

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	23.00	23.21	23.62
			37	0	23.13	23.34	23.64
			74	0	22.90	23.43	23.45
		37	0	1	22.21	22.80	22.58
			16	1	22.16	22.75	22.58
			35	1	22.41	22.73	22.69
		75	0	1	22.46	22.70	22.53
	16QAM	1	0	1	22.07	22.33	22.19
			37	1	22.16	22.48	22.42
			74	1	22.10	22.69	22.33
		37	0	2	22.33	22.74	22.59
			16	2	22.36	22.63	22.47
			35	2	22.37	22.76	22.51
		75	0	2	21.31	21.73	21.56
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	22.92	23.96	23.26
			49	0	23.18	23.39	23.44
			99	0	23.04	23.31	23.28
		50	0	1	22.10	22.25	22.43
			25	1	21.97	22.29	22.43
			49	1	21.97	22.57	22.55
		100	0	1	22.01	22.47	22.48
	16QAM	1	0	1	21.89	22.24	22.24
			49	1	22.12	22.58	22.57
			99	1	22.01	22.35	22.44
		50	0	2	21.98	22.39	22.48
			25	2	21.93	22.28	22.43
			49	2	22.06	22.68	22.57
		100	0	2	21.13	21.66	21.59

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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	23.97	23.88	23.79
			3	0	24.04	23.98	23.91
			5	0	23.94	23.91	23.81
		3	0	0	24.06	24.01	23.89
			2	0	24.07	24.00	23.88
			3	0	24.04	24.02	23.90
		6	0	1	23.00	22.95	22.79
	16QAM	1	0	1	23.10	23.03	22.72
			3	1	23.26	23.21	22.86
			5	1	23.05	23.07	22.71
		3	0	1	23.03	23.99	23.84
			2	1	23.04	23.98	23.84
			3	1	23.01	23.01	23.87
		6	0	2	22.06	21.86	21.83
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	23.91	23.83	23.78
			7	0	23.83	23.83	23.89
			14	0	23.86	23.70	23.85
		8	0	1	22.91	22.77	22.86
			4	1	22.87	22.79	22.86
			7	1	22.89	22.67	22.79
		15	0	1	22.93	22.89	22.85
	16QAM	1	0	1	23.18	23.02	22.79
			7	1	23.10	23.02	22.84
			14	1	23.08	22.95	22.75
		8	0	2	22.89	22.90	22.56
			4	2	22.87	22.88	22.52
			7	2	22.82	22.91	22.84
		15	0	2	21.97	21.62	21.81

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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	23.98	23.92	23.93
			13	0	24.05	24.05	24.00
			24	0	23.94	23.90	23.84
		12	0	1	22.95	23.11	22.95
			6	1	22.92	23.07	22.95
			13	1	23.10	22.95	22.95
		25	0	1	23.06	23.02	22.96
	16QAM	1	0	1	23.00	23.18	22.96
			13	1	23.06	23.30	22.99
			24	1	23.04	23.15	22.87
		12	0	2	22.95	23.06	22.95
			6	2	22.96	23.05	22.94
			13	2	23.13	22.91	22.95
		25	0	2	22.13	22.06	22.11
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	23.42	23.08	22.91
			25	0	23.85	24.06	23.43
			49	0	22.63	23.63	23.85
		25	0	1	22.69	22.49	22.52
			13	1	22.67	23.08	22.93
			25	1	22.94	21.55	22.05
		50	0	1	22.61	22.69	22.81
	16QAM	1	0	1	22.86	21.92	21.83
			25	1	22.07	23.91	22.40
			49	1	22.40	24.13	22.17
		25	0	2	22.39	24.54	21.75
			13	2	22.60	24.37	21.84
			25	2	22.11	23.96	21.87
		50	0	2	21.17	22.36	21.67

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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	23.99	23.96	23.91
			13	0	24.08	24.01	23.97
			24	0	23.92	23.90	23.84
		12	0	1	23.05	23.05	22.94
			6	1	22.95	23.01	22.95
			13	1	22.88	22.90	22.93
		25	0	1	22.94	22.96	22.94
	16QAM	1	0	1	23.24	23.00	22.94
			13	1	23.29	23.02	22.95
			24	1	23.15	22.88	22.85
		12	0	2	23.00	23.05	22.90
			6	2	22.99	22.98	22.90
			13	2	22.89	22.88	22.92
		25	0	2	21.96	22.03	21.99
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	23.04	23.25	23.12
			25	0	23.58	22.70	23.21
			49	0	23.63	23.53	22.83
		25	0	1	22.62	22.19	22.84
			13	1	21.91	21.97	21.86
			25	1	22.38	22.52	21.53
		50	0	1	22.96	22.47	21.59
	16QAM	1	0	1	22.66	21.70	22.93
			25	1	23.08	23.58	21.73
			49	1	22.61	23.85	21.56
		25	0	2	22.35	23.68	21.61
			13	2	23.00	23.32	22.21
			25	2	22.91	23.58	21.90
		50	0	2	21.02	22.90	21.52

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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

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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	28	5, 10	Table 5.4.2-1	N/A
	6.6.3.3.11	28	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	-	-	-	-	-

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	9.01
		06	2437	9.07
		11	2462	9.16
802.11g	6	01	2412	6.32
		06	2437	7.11
		11	2462	6.60
802.11n(20)	6.5	01	2412	6.32
		06	2437	6.80
		11	2462	6.35
802.11n(40)	13.5	03	2422	6.26
		06	2437	7.19
		09	2452	6.68

Bluetooth_V4.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	-1.371
	39	2441	-0.486
	78	2480	-2.709
$\pi/4$ -DQPSK	0	2402	-2.392
	39	2441	-1.562
	78	2480	-3.342
8-DPSK	0	2402	-2.559
	39	2441	-1.518
	78	2480	-3.321

Bluetooth_V4.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	-5.945
	19	2440	-3.840
	39	2480	-7.434

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 10mm 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 ≥ 0.8 W/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 ≥ 0.8 W/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 ≤ 1.2 W/Kg, SAR testing with a headset connected is not required.
5. 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.
6. 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.) $\times$ [maximum turn-up power (mw)/ maximum measurement output power(mw)]
7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. Per KDB 941225 D05v02r03, 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.
9. Per KDB 941125 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. Per KDB 941125 D05v02r03. 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.

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11. Per KDB 941125 D05v02r03. 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 $\leq 1.45\text{W/Kg}$, Per KDB 941225 D05v02r02, 16QAM SAR testing is not required.
12. Per KDB 941125 D05v02r03. 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 $\leq 1.45\text{W/Kg}$. Per KDB 941125 D05v02r03, smaller bandwidth SAR testing is not required.

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13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.5					
Product: Smart Phone									
Test Mode: GSM850 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card									
Left Cheek	voice	190	836.6	-0.39	0.155	32.90	32.84	0.157	1.6
Left Tilt	voice	190	836.6	-0.32	0.083	32.90	32.84	0.084	1.6
Right Cheek	voice	190	836.6	-0.65	0.117	32.90	32.84	0.119	1.6
Right Tilt	voice	190	836.6	0.28	0.099	32.90	32.84	0.100	1.6
Body back	voice	190	836.6	-0.53	0.106	32.90	32.84	0.107	1.6
Body front	voice	190	836.6	0.27	0.085	32.90	32.84	0.086	1.6
Body back	GPRS-2 slot	190	836.6	-0.38	0.157	30.50	30.23	0.167	1.6
Body front	GPRS-2 slot	190	836.6	0.65	0.121	30.50	30.23	0.129	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.26	0.050	30.50	30.23	0.053	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	0.25	0.124	30.50	30.23	0.132	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	-0.32	0.111	30.50	30.23	0.118	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 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: Smart Phone									
Test Mode: PCS1900 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card									
Left Cheek	voice	661	1880.0	0.13	0.052	30.60	30.52	0.053	1.6
Left Tilt	voice	661	1880.0	-0.05	0.048	30.60	30.52	0.049	1.6
Right Cheek	voice	661	1880.0	-0.26	0.080	30.60	30.52	0.081	1.6
Right Tilt	voice	661	1880.0	-0.34	0.039	30.60	30.52	0.040	1.6
Body back	voice	661	1880.0	0.42	0.189	30.60	30.52	0.193	1.6
Body front	voice	661	1880.0	-0.28	0.149	30.60	30.52	0.152	1.6
Body back	GPRS-2 slot	661	1880.0	-0.08	0.250	28.70	28.63	0.254	1.6
Body front	GPRS-2 slot	661	1880.0	-0.65	0.217	28.70	28.63	0.221	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	-0.32	0.121	28.70	28.63	0.123	1.6
Edge 3(Bottom)	GPRS-2 slot	661	1880.0	-0.05	0.335	28.70	28.63	0.340	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	0.27	0.019	28.70	28.63	0.019	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 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: Smart Phone									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9400	1880	-0.26	0.089	24.10	23.97	0.092	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.08	0.051	24.10	23.97	0.053	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.35	0.093	24.10	23.97	0.096	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.22	0.103	24.10	23.97	0.106	1.6
Body back	RMC 12.2kbps	9400	1880	0.69	0.374	24.10	23.97	0.385	1.6
Body front	RMC 12.2kbps	9400	1880	-0.54	0.248	24.10	23.97	0.256	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.26	0.142	24.10	23.97	0.146	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.51	0.446	24.10	23.97	0.460	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.65	0.023	24.10	23.97	0.024	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 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 46.7				
Product: Smart Phone									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	8662	1732.5	-0.11	0.078	23.30	23.10	0.082	1.6
Left Tilt	RMC 12.2kbps	8662	1732.5	0.29	0.043	23.30	23.10	0.045	1.6
Right Cheek	RMC 12.2kbps	8662	1732.5	-0.35	0.094	23.30	23.10	0.098	1.6
Right Tilt	RMC 12.2kbps	8662	1732.5	-0.68	0.045	23.30	23.10	0.047	1.6
Body back	RMC 12.2kbps	8662	1732.5	-0.08	0.273	23.30	23.10	0.286	1.6
Body front	RMC 12.2kbps	8662	1732.5	-0.55	0.103	23.30	23.10	0.108	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.5	0.38	0.168	23.30	23.10	0.176	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.5	-0.26	0.379	23.30	23.10	0.397	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.5	0.33	0.070	23.30	23.10	0.073	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 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.5					
Product: Smart Phone									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4183	836.6	-0.39	0.137	23.80	23.66	0.141	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	-0.26	0.087	23.80	23.66	0.090	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	-0.35	0.105	23.80	23.66	0.108	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.27	0.078	23.80	23.66	0.081	1.6
Body back	RMC 12.2kbps	4183	836.6	-0.46	0.207	23.80	23.66	0.214	1.6
Body front	RMC 12.2kbps	4183	836.6	-0.61	0.190	23.80	23.66	0.196	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	-0.35	0.083	23.80	23.66	0.086	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	0.28	0.156	23.80	23.66	0.161	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	0.75	0.184	23.80	23.66	0.190	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 48.1						
Product: Smart Phone												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	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 START								
20	QPSK	Left Cheek	1	0	18900	1880	0.52	0.093	24.90	24.60	0.100	1.6
		Left Tilt	1	0	18900	1880	0.26	0.052	24.90	24.60	0.056	1.6
		Right Cheek	1	0	18900	1880	-0.46	0.131	24.90	24.60	0.140	1.6
		Right Tilt	1	0	18900	1880	-0.71	0.060	24.90	24.60	0.064	1.6
		Body back	1	0	18900	1880	-0.32	0.403	24.90	24.60	0.432	1.6
		Body front	1	0	18900	1880	-0.05	0.264	24.90	24.60	0.283	1.6
		Edge 2(Right)	1	0	18900	1880	-0.28	0.219	24.90	24.60	0.235	1.6
		Edge 3(Bottom)	1	0	18900	1880	0.65	0.549	24.90	24.60	0.588	1.6
		Edge 4(Left)	1	0	18900	1880	0.20	0.034	24.90	24.60	0.036	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 46.7						
Product: Smart Phone												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (≤±5%)	SAR (1g) (W/kg)	Max. Tuneu p Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	20175	1732.5	-0.08	0.244	24.10	23.77	0.263	1.6
		Left Tilt	1	0	20175	1732.5	-0.35	0.098	24.10	23.77	0.106	1.6
		Right Cheek	1	0	20175	1732.5	-0.27	0.178	24.10	23.77	0.192	1.6
		Right Tilt	1	0	20175	1732.5	-0.15	0.122	24.10	23.77	0.132	1.6
		Body back	1	0	20175	1732.5	0.36	0.441	24.10	23.77	0.476	1.6
		Body front	1	0	20175	1732.5	-0.38	0.381	24.10	23.77	0.411	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.52	0.247	24.10	23.77	0.266	1.6
		Edge 3(Bottom)	1	0	20050	1720	--0.07	0.853	24.10	23.78	0.918	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	0.22	0.858	24.10	23.77	0.926	1.6
		Edge 3(Bottom)	1	0	20300	1745	-0.06	0.866	24.10	23.63	0.965	1.6
		Edge 4(Left)	1	0	20175	1732.5	0.32	0.074	24.10	23.77	0.080	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 46.7						
Product: Smart Phone												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocati on	UL RB START								
10	QPSK	Left Cheek	1	0	20525	836.5	-0.06	0.131	23.80	23.45	0.142	1.6
		Left Tilt	1	0	20525	836.5	-0.28	0.071	23.80	23.45	0.077	1.6
		Right Cheek	1	0	20525	836.5	-0.57	0.104	23.80	23.45	0.113	1.6
		Right Tilt	1	0	20525	836.5	0.24	0.080	23.80	23.45	0.087	1.6
		Body back	1	0	20525	836.5	-0.36	0.087	23.80	23.45	0.094	1.6
		Body front	1	0	20525	836.5	-0.32	0.068	23.80	23.45	0.074	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.05	0.026	23.80	23.45	0.028	1.6
		Edge 3(Bottom)	1	0	20525	836.5	-0.47	0.072	23.80	23.45	0.078	1.6
		Edge 4(Left)	1	0	20525	836.5	0.32	0.064	23.80	23.45	0.069	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 48.0						
Product: Smart Phone												
Test Mode: LTE Band 7												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	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	Left Cheek	1	0	21100	2535	-0.65	0.095	24.10	23.96	0.098	1.6
		Left Tilt	1	0	21100	2535	0.26	0.043	24.10	23.96	0.044	1.6
		Right Cheek	1	0	21100	2535	-0.35	0.091	24.10	23.96	0.094	1.6
		Right Tilt	1	0	21100	2535	-0.27	0.044	24.10	23.96	0.045	1.6
		Body back	1	0	21100	2535	-0.42	0.291	24.10	23.96	0.301	1.6
		Body front	1	0	21100	2535	-0.06	0.230	24.10	23.96	0.238	1.6
		Edge 2(Right)	1	0	21100	2535	-0.35	0.176	24.10	23.96	0.182	1.6
		Edge 3(Bottom)	1	0	21100	2535	-0.27	0.742	24.10	23.96	0.766	1.6
		Edge 4(Left)	1	0	21100	2535	0.19	0.072	24.10	23.96	0.074	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 47.6							
Product: Smart Phone												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	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	Left Cheek	1	0	23095	707.5	-0.05	0.017	24.10	23.08	0.022	1.6
		Left Tilt	1	0	23095	707.5	0.44	0.010	24.10	23.08	0.013	1.6
		Right Cheek	1	0	23095	707.5	-0.35	0.014	24.10	23.08	0.018	1.6
		Right Tilt	1	0	23095	707.5	0.32	0.011	24.10	23.08	0.014	1.6
		Body back	1	0	23095	707.5	-0.07	0.023	24.10	23.08	0.029	1.6
		Body front	1	0	23095	707.5	-0.42	0.021	24.10	23.08	0.027	1.6
		Edge 2(Right)	1	0	23095	707.5	-0.16	0.015	24.10	23.08	0.019	1.6
		Edge 3(Bottom)	1	0	23095	707.5	-0.25	0.009	24.10	23.08	0.011	1.6
		Edge 4(Left)	1	0	23095	707.5	0.27	0.021	24.10	23.08	0.027	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 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 47.6						
Product: Smart Phone												
Test Mode: LTE Band 17												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	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	Left Cheek	1	0	23790	710	-0.06	0.017	24.10	23.25	0.021	1.6
		Left Tilt	1	0	23790	710	-0.38	0.010	24.10	23.25	0.012	1.6
		Right Cheek	1	0	23790	710	-0.05	0.015	24.10	23.25	0.018	1.6
		Right Tilt	1	0	23790	710	0.27	0.012	24.10	23.25	0.015	1.6
		Body back	1	0	23790	710	-0.42	0.024	24.10	23.25	0.029	1.6
		Body front	1	0	23790	710	-0.06	0.021	24.10	23.25	0.026	1.6
		Edge 2(Right)	1	0	23790	710	-0.28	0.016	24.10	23.25	0.019	1.6
		Edge 3(Bottom)	1	0	23790	710	-0.57	0.009	24.10	23.25	0.011	1.6
		Edge 4(Left)	1	0	23790	710	0.32	0.021	24.10	23.25	0.026	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 10mm of all above table.

Repeated SAR											
Product: Smart Phone											
Test Mode: LTE Band 4											
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START							
20	QPSK	Edge 3(Bottom)	1	0	20300	1745	-0.03	0.858	--	--	1.6

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	-	Yes	-
3	GSM (Data) + WLAN 2.4GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	-	Yes	Yes
7	LTE + WLAN 2.4GHz (data)	Yes	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 and WIFI 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 0mm for head SAR and 10mm 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation³¹
 - 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 < 5 mm, 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
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg for test separation distances } \leq 50 \text{ mm};$$
where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

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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 $(SAR1 + SAR2)1.5/R_i$, 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	Head	-0.30	0.933	0	0.039
	Body	-0.30	0.933	10	0.019
WIFI	Head	9.20	8.318	0	0.349
	Body	9.20	8.318	10	0.174

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		GSM 850	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.157	0.349		0.506	No
	Left Tilt	0.084	0.349		0.433	No
	Right Touch	0.119	0.349		0.468	No
	Right Tilt	0.100	0.349		0.449	No
Body-worn (voice)	Rear	0.107	0.174		0.281	No
		0.107		0.019	0.126	No
	Front	0.086	0.174		0.260	No
		0.086		0.019	0.105	No
Body-worn (Data)	Rear	0.167		0.019	0.186	No
		0.167	0.174		0.341	No
	Front	0.129		0.019	0.148	No
		0.129	0.174		0.303	No
Body-worn (Hotspot)	Edge 1	/	0.174		0.174	No
	Edge 2	0.053	0.174		0.227	No
	Edge 3	0.132	0.174		0.306	No
	Edge 4	0.118	0.174		0.292	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.053		0.019	0.072	No
	Edge 3	0.132		0.019	0.151	No
	Edge 4	0.118		0.019	0.137	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		PCS 1900	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.053	0.349		0.402	No
	Left Tilt	0.049	0.349		0.398	No
	Right Touch	0.081	0.349		0.430	No
	Right Tilt	0.040	0.349		0.389	No
Body-worn (voice)	Rear	0.193	0.174		0.367	No
		0.193		0.019	0.212	No
	Front	0.152	0.174		0.326	No
		0.152		0.019	0.171	No
Body-worn (Data)	Rear	0.254		0.019	0.273	No
		0.254	0.174		0.428	No
	Front	0.221		0.019	0.240	No
		0.221	0.174		0.395	No
Body-worn (Hotspot)	Edge 1	/	0.174		0.174	No
	Edge 2	0.123	0.174		0.297	No
	Edge 3	0.340	0.174		0.514	No
	Edge 4	0.019	0.174		0.193	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.123		0.019	0.142	No
	Edge 3	0.340		0.019	0.359	No
	Edge 4	0.019		0.019	0.038	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.092	0.349		0.441	No
	Left Tilt	0.053	0.349		0.402	No
	Right Touch	0.096	0.349		0.445	No
	Right Tilt	0.106	0.349		0.455	No
Body-worn	Rear	0.385	0.174		0.559	No
	Front	0.256	0.174		0.430	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.146	0.174		0.320	No
	Edge 3	0.460	0.174		0.634	No
	Edge 4	0.024	0.174		0.198	No
	Rear	0.385		0.019	0.404	No
	Front	0.256		0.019	0.275	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.146		0.019	0.165	No
	Edge 3	0.460		0.019	0.479	No
	Edge 4	0.024		0.019	0.043	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.082	0.349		0.431	No
	Left Tilt	0.045	0.349		0.394	No
	Right Touch	0.098	0.349		0.447	No
	Right Tilt	0.047	0.349		0.396	No
Body-worn	Rear	0.286	0.174		0.460	No
	Front	0.108	0.174		0.282	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.176	0.174		0.350	No
	Edge 3	0.397	0.174		0.571	No
	Edge 4	0.073	0.174		0.247	No
	Rear	0.286		0.019	0.305	No
	Front	0.108		0.019	0.127	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.176		0.019	0.195	No
	Edge 3	0.397		0.019	0.416	No
	Edge 4	0.073		0.019	0.092	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.141	0.349		0.490	No
	Left Tilt	0.090	0.349		0.439	No
	Right Touch	0.108	0.349		0.457	No
	Right Tilt	0.081	0.349		0.430	No
Body-worn	Rear	0.214	0.174		0.388	No
	Front	0.196	0.174		0.370	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.086	0.174		0.260	No
	Edge 3	0.161	0.174		0.335	No
	Edge 4	0.190	0.174		0.364	No
	Rear	0.214		0.019	0.233	No
	Front	0.196		0.019	0.215	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.086		0.019	0.105	No
	Edge 3	0.161		0.019	0.180	No
	Edge 4	0.190		0.019	0.209	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.100	0.349		0.449	No
	Left Tilt	0.056	0.349		0.405	No
	Right Touch	0.140	0.349		0.489	No
	Right Tilt	0.064	0.349		0.413	No
Body-worn	Rear	0.432	0.174		0.606	No
	Front	0.283	0.174		0.457	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.235	0.174		0.409	No
	Edge 3	0.588	0.174		0.762	No
	Edge 4	0.036	0.174		0.210	No
	Rear	0.432		0.019	0.451	No
	Front	0.283		0.019	0.302	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.235		0.019	0.254	No
	Edge 3	0.588		0.019	0.607	No
	Edge 4	0.036		0.019	0.055	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.263	0.349		0.612	No
	Left Tilt	0.106	0.349		0.455	No
	Right Touch	0.192	0.349		0.541	No
	Right Tilt	0.132	0.349		0.481	No
Body-worn	Rear	0.476	0.174		0.650	No
	Front	0.411	0.174		0.585	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.266	0.174		0.440	No
	Edge 3	0.965	0.174		1.139	No
	Edge 4	0.080	0.174		0.254	No
	Rear	0.476		0.019	0.495	No
	Front	0.411		0.019	0.430	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.266		0.019	0.285	No
	Edge 3	0.965		0.019	0.984	No
	Edge 4	0.080		0.019	0.099	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.142	0.349		0.491	No
	Left Tilt	0.077	0.349		0.426	No
	Right Touch	0.113	0.349		0.462	No
	Right Tilt	0.087	0.349		0.436	No
Body-worn	Rear	0.094	0.174		0.268	No
	Front	0.074	0.174		0.248	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.028	0.174		0.202	No
	Edge 3	0.078	0.174		0.252	No
	Edge 4	0.069	0.174		0.243	No
	Rear	0.094		0.019	0.113	No
	Front	0.074		0.019	0.093	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.028		0.019	0.047	No
	Edge 3	0.078		0.019	0.097	No
	Edge 4	0.069		0.019	0.088	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.098	0.349		0.447	No
	Left Tilt	0.044	0.349		0.393	No
	Right Touch	0.094	0.349		0.443	No
	Right Tilt	0.045	0.349		0.394	No
Body-worn	Rear	0.301	0.174		0.475	No
	Front	0.238	0.174		0.412	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.182	0.174		0.356	No
	Edge 3	0.766	0.174		0.940	No
	Edge 4	0.074	0.174		0.248	No
	Rear	0.301		0.019	0.320	No
	Front	0.238		0.019	0.257	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.182		0.019	0.201	No
	Edge 3	0.766		0.019	0.785	No
	Edge 4	0.074		0.019	0.093	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.022	0.349		0.371	No
	Left Tilt	0.013	0.349		0.362	No
	Right Touch	0.018	0.349		0.367	No
	Right Tilt	0.014	0.349		0.363	No
Body-worn	Rear	0.029	0.174		0.203	No
	Front	0.027	0.174		0.201	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.019	0.174		0.193	No
	Edge 3	0.011	0.174		0.185	No
	Edge 4	0.027	0.174		0.201	No
	Rear	0.029		0.019	0.048	No
	Front	0.027		0.019	0.046	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.019		0.019	0.038	No
	Edge 3	0.011		0.019	0.030	No
	Edge 4	0.027		0.019	0.046	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.021	0.349		0.370	No
	Left Tilt	0.012	0.349		0.361	No
	Right Touch	0.018	0.349		0.367	No
	Right Tilt	0.015	0.349		0.364	No
Body-worn	Rear	0.029	0.174		0.203	No
	Front	0.026	0.174		0.200	No
	Edge 1	/	0.174		0.174	No
	Edge 2	0.019	0.174		0.193	No
	Edge 3	0.011	0.174		0.185	No
	Edge 4	0.026	0.174		0.200	No
	Rear	0.029		0.019	0.048	No
	Front	0.026		0.019	0.045	No
	Edge 1	/		0.019	0.019	No
	Edge 2	0.019		0.019	0.038	No
	Edge 3	0.011		0.019	0.030	No
	Edge 4	0.026		0.019	0.045	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Aug. 22,2020

System Check Head 750 MHz

DUT: Dipole 750 MHz Type: SID 750

Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=5.06

Frequency: 750 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42.57$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

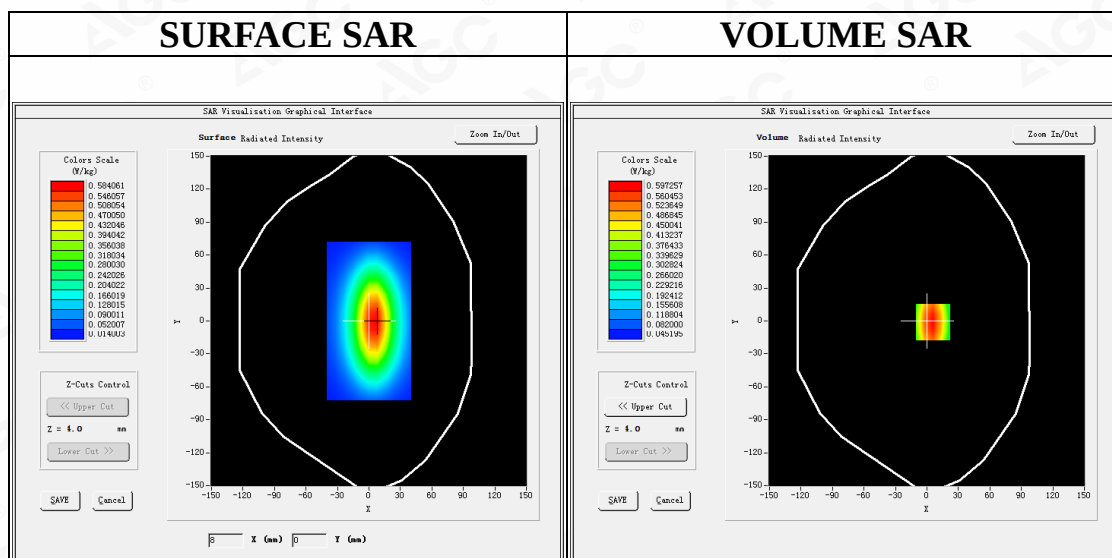
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=6.00, Y=-1.00

SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.338434
SAR 1g (W/Kg)	0.514395

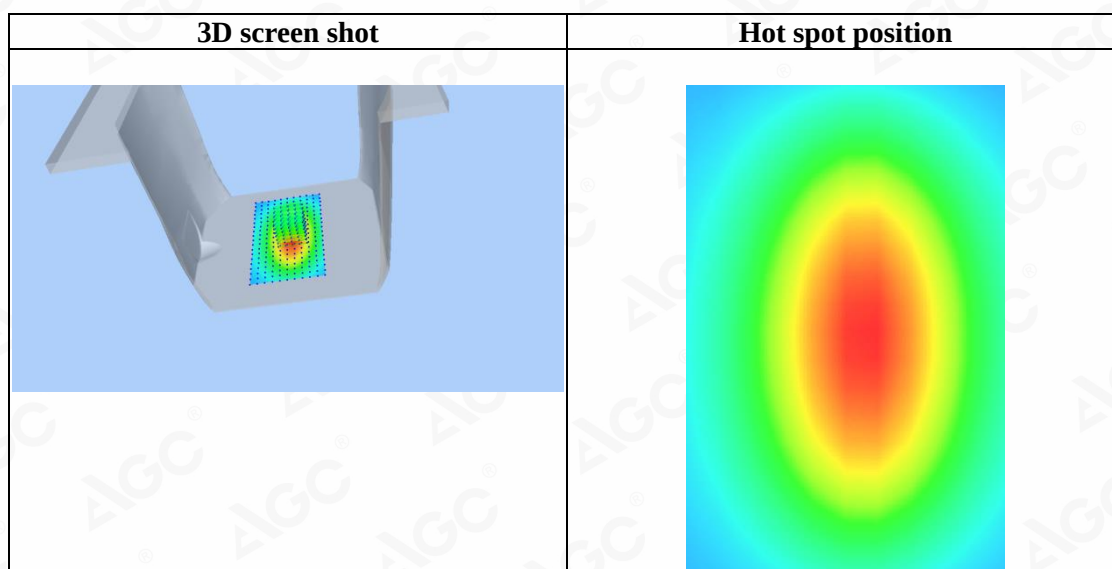
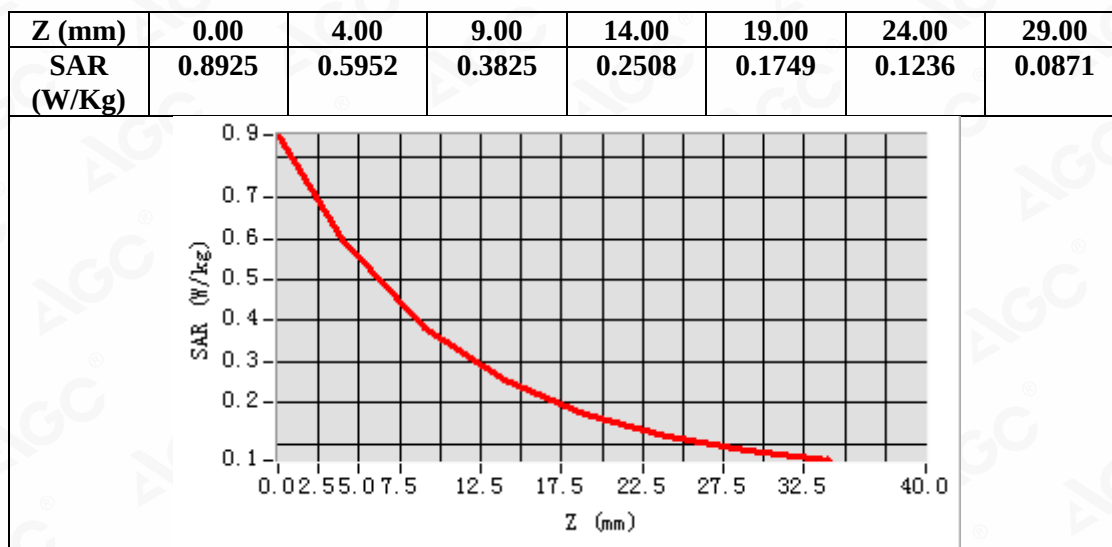
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Test Laboratory: AGC Lab
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Date: Aug. 21,2020

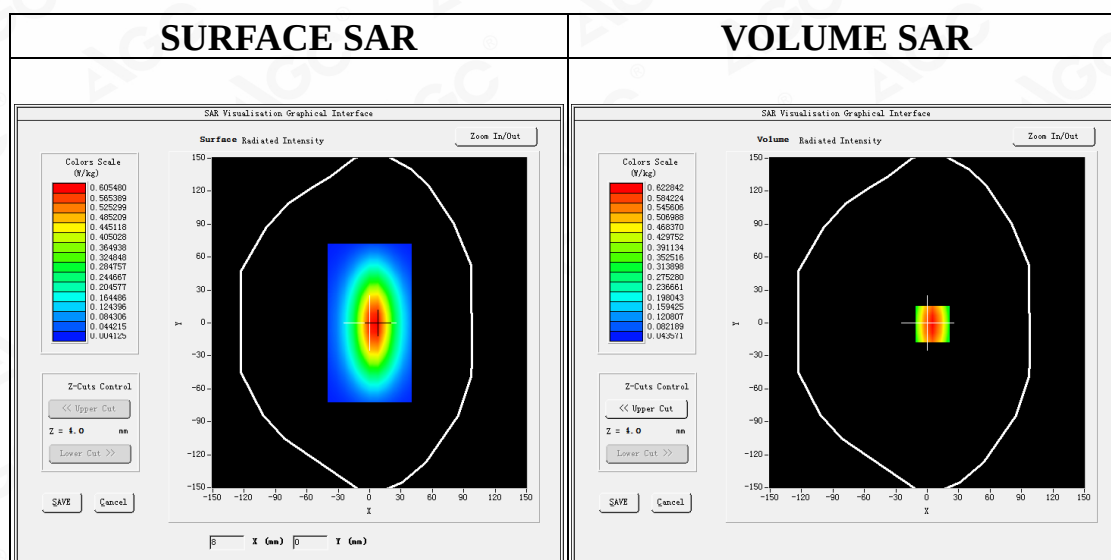
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.26
Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.21$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.6, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=5.00, Y=-1.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.368245
SAR 1g (W/Kg)	0.583951

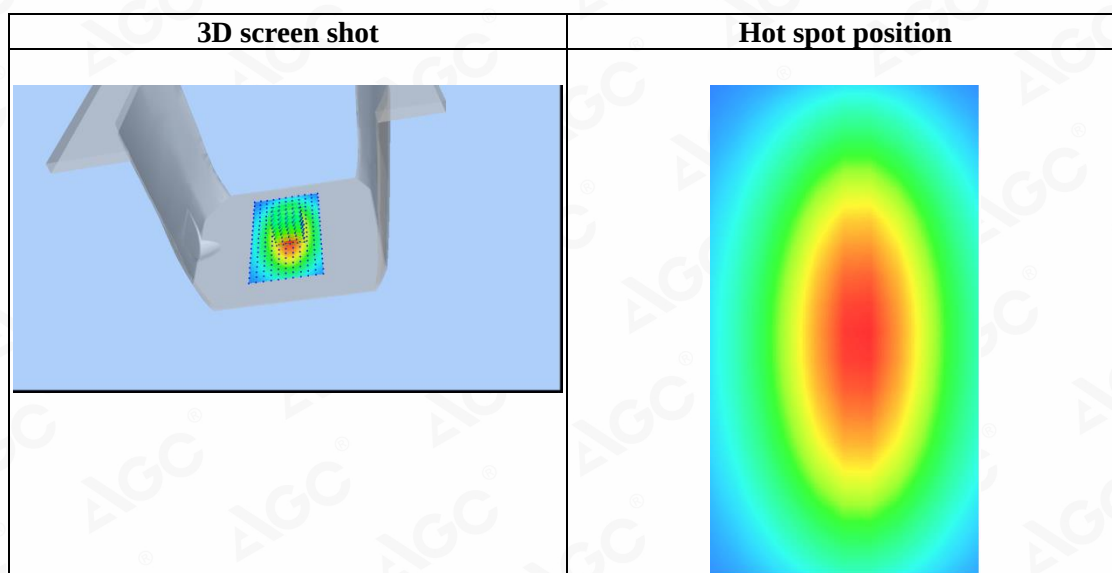
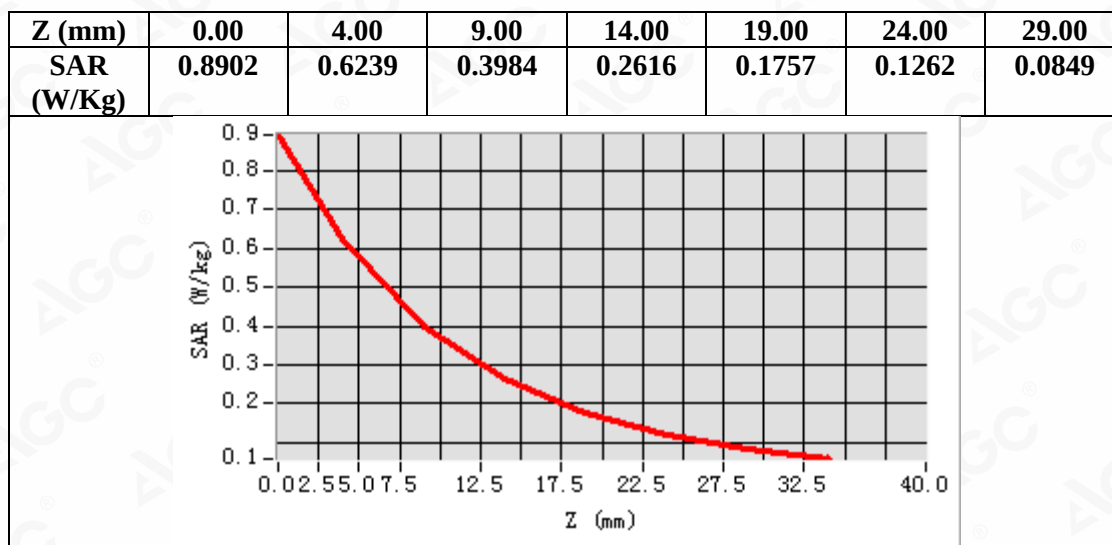
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Test Laboratory: AGC Lab
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Date: Aug. 15,2020

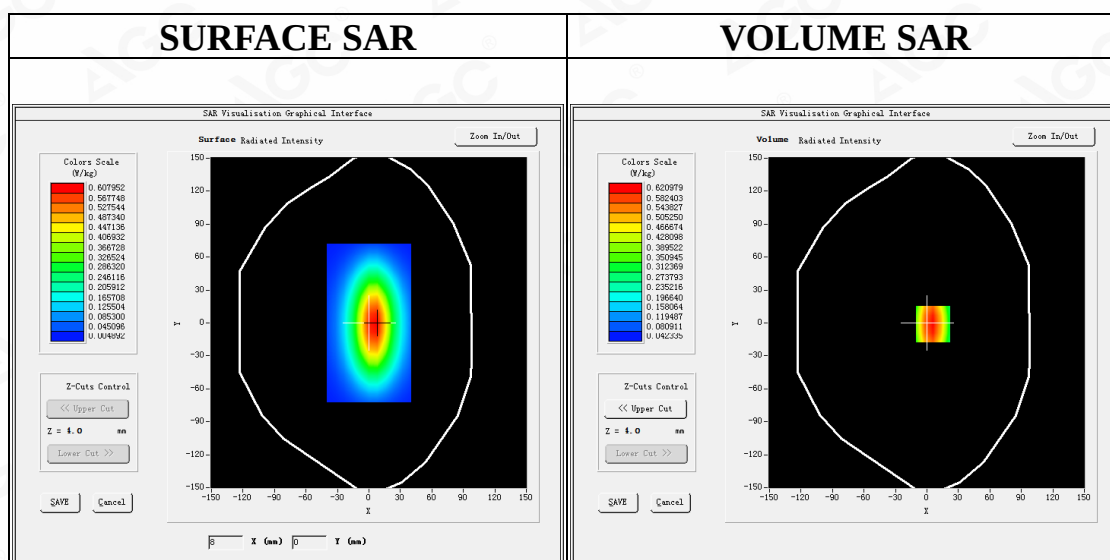
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.26
Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 41.95$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):20.3, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=6.00, Y=-1.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.362872
SAR 1g (W/Kg)	0.593984

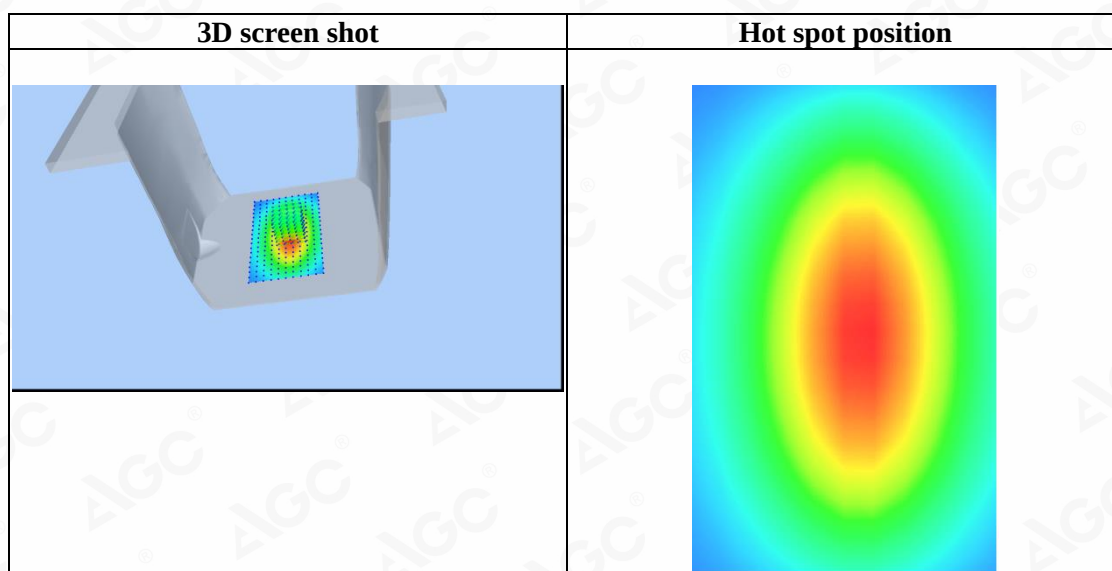
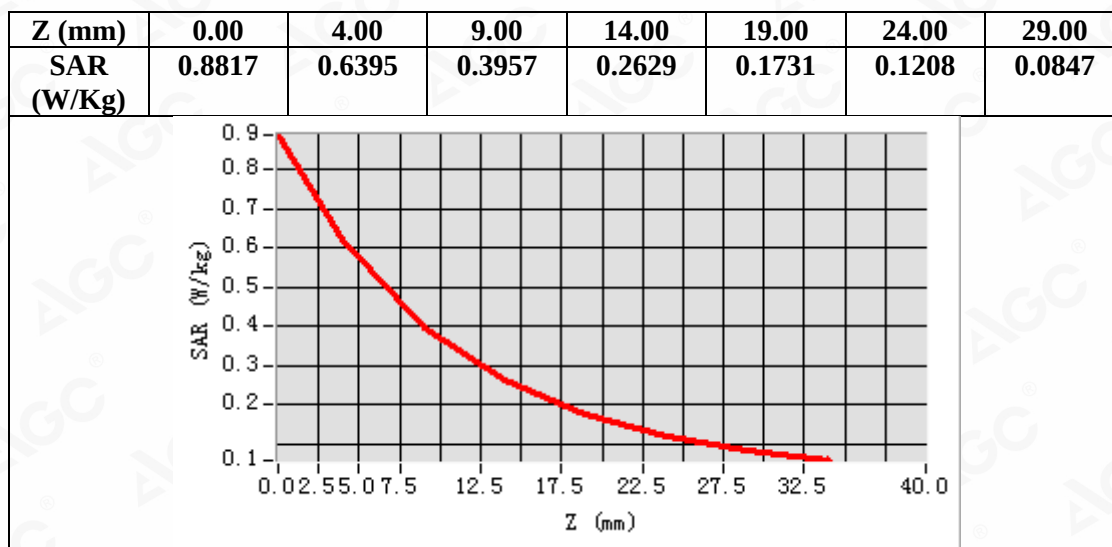
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Test Laboratory: AGC Lab
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Date: Aug. 28,2020

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=4.48
Frequency: 1750 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 39.67$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.5

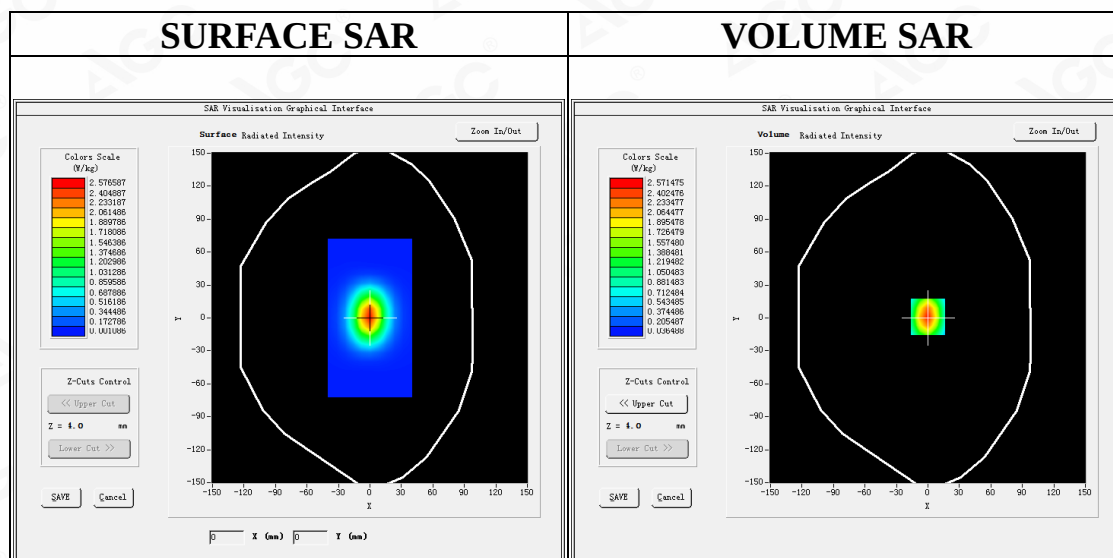
SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}$

Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}, dz=5\text{mm}$



Maximum location: X=0.00, Y=1.00

SAR Peak: 4.12 W/kg

SAR 10g (W/Kg)	1.217634
SAR 1g (W/Kg)	2.409338

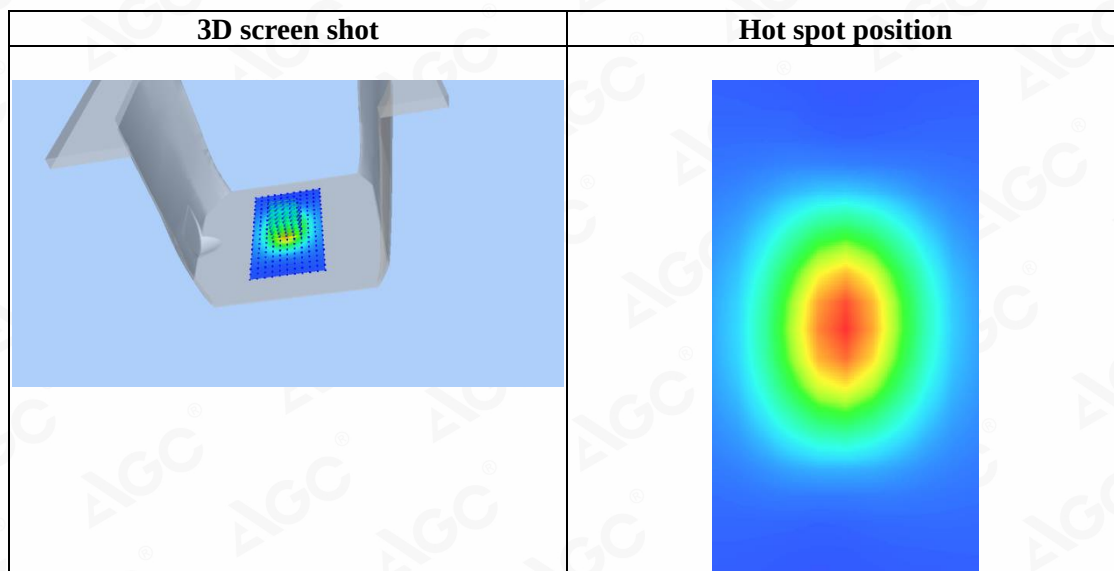
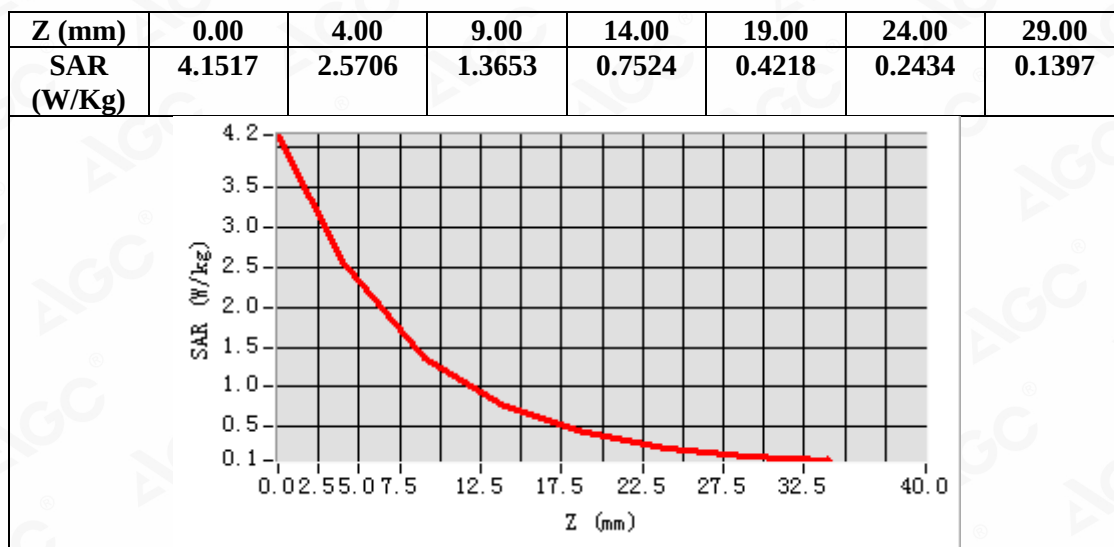
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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Aug. 31,2020

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.18$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.4, Liquid temperature (°C): 21.1

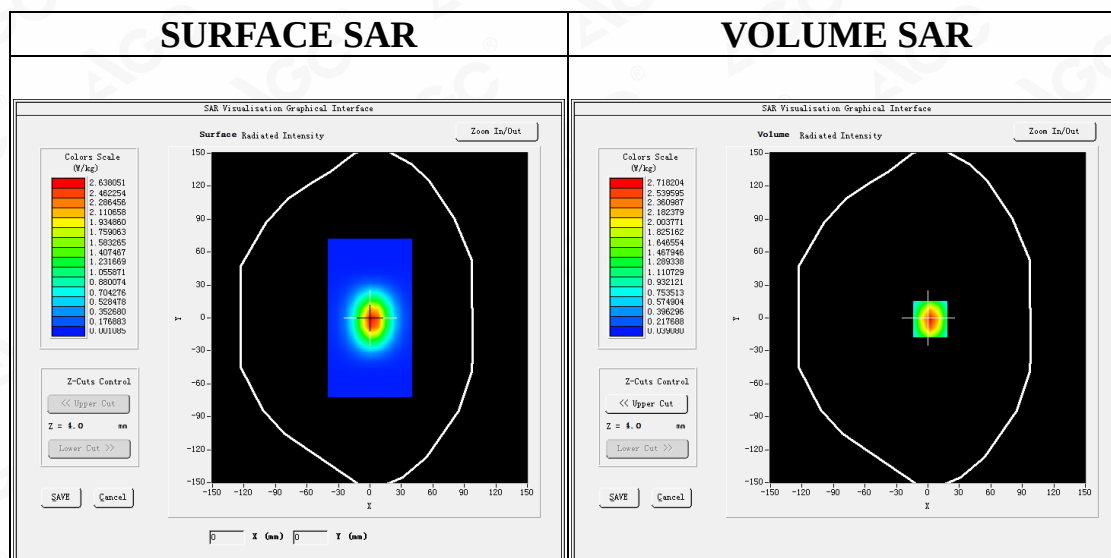
SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=2.00, Y=-1.00

SAR Peak: 4.34 W/kg

SAR 10g (W/Kg)	1.290934
SAR 1g (W/Kg)	2.542876

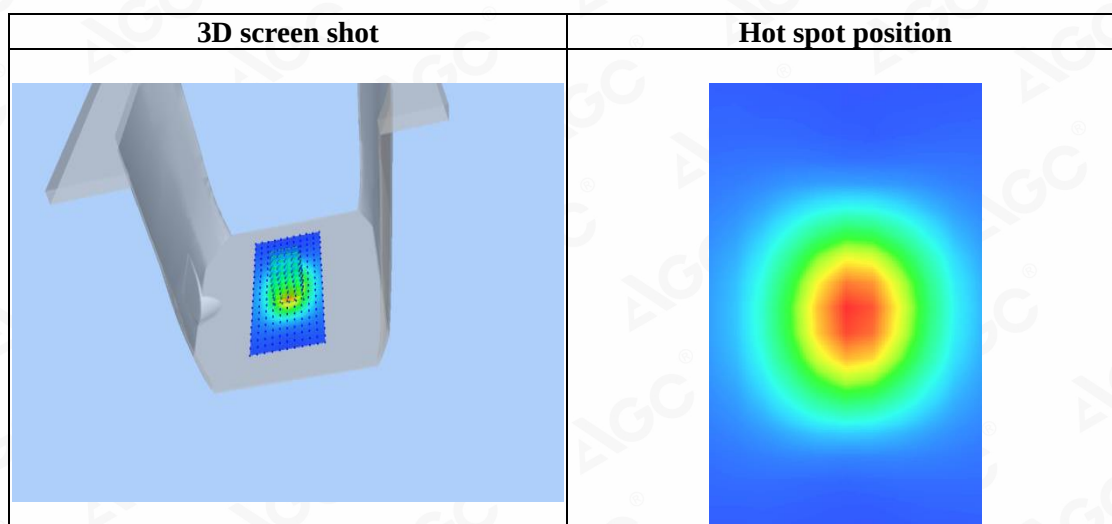
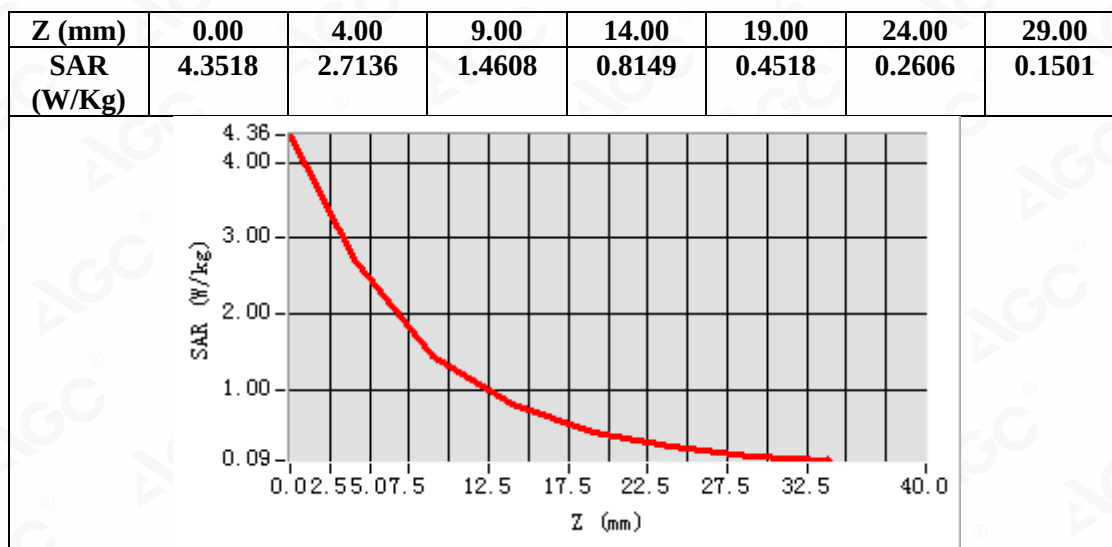
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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Aug. 20,2020

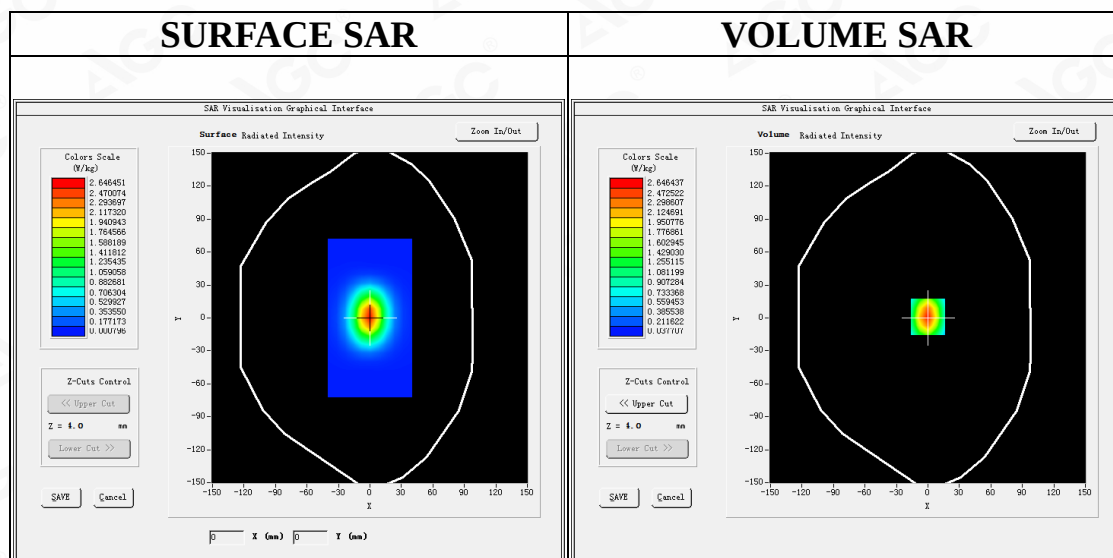
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.54$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.7, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=0.00, Y=1.00

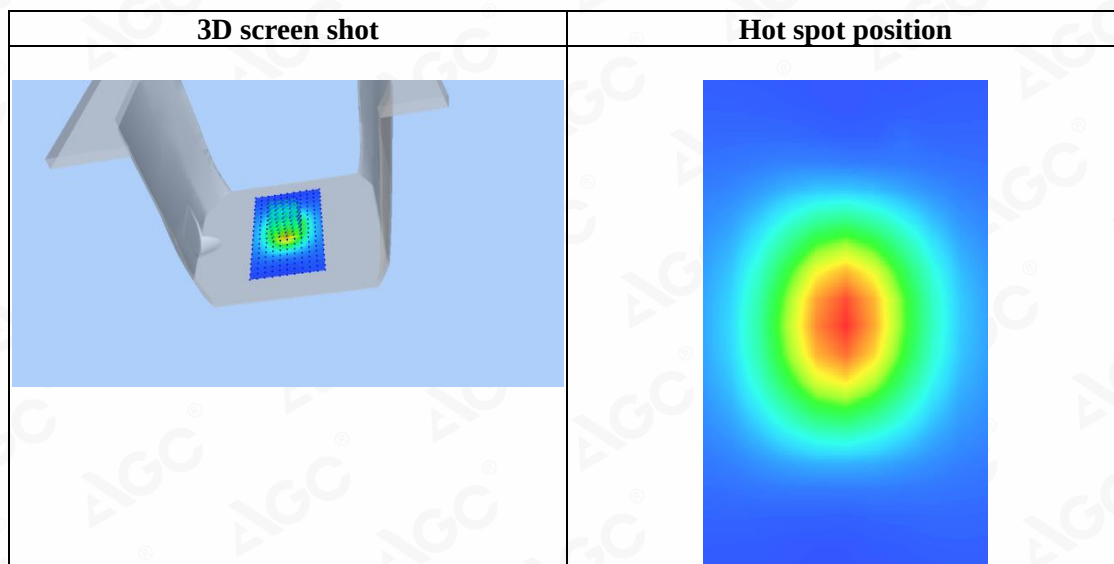
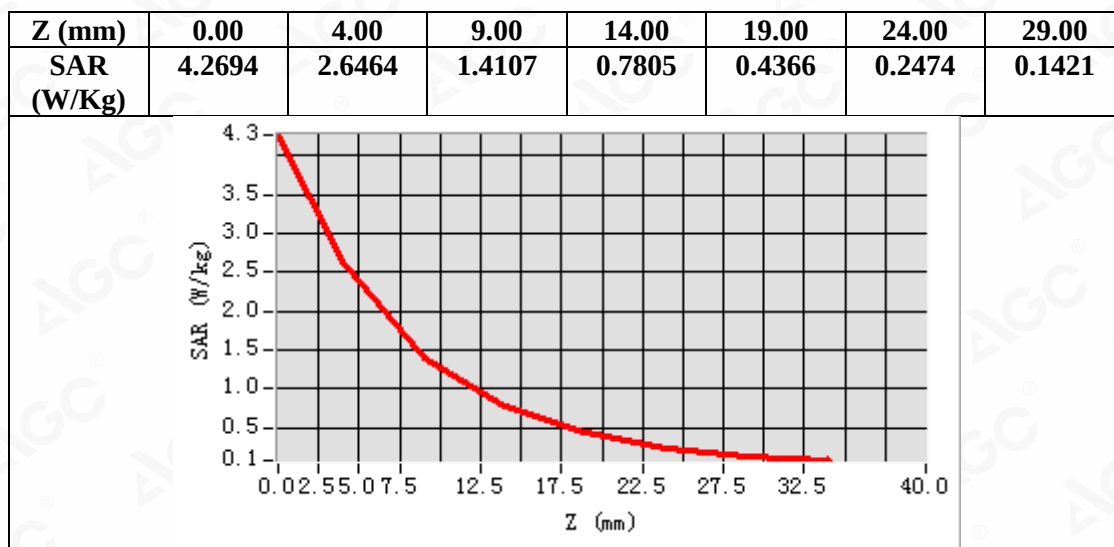
SAR Peak: 4.24 W/kg

SAR 10g (W/Kg)	1.252982
SAR 1g (W/Kg)	2.480877

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Test Laboratory: AGC Lab
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600

Date: Aug. 27,2020

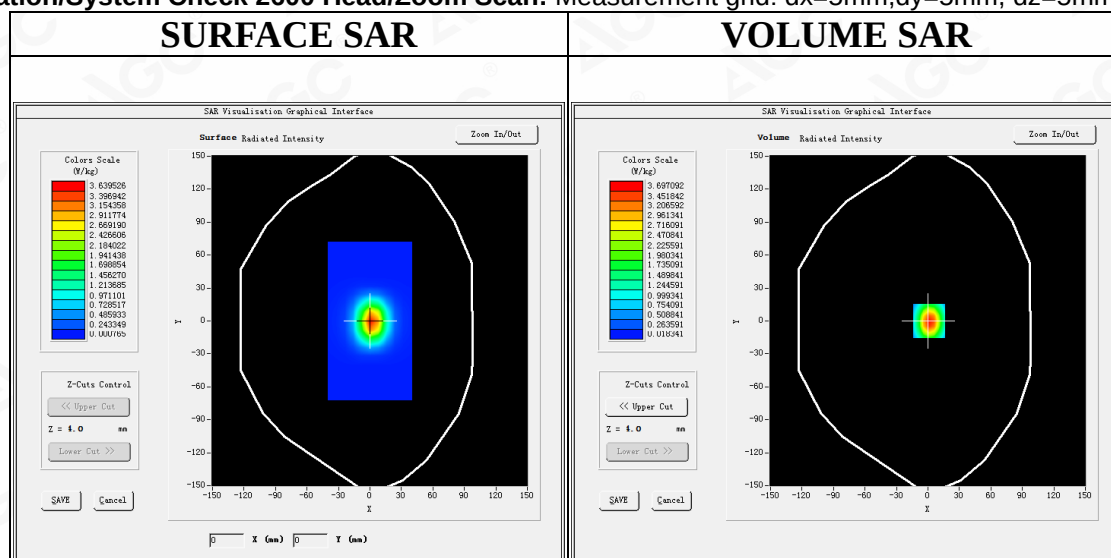
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=3.81
Frequency:2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 19.5, Liquid temperature (°C): 19.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=1.00, Y=0.00

SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	1.533692
SAR 1g (W/Kg)	3.417057

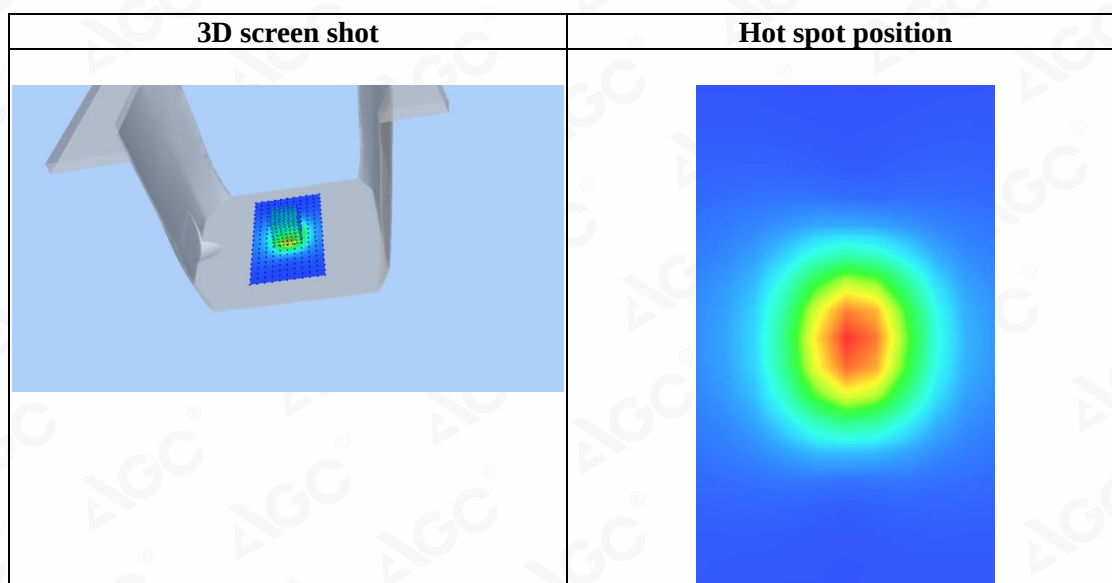
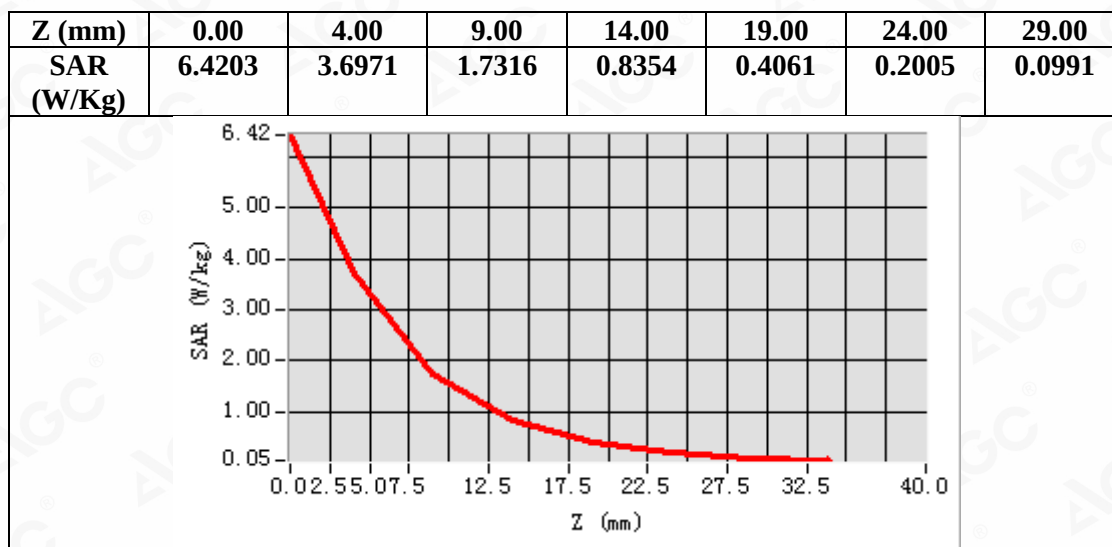
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Test Laboratory: AGC Lab
System Check Head 750 MHz
DUT: Dipole 750 MHz Type: SID 750

Date: Aug. 22,2020

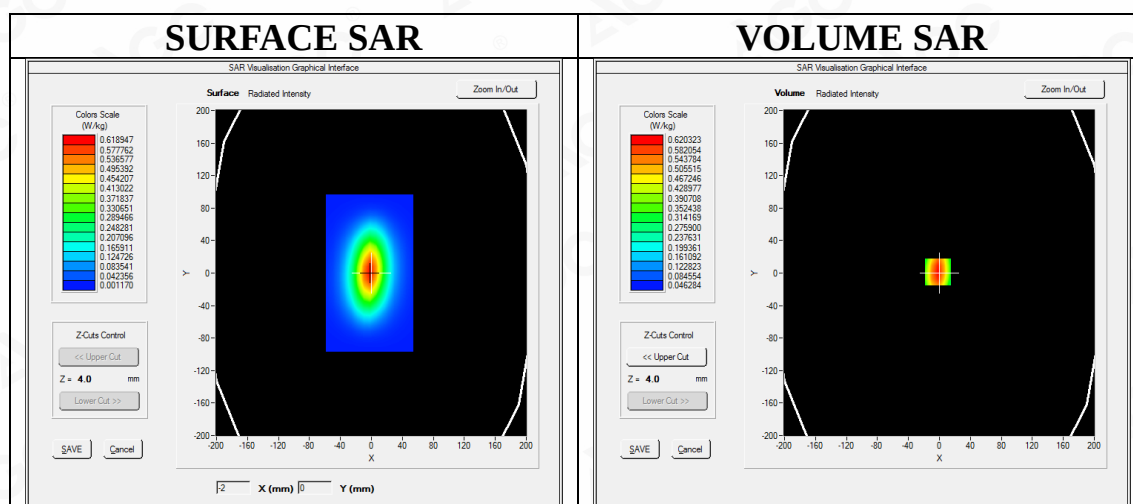
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=5.06
Frequency: 750 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=1.00

SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.343945
SAR 1g (W/Kg)	0.522875

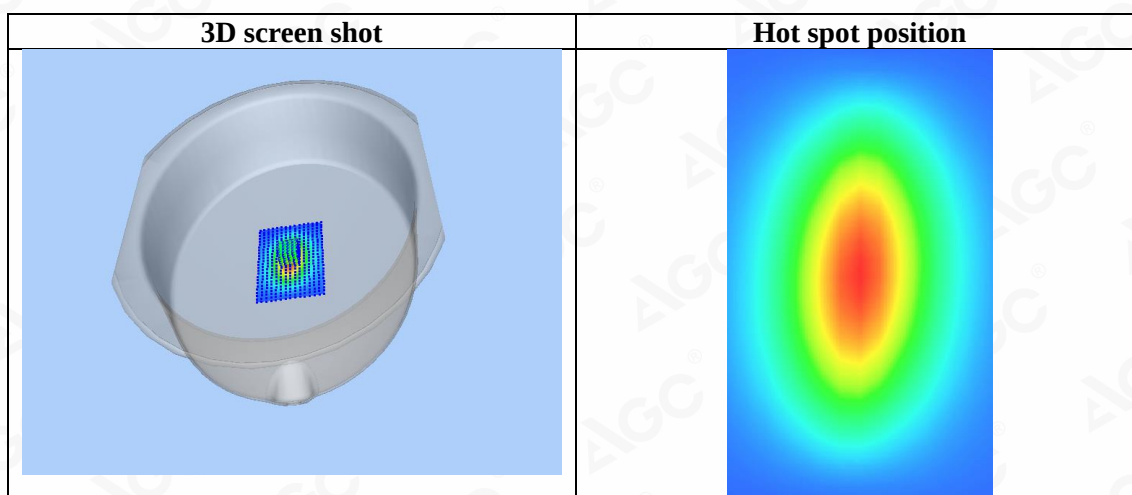
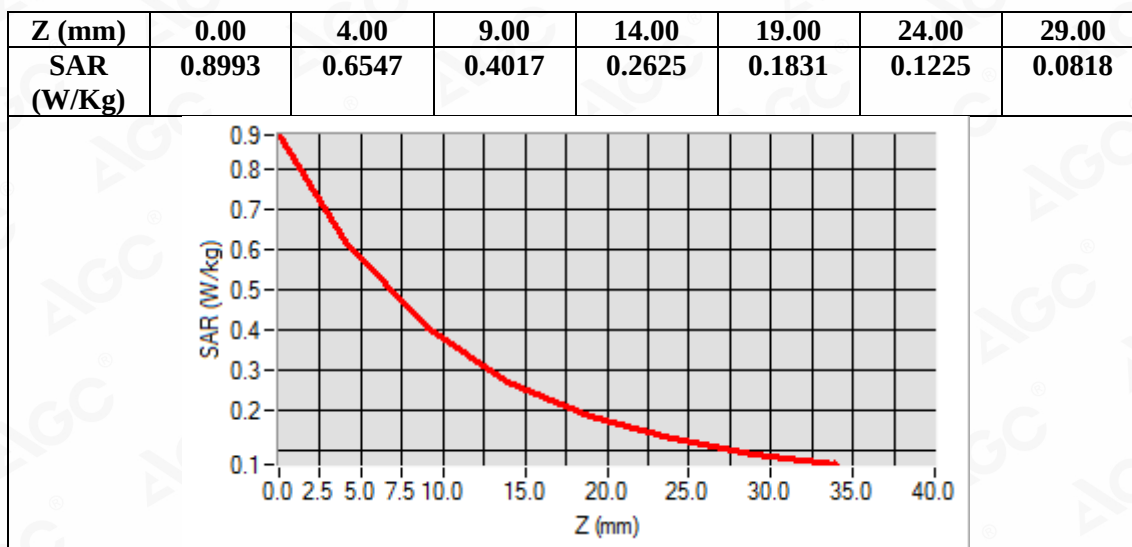
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Test Laboratory: AGC Lab
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Date: Aug. 21,2020

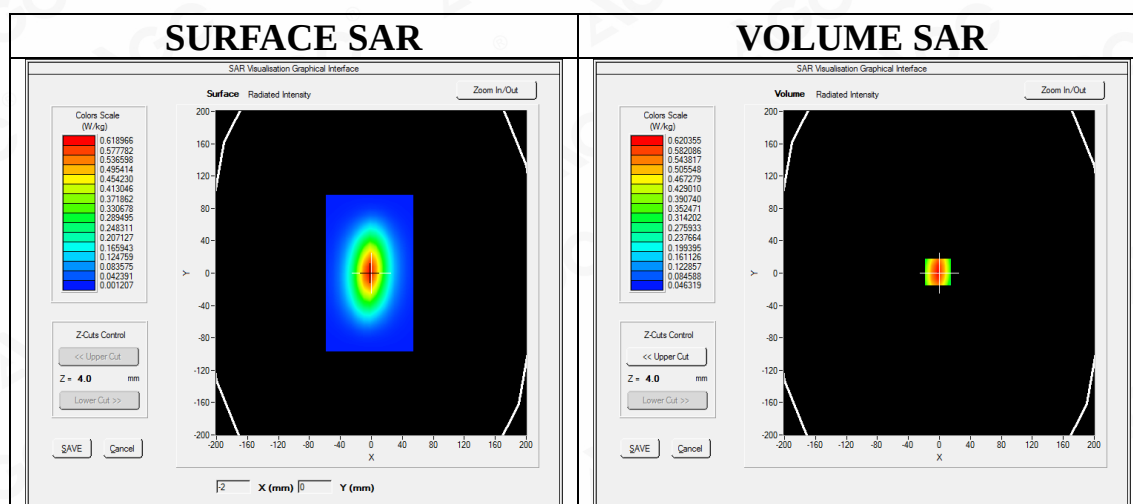
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.26
Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.21$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.6, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=1.00

SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.373815
SAR 1g (W/Kg)	0.592974

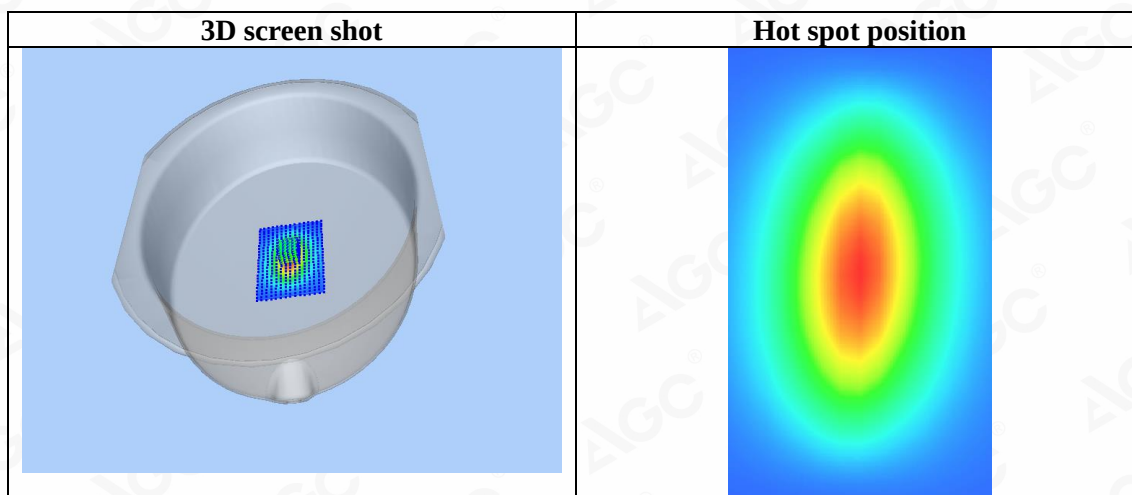
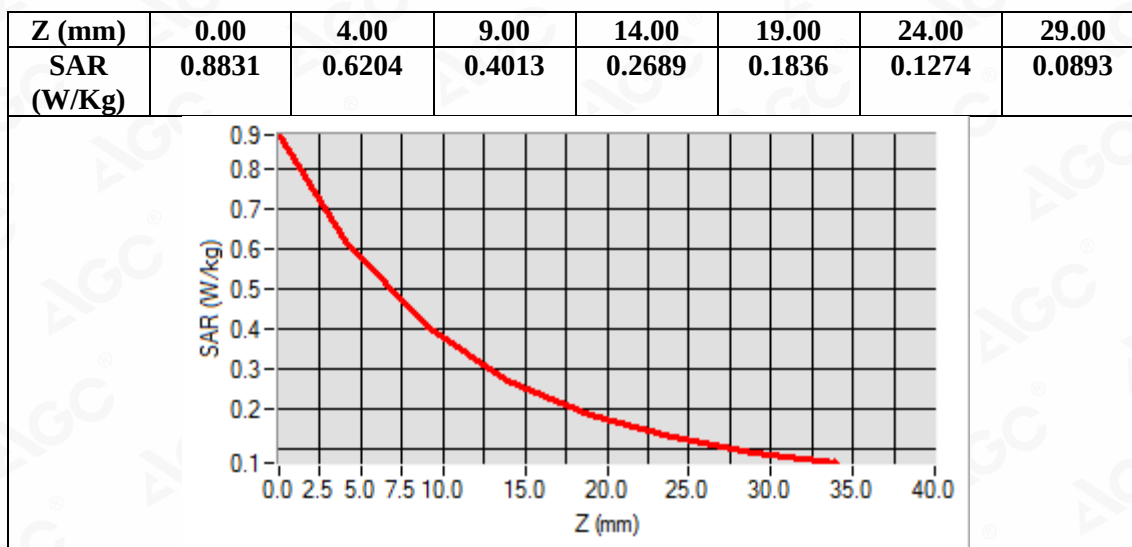
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Test Laboratory: AGC Lab
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Date: Aug. 15,2020

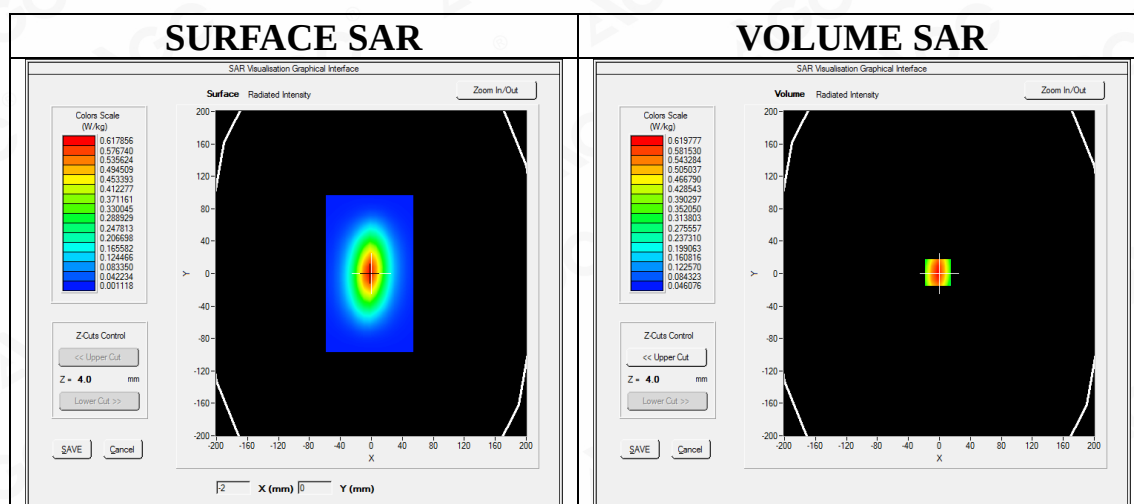
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.26
Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 41.95$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):20.3, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=1.00

SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.373177
SAR 1g (W/Kg)	0.592301

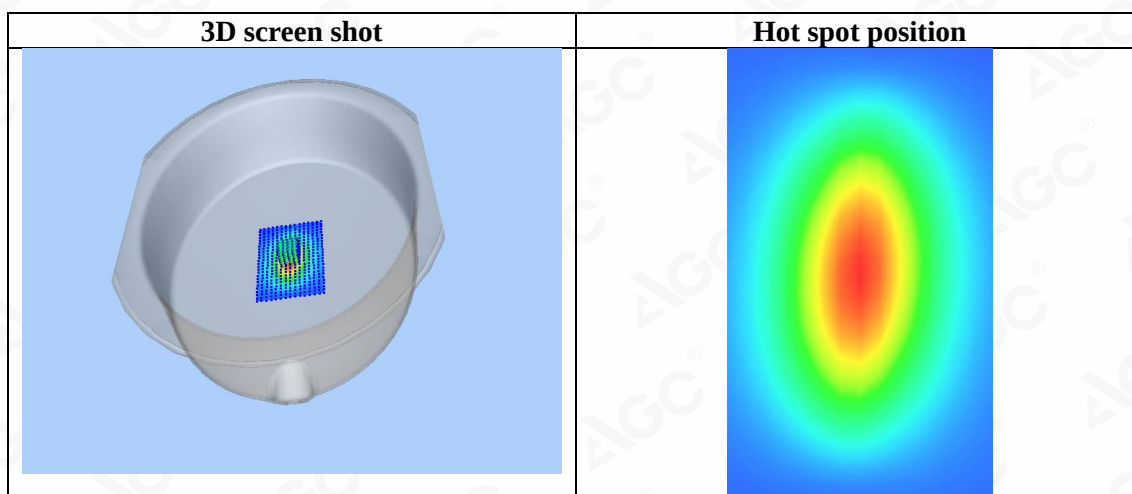
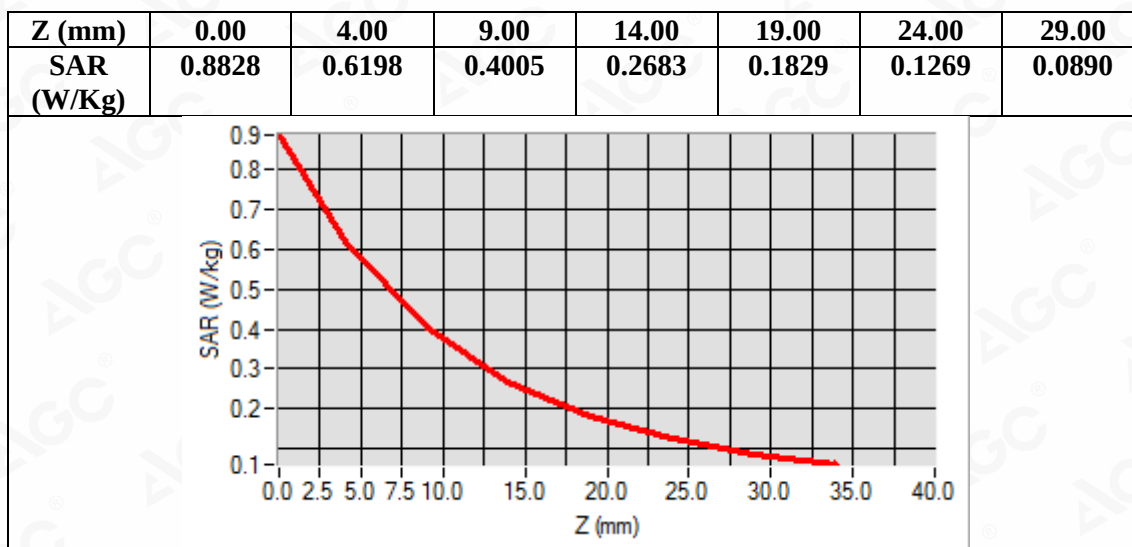
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Test Laboratory: AGC Lab
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Date: Aug. 28,2020

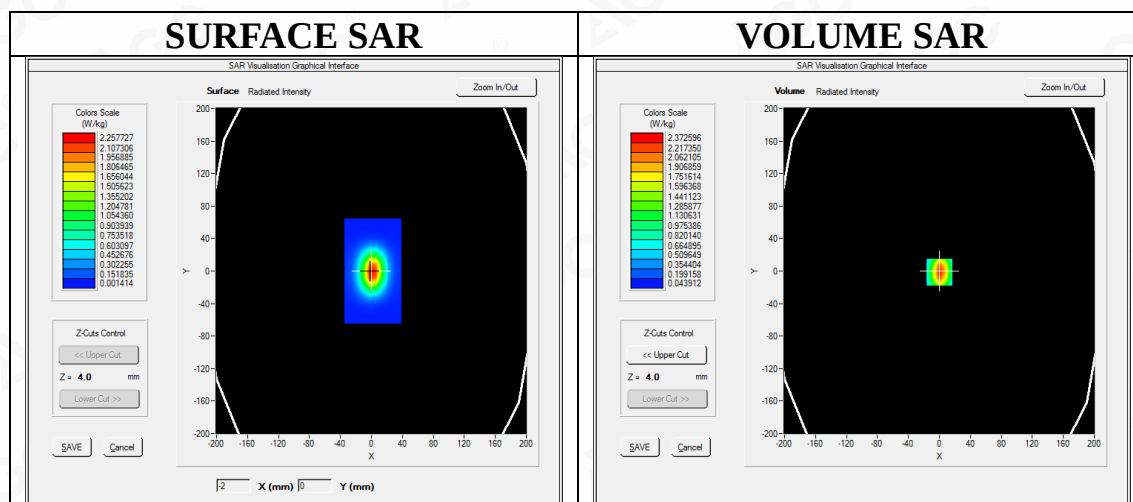
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=4.48
Frequency: 1750 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 39.67$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}$

Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}, dz=5\text{mm}$



Maximum location: X=0.00, Y=-1.00

SAR Peak: 3.73 W/kg

SAR 10g (W/Kg)	1.187542
SAR 1g (W/Kg)	2.329865

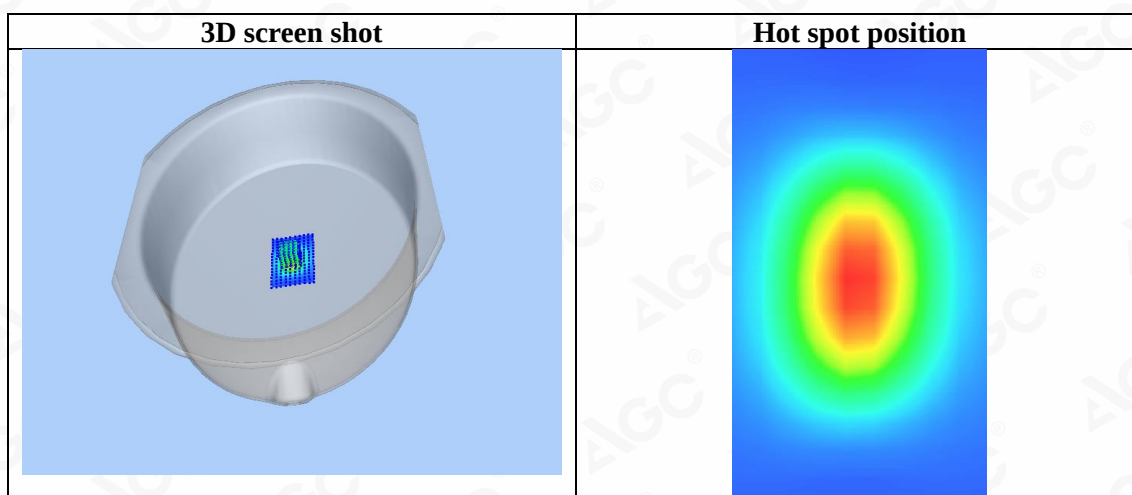
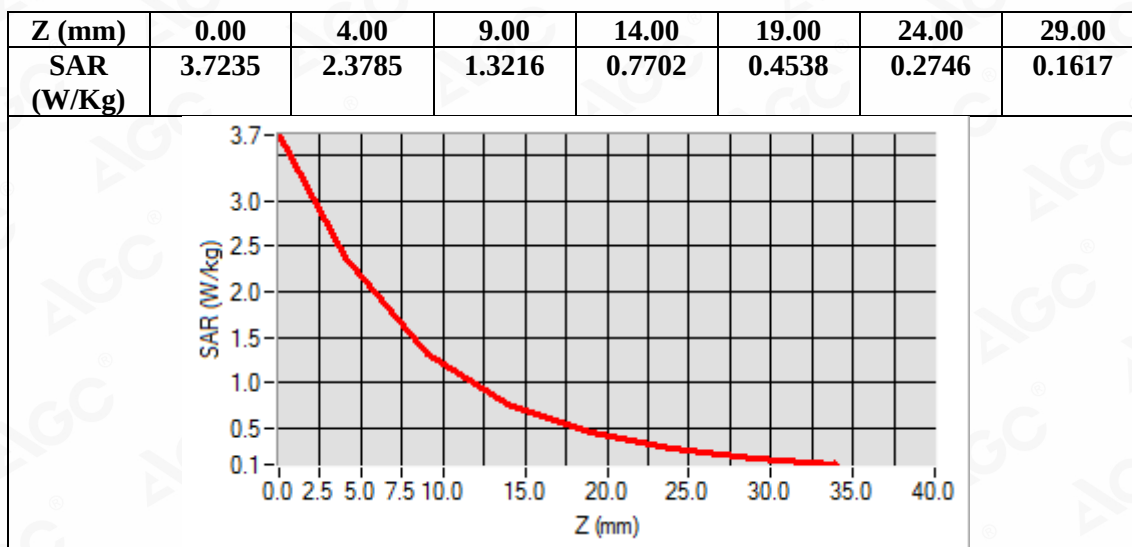
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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Aug. 31,2020

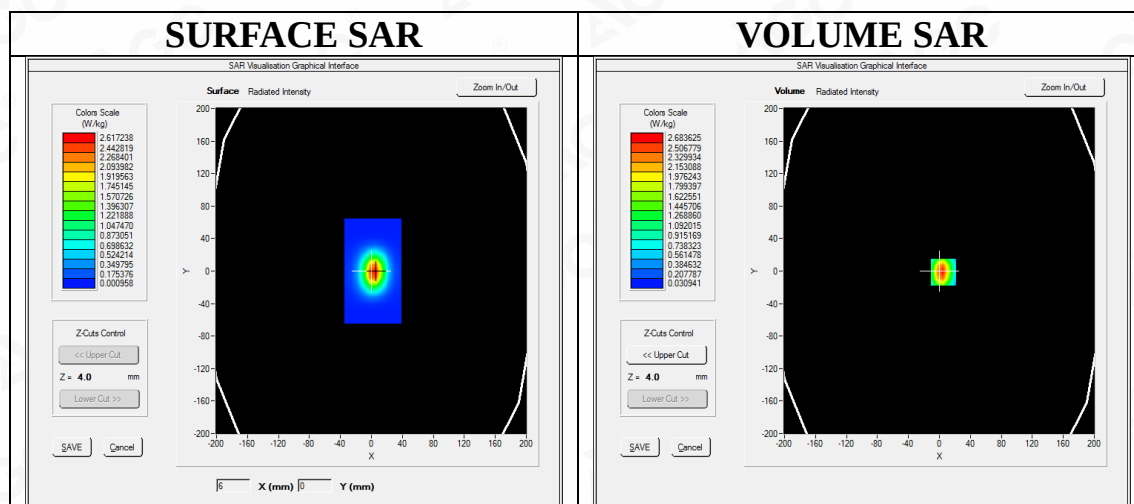
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.18$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.4, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=5.00, Y=-1.00

SAR Peak: 4.37 W/kg

SAR 10g (W/Kg)	1.270872
SAR 1g (W/Kg)	2.553977

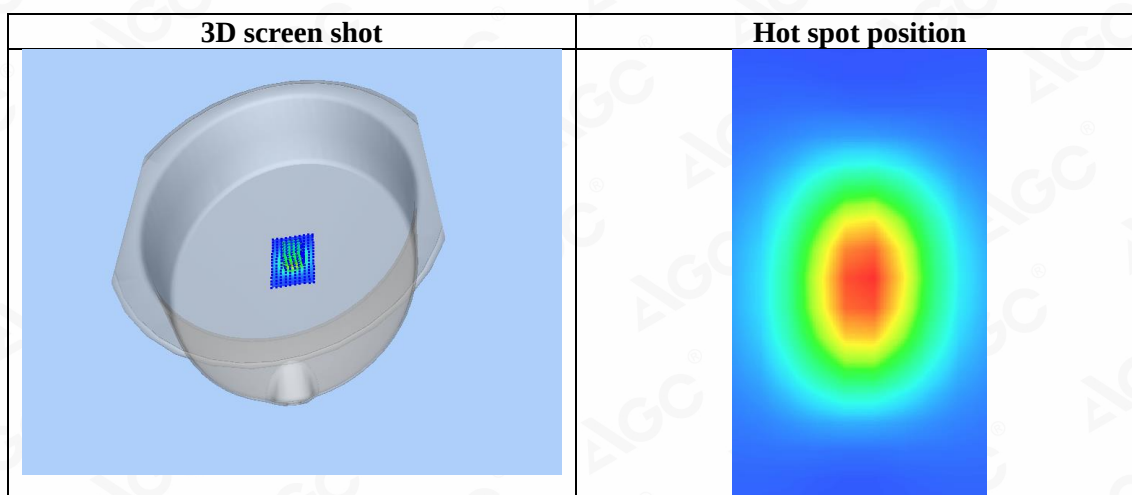
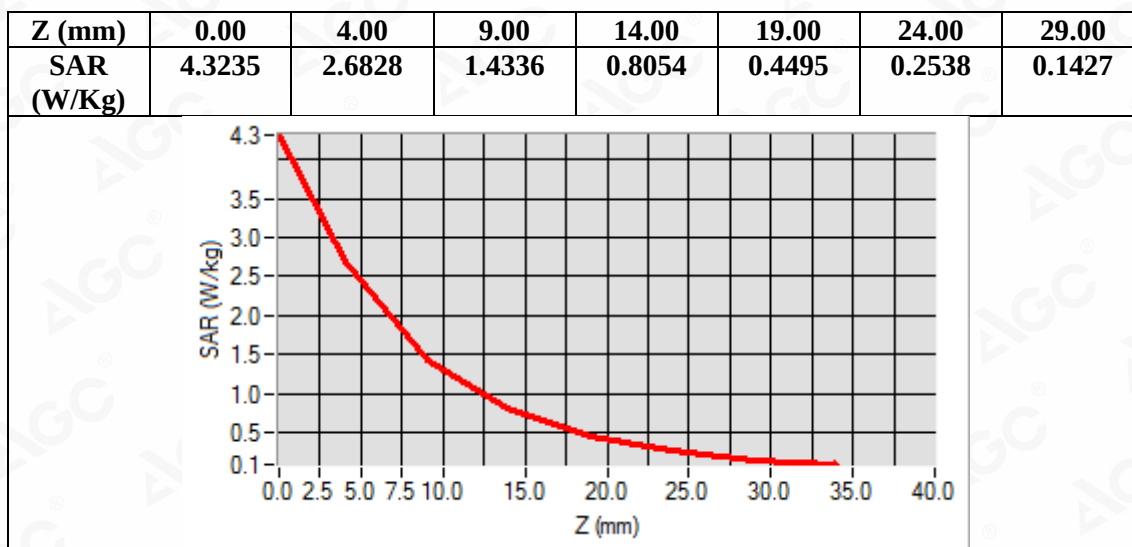
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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Aug. 20,2020

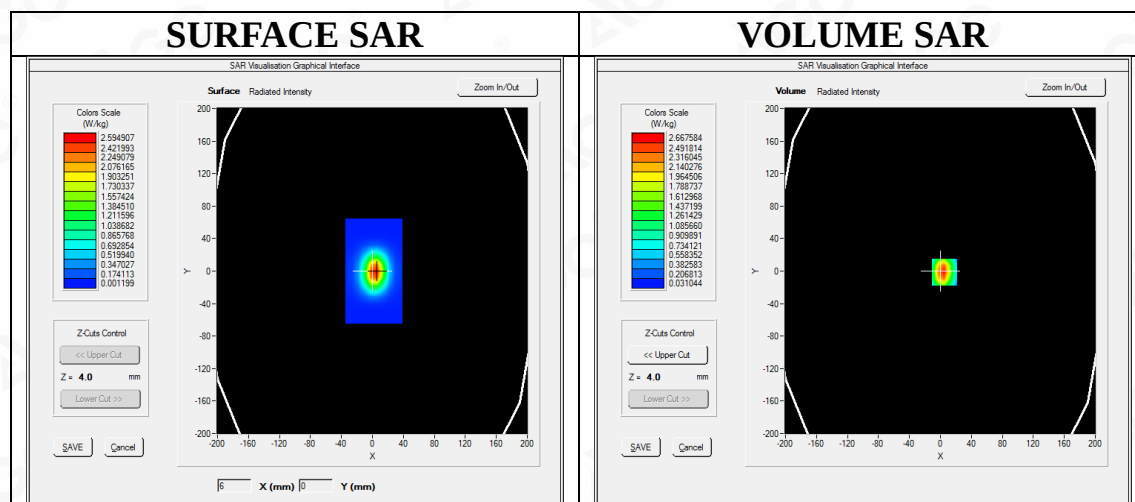
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 39.54$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.7, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=5.00, Y=-1.00

SAR Peak: 4.35 W/kg

SAR 10g (W/Kg)	1.257642
SAR 1g (W/Kg)	2.541827

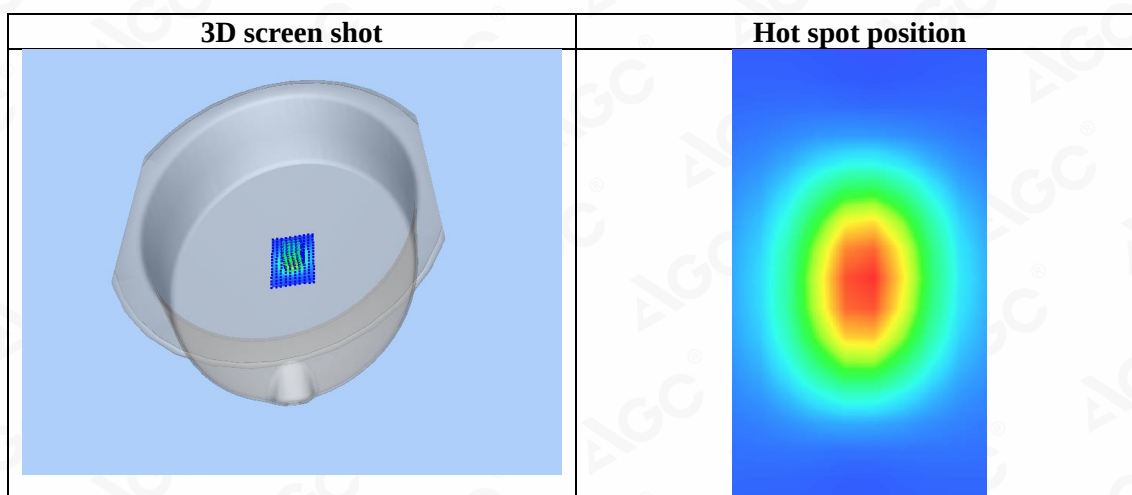
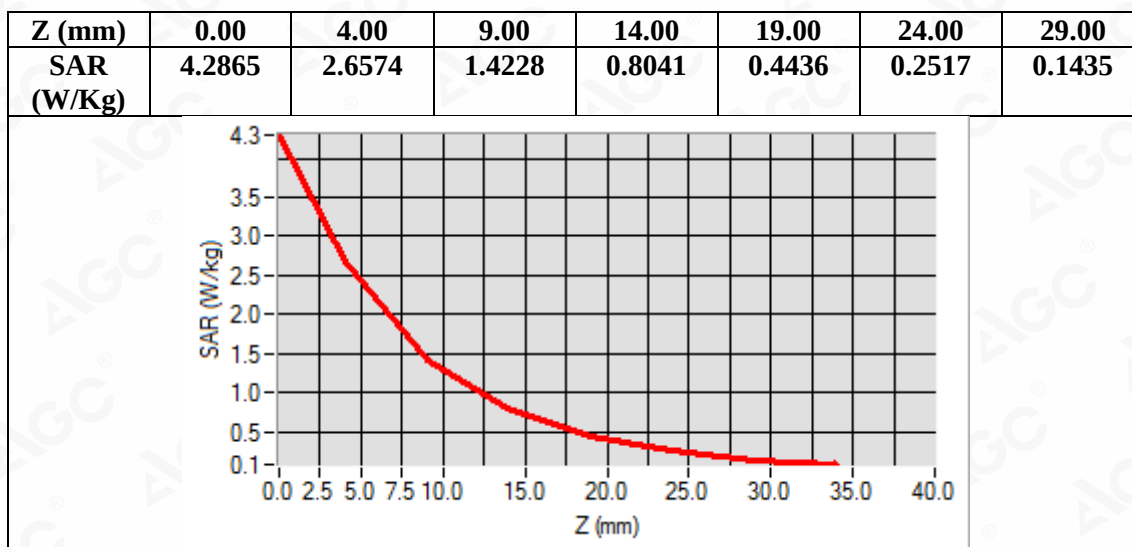
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Test Laboratory: AGC Lab
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600

Date: Aug. 27,2020

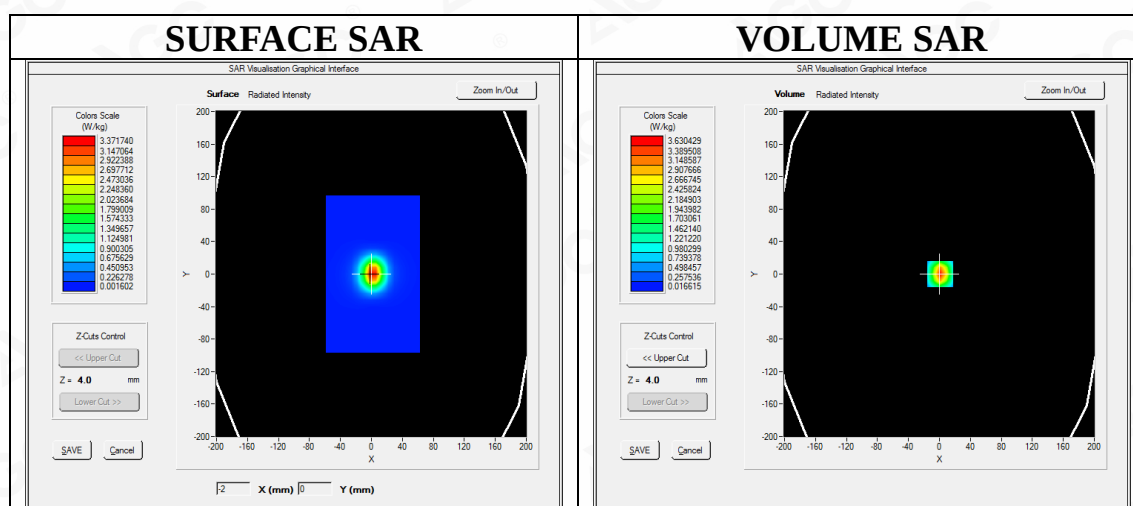
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=3.81
Frequency:2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 19.5, Liquid temperature (°C): 19.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



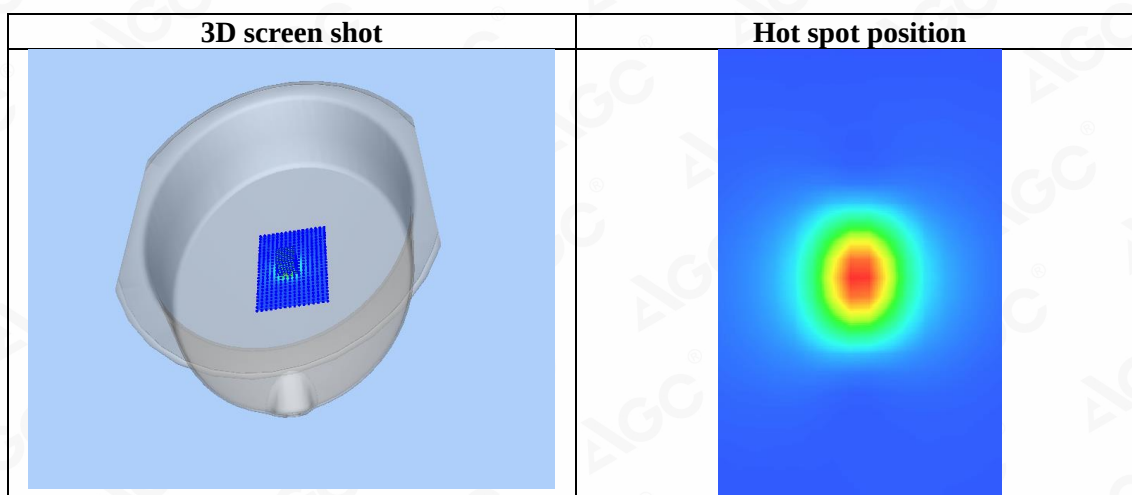
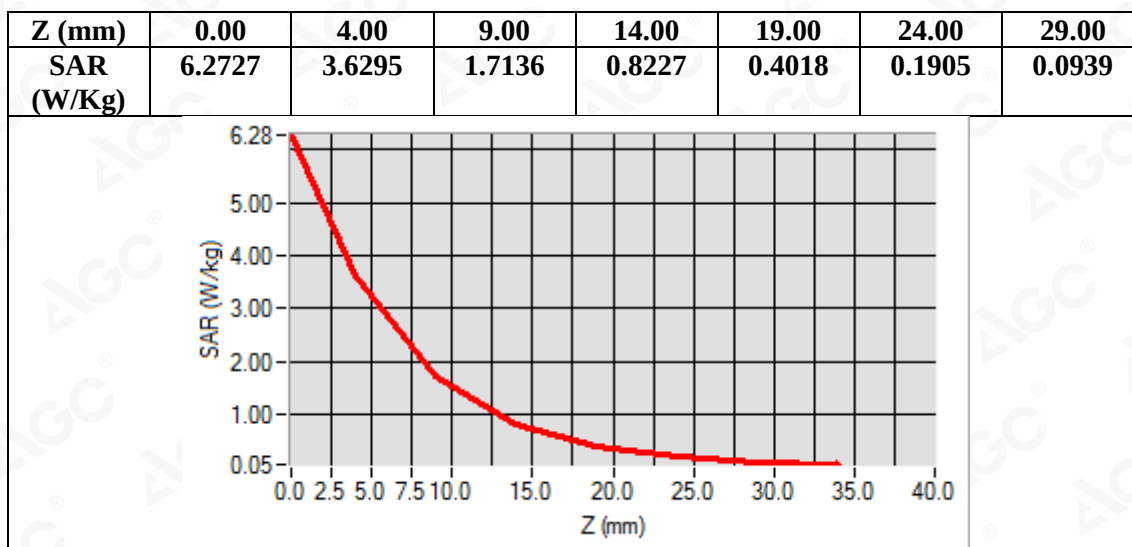
Maximum location: X=1.00, Y=0.00
SAR Peak: 6.23 W/kg

SAR 10g (W/Kg)	1.521084
SAR 1g (W/Kg)	3.373483

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