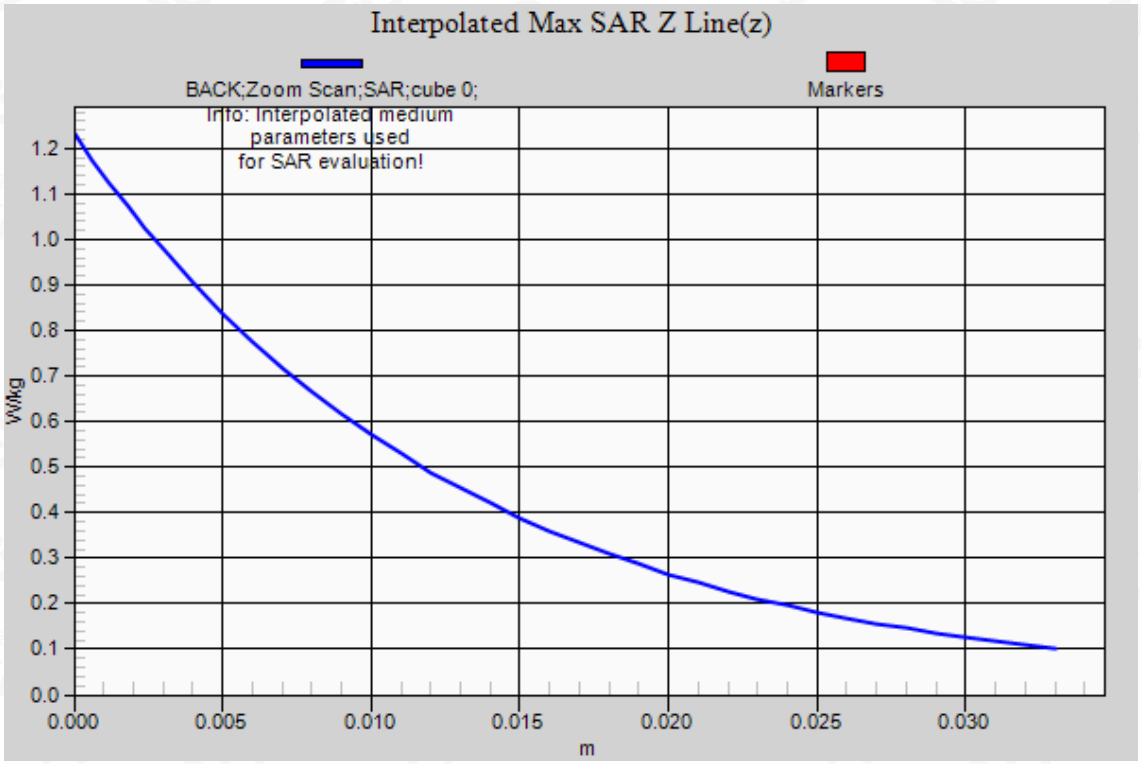
Test Laboratory: AGC Lab **Date: Nov. 03, 2021**
WCDMA Band IV Mid-Body-Towards Grounds
DUT: Brama S-A1; Type: M2

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD;Duty Cycle:1:1;
Frequency: 1732.4 MHz; Medium parameters used: f = 1800 MHz; σ = 1.35 mho/m; εr =40.12; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.912 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.434 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.750W/kg; SAR(10 g) = 0.428 W/kg
Maximum value of SAR (measured) = 0.958 W/kg



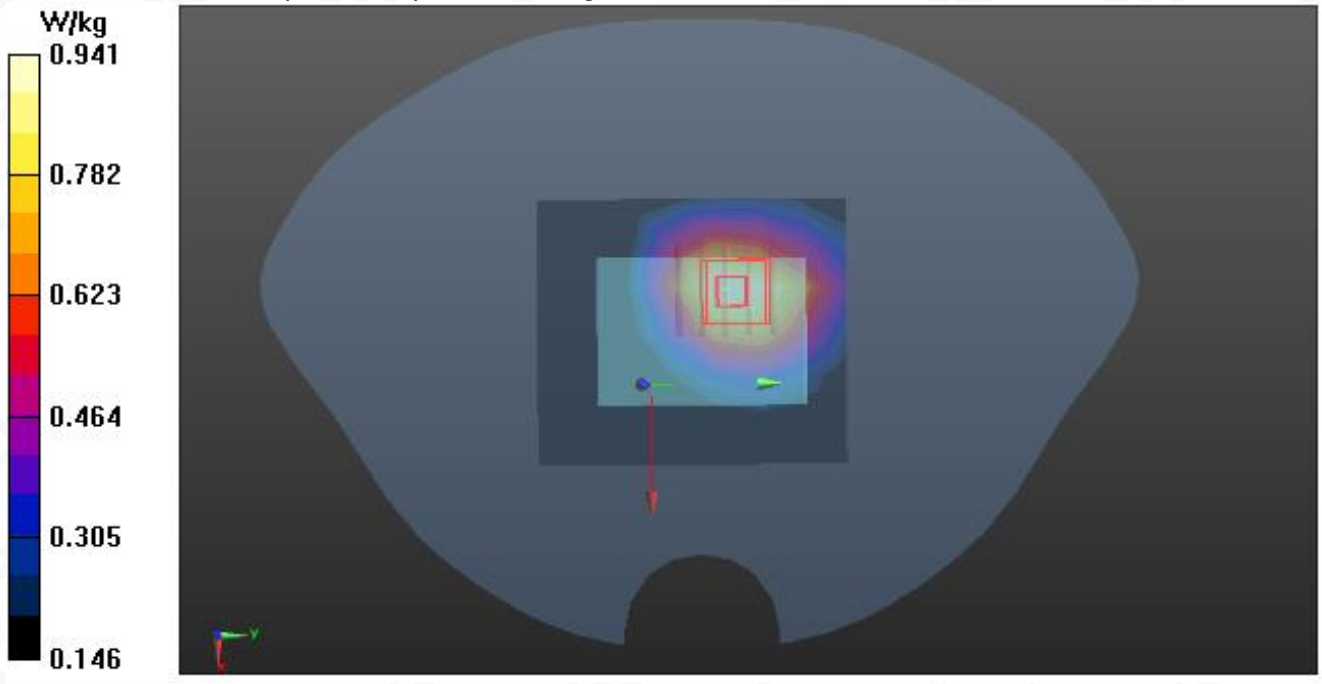


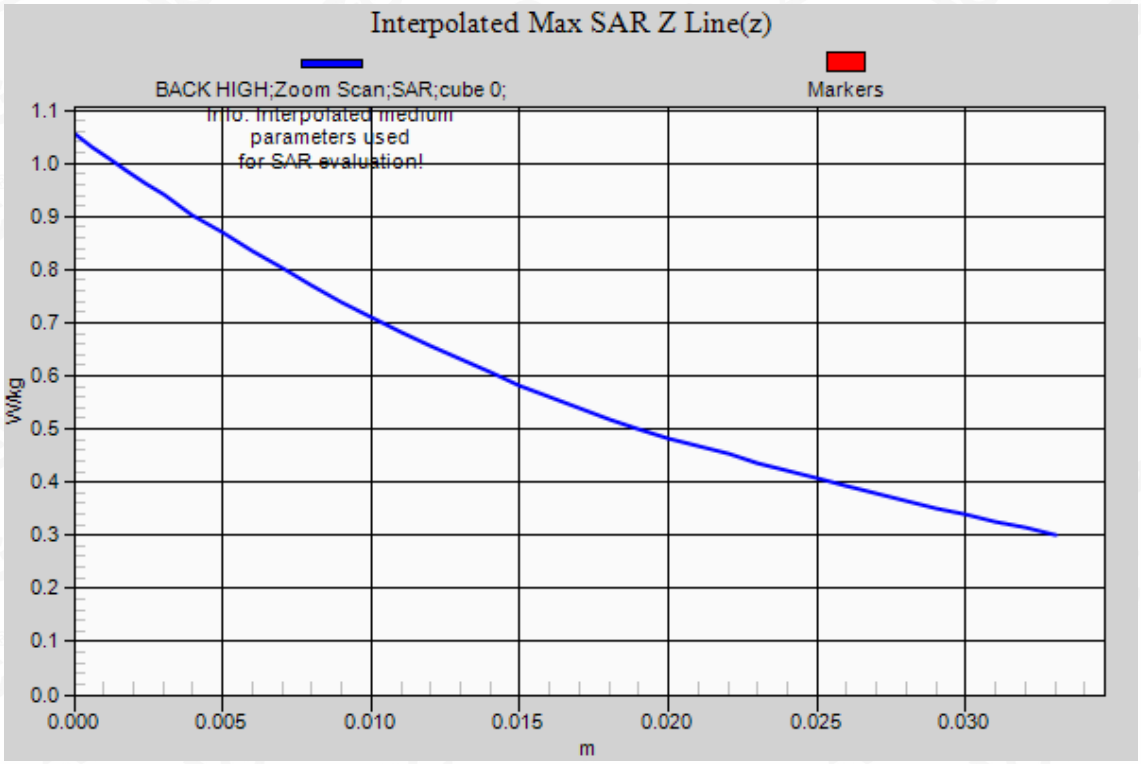
Test Laboratory: AGC Lab **Date: Nov. 24, 2021**
WCDMA Band V High-Body-Towards Grounds
DUT: Brama S-A1; Type: M2

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1;
Frequency: 846.6 MHz; Medium parameters used: f = 835 MHz;σ=0.89 mho/m; εr =42.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK HIGH /Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.967 W/kg
BODY/BACK HIGH /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.540 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.861 W/kg; SAR(10 g) = 0.664 W/kg
Maximum value of SAR (measured) = 0.941 W/kg



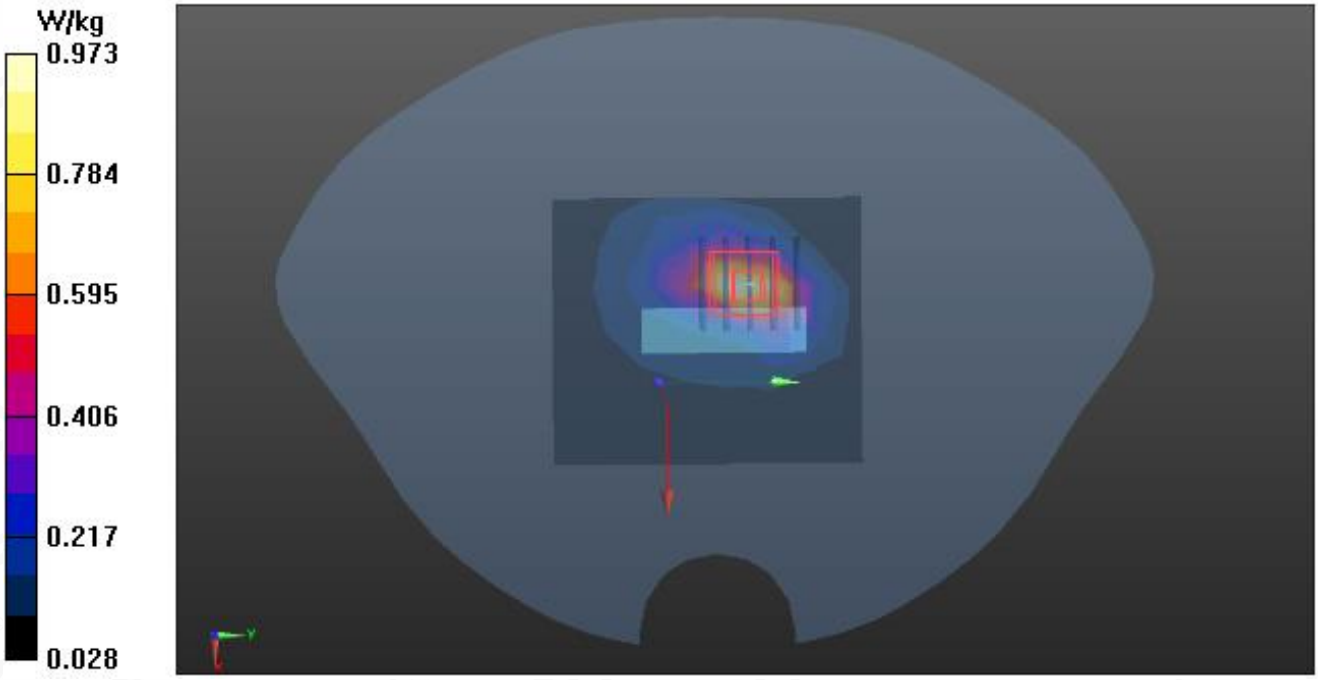


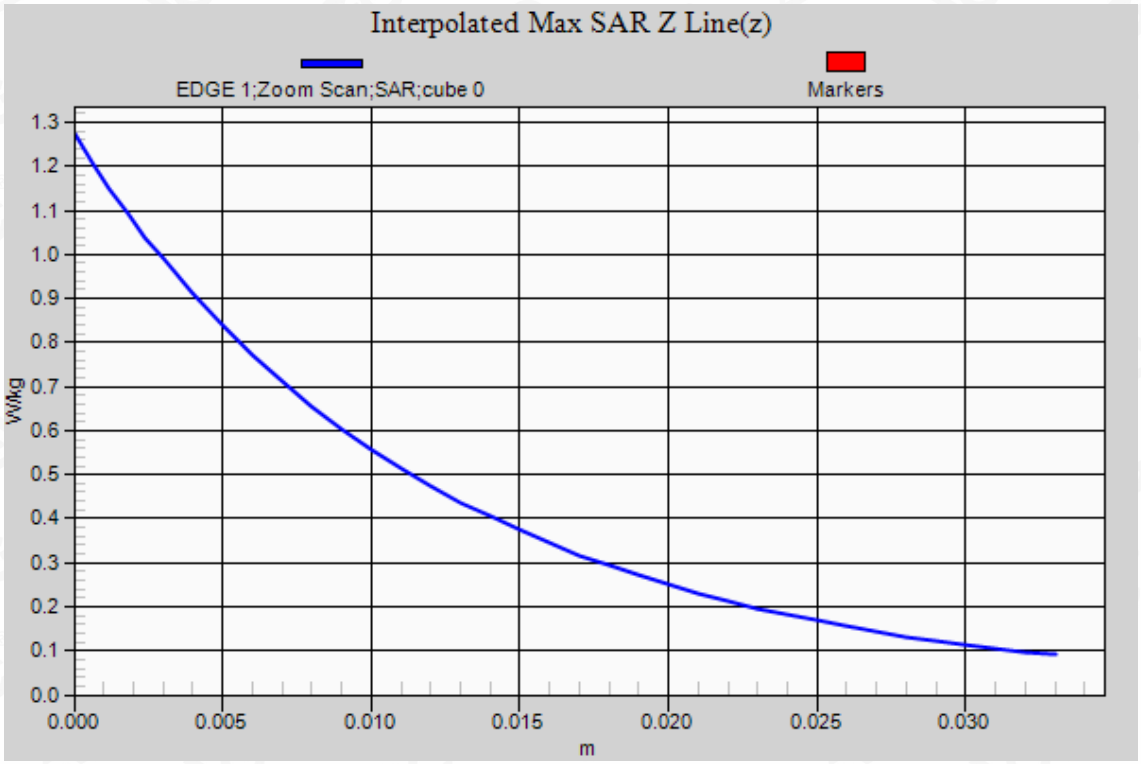
Test Laboratory: AGC Lab **Date: Nov. 02, 2021**
LTE Band 2 Mid- Edge 1 (1 RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.36 mho/m; εr =39.76; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 3/EDGE 1/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.959 W/kg
BODY 3/EDGE 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.599 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.419 W/kg
Maximum value of SAR (measured) = 0.973 W/kg



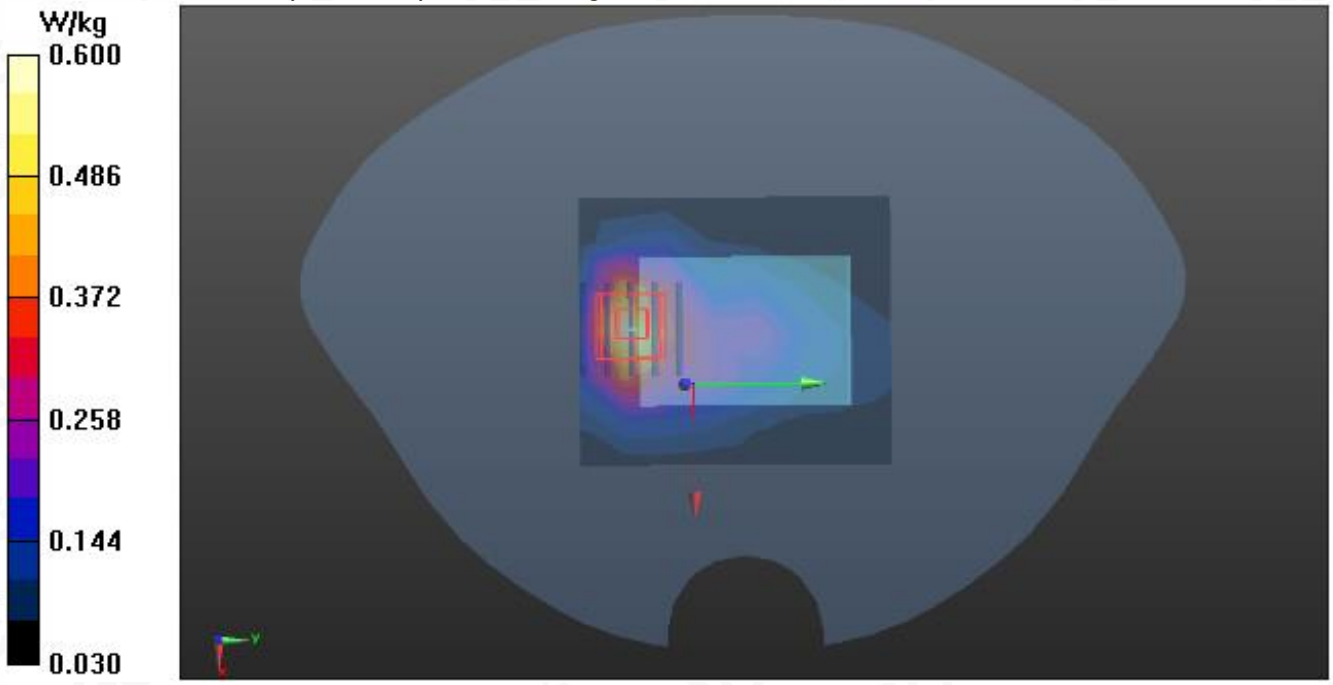


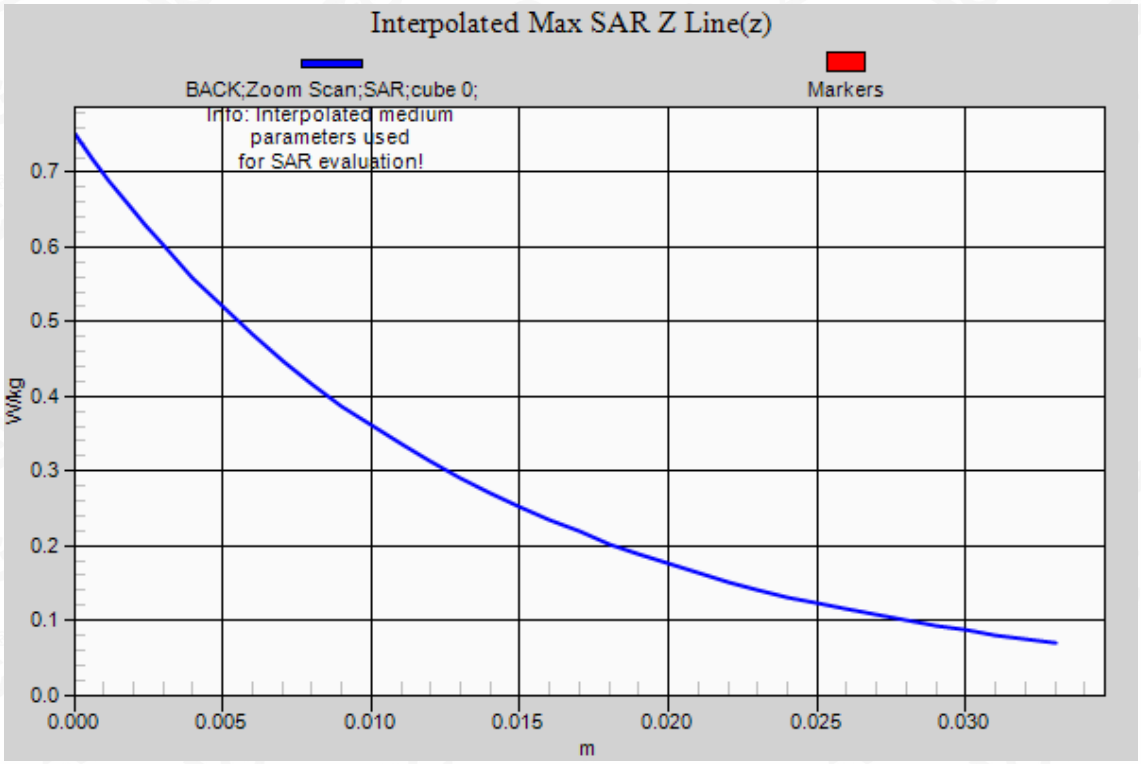
Test Laboratory: AGC Lab **Date: Nov. 03, 2021**
LTE Band 4 Mid-Body-Back (1 RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ = 1.35 mho/m; ε r =40.12; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.0, Liquid temperature (℃): 21.8

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.55, 8.55, 8.55); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.620 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.542 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.751 W/kg
SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.308 W/kg
Maximum value of SAR (measured) = 0.600 W/kg



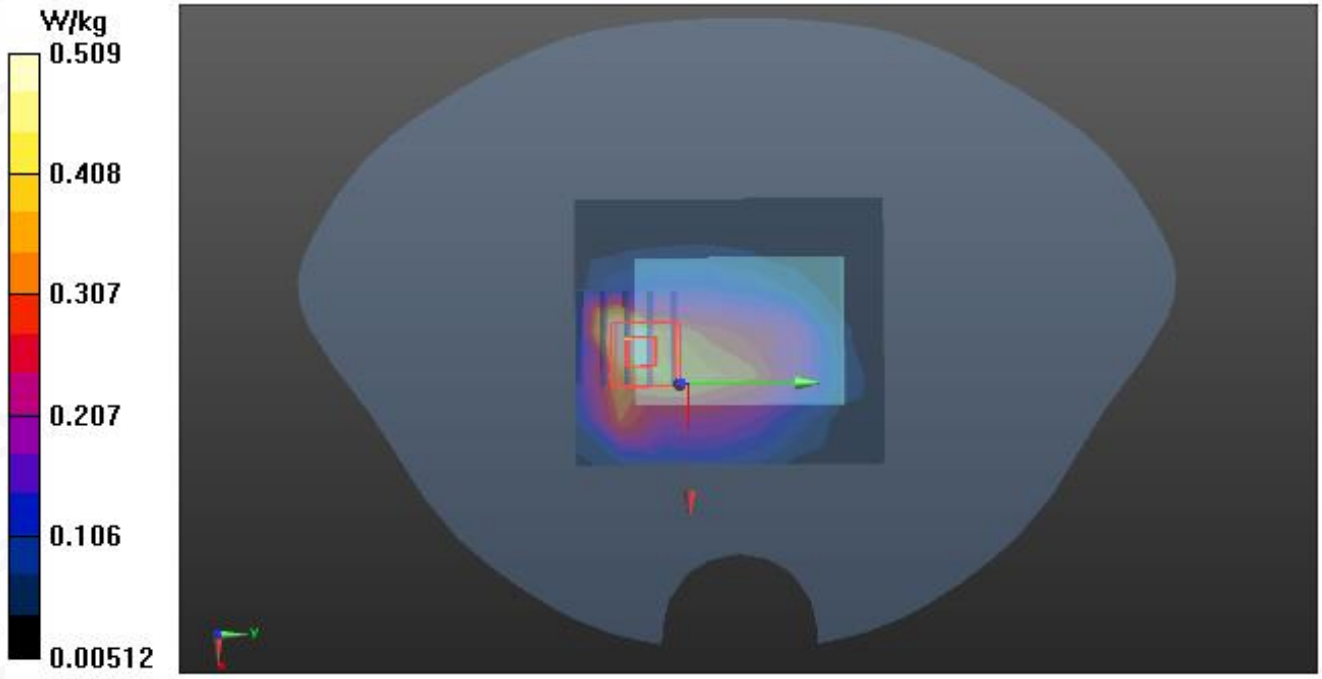


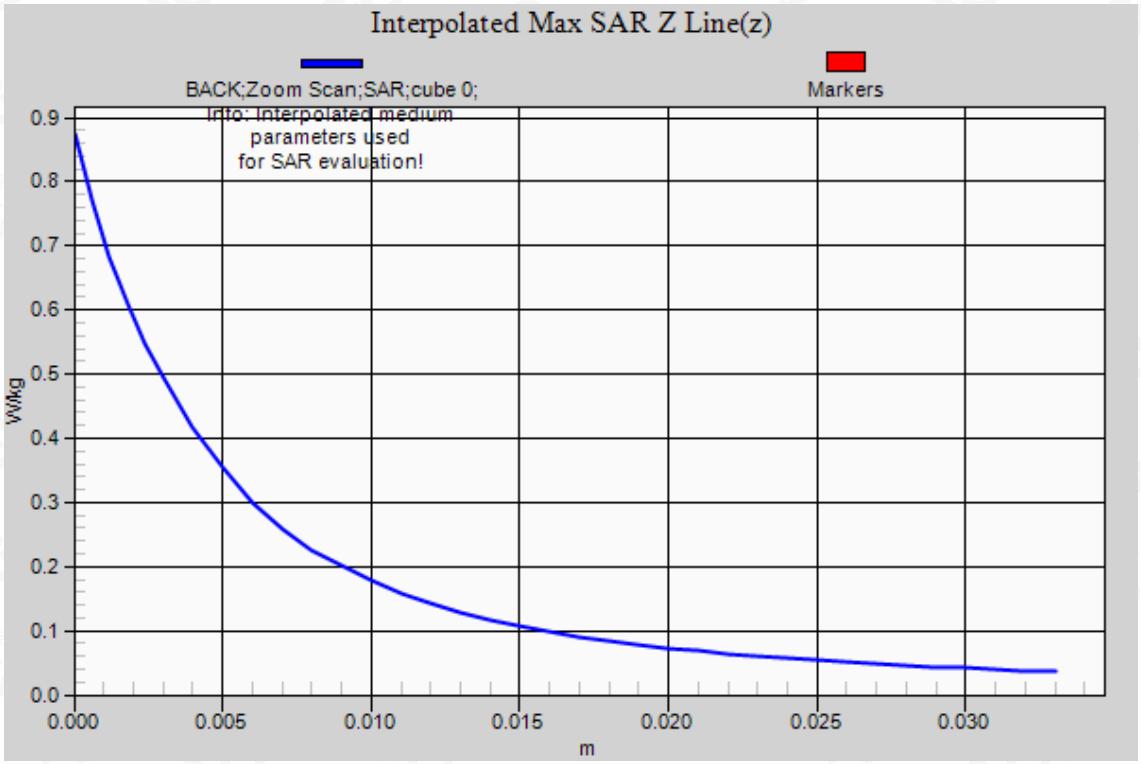
Test Laboratory: AGC Lab **Date: Nov. 30, 2021**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.92mho/m; εr =40.89; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.629 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.101 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.874 W/kg
SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.254 W/kg
Maximum value of SAR (measured) = 0.509 W/kg



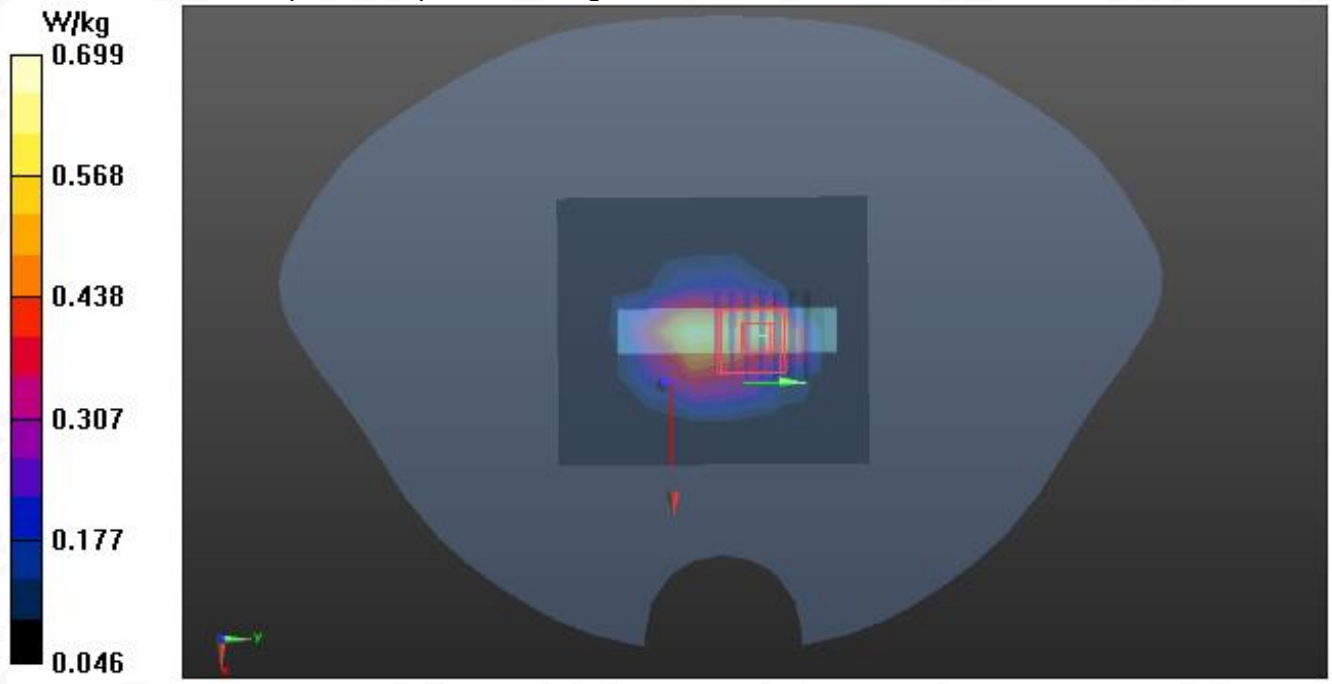


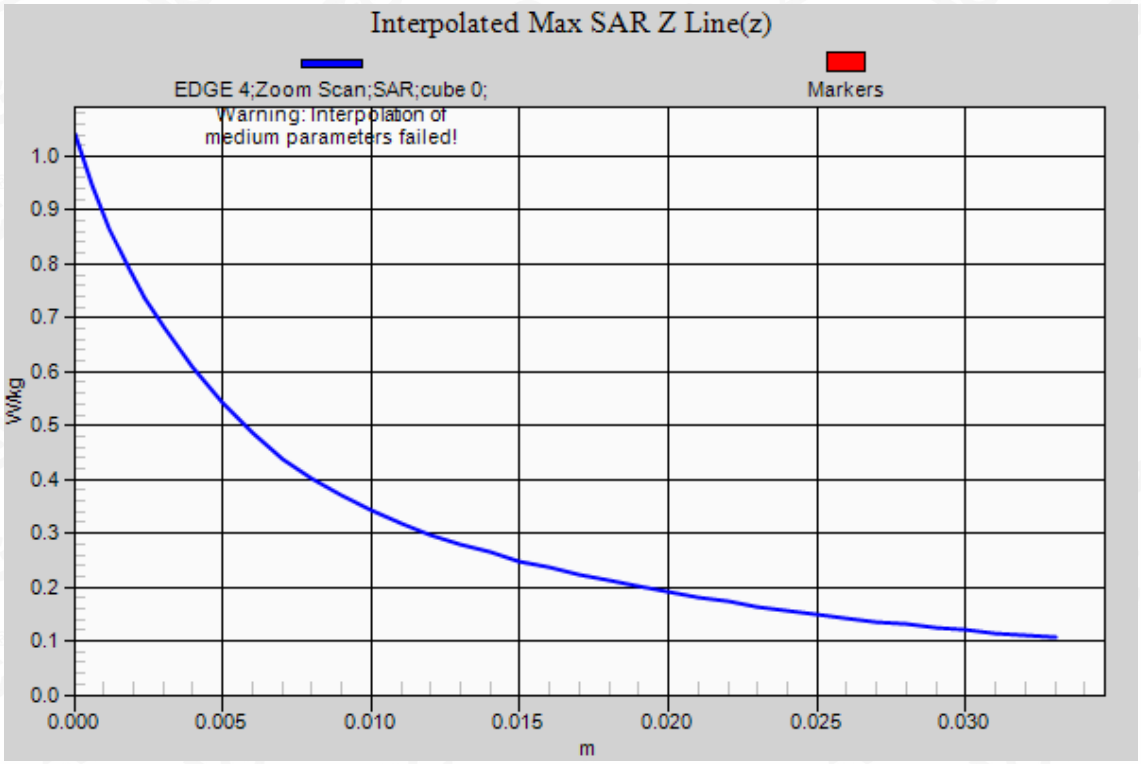
Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 7 Mid- Edge 4 (1RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =38.75; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.42, 7.42, 7.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 2/EDGE 4/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.678 W/kg
BODY 2/EDGE 4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.270 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.354 W/kg
Maximum value of SAR (measured) = 0.699 W/kg



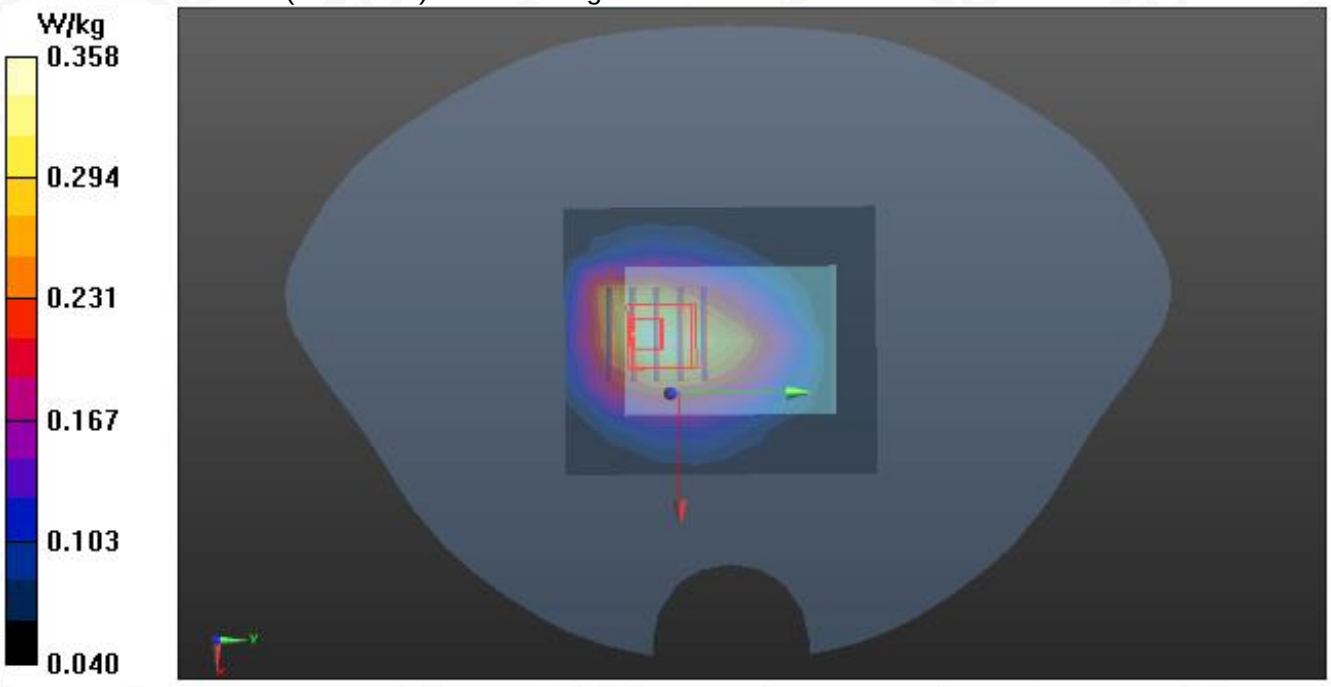


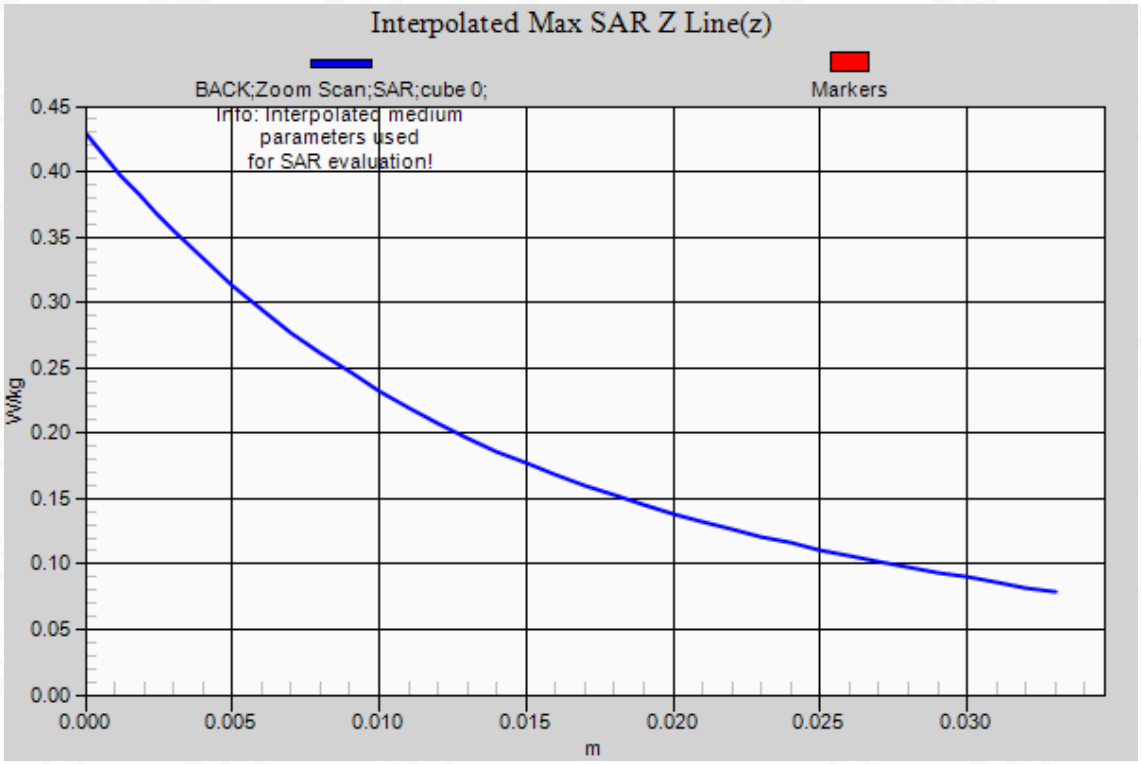
Test Laboratory: AGC Lab **Date: Nov. 08, 2021**
LTE Band 12 Mid-Body-Back (1 RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =42.95; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.361 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.579 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.428 W/kg
SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 0.358 W/kg



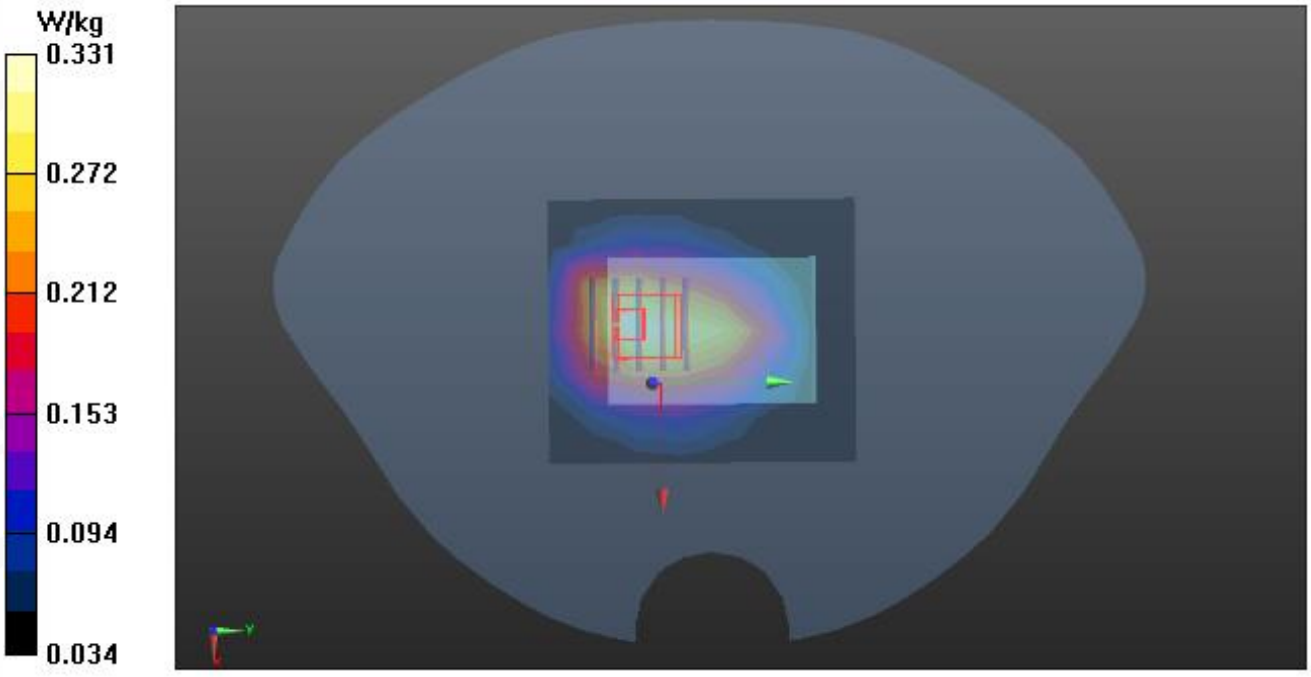


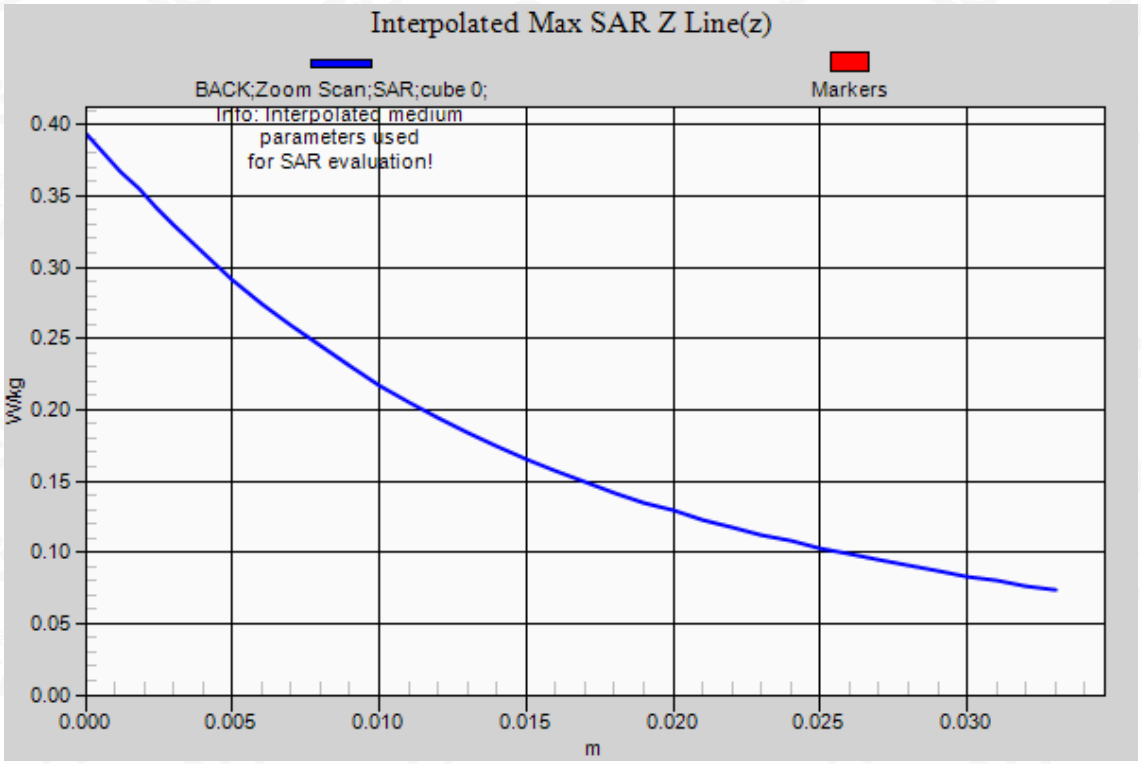
Test Laboratory: AGC Lab **Date: Nov. 08, 2021**
LTE Band 17 Mid-Body-Back (1 RB#0)
DUT: Brama S-A1; Type: M2

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1;
Frequency: 710 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.74; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.37, 10.37, 10.37); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.339 W/kg
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.280 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.393 W/kg
SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.220 W/kg
Maximum value of SAR (measured) = 0.331 W/kg



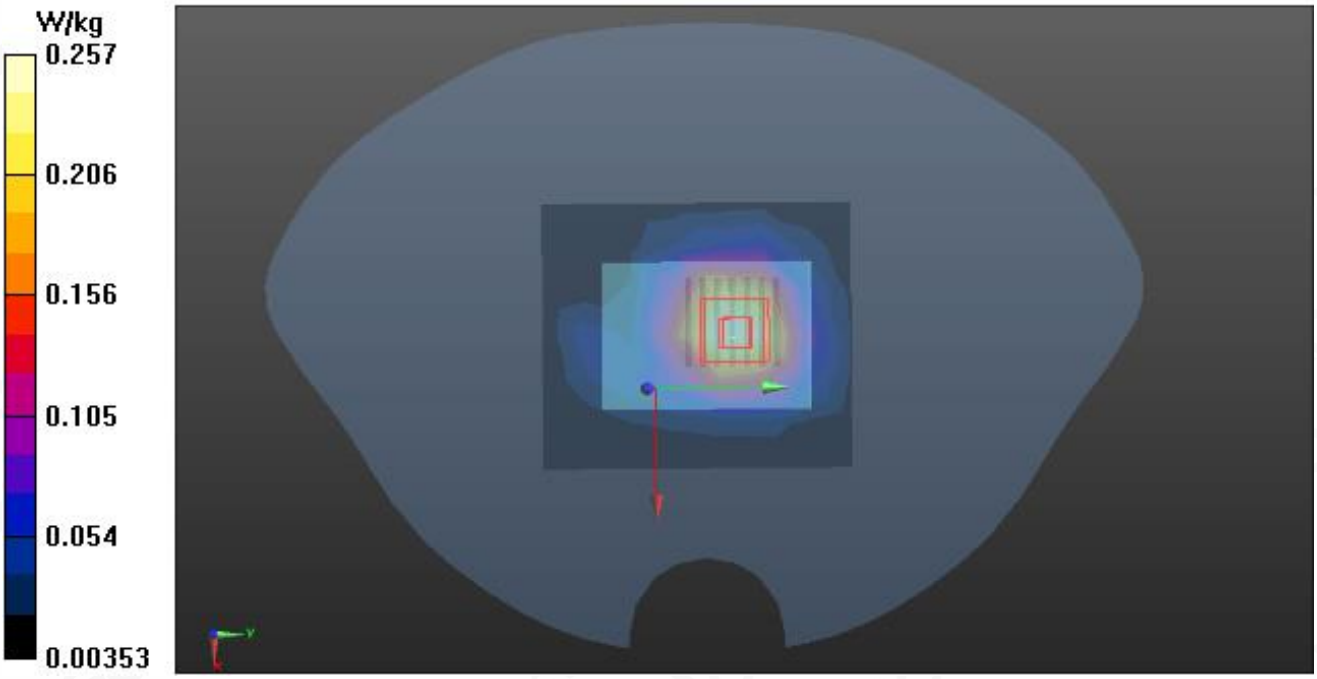


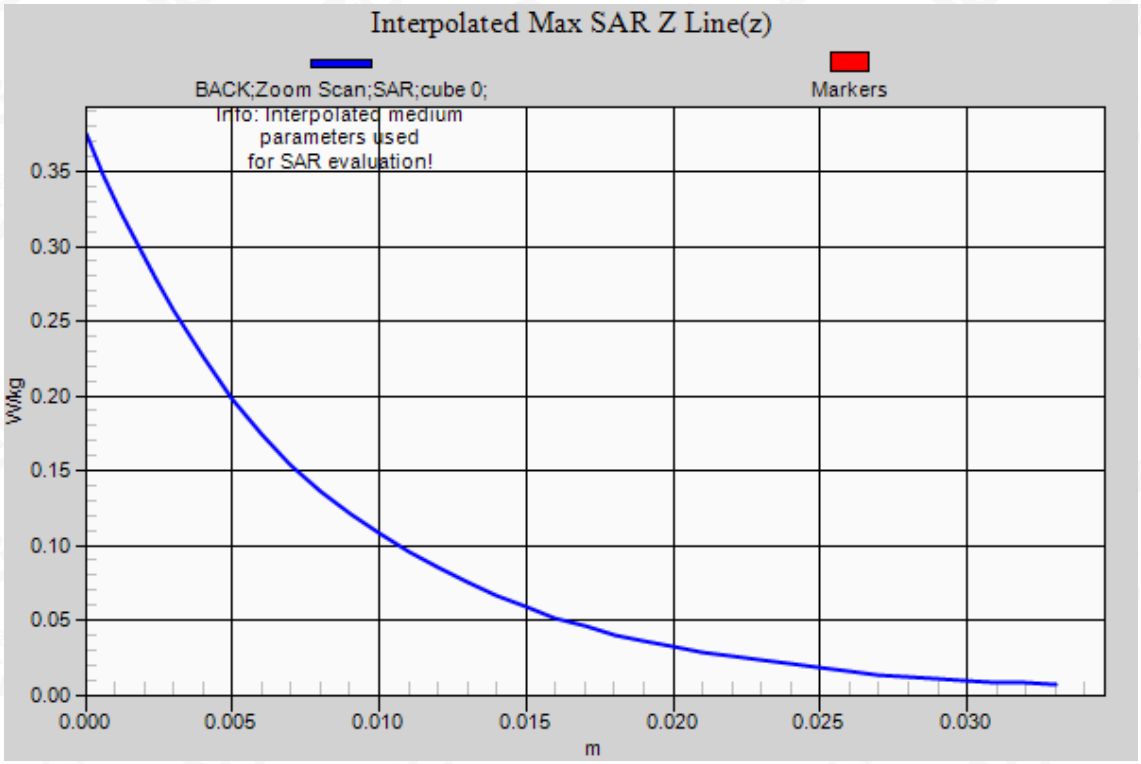
WIFI MODE
Test Laboratory: AGC Lab **Date: Nov. 04, 2021**
802.11b Mid- Body- Back (DTS)
DUT: Brama S-A1; Type: M2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ=1.77 mho/m; εr =38.99;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.268 W/kg
BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.497 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.375 W/kg
SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.110 W/kg
Maximum value of SAR (measured) = 0.257 W/kg



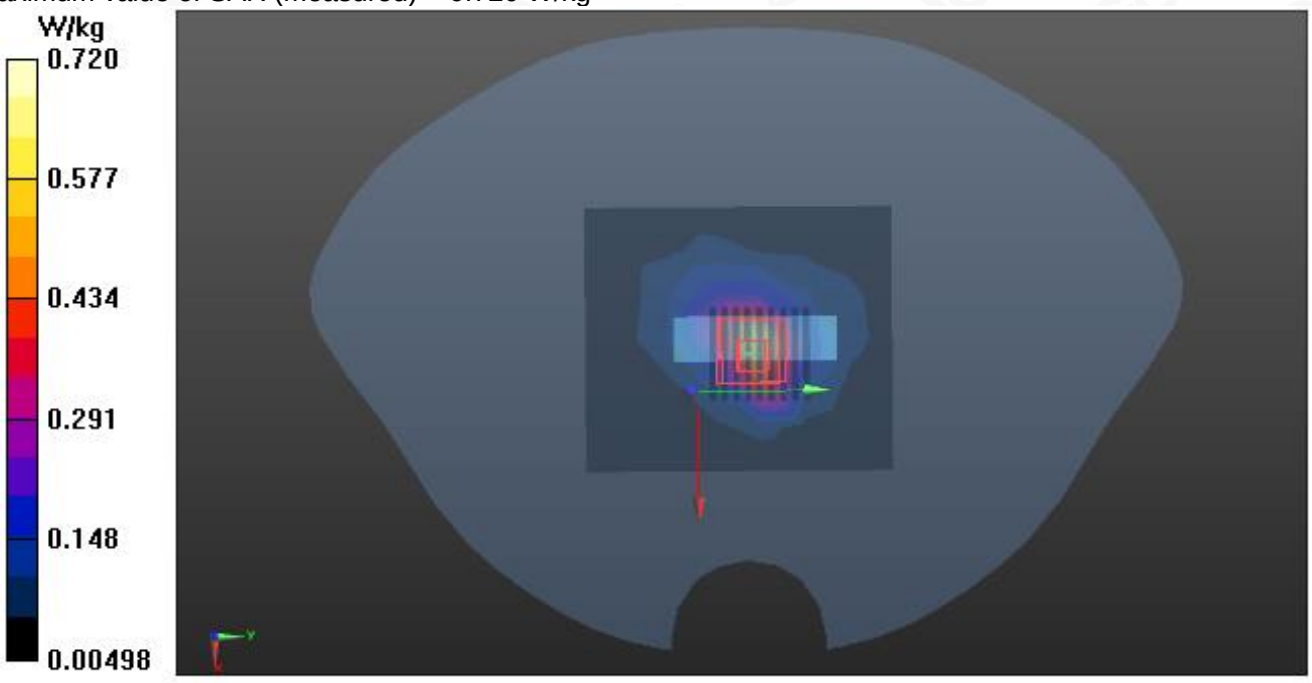


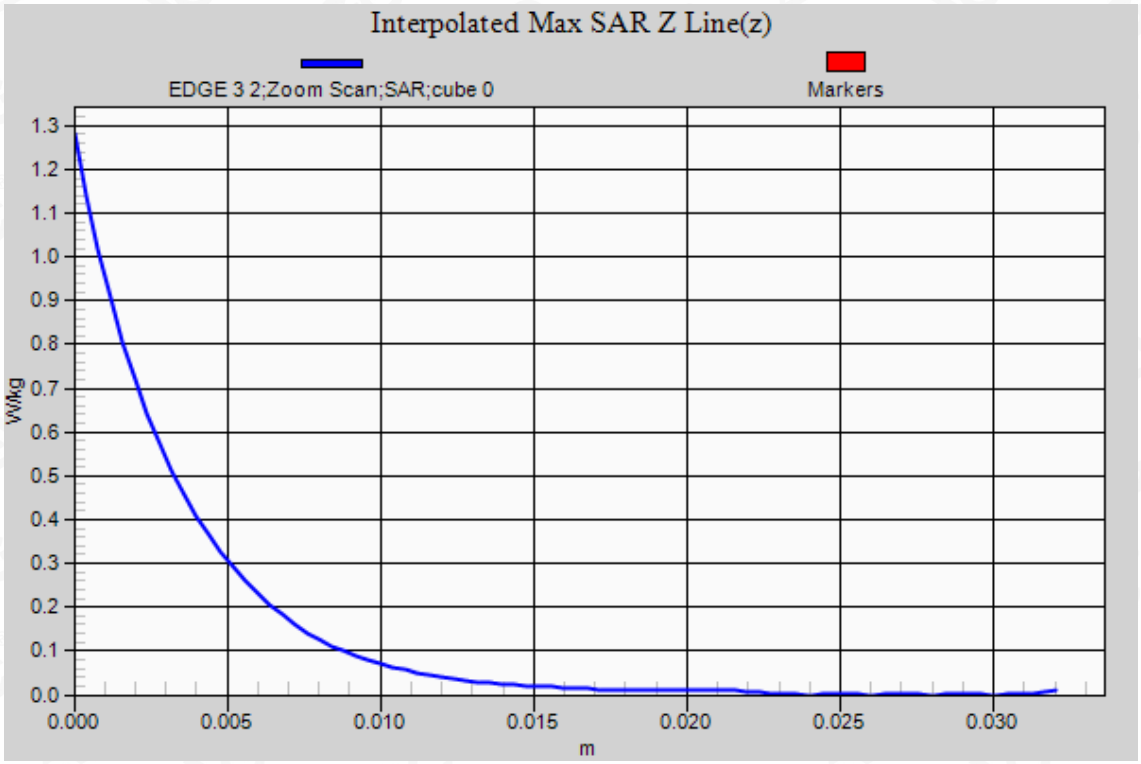
Test Laboratory: AGC Lab **Date: Nov. 28, 2021**
5.2GHz -802.11a CH40- Body- Edge 3 (Top)
DUT: Brama S-A1; Type: M2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1
Frequency: 5200 MHz; Medium parameters used: f = 5250MHz; σ =4.80 mho/m; εr =36.63; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 3/EDGE 3 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.616 W/kg
BODY 3/EDGE 3 2/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 10.514 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.145 W/kg
Maximum value of SAR (measured) = 0.720 W/kg



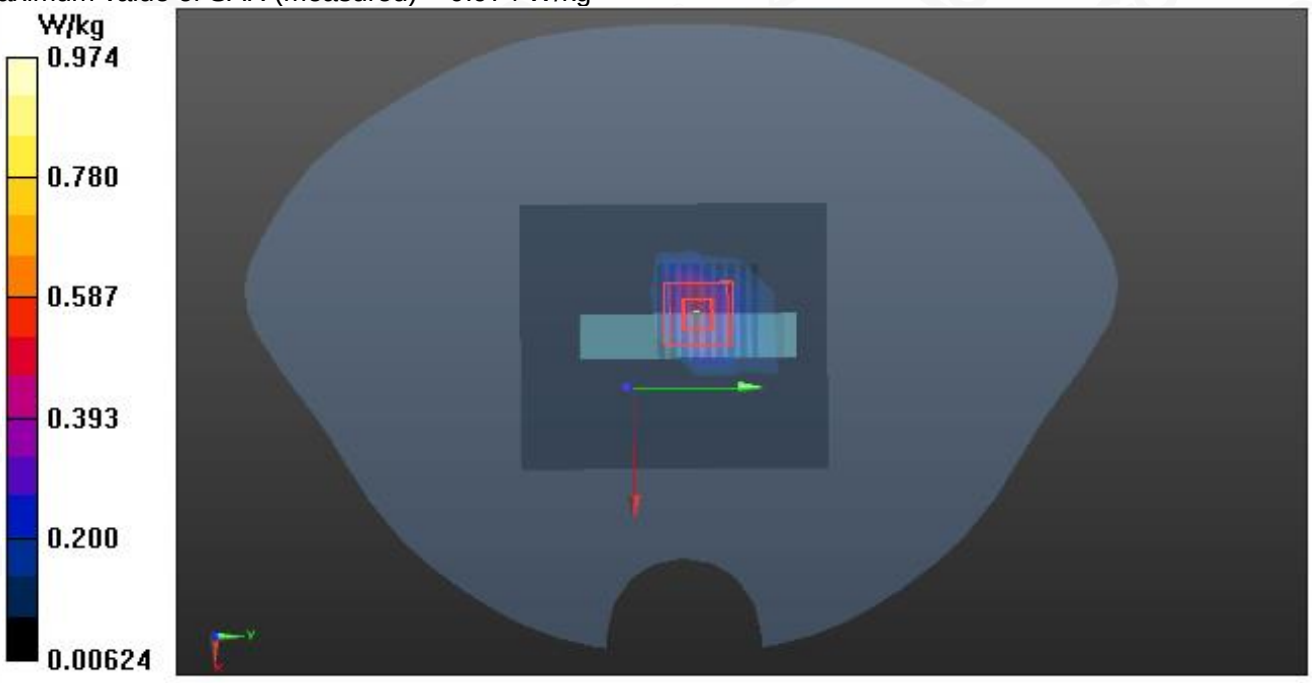


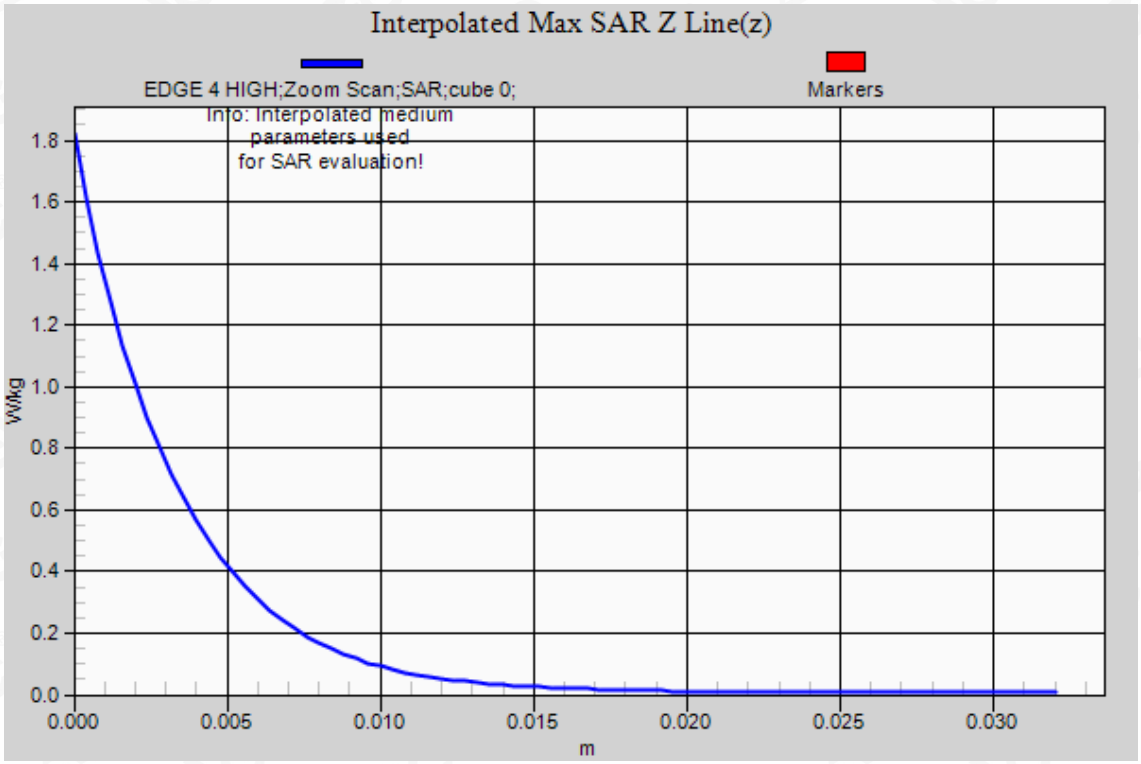
Test Laboratory: AGC Lab **Date: Nov. 29, 2021**
5.8GHz -802.11a- CH157- Edge 4
DUT: Brama S-A1; Type: M2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1
Frequency: 5785 MHz; Medium parameters used: f = 5750 MHz; σ=5.23 mho/m; εr =36.14; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 2/EDGE 4 HIGH/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.520 W/kg
BODY 2/EDGE 4 HIGH/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.115 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 0.974 W/kg



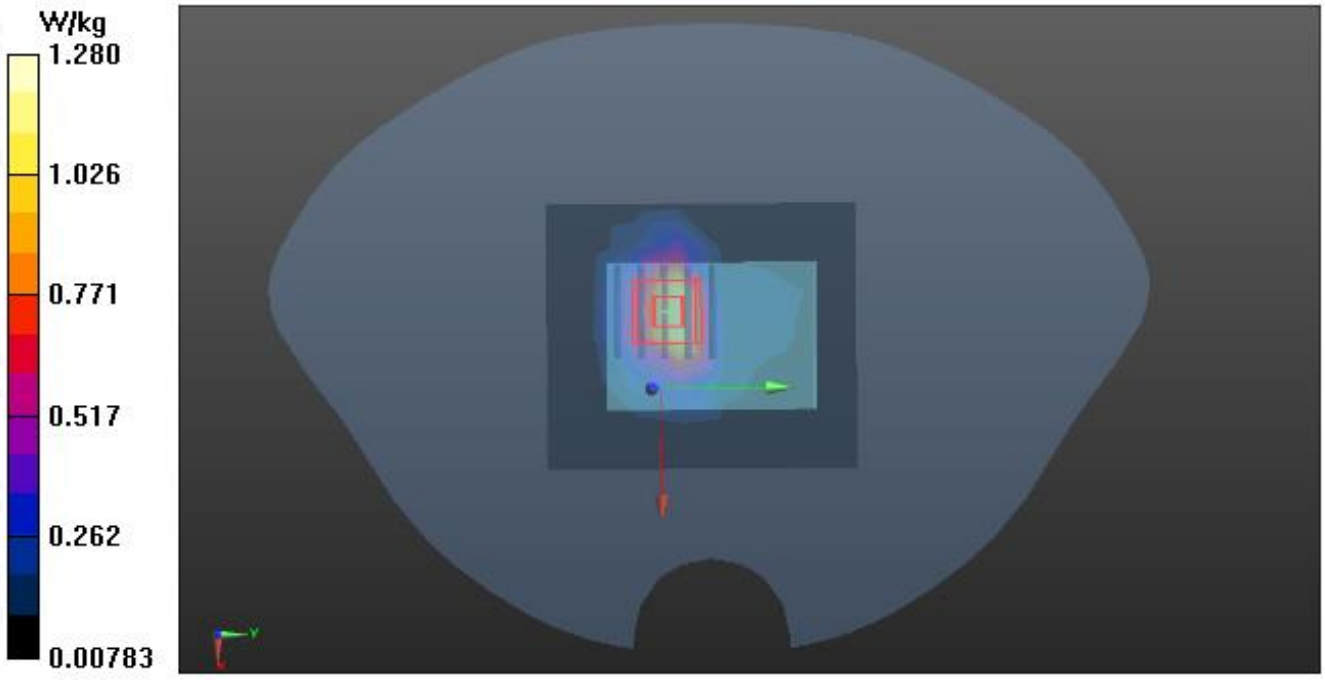


Repeated SAR
Test Laboratory: AGC Lab **Date: Nov. 25, 2021**
GPRS 1900 Mid-Body -Back (2up) < SIM 1>
DUT: Brama S-A1; Type: M2

Communication System: GPRS-2 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.36 mho/m; εr =39.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.4, Liquid temperature (℃): 21.2

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/4ST-BACK-L-REPEATED/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.15 W/kg
BODY/4ST-BACK-L-REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.056 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.55 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.545 W/kg
Maximum value of SAR (measured) = 1.28 W/kg

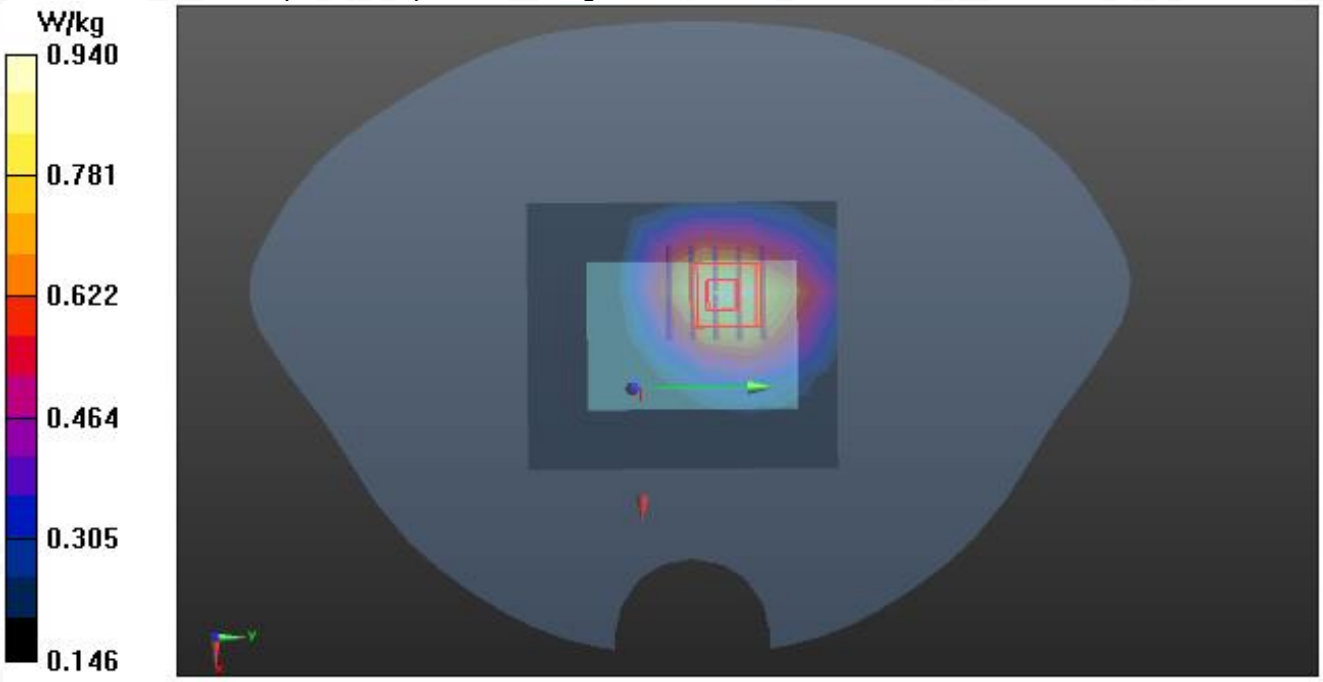


Test Laboratory: AGC Lab **Date: Nov. 24, 2021**
WCDMA Band V High-Body-Towards Grounds
DUT: Brama S-A1; Type: M2

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1;
Frequency: 846.6 MHz; Medium parameters used: f = 835 MHz;σ=0.89 mho/m; εr =42.57; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

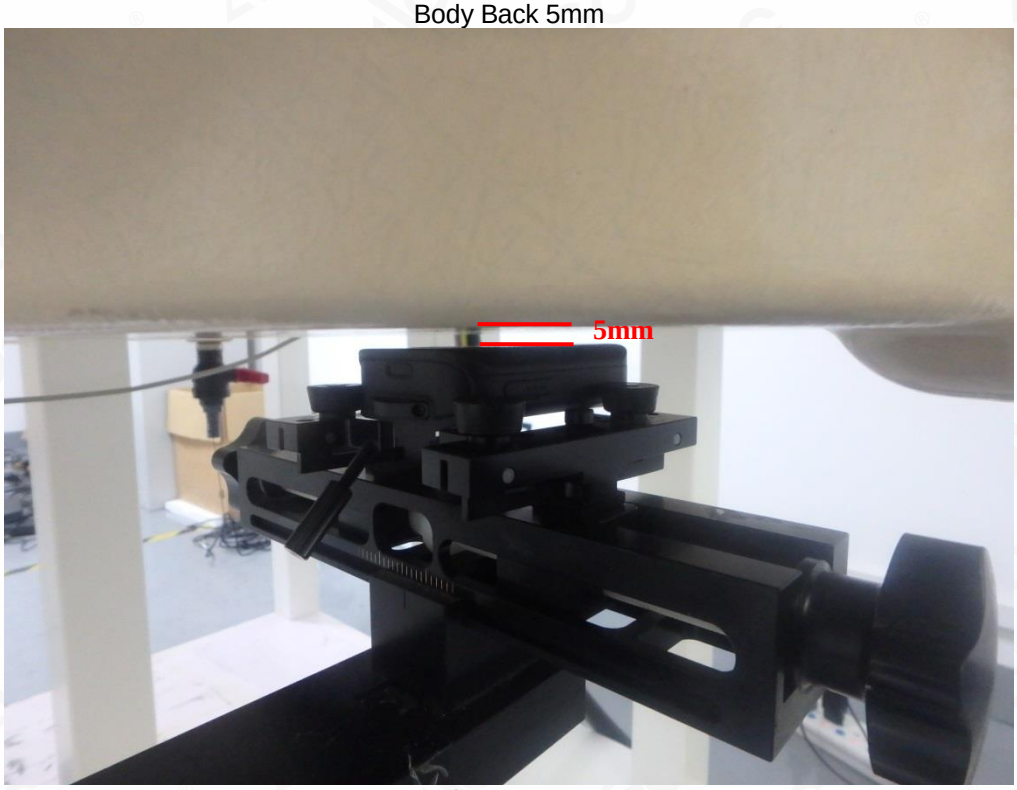
DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: May 17,2021
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK HIGH/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.945 W/kg
BODY/BACK HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.381 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.658 W/kg
Maximum value of SAR (measured) = 0.940 W/kg

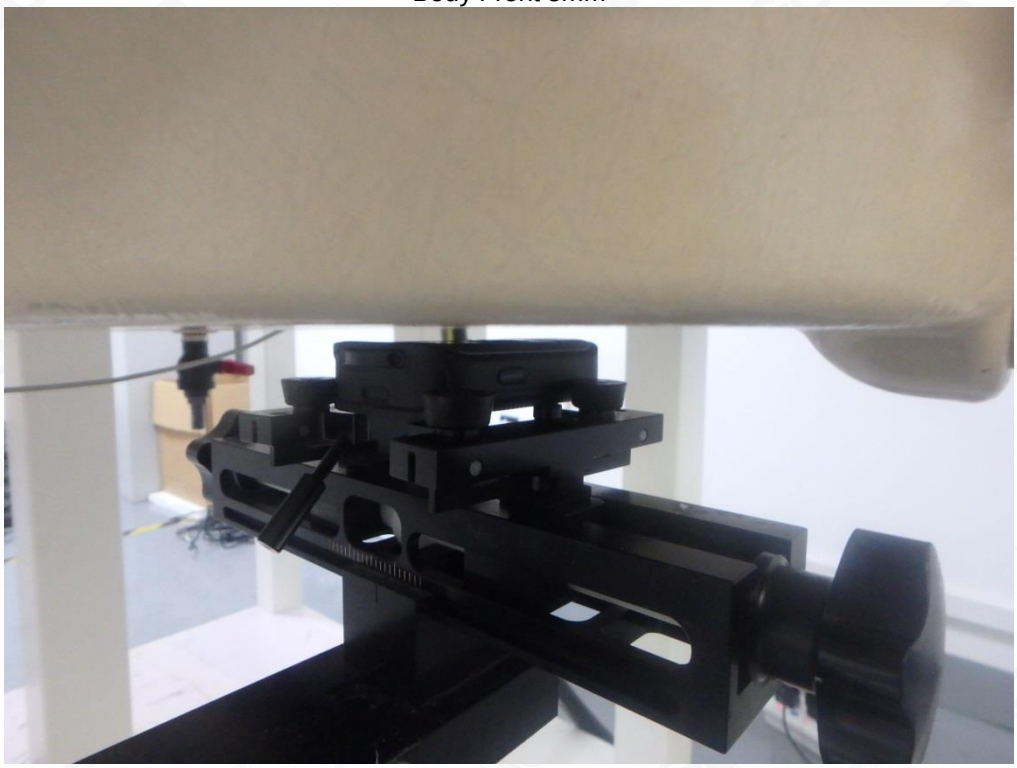


APPENDIX C. TEST SETUP PHOTOGRAPHS

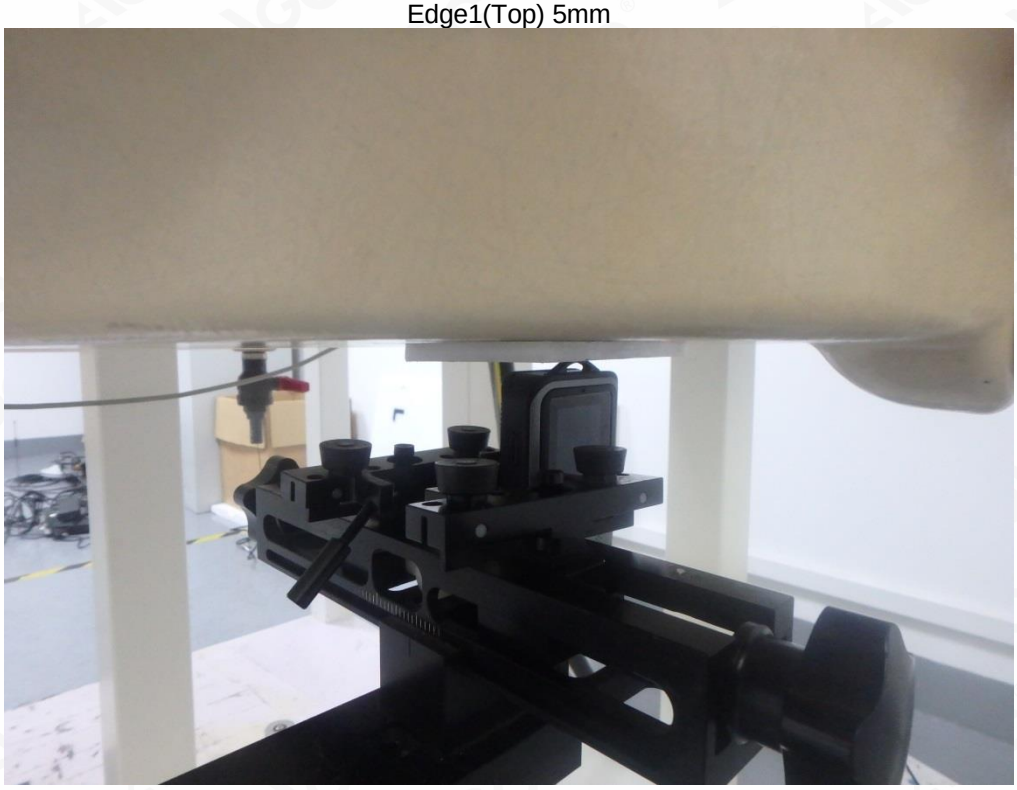
Body Back 5mm



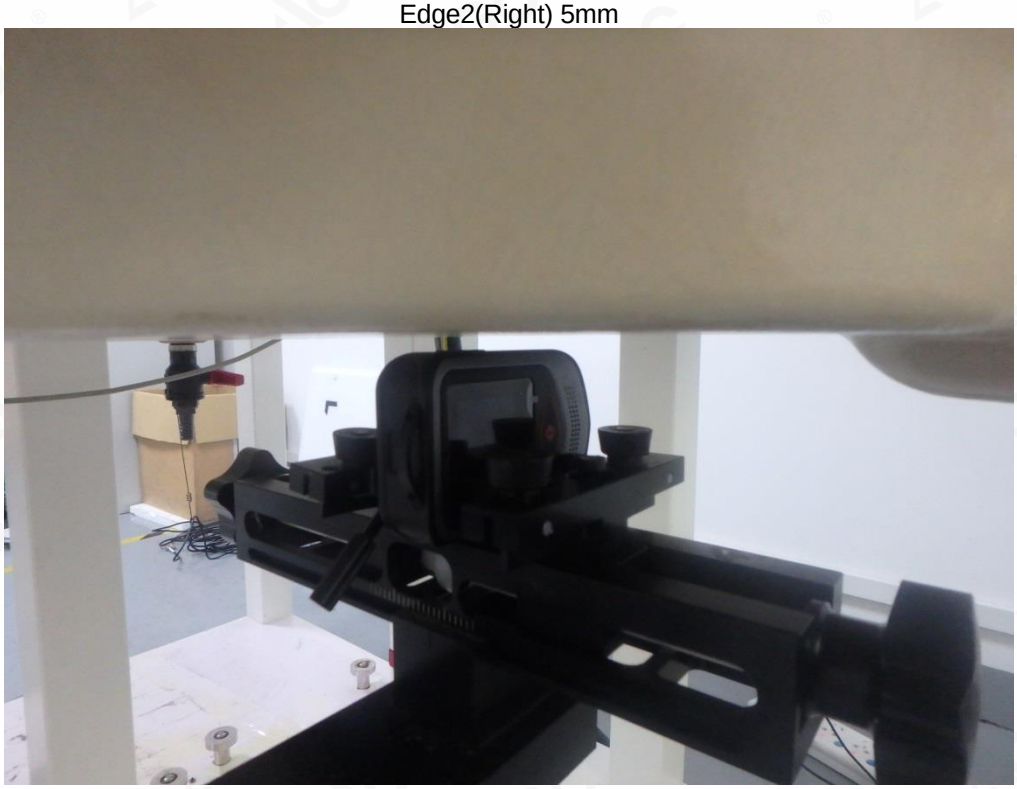
Body Front 5mm



Edge1(Top) 5mm



Edge2(Right) 5mm



Edge3(Bottom) 5mm

Edge4(Left) 5mm