

Page 47 of 132

Bandwidth	Modulation	RB size	RB	Target MPR	Channel	Channel	Channel
Danuwium	Wodulation	KD SIZE	offset	Target WIFK	20425	20525	20625
	@		0	0	23.66	22.80	23.48
	a.C	1	12	0	23.58	22.96	23.36
	9	G	24	0	23.46	23.23	23.22
	QPSK		0	- C 1	22.56	21.22	22.38
	C. S	12	6	1	22.51	21.73	22.30
	7.0	(0)	11	1	22.45	22.05	22.32
EMILL-		25	0	1 9	22.50	21.89	22.88
5MHz	(8)		0	1	22.61	21.66	22.58
	a.C	1	12	1	22.43	21.97	22.56
		60	24	1 ®	22.40	21.99	22.47
	16QAM		0	2	21.53	20.72	21.44
	a.C	12	6	2	21.53	20.63	21.43
	9 . 6	G	11	2	21.45	21.04	21.44
		25	0	_ 2	21.56	20.83	21.27
Bandwidth	Modulation	RB size	RB	Target MPR	Channel	Channel	Channel
Danuwiutii	Woddiation	ND SIZE	offset	Target WFK	20450	20525	20600
			0	0 @	23.22	22.78	23.28
	⊗	1	24	0	22.73	22.87	23.61
	z.C	8	49	0	23.16	23.54	23.47
	QPSK	60	0	1 🔞	21.80	21.73	22.45
		25	12	1	21.78	21.74	22.37
	a.C	0	25	1	21.72	22.19	22.48
10MHz		50	0	1	21.78	21.95	22.35
TUIVITIZ		- C	0	1	22.07	21.69	22.20
	6	1	24	1	21.67	21.68	22.06
	7.0		49	1	22.05	22.32	22.36
	16QAM	a.C	0	2	20.82	20.71	21.46
		25	12	2	20.77	20.71	21.47
	0	·	25	2	20.82	21.18	21.47
		50	0	2	20.81	20.91	21.45



Page 48 of 132

			RB	Target	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	MPR	20775	21100	21425
			0	0	22.55	22.54	21.88
	-0	1	12	0	22.24	22.19	21.85
		-,C	24	0	22.39	22.53	21.49
	QPSK		0	. 1	21.81	21.70	20.74
		12	6	1	21.73	21.77	20.99
			13	1	21.82	21.51	20.93
<b>53411</b>		25	0	1	21.77	21.53	20.92
5MHz	© (S)		0	1	21.68	21.78	20.61
	′ a.G	1	12	1	21.58	21.56	20.39
		- GO	24	1 @	21.67	21.72	20.53
	16QAM		0	2	20.75	20.39	21.31
	-0	12	6	2	20.87	20.80	21.78
		-,C	13	_ 2	20.49	20.59	20.60
		25	0	2	20.23	20.60	21.27
Donalusialth	Madulation	RB size	RB offset	Target _ MPR	Channel	Channel	Channel
Bandwidth	Modulation				20800	21100	21400
		\ C)	0	0	22.91	22.55	22.10
	© ©	1	24	0	22.64	22.21	21.80
	2.G	8	49	0	23.17	22.09	21.15
	QPSK	.60	0	1 💿	21.78	21.34	20.80
	0	25	12	1	21.75	21.62	20.81
	-0	(®)	25	1	21.94	21.67	20.78
10MU=	SO .	50	0	1	21.88	21.69	20.79
10MHz			0	1	22.36	21.78	21.27
		0 1	24	1	21.84	21.32	20.89
	) (		49	1	22.24	21.45	20.62
	16QAM		0	2	20.71	20.71	19.98
	3	25	12	2	20.71	20.74	20.92
	8	®	25	2	20.92	20.71	21.80
	×60	50	0	2	20.82	20.66	20.84



Page 49 of 132

D 1 ' 141	Mar I ladian	DD -: -	RB	Target	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	offset	MPR	20825	21100	21375	
	®		0	0	23.41	23.28	22.31	
	a.C	1 9	37	0	23.55	23.05	22.70	
		GO	74	0	23.76	22.32	21.92	
	QPSK		0	_ 1	22.36	22.88	21.38	
	- C	37	16	1	22.65	22.57	21.66	
	0	C	35	1	22.90	22.51	21.33	
4EMU-		75	0	1	22.58	22.31	21.53	
15MHz			0	1	22.21	22.90	21.38	
	-C	1	37	1	22.63	22.57	21.74	
		~ GC	74	1	22.84	22.53	21.30	
	16QAM		0	2	22.33	22.92	21.44	
	C	37	16	2	22.66	22.56	21.73	
		60	35	2	22.87	22.57	21.29	
		75	0	2	21.59	21.26	20.48	
Bandwidth	Modulation	RB size	RB	Target	Channel	Channel	Channel	
Danuwiuin	Wodulation	KD SIZE	offset	MPR	20850	21100	21350	
			0	0	23.29	23.65	22.18	
		1	49	0	23.69	22.92	22.48	
	-C		99	0	23.74	23.18	22.13	
	QPSK	~ GC	0	1	22.41	22.33	21.41	
	0	50	25	1	22.38	22.36	21.42	
	- C	<u>®</u>	49	1	22.82	22.18	21.56	
20MHz		100	0	1	22.69	22.15	21.53	
ZUIVITZ			0	1	22.43	23.31	21.27	
	-6	<sub>®</sub> 1	49	1	22.66	22.69	21.61	
	0	G	99	1	22.70	22.93	21.57	
	16QAM		0	2	21.44	21.40	20.39	
		50	25	2	21.48	21.44	20.40	
		8	49	2	21.76	21.23	20.61	
		100	0	2	21.64	21.25	20.43	



Page 50 of 132

		Conducte	a Power c	of LTE Band 12(d	arm)		
Bandwidth	Modulation	RB size	RB	Target MPR	Channel	Channel	Channe
Danawiatii	Woddiation	ND SIZE	offset	rarget wir ix	23017	23095	23173
		8	0	0	22.92	22.69	24.01
	0	1	2	0	22.73	22.62	24.10
		- C	5	0	22.75	22.60	24.00
	QPSK		0	0	22.80	22.68	24.01
	-0	3	1	0	22.79	22.68	24.00
1.4MHz		60	2	0 💿	22.64	22.57	23.96
		6	0	1	21.73	21.82	23.01
1.4IVITZ	- 0	®	0	1	21.94	21.72	22.97
		_ 1	2	1	21.69	21.77	23.08
			5	1	21.75	21.59	23.00
	16QAM	8	0	1 (	21.63	21.51	22.83
	30	3	1	1	21.61	21.49	22.82
		. 6	2	1 💿	21.54	21.40	22.90
	0	6	0	2	20.77	20.79	22.08
Dondwidth	Modulation	DP oizo	RB	Torget MDD	Channel	Channel	Channe
Bandwidth	Modulation	RB size	offset	Target MPR	23025	23095	23165
			0	0	22.86	22.87	22.87
	- 6	1	7	0	22.80	22.76	22.93
		C	14	0	22.80	22.84	22.81
	QPSK		0	1	21.83	21.77	21.79
	8	8	4	1	21.85	21.79	21.80
	0		7	1	21.91	21.75	21.81
0MII-		15	0	® 1	21.87	21.84	21.85
3MHz	0		0	1 1	21.78	21.39	21.71
	7 - 6	1	7	1	21.88	21.63	21.86
		40	14	1	21.87	21.52	21.44
	16QAM		0	2	20.87	20.41	20.83
	©	8	4	2	20.80	20.75	20.84
	-00	88	7	2	20.90	20.69	20.25
		15	0	2	20.38	20.28	20.61



Page 51 of 132

Conducted Power of LTE Band 12(dBm)  RB Channel Channel Channel									
Bandwidth	Modulation	RB size		Target MPR					
			offset		23035	23095	23155		
	@		0	0	22.97	22.92	22.54		
	a.C	1	12	0	22.93	22.89	22.39		
	V .C		24	0	22.82	22.75	22.37		
	QPSK		0	- G 1	21.44	21.88	21.86		
		12	6	1,6	21.92	21.87	21.87		
	- 60	8	13	. 1	21.90	21.83	21.85		
5MHz		25	0	1 8	21.87	21.89	21.86		
SIVITIZ	· · · · · · · · · · · · · · · · · · ·		0	1	21.81	21.87	21.85		
	c.C	1	12	1	21.79	21.75	21.79		
		60	24	10	21.88	21.81	21.85		
	16QAM		0	2	20.91	20.91	20.91		
	a.C	12	6	2	20.89	20.91	20.93		
	0	O	13	2	20.87	20.88	20.86		
		25	0	_ 2	20.87	20.83	20.93		
Bandwidth	Modulation	RB size	RB Target MPR	Target MDD	Channel	Channel	Channel		
Danuwiutii				23060	23095	23130			
			0	0 @	23.06	23.12	23.13		
	®	1	25	0	22.77	22.78	22.77		
	a.C	®	49	0	22.89	22.87	22.86		
	QPSK	60	0	1	22.02	21.99	21.94		
		25	13	1	22.03	21.89	21.10		
	- C	8	25	1	21.91	21.88	21.81		
40MU=	0	50	0	1	21.89	21.78	21.82		
10MHz			0	1	22.14	22.06	21.35		
	0	1	25	1	21.85	21.55	21.59		
	20		49	1	21.96	21.71	21.55		
	16QAM	-C	0	2	21.93	20.91	20.69		
		25	13	2	20.94	20.32	20.79		
	0	®	25	2	20.89	20.91	20.38		
	.60	50	0	2	20.88	20.71	20.91		



Report No.: AGC10849211104FH01 Page 52 of 132

		Conducte	a Power o	of LTE Band 17(d	arm)		
Bandwidth	Modulation	RB size	RB	Target MPR	Channel	Channel	Channe
Banawiath	Woddiation	ND 3126	offset	rarget wir ix	23755	23790	23825
		8	0	0	23.17	22.41	22.67
	0 20	1	12	0	23.01	22.45	22.77
		- C	24	0	22.20	21.46	21.69
	QPSK		0	1- C	22.30	22.78	22.04
	-0	12	6	1	22.47	22.83	22.04
		60	13	1 🔞	22.36	22.79	22.01
EMU-		25	0	1	22.40	22.69	21.74
5MHz	- 0	@	0	1	21.84	22.16	22.11
		_ 1	12	1	21.88	22.01	22.13
			24	_ ( 1	22.28	22.00	22.03
	16QAM	8	0	2	21.11	21.08	21.15
	30	12	6	2	21.11	21.08	21.14
		. 6	13	2	21.14	21.05	21.09
	© @	25	0	2	21.00	21.05	21.04
Bandwidth	Modulation	RB size	RB	Torget MDD	Channel	Channel	Channe
Danuwium	Wodulation	KD SIZE	offset	Target MPR	23780	23790	23800
			0	0	23.41	23.37	23.40
	- 6	1	24	0	23.25	23.02	23.02
		C	49	0	23.36	23.11	23.11
	QPSK		0	1	22.29	22.22	22.17
	8	25	12	1	22.27	22.18	22.15
	0		25	1	22.08	22.08	22.10
40001-		50	0	® 1	22.17	22.15	22.06
10MHz	8		0	1 1	22.37	22.31	22.58
	7	1	24	10	22.19	21.87	21.80
		-6	49	1	22.31	22.31	21.47
	16QAM		0	2	21.22	21.19	21.52
	@	25	12	2	21.25	21.24	21.23
	- 60	8	25	2	21.05	21.20	21.41
		50	0	2	21.14	21.01	21.22



Page 53 of 132

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	- 6	Maximum P	ower Reduct	ion (MPR) for	Power[RB]	0	MPR(dB)
Modulation	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	WPK(UD)
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



Page 54 of 132

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 <sub>RB</sub> )	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	
®			3	>5	≤ 1	
	@	2.4.40.22	5	>6	≤ 1	
NS_03	6.6.2.2.3.1	2,4,10, 23,	10	>6	≤ 1	
	7.0	25,35,36	15	>8	≤1	
		7.0	20	>10	≤ 1	
NC 04	000000	44	5	>6	≤1	
NS_04 6.6.2.2.3.2		41	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	
	0.0.0.0.0			> 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	
NC 15	66330	26	1 1 2 5 10 15	Table 6.2.4.3-9	Table 6.2.4.3-9,	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-10	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.	Table 6.2.4.3-12, 2.4.3-13	
NO 47	6.6.3.3.10	28	5, 10	Table 5.4.2-1	N/A	
NS_17	6.6.3.3.11	28	5	≥2	≤ 1	
NS_18	6		10, 15, 20	≥ 1	≤ 4	
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15	
NS_20	0		5, 10, 15, 20	Table 6.2.4.3-14		
	8		20	(6)		
					NV T	



Page 55 of 132

#### WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
	30 - 6	01	2412	13.41
802.11b	1	06	2437	14.05
		11	2462	12.55
6	@	01	2412	12.33
802.11g	6	06	2437	12.73
8		11	2462	Power(dBm 13.41 14.05 12.55 12.33
<u></u> ®		01	2412	12.25
802.11n(20)	6.5	06	2437	12.51
	GU C	11	2462	11.12

Bluetooth\_V4.2(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
	0	2402	3.785
GFSK	39	2441	4.591
CO C	78	2480	3.896
	0	2402	3.698
π /4-DQPSK	39	2441	4.498
	78	2480	(dBm) 3.785 4.591 3.896 3.698 4.498 3.801 4.099 4.954
-6	0	2402	4.099
8-DPSK	39	2441	4.954
	78	2480	4.252

Bluetooth\_V4.2(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
8	0	2402	-2.512
GFSK 1M	19	2440	-0.396
	39	2480	-1.249

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Page 56 of 132

#### 5GHz WIFI

<b>5GHz WIF</b>						<u> </u>				
							r(dBm)			
Mode	channel	Frequency				Data Ra	ate(bps)		,	
			6M	9M	12M	18M	24M	36M	48M	54M
	36	5180	14.62	14.45	14.40	14.32	14.16	14.07	13.97	13.86
	40	5200	14.99	14.87	14.73	14.68	14.56	14.47	14.35	14.26
	44	5220	14.65	14.54	14.37	14.35	14.23	14.08	13.94	13.90
802.11a	48	5240	14.51	14.31	14.24	14.14	14.07	13.98	13.82	13.74
	149	5745	14.81	14.72	14.58	14.42	14.37	14.26	14.16	14.09
	157	5785	15.70	15.66	15.48	15.36	15.24	15.18	15.05	14.96
	165	5825	14.24	14.05	14.00	13.95	13.77	13.65	13.53	13.48
8			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
5	36	5180	14.85	14.70	14.67	14.58	14.39	14.36	14.18	14.09
	40	5200	14.12	13.99	13.85	13.85	13.69	13.65	13.43	13.35
802.11n	44	5220	13.79	13.69	13.52	13.44	13.37	13.27	13.11	13.02
(20)	48	5240	13.69	13.57	13.48	13.31	13.25	13.14	13.06	12.98
	149	5745	13.91	13.82	13.65	13.55	13.47	13.32	13.24	13.15
	157	5785	14.72	14.62	14.50	14.32	14.26	14.21	14.04	13.94
	165	5825	13.12	12.96	12.88	12.76	12.65	12.55	12.47	12.31
8	(0)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	38	5190	13.70	13.55	13.48	13.35	13.24	13.17	13.03	12.97
802.11n	46	5230	13.73	13.60	13.47	13.44	13.30	13.24	13.04	13.04
(40)	151	5755	15.37	15.27	15.09	15.02	14.95	14.86	14.69	14.68
	159	5795	15.64	15.52	15.37	15.30	15.20	15.11	15.01	14.89
. 6			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
	36	5180	11.70	11.55	11.48	11.39	11.28	11.16	11.05	10.94
	40	5200	11.93	11.80	11.67	11.61	11.55	11.47	11.22	11.20
	44	5220	11.74	11.64	11.46	11.39	11.34	11.14	11.01	10.99
802.11ac (20)	48	5240	11.63	11.51	11.36	11.29	11.11	11.15	11.04	10.86
(20)	149	5745	12.65	12.56	12.42	12.29	12.27	12.19	11.98	11.93
	157	5785	13.41	13.31	13.19	13.04	12.92	12.85	12.72	12.67
	165	5825	12.17	12.01	11.93	11.84	11.76	11.51	11.56	11.41
		-C	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
8	38	5190	14.09	13.92	13.87	13.72	13.63	13.54	13.42	13.33
802.11ac	46	5230	14.14	14.08	13.88	13.85	13.71	13.62	13.45	13.41
(40)	151	5755	11.66	11.54	11.38	11.34	11.24	11.09	10.98	10.91
	159	5795	11.91	11.76	11.64	11.56	11.47	11.38	11.28	11.14
		· (d	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac	42	5210	12.35	12.20	12.12	12.04	11.89	11.84	11.68	11.59
(80)	155	5775	13.36	13.23	13.15	13.04	12.93	12.85	12.67	12.63



Page 57 of 132

# 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  $\geq 0.8$ 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 ≤1.2W/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.)  $\times$  [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.
- 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.



Page 58 of 132

- 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.

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Page 59 of 132

Inspection
The test results

ne test report.

# 13.1.3. Test Result

SAR MEASURE	MENT								
Depth of Liquid (d	cm):>15			Relative I	Humidity (%	5): 54.2			
Product: Brama L	. V2								
Test Mode: GSM	850 with GMSK n	nodulatio	n						
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						0			
Body back	voice	190	836.6	0.12	0.478	31.30	31.23	0.486	1.6
Body front	voice	190	836.6	0.02	0.552	31.30	31.23	0.561	© 1.6
				8					G
Body back	GPRS-2 slot	190	836.6	-0.10	0.555	31.20	30.22	0.695	1.6
Body front	GPRS-2 slot	190	836.6	-0.09	0.587	31.20	30.22	0.736	1.6
Edge 1 (Top)	GPRS-2 slot	190	836.6	-0.13	0.046	31.20	30.22	0.058	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	0.13	0.489	31.20	30.22	0.613	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	-0.13	0.149	31.20	30.22	0.187	1.6

Note:

SAR MEASUREMENT

<sup>•</sup>The test separation for body back, body front and 4 Edges is 5mm of all above table.

· · · · · · · · · · · · · · · · · · ·												
Depth of Liquid (d	cm):>15			Relative Humidity (%): 56.4								
Product: Brama L	_ V2											
Test Mode: PCS1	1900 with GMSK	modulati	ion									
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			~ 0									
Body back	voice	661	1880.0	-0.08	0.556	28.70	28.60	0.569	1.6			
Body front	voice	661	1880.0	-0.01	0.371	28.70	28.60	0.380	1.6			
			C		0							
Body back	GPRS-3 slot	512	1850.2	-0.15	0.778	24.80	24.58	0.818	1.6			
Body back	GPRS-3 slot	661	1880.0	-0.12	0.816	24.80	24.78	0.820	1.6			
Body back	GPRS-3 slot	810	1909.8	-0.14	0.784	24.80	24.55	0.830	1.6			
Body front	GPRS-3 slot	661	1880.0	-0.02	0.545	24.80	24.78	0.548	1.6			
Edge 1 (Top)	GPRS-3 slot	661	1880.0	0.12	0.187	24.80	24.78	0.188	1.6			
Edge 2(Right)	GPRS-3 slot	661	1880.0	-0.15	0.066	24.80	24.78	0.066	1.6			
Edge 3(Bottom)	GPRS-3 slot	661	1880.0	-0.17	0.502	24.80	24.78	0.504	1.6			
Note:				(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.

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<sup>•</sup> When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.



Page 60 of 132

Inspection he test results

### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 56.4

Product: Brama L V2

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	9262	1852.4	-0.12	0.787	22.10	21.98	0.809	1.6
Body back	RMC 12.2kbps	9400	1880	-0.17	0.892	22.10	22.09	0.894	1.6
Body back	RMC 12.2kbps	9538	1907.6	-0.07	0.811	22.10	21.96	0.838	1.6
Body front	RMC 12.2kbps	9400	1880	0.06	0.461	22.10	22.09	0.462	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-0.16	0.206	22.10	22.09	0.206	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.09	0.067	22.10	22.09	0.067	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.16	0.586	22.10	22.09	0.587	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 (%): 53.9
Product: Brama L V2	
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	0.09	0.625	23.70	23.03	0.729	1.6
Body front	RMC 12.2kbps	8662	1732.4	0.11	0.609	23.70	23.03	0.711	1.6
Edge 1 (Top)	RMC 12.2kbps	8662	1732.4	0.11	0.055	23.70	23.03	0.064	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	-0.12	0.090	23.70	23.03	0.105	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.4	-0.16	0.225	23.70	23.03	0.263	1.6

#### Note

- When the 1-g Reported SAR is  $\leq$  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.



Page 61 of 132

Inspection he test results

ne test report.

### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 54.2

Product: Brama L V2

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	-0.15	1.160	23.00	22.91	1.184	1.6
Body back	RMC 12.2kbps	4183	836.6	-0.03	1.020	23.10	23.07	1.027	1.6
Body back	RMC 12.2kbps	4233	846.6	0.01	1.000	23.10	23.06	1.009	1.6
Body front	RMC 12.2kbps	4132	826.4	0.07	0.935	23.00	22.91	0.955	0 1.6
Body front	RMC 12.2kbps	4183	836.6	0.05	0.972	23.10	23.07	0.979	1.6
Body front	RMC 12.2kbps	4233	846.6	0.07	0.941	23.10	23.06	0.950	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.6	0.18	0.086	23.10	23.07	0.087	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	<sub>o</sub> -0.11	0.468	23.10	23.07	0.471	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	0.12	0.400	23.10	23.07	0.403	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 (%): 56.4	
Product: Brama L V2		
Toot Mode: LTE Rand 2		

ВМ		Docition	Test	Mode	Ch.	Freq.	Power Drift	SAR	Max. Tune	Meas.	Scaled	Limit
MHz	MOD	Position	UL RB Allocation	UL RB Allocation		(MHz)	(<±0.2 dB)	(1g) (W/kg)	up Power (dBm)	Power (dBm)	SAR (W/kg)	(W/kg)
		Body back	1	0	18900	1880	0.13	0.580	23.10	22.86	0.613	1.6
	QPSK	Body front	1	0	18900	1880	-0.12	0.579	23.10	22.86	0.612	1.6
20		Edge 1 (Top)	1	0	18900	1880	0.13	0.103	23.10	22.86	0.109	1.6
		Edge 2(Right)	1	0	18900	1880	-0.17	0.069	23.10	22.86	0.073	1.6
	3	Edge 3(Bottom)	1	0	18900	1880	0.15	0.464	23.10	22.86	0.490	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.



Page 62 of 132

Inspection he test results

ne test report.

### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 53.9

Product: Brama L V2

Test Mode: LTE Band 4

BM MHz	MOD	Position	Test Mode  UL RB UL RB Allocation START		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneu p Power	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			711100011011	017(1			,		(dBm)	(,		
		Body back	1	0	20050	1720	-0.18	0.992	23.10	23.08	0.997	1.6
	QPSK	Body back	1	0	20175	1732.5	-0.07	1.070	22.30	22.01	1.144	1.6
		Body back	® 1	0	20300	1745	0.02	0.917	22.30	22.26	0.925	1.6
20		Body front	1	0	20175	1732.5	0.13	0.723	22.30	22.01	0.773	<sup>®</sup> 1.6
®		Edge 1 (Top)	1	0	20175	1732.5	-0.12	0.022	22.30	22.01	0.024	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.05	0.057	22.30	22.01	0.061	1.6
		Edge 3(Bottom)	1 😞	0	20175	1732.5	-0.11	0.346	22.30	22.01	0.370	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 (%): 54.2	
Product: Brama L V2		

Test Mode: LTE Band 5

вм			Tes	t Mode		Freq. (MHz)	Power Drift	SAR (1g)	Max. Tuneup	Meas.	Scaled	Limit
MHz	MOD	Position	UL RB Allocati on	UL RB START	Ch.		(<±0.2 dB)	(W/kg)	Power (dBm)	Power (dBm)	SAR (W/kg)	(W/kg)
		Body back	<u> </u>	0	20525	836.5	-0.09	0.672	22.80	22.78	0.675	1.6
10 QPSK		Body front	1	0	20525	836.5	-0.02	0.589	22.80	22.78	0.592	1.6
	QPSK	Edge 1 (Top)	1	0	20525	836.5	0.13	0.024	22.80	22.78	0.024	1.6
	QP5K	Edge 2(Right)	1	0	20525	836.5	-0.04	0.357	22.80	22.78	0.359	1.6
		Edge 3(Bottom)	1	0	20525	836.5	0.17	0.062	22.80	22.78	0.062	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.



Page 63 of 132

SARI	MEASUR	REMENT										
Depth	of Liquid	d (cm):>15			Relative	Humidity (	%): 43.5					
Produ	ct: Bram	a L V2										
Test N	/lode: LT	E Band 7										
ВМ	MOD	Position	Test Me	ode	Ch.	Freq.	Power Drift	SAR (1g)	Max. Tuneup	Meas. output	Scaled SAR	Limit
MHz	MOD	rosition	UL RB Allocation	UL RB START	OII.	(MHz)	(<±0.2 dB)	(1g) (W/kg)	Power (dBm)	Power (dBm)	(W/kg)	(W/kg)
		Body back	1	0	20850	2510	-0.11	0.883	23.30	23.29	0.885	1.6
	Ð	Body back	1	0	21100	2535	-0.10	1.040	23.70	23.65	1.052	1.6
	1	Body back	1	0	21350	2560	-0.13	0.965	22.20	22.18	0.969	1.6
		Body front	1	0	21100	2535	0.18	0.618	23.70	23.65	0.625	<sub>©</sub> 1.6
20	QPSK	Edge 1 (Top)	1	0	21100	2535	-0.09	0.022	23.70	23.65	0.022	1.6
		Edge	1	0	21100	2535	-0.10	0.151	23.70	23.65	0.153	1.6

2535

0.09

0.421

23.70

23.65

0.426

Inspection he test results

1.6

## Note:

Edge

3(Bottom)

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

21100

The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR	MEASUR	REMENT										
Depth	of Liquid	d (cm):>15			Relative	Humidity (	%): 56.1					
Produ	ıct: Bram	a L V2										
Test N	Mode: LT	E Band 12										
вм			Test M	ode		Freq.	Power Drift	SAR	Max. Tuneup	Meas. output	Scaled	Limit
MHz	MOD	Position	UL RB Allocation	UL RB START	Ch.	(MHz)	(<±0.2 dB)	(1g) (W/kg)	Power (dBm)	Power (dBm)	SAR (W/kg)	(W/kg)
		Body back	<sup>®</sup> 1	0	23095	707.5	-0.10	0.559	23.20	23.12	0.569	1.6
		Body front	1	0	23095	707.5	-0.17	0.565	23.20	23.12	0.576	1.6
10	QPSK	Edge 1 (Top)	1	0	23095	707.5	-0.16	0.022	23.20	23.12	0.022	1.6
	C	Edge 2(Right)	1	0	23095	707.5	0.09	0.245	23.20	23.12	0.250	1.6
		Edge 3(Bottom)	1	0	23095	707.5	0.15	0.108	23.20	23.12	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.



Page 64 of 132

/Inspection

he test results

ne test report.

SAR I	MEASUR	EMENT										
Depth	of Liquic	l (cm):>15			Relative I	Humidity (%	%): 56.1					
Produ	Product: Brama L V2											
Test N	Test Mode: LTE Band 17											
BM	Test Mode  Test Mode											
MHz	MOD	Position	UL RB Allocation	UL RB START	Ch.	(MHz)	(<±0.2 dB)	(1g) (W/kg)	Power (dBm)	Power (dBm)	SAR (W/kg)	(W/kg)
	9	Body back	1	0	23790	710	0.08	0.691	23.50	23.37	0.712	1.6
-0		Body front	1	0	23790	710	-0.09	0.588	23.50	23.37	0.606	1.6
10	QPSK	Edge 1 (Top)	_1	0	23790	710	0.13	0.034	23.50	23.37	0.035	<sub>©</sub> 1.6
8		Edge 2(Right)	1	0	23790	710	0.17	0.244	23.50	23.37	0.251	1.6
C	-0	Edge 3(Bottom)	® 1	0	23790	710	0.14	0.191	23.50	23.37	0.197	1.6

#### Note:

**SAR MEASUREMENT** 

• 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.

Depth of Liquid (cr	m):>15			Relative H	Relative Humidity (%): 45.8							
Product: Brama L	V2											
Test Mode:802.11b												
Position Mode Ch. Fr. (MHz) Power Ct. (MHz) SAR (1g) (W/kg) Max. Tune-up Power (dBm) Power (dBm) Scaled SAR (W/kg) Ct. (W/kg)												
Body back	DTS	6	2437	0.03	0.164	14.10	14.05	0.166	1.6			
Body front	DTS	6	2437	-0.09	0.115	14.10	14.05	0.116	1.6			
Edge 3(Bottom)	DTS	6	2437	0.12	0.052	14.10	14.05	0.053	1.6			
Edge 4(Left)	DTS	6	2437	0.08	0.052	14.10	14.05	0.053	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.



Page 65 of 132

Inspection he test results

ne test report.

## **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 45.3

Product: Brama L V2

Test Mode: 5.2GHz WIFI (802.11a)

166. (1666. 6.26.1.2 1.11.)												
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	36	5180	0.17	0.253	15.00	14.62	0.276	1.6				
Body back	40	5200	-0.00	0.301	15.00	14.99	0.302	1.6				
Body back	48	5240	0.19	0.350	15.00	14.51	0.392	⊚ 1.6				
Body front	40	5200	0.09	0.082	15.00	14.99	0.082	1.6				
Edge 3(Bottom)	40	5200	0.10	0.043	15.00	14.99	0.043	1.6				
Edge 4(Left)	40	5200	0.09	0.220	15.00	14.99	0.221	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 (%): 46.9

Product: Brama L V2

Test Mode: 5.8GHz WIFI (802.11a)

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	149	5745	0.18	0.358	14.90	14.81	0.365	1.6
Body back	157	5785	0.16	0.325	15.70	15.70	0.325	1.6
Body back	165	5825	0.14	0.256	14.90	14.24	0.298	1.6
Body front	157	5785	0.04	0.077	15.70	15.70	0.077	1.6
Edge 3(Bottom)	157	5785	0.09	0.069	15.70	15.70	0.069	1.6
Edge 4(Left)	157	5785	-0.09	0.200	15.70	15.70	0.200	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.



Page 66 of 132

# Repeated SAR

Product: Brama L V2

Test Mode: PCS1900&WCDMA Band II& WCDMA Band V &LTE Band 4& LTE Band 7

Position	Mod	e	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-3 slot		661	1880.0	-0.12	0.815	<b>9</b>	-	-	-	1.6
Body back	RMC 12.2kbps		9400	1880	-0.18	0.889	-	-		<b>-</b>	1.6
Body back	RMC 12.2kbps		4132	826.4	-0.13	1.150	© <u>-</u>	-		- (	1.6
Position	Mode		Ch.	Fr.	Power Drift	Once SAR	Power Drift	Twice SAR	Power Drift	Third SAR	Limit
Position	UL RB Allocation	UL RB START	CII.	(MHz)	(<±5%)	(1g) (W/kg)	(<±5%)	(1g) (W/kg)	(<±5%)	(1g) (W/kg)	W/kg
Body back	1	0	20175	1732.5	0.10	1.060		-	-		1.6
Body back	1	© 0	21100	2535	0.13	0.893		-	© <b></b>	-	1.6

## The second repeated SAR judge reference

Product: Bra	ıma L V2								
Band	Position	Мос	Mode  GPRS-3 slot		Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
PCS1900	Body back	GPRS-3 slo	t	661	1880.0	0.816	0.815	1.001	<1.2
WCDMA Band II	Body back	RMC 12.2k	RMC 12.2kbps		1880	0.892	0.889	1.003	<1.2
WCDMA Band V	Body back	RMC 12.2k	RMC 12.2kbps		826.4	1.160	1.150	1.009	<1.2
Band	Position	UL RB Allocation	UL RB START	Ch.	Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
LTE Band 4	Body back	1	0	20175	1732.5	1.070	1.060	1.009	<1.2
LTE Band 7	Body back	1	0	21100	2535	1.040	0.893	1.165	<1.2



Page 67 of 132

he test results

# **Simultaneous Multi-band Transmission Evaluation:**

**Application Simultaneous Transmission information:** 

NO	Simultaneous state	Portable Ha	andset
NO	Simulaneous state	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz&5GHz (data)	Yes	- 0
2	GSM(voice)+ Bluetooth(data)	Yes	- 10
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  $\leq$  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)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR<sup>30</sup>, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- 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  $\leq$  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)]·[ $\sqrt{f(GHz)/x}$ ] W/kg for test separation distances  $\leq$  50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the coedicated resistant is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter perhorization of AGF presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Page 68 of 132

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.

Estimat	ed SAR		luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)	
		dBm	mW	Distance (IIIII)		
<b>BT</b> Body		5	3.16	5	0.132	



Page 69 of 132

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

DE Exposuro	Test	Simultane	eous Transmissio	n Scenario	Σ1-g SAR	SPLSR
RF Exposure Conditions	Position	GSM 850	2.4GHz WI-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Воог	0.486	0.166		0.652	No
Body-worn	Rear	0.486		0.132	0.618	No
(voice)	Cront	0.561	0.116		0.677	No
	Front	0.561		0.132	0.693	No
0	Rear	0.695		0.132	0.827	No
.C		0.695	0.166		0.861	No
Body-worn	Frank	0.736		0.132	0.868	No
(Data)	Front	0.736	0.116		0.852	No
8	Edge 3	0.187	0.053		0.240	No
	Edge 3	0.187		0.132	0.319	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"

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

RF Exposure	Test	Simultane	eous Transmissio	on Scenario	Σ1-g SAR	SPLSR
Conditions	Position	PCS 1900	2.4GHz WI-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.569	0.166		0.735	No
Body-worn	Real	0.569		0.132	0.701	No
(voice)	Frant	0.380	0.116		0.496	No
	Front	0.380		0.132	0.512	No
	Door	0.830		0.132	0.962	No
8	Rear	0.830	0.166		0.996	No
Body-worn	Frant	0.548		0.132	0.680	No
(Data)	Front	0.548	0.116		0.664	No
	Edge 3	0.504	0.053		0.557	No
	Edge 3	0.504		0.132	0.636	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 "



Page 70 of 132

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

RF Exposure	Test	Simultaneo	ous Transmission	Σ1-g SAR	SPLSR	
Conditions	Position	WCDMA Band II	2.4GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.894	0.166		1.060	No
	Front	0.462	0.116		0.578	No
Dedu were	Edge 3	0.587	0.053		0.640	No
Body-worn	Rear	0.894		0.132	1.026	No
8	Front	0.462		0.132	0.594	No
-C	Edge 3	0.587		0.132	0.719	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"

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

RF Exposure Conditions	Test	Simultaneo	Simultaneous Transmission Scenario			SPLSR
	Position	WCDMA Band IV	2.4GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.729	0.166		0.895	No
	Front	0.711	0.116		0.827	No
Bedy warn	Edge 3	0.263	0.053		0.316	No
Body-worn	Rear	0.729		0.132	0.861	No
8	Front	0.711		0.132	0.843	No
	Edge 3	0.263		0.132	0.395	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 "



Page 71 of 132

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

RF Exposure Conditions	Test Position	Simultaneo	Simultaneous Transmission Scenario			SPLSR
		WCDMA Band V	2.4GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	1.184	0.166		1.350	No
	Front	0.979	0.116		1.095	No
Dedu were	Edge 3	0.403	0.053		0.456	No
Body-worn	Rear	1.184		0.132	1.316	No
	Front	0.979		0.132	1.111	No
	Edge 3	0.403		0.132	0.535	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"

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

RF Exposure Conditions	Test	Simultane	Simultaneous Transmission Scenario			SPLSR
	Position	LTE Band 2	2.4GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.613	0.166		0.779	No
®	Front	0.612	0.116		0.728	No
Dady warm	Edge 3	0.490	0.053		0.543	No
Body-worn	Rear	0.613		0.132	0.745	No
	Front	0.612		0.132	0.744	No
	Edge 3	0.490		0.132	0.622	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"



Page 72 of 132

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

RF Exposure Conditions	Test Position	Simultane	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 4	2.4GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	1.144	0.166		1.310	No
	Front	0.773	0.116		0.889	No
Pody worn	Edge 3	0.370	0.053		0.423	No
Body-worn	Rear	1.144		0.132	1.276	No
	Front	0.773		0.132	0.905	No
	Edge 3	0.370		0.132	0.502	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"

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

RF Exposure Conditions	Test Position	Simultane	Simultaneous Transmission Scenario			SPLSR
		LTE Band 5	2.4GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.675	0.166		0.841	No
®	Front	0.592	0.116		0.708	No
Dady was	Edge 3	0.062	0.053		0.115	No
Body-worn	Rear	0.675		0.132	0.807	No
6	Front	0.592		0.132	0.724	No
	Edge 3	0.062		0.132	0.194	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 "



Page 73 of 132

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

RF Exposure Conditions	Test Position	Simultane	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 7	2.4GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	1.052	0.166		1.218	No
	Front	0.625	0.116		0.741	No
Pody worn	Edge 3	0.426	0.053		0.479	No
Body-worn	Rear	1.052		0.132	1.184	No
	Front	0.625		0.132	0.757	No
	Edge 3	0.426		0.132	0.558	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"

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

RF Exposure Conditions	Test Position	Simultaneo	Simultaneous Transmission Scenario			SPLSR
		LTE Band 12	2.4GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.569	0.166		0.735	No
	Front	0.576	0.116		0.692	No
Dady warn	Edge 3	0.110	0.053		0.163	No
Body-worn	Rear	0.569		0.132	0.701	No
®	Front	0.576		0.132	0.708	No
	Edge 3	0.110		0.132	0.242	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 "



Page 74 of 132

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

RF Exposure Conditions	Test Position	Simultaneo	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 17	2.4GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.712	0.166		0.878	No
	Front	0.606	0.116		0.722	No
Pody worn	Edge 3	0.197	0.053		0.250	No
Body-worn	Rear	0.712		0.132	0.844	No
-0	Front	0.606		0.132	0.738	No
	Edge 3	0.197		0.132	0.329	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"

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

RF Exposure	Test	Simultane	eous Transmissio	n Scenario	Σ1-g SAR	SPLSR (Yes/No)
Conditions	Position	GSM 850	5.2GHz WI-Fi DTS Band	Bluetooth	(W/kg)	
	Вост	0.486	0.392		0.878	No
Body-worn	Rear	0.486		0.132	0.618	No
(voice)	Front	0.561	0.082		0.643	No
		0.561		0.132	0.693	No
	Rear	0.695		0.132	0.827	No
(0)		0.695	0.392		1.087	No
Body-worn	Eront	0.736		0.132	0.868	No
(Data)	Front	0.736	0.082		0.818	。 No
	Edge 3	0.187	0.043		0.230	No
	Edge 3	0.187		0.132	0.319	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 "



Page 75 of 132

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

DE Evpocuro	Test	Simultane	eous Transmissio	n Scenario	Σ1-g SAR	SPLSR
RF Exposure Conditions	Position	PCS 1900	5.2GHz WI-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Deer	0.569	0.392		0.961	No
Body-worn	Rear	0.569		0.132	0.701	No
(voice)	Front	0.380	0.082		0.462	No
		0.380		0.132	0.512	No
0	Rear	0.830		0.132	0.962	No
.C		0.830	0.392		1.222	No
Body-worn	Frank	0.548		0.132	0.680	No
(Data)	Front	0.548	0.082		0.630	No
	Edge 3	0.504	0.043		0.547	No
	Edge 3	0.504		0.132	0.636	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 "

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

RF Exposure Conditions	Test	Simultaneo	Simultaneous Transmission Scenario			SPLSR
	Position	WCDMA Band II	5.2GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
0	Rear	0.894	0.392		1.286	No
8	Front	0.462	0.082		0.544	No
<b>D.</b> J. C. C.	Edge 3	0.587	0.043		0.630	No
Body-worn	Rear	0.894	3	0.132	1.026	No
0	Front	0.462		0.132	0.594	No
	Edge 3	0.587		0.132	0.719	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 '



Page 76 of 132

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

RF Exposure Conditions	Test Position	Simultaneo	Simultaneous Transmission Scenario			SPLSR
		WCDMA Band IV	5.2GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.729	0.392		1.121	No
	Front	0.711	0.082		0.793	No
Dody worn	Edge 3	0.263	0.043		0.306	No
Body-worn	Rear	0.729		0.132	0.861	No
-0	Front	0.711		0.132	0.843	No
	Edge 3	0.263		0.132	0.395	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"

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

RF Exposure Conditions	Test	Simultaneo	ous Transmission	Scenario	Σ1-g SAR	SPLSR (Yes/No)
	Position	WCDMA Band V	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	
	Rear	1.184	0.392		1.576	No
®	Front	0.979	0.082		1.061	No
Dadwara	Edge 3	0.403	0.043		0.446	No
Body-worn	Rear	1.184		0.132	1.316	No
8	Front	0.979		0.132	1.111	No
	Edge 3	0.403		0.132	0.535	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"



Page 77 of 132

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

RF Exposure Conditions	Test Position	Simultane	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 2	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.613	0.392		1.005	No
	Front	0.612	0.082		0.694	No
Pody worn	Edge 3	0.490	0.043		0.533	No
Body-worn	Rear	0.613		0.132	0.745	No
	Front	0.612		0.132	0.744	No
	Edge 3	0.490		0.132	0.622	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 "

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

RF Exposure Conditions	Test	Simultane	Simultaneous Transmission Scenario			SPLSR
	Position	LTE Band 4	5.2GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	1.144	0.392		1.536	No
8	Front	0.773	0.082		0.855	No
Dashuusawa	Edge 3	0.370	0.043		0.413	No
Body-worn	Rear	1.144		0.132	1.276	No
	Front	0.773		0.132	0.905	No
	Edge 3	0.370		0.132	0.502	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"



Page 78 of 132

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

RF Exposure Conditions	Test Position	Simultane	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 5	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.675	0.392		1.067	No
8	Front	0.592	0.082		0.674	No
Dadywara	Edge 3	0.062	0.043		0.105	No
Body-worn	Rear	0.675		0.132	0.807	No
®	Front	0.592		0.132	0.724	No
-C	Edge 3	0.062		0.132	0.194	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"

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

RF Exposure	Test	Simultane	ous Transmissio	n Scenario	Σ1-g SAR	SPLSR
Conditions	Position	LTE Band 7	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	1.052	0.392		1.444	No
®	Front	0.625	0.082		0.707	No
Dody worn	Edge 3	0.426	0.043		0.469	No
Body-worn	Rear	1.052		0.132	1.184	No
	Front	0.625		0.132	0.757	No
	Edge 3	0.426		0.132	0.558	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 "



Page 79 of 132

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

RF Exposure Conditions	Test	Simultaneo	ous Transmissio	Σ1-g SAR	SPLSR	
	Position	LTE Band 12	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.569	0.392		0.961	No
	Front	0.576	0.082		0.658	No
Pody worn	Edge 3	0.110	0.043		0.153	No
Body-worn	Rear	0.569		0.132	0.701	No
8	Front	0.576		0.132	0.708	No
-C	Edge 3	0.110		0.132	0.242	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

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

RF Exposure Conditions	Test Position	Simultaneo	ous Transmissio	Σ1-g SAR	SPLSR	
		LTE Band 17	5.2GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.712	0.392		1.104	No
	Front	0.606	0.082		0.688	No
Dody worn	Edge 3	0.197	0.043		0.240	No
Body-worn	Rear	0.712		0.132	0.844	No
	Front	0.606		0.132	0.738	No
	Edge 3	0.197		0.132	0.329	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 "



Page 80 of 132

Inspection

he test results

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

DE Exposuro	Test	Simultane	eous Transmissio	n Scenario	Σ1-g SAR	SPLSR (Yes/No)
RF Exposure Conditions	Position	GSM 850	5.8GHz WI-Fi DTS Band	Bluetooth	(W/kg)	
	Daar	0.486	0.365		0.851	No
Body-worn	Rear	0.486		0.132	0.618	No
(voice)	Front	0.561	0.077		0.638	No
		0.561		0.132	0.693	No
0	Rear	0.695		0.132	0.827	No
.C		0.695	0.365		1.060	No
Body-worn	Front	0.736		0.132	0.868	No
(Data)	Front	0.736	0.077		0.813	No
	Edge 3	0.187	0.069		0.256	No
	Edge 3	0.187		0.132	0.319	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"

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

RF Exposure	Test	Simultane	eous Transmissio	on Scenario	Σ1-g SAR	SPLSR
Conditions	Position	PCS 1900	5.8GHz WI-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.569	0.365		0.934	No
Body-worn	Real	0.569		0.132	0.701	No
(voice)	Front	0.380	0.077		0.457	No
		0.380		0.132	0.512	No
	Rear	0.830		0.132	0.962	No
8	Real	0.830	0.365		1.195	No
Body-worn	Front	0.548		0.132	0.680	No
(Data)	Front	0.548	0.077		0.625	No
	Edge 3	0.504	0.069		0.573	No
	Edge 3	0.504		0.132	0.636	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 "



Page 81 of 132

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

RF Exposure Conditions	Test Position	Simultaneo	Simultaneous Transmission Scenario			SPLSR
		WCDMA Band II	5.8GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	0.894	0.365		1.259	No
	Front	0.462	0.077		0.539	No
Dody worn	Edge 3	0.587	0.069		0.656	No
Body-worn	Rear	0.894		0.132	1.026	No
-0	Front	0.462		0.132	0.594	No
	Edge 3	0.587		0.132	0.719	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"

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

RF Exposure Conditions	Test	Simultaneo	ous Transmission	Scenario	Σ1-g SAR	SPLSR (Yes/No)
	Position	WCDMA Band IV	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	
	Rear	0.729	0.365		1.094	No
	Front	0.711	0.077		0.788	No
Dody worn	Edge 3	0.263	0.069		0.332	No
Body-worn	Rear	0.729		0.132	0.861	No
8	Front	0.711		0.132	0.843	No
	Edge 3	0.263		0.132	0.395	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 "



Page 82 of 132

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

RF Exposure Conditions	Test Position	Simultaneo	Simultaneous Transmission Scenario			SPLSR
		WCDMA Band V	5.8GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
	Rear	1.184	0.365		1.549	No
	Front	0.979	0.077		1.056	No
Dedy were	Edge 3	0.403	0.069		0.472	No
Body-worn	Rear	1.184		0.132	1.316	No
	Front	0.979		0.132	1.111	No
	Edge 3	0.403		0.132	0.535	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 "

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 2	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
Body-worn	Rear	0.613	0.365		0.978	No
	Front	0.612	0.077		0.689	No
	Edge 3	0.490	0.069		0.559	No
	Rear	0.613		0.132	0.745	No
	Front	0.612		0.132	0.744	No
	Edge 3	0.490		0.132	0.622	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"



Page 83 of 132

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 4	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
Body-worn	Rear	1.144	0.365		1.509	No
	Front	0.773	0.077		0.850	No
	Edge 3	0.370	0.069		0.439	No
	Rear	1.144		0.132	1.276	No
	Front	0.773		0.132	0.905	No
	Edge 3	0.370		0.132	0.502	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"

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 5	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
	Rear	0.675	0.365		1.040	No
Body-worn	Front	0.592	0.077		0.669	No
	Edge 3	0.062	0.069		0.131	No
	Rear	0.675		0.132	0.807	No
	Front	0.592		0.132	0.724	No
	Edge 3	0.062		0.132	0.194	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"



Page 84 of 132

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 7	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
Body-worn	Rear	1.052	0.365		1.417	No
	Front	0.625	0.077		0.702	No
	Edge 3	0.426	0.069		0.495	No
	Rear	1.052		0.132	1.184	No
	Front	0.625		0.132	0.757	No
	Edge 3	0.426		0.132	0.558	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"

#### Sum of the SAR for LTE Band 12 &5.8GHz Wi-Fi & RT-

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			71 a SAB	SPLSR
		LTE Band 12	5.8GHz Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/kg)	(Yes/No)
Body-worn	Rear	0.569	0.365		0.934	No
	Front	0.576	0.077		0.653	No
	Edge 3	0.110	0.069		0.179	No
	Rear	0.569		0.132	0.701	No
	Front	0.576		0.132	0.708	No
	Edge 3	0.110		0.132	0.242	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 "

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 17	5.8GHz Wi-Fi DTS Band	Bluetooth	(W/kg)	(Yes/No)
0	Rear	0.712	0.365		1.077	No
	Front	0.606	0.077		0.683	No
Dedu were	Edge 3	0.197	0.069		0.266	No
Body-worn	Rear	0.712		0.132	0.844	No
	Front	0.606		0.132	0.738	No
	Edge 3	0.197		0.132	0.329	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"



Page 85 of 132

#### APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Dec. 25, 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;  $\sigma = 0.90$  mho/m;  $\epsilon r = 42.61$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 20.8, Liquid temperature ( $^{\circ}$ C): 20.6

## **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)

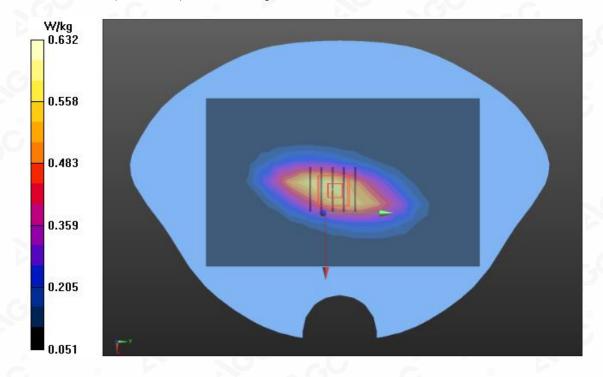
Configuration/System Check Head 750MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.628 W/kg

**Configuration/System Check Head** 750MHz**/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.354 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.327 W/kg Maximum value of SAR (measured) = 0.632 W/kg





Page 86 of 132

Date: Dec. 27, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 0.91$  mho/m;  $\epsilon r = 41.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):20.5, Liquid temperature (°C): 20.3

## **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)

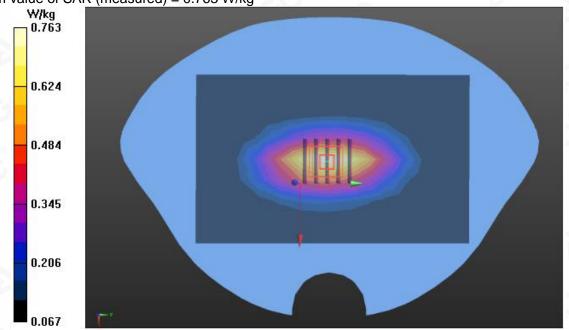
Configuration/System Check Head 835MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.754 W/kg

Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.739 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.926 W/kg

SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.396 W/kg Maximum value of SAR (measured) = 0.763 W/kg





Page 87 of 132

Date: Dec. 28, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 1.39$  mho/m;  $\epsilon r = 39.85$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 20.7, Liquid temperature ( $^{\circ}$ C): 20.5

## **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) = 2.83 W/kg

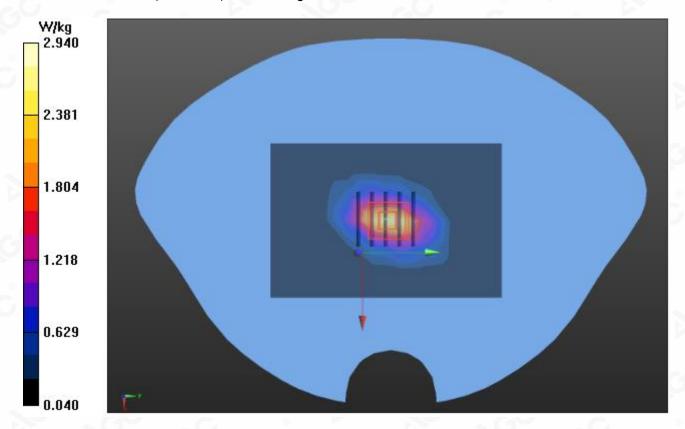
# Configuration/System Check Head 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 47.534 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.28 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.22 W/kg Maximum value of SAR (measured) = 2.94 W/kg





Page 88 of 132

Date: Dec. 29, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 1.41$  mho/m;  $\epsilon r = 39.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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 1900MHz/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 3.01 W/kg

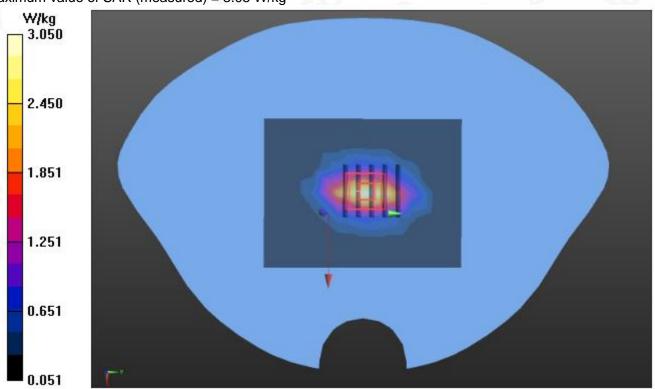
Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 47.437 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.42 W/kg

**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.23 W/kg** Maximum value of SAR (measured) = 3.05 W/kg





Page 89 of 132

Date: Dec. 20, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 1.76$  mho/m;  $\epsilon r = 38.61$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 21.4, Liquid temperature ( $^{\circ}$ C): 21.2

## **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)

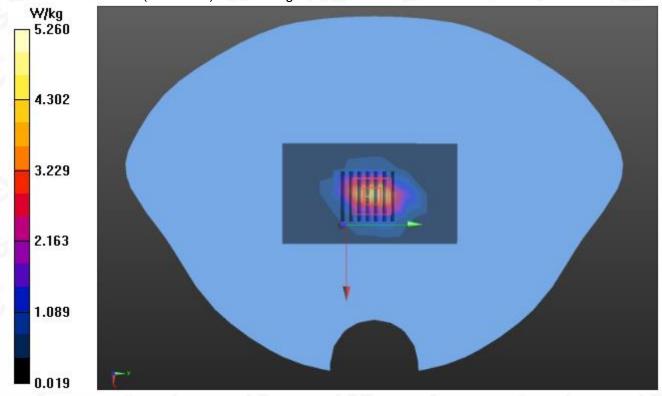
Configuration/System Check Head 2450Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.89 W/kg

Configuration/System Check Head 2450Hz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.426 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.36 W/kg

**SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.47 W/kg** Maximum value of SAR (measured) = 5.26 W/kg





Page 90 of 132

Date: Dec. 19, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 1.92$  mho/m;  $\epsilon r = 38.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 21.4, Liquid temperature ( $^{\circ}$ C): 21.2

## **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)

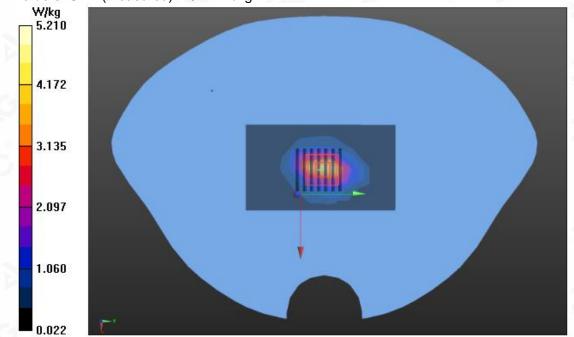
Configuration/System Check Head 2600Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 5.07 W/kg

Configuration/System Check Head 2600Hz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.604 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.12 W/kg

SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.52 W/kg Maximum value of SAR (measured) = 5.21 W/kg





Page 91 of 132

Date: Dec. 21, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 4.54$ mho/m;  $\epsilon r = 35.81$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=10dBm

Ambient temperature ( $^{\circ}$ C): 21.1, Liquid temperature ( $^{\circ}$ C): 20.9,

## **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, dv=10mm

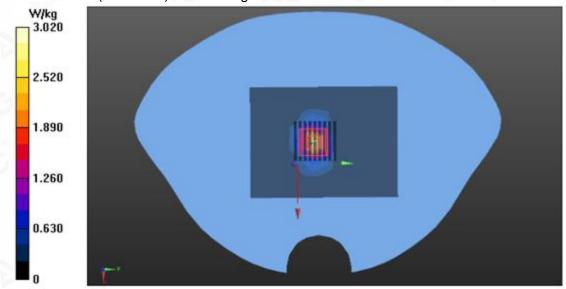
Maximum value of SAR (measured) = 2.74 W/kg

Configuration/1 2 2/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.635 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 5.76 W/kg

SAR(1 g) = 1.52 W/kg; SAR(10 g) = 0.537 W/kg Maximum value of SAR (measured) = 3.02 W/kg





Page 92 of 132

Date: Dec. 22, 2021

Test Laboratory: AGC Lab 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;  $\sigma = 5.32$  mho/m;  $\epsilon r = 35.71$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=10dBm

Ambient temperature ( $^{\circ}$ C): 20.8, Liquid temperature ( $^{\circ}$ C): 20.6,

## **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

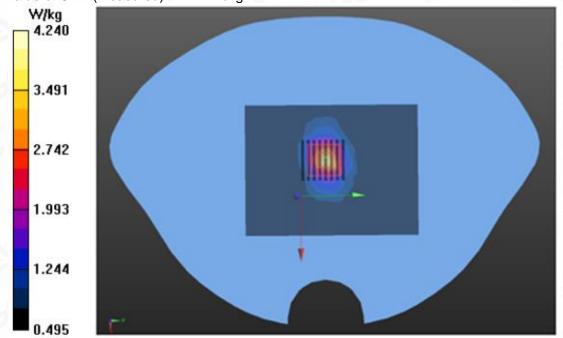
Maximum value of SAR (measured) = 4.17 W/kg

Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.935 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 6.99 W/kg

SAR(1 g) = 1.89 W/kg; SAR(10 g) = 0.637 W/kg Maximum value of SAR (measured) = 4.24 W/kg





Page 93 of 132

#### APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Dec. 27, 2021

GPRS 850 Mid-Body- Front (2up) < SIM 1> DUT: Brama L V2; Type: SoloProtect ID touch

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;  $\sigma = 0.92$  mho/m;  $\epsilon r = 40.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ ):20.5, Liquid temperature ( $^{\circ}$ ): 20.3

#### **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)

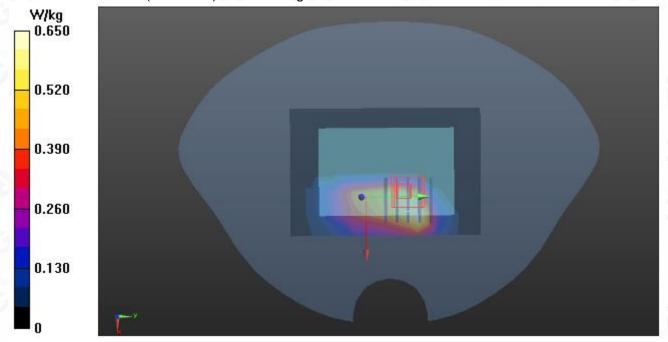
**Configuration/2ST-FRONT/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.705 W/kg

Configuration/2ST-FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

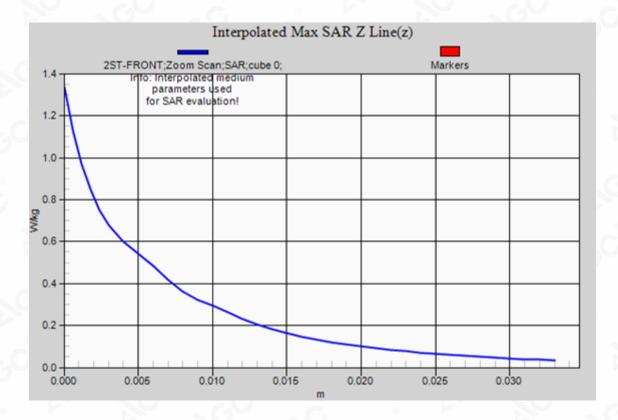
Reference Value = 22.901 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.587 W/kg; SAR(10 g) = 0.299 W/kg Maximum value of SAR (measured) = 0.650 W/kg









Page 95 of 132

Test Laboratory: AGC Lab Date: Dec. 29, 2021

GPRS 1900 Mid-Body- Back (3up) < SIM 1> DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.99$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

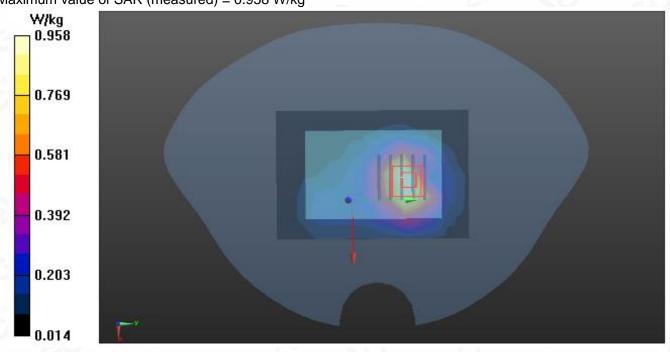
Configuration/3ST-BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.07 W/kg

Configuration/3ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

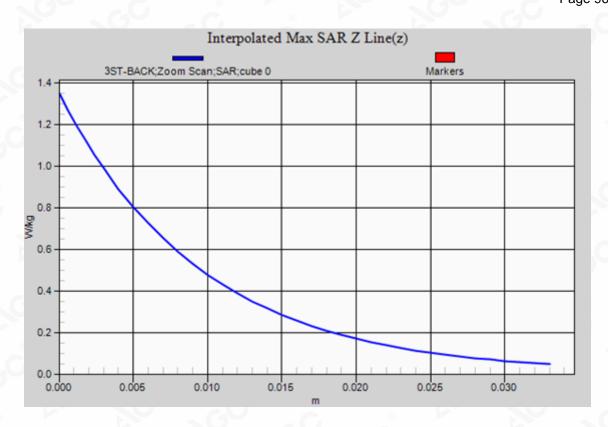
Reference Value = 16.610 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.470 W/kg Maximum value of SAR (measured) = 0.958 W/kg









Page 97 of 132

Test Laboratory: AGC Lab Date: Dec. 29, 2021

GPRS 1900 High-Body- Back (3up) < SIM 1> DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7;

Frequency: 1909.8 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.99$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

#### **DASY Configuration:**

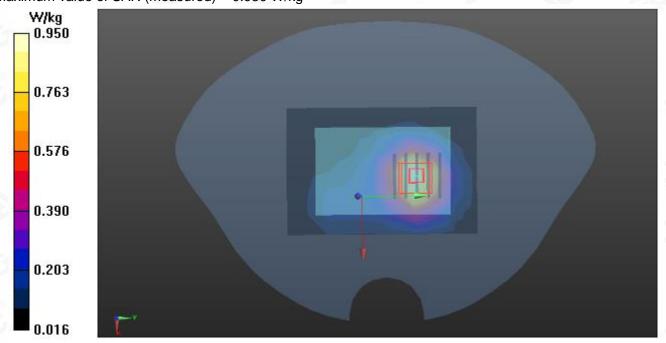
- Probe: EX3DV4 SN:3953; ConvF(8.26, 8.26, 8.26); Calibrated: Aug. 27,2021;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/3ST-BACK-H/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.00 W/kg

Configuration/3ST-BACK-H/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 16.388 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.452 W/kg Maximum value of SAR (measured) = 0.950 W/kg





Page 98 of 132

Test Laboratory: AGC Lab Date: Dec. 29, 2021

WCDMA Band II Mid -Body-Towards Grounds DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle:1:1;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.99$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

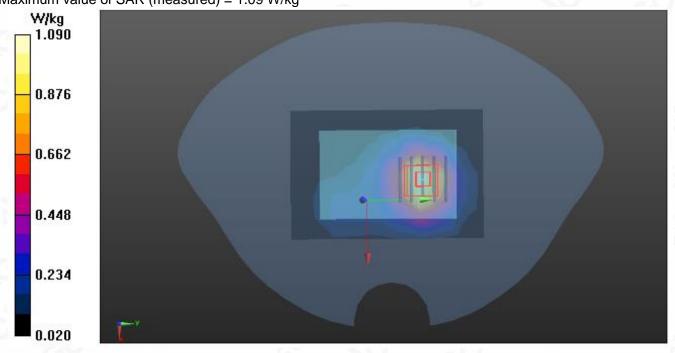
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.14 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

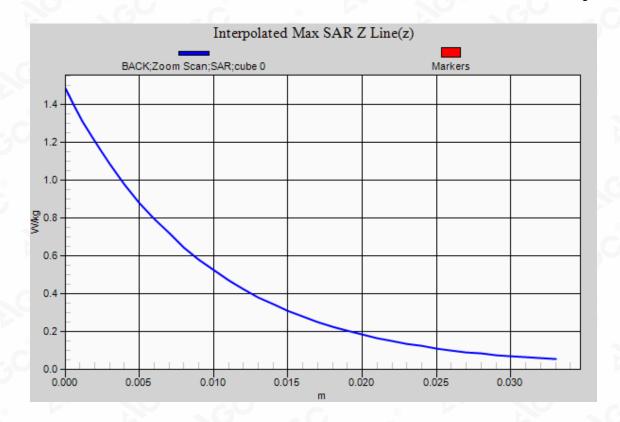
Reference Value = 17.177 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.512 W/kg Maximum value of SAR (measured) = 1.09 W/kg









Page 100 of 132

Test Laboratory: AGC Lab Date: Dec. 28, 2021

WCDMA Band IV Mid-Body-Towards Grounds DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1:1;

Frequency: 1732.4 MHz; Medium parameters used: f = 1800 MHz;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon = 40.46$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.7, Liquid temperature ( $^{\circ}$ C): 20.5

## **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)

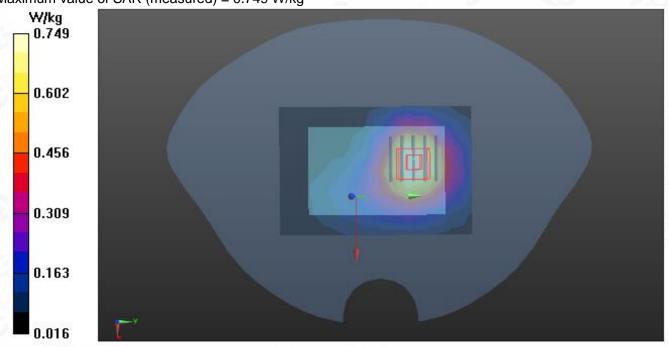
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.808 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

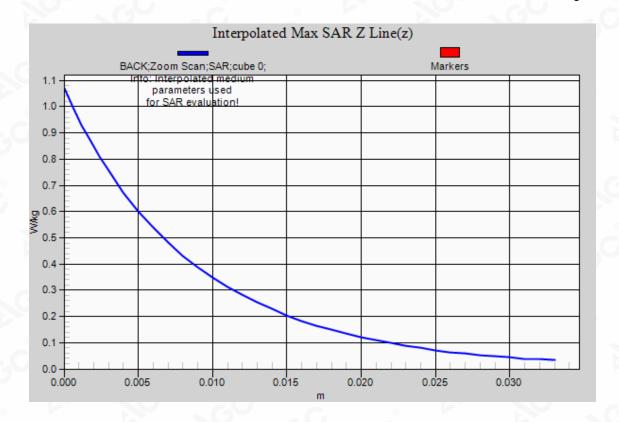
Reference Value = 15.889 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.368 W/kg** Maximum value of SAR (measured) = 0.749 W/kg









Page 102 of 132

Test Laboratory: AGC Lab Date: Dec. 27, 2021

WCDMA Band V Low-Body-Towards Grounds DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1; Frequency: 826.4 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon = 40.98$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **DASY Configuration:**

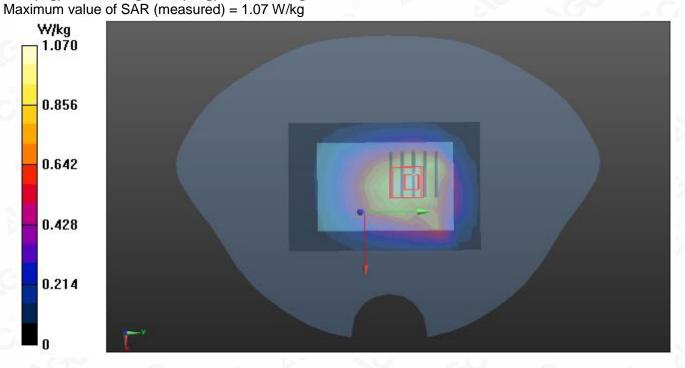
- Probe: EX3DV4 SN:3953; ConvF(10.01, 10.01, 10.01); Calibrated: Aug. 27,2021;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/BACK-L/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.13 W/kg

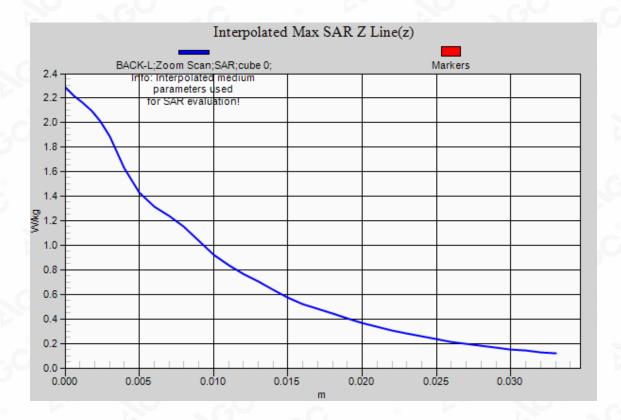
Configuration/BACK-L/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.752 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.571 W/kg









Page 104 of 132

Date: Dec. 29, 2021

**Test Laboratory: AGC Lab** 

LTE Band 2 Mid-Body- Back (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = \delta N$  mho/m;  $\epsilon r = \epsilon r N$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

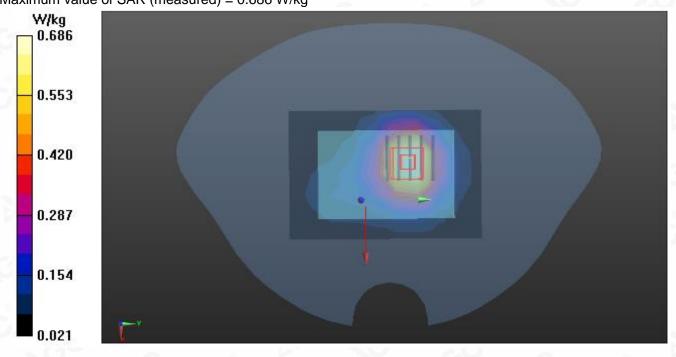
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.741 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

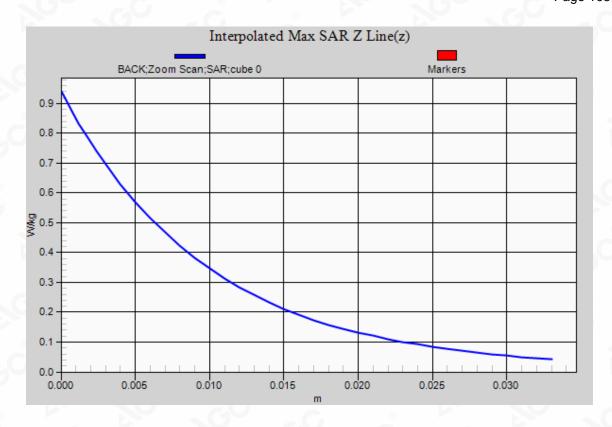
Reference Value = 18.011 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.940 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.347 W/kg Maximum value of SAR (measured) = 0.686 W/kg









Page 106 of 132

Date: Dec. 28, 2021

**Test Laboratory: AGC Lab** 

LTE Band 4 Mid-Body-Back (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;

Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz;  $\sigma = 1.37$  mho/m;  $\epsilon r = 40.46$ ;  $\rho = 1000$  kg/m

3 ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.7, Liquid temperature ( $^{\circ}$ C): 20.5

#### 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)

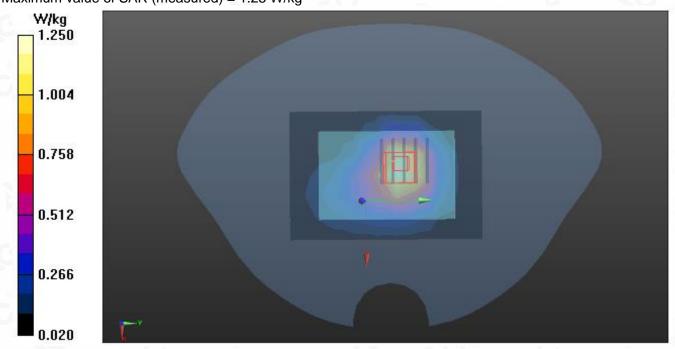
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.22 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

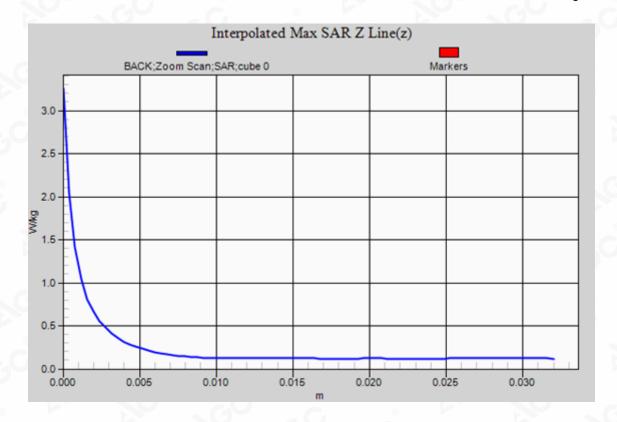
Reference Value = 28.788 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.650 W/kg Maximum value of SAR (measured) = 1.25 W/kg









Page 108 of 132

Date: Dec. 27, 2021

**Test Laboratory: AGC Lab** 

LTE Band 5 Mid-Body-Back (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;

Frequency:836.5 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.92$ mho/m;  $\epsilon r = 40.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

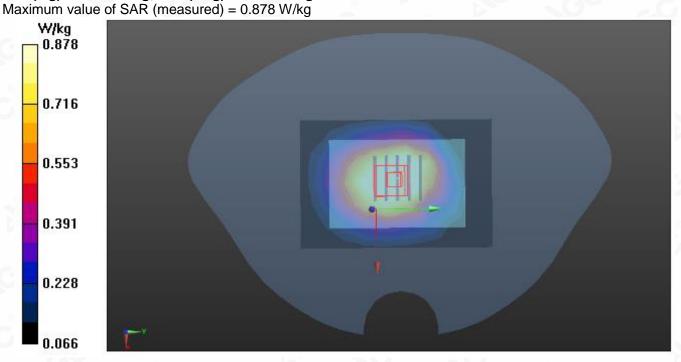
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.16 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

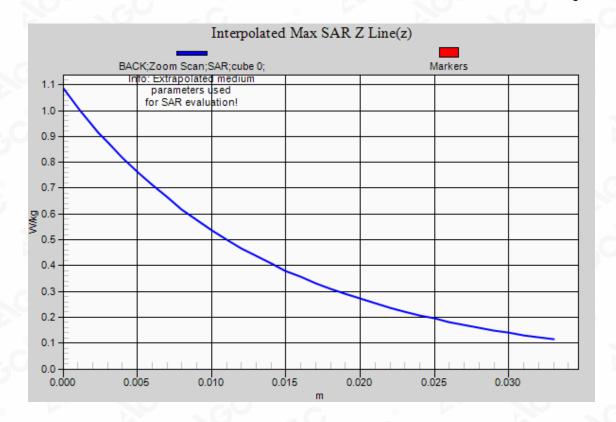
Reference Value = 33.737 V/m; Power Drift = -0.95 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.530 W/kg







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Page 110 of 132

Date: Dec. 19, 2021

Test Laboratory: AGC Lab

LTE Band 7 Mid-Body-Back (1RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;

Frequency: 2535MHz; Medium parameters used: f =2600 MHz;  $\sigma$ =1.90 mho/m;  $\epsilon$ r =39.42;  $\rho$ = 1000 kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 21.4, Liquid temperature ( $^{\circ}$ C): 21.2

## **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)

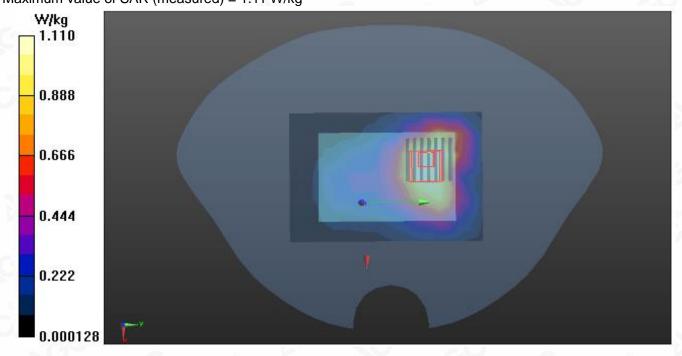
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.21 W/kg

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

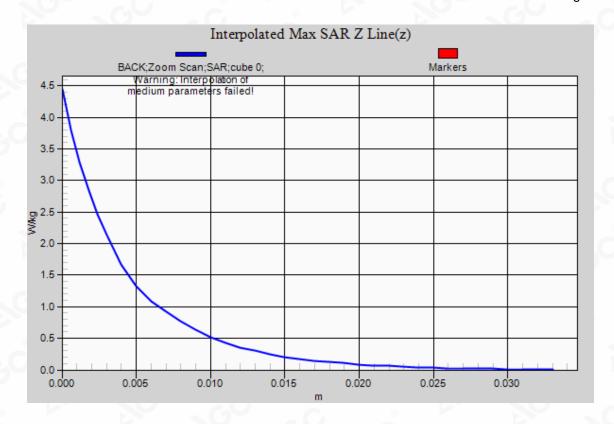
Reference Value = 14.309 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 4.44 W/kg

**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.502 W/kg** Maximum value of SAR (measured) = 1.11 W/kg







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Page 112 of 132

Date: Dec. 25, 2021

**Test Laboratory: AGC Lab** 

LTE Band 12 Mid-Body-Front (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;

Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz;  $\sigma = 0.87$  mho/m;  $\epsilon r = 43.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.8, Liquid temperature ( $^{\circ}$ C): 20.6

## **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)

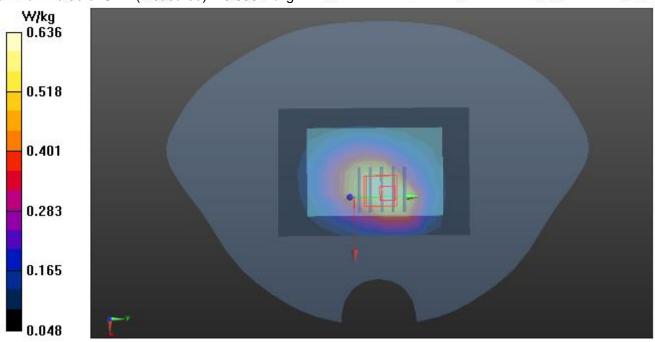
Configuration/FRONT/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.709 W/kg

Configuration/FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

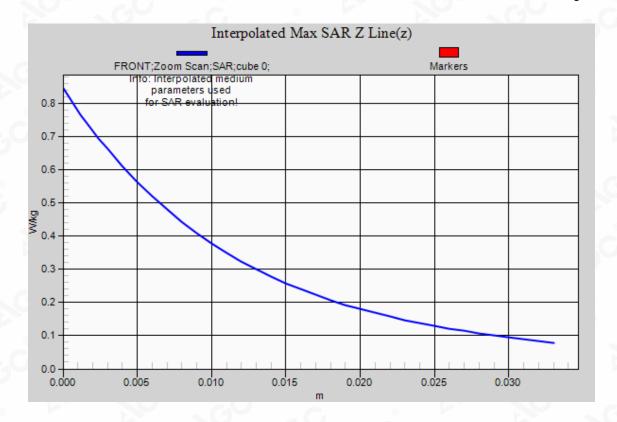
Reference Value = 24.656 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.845 W/kg

SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.379 W/kg Maximum value of SAR (measured) = 0.636 W/kg







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Page 114 of 132

Date: Dec. 25, 2021

Test Laboratory: AGC Lab

LTE Band 17 Mid-Body-Back (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1;

Frequency: 710 MHz; Medium parameters used: f = 750 MHz;  $\sigma = 0.88$  mho/m;  $\epsilon r = 43.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.6

## **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)

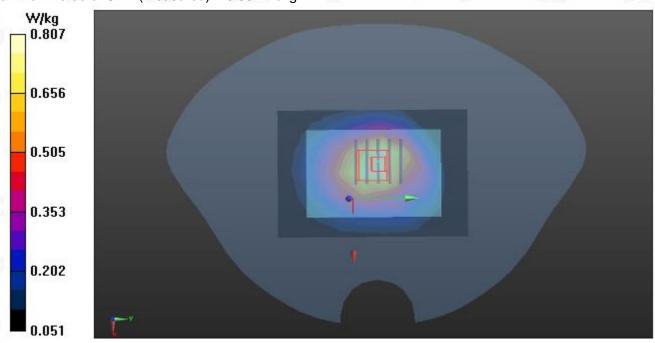
Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.794 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

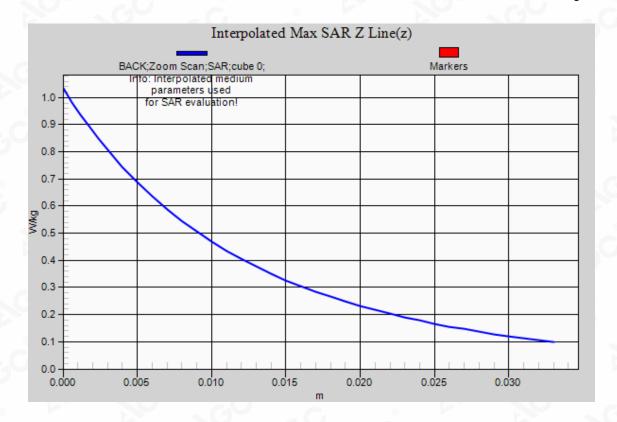
Reference Value = 29.760 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.461 W/kg Maximum value of SAR (measured) = 0.807 W/kg







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Page 116 of 132

#### **WIFI MODE**

Test Laboratory: AGC Lab Date: Dec. 20, 2021

802.11b Mid- Body- Back (DTS)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz;  $\sigma = 1.75 \text{ mho/m}$ ;  $\epsilon r = 38.97$ ;;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 21.4, Liquid temperature ( $^{\circ}$ C): 21.2

#### **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)

# Configuration/BACK/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

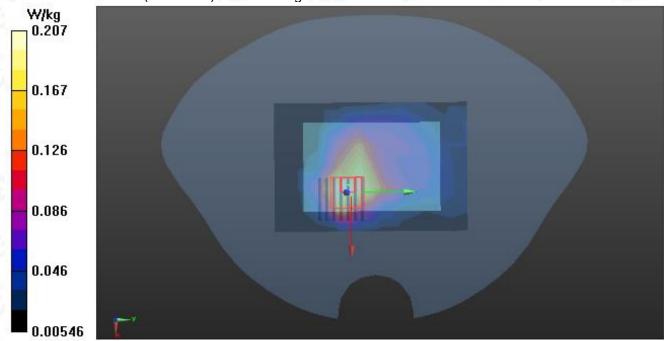
Maximum value of SAR (measured) = 0.218 W/kg

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

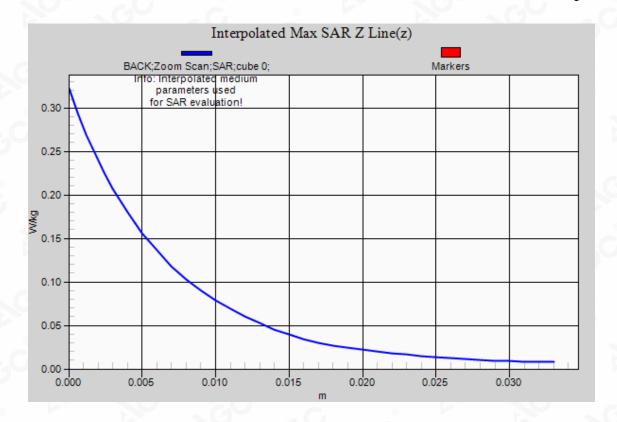
Reference Value = 7.472 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.086 W/kg Maximum value of SAR (measured) = 0.207 W/kg









Page 118 of 132

Test Laboratory: AGC Lab Date: Dec. 21, 2021

5.2GHz -802.11a CH48-High- Body- Back (Top) DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1

Frequency: 5240 MHz; Medium parameters used: f = 5250MHz;  $\sigma = 4.55 \text{ mho/m}$ ;  $\epsilon r = 35.64$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ ): 21.1, Liquid temperature ( $^{\circ}$ ): 20.9

#### **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)

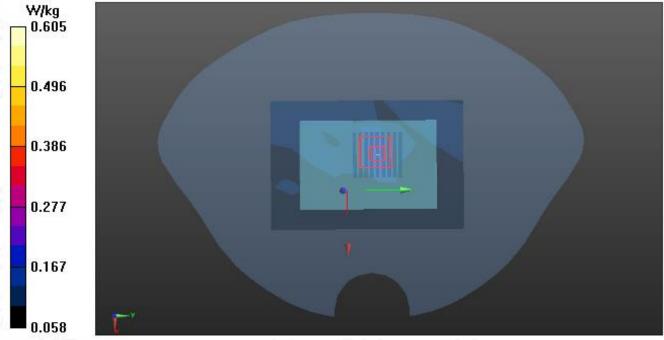
Configuration/BACK-H/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.257 W/kg

Configuration/BACK-H/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 6.607 V/m; Power Drift = 0.19 dB

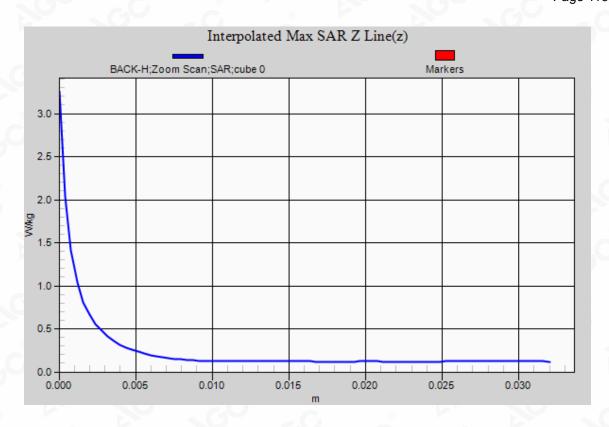
Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.605 W/kg









Page 120 of 132

Test Laboratory: AGC Lab Date: Dec. 22, 2021

5.8GHz -802.11a- CH149-Low- Body- Back DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1

Frequency: 5745 MHz; Medium parameters used: f = 5750 MHz;  $\sigma = 5.31$  mho/m;  $\epsilon r = 35.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.8, Liquid temperature ( $^{\circ}$ C): 20.6

## **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)

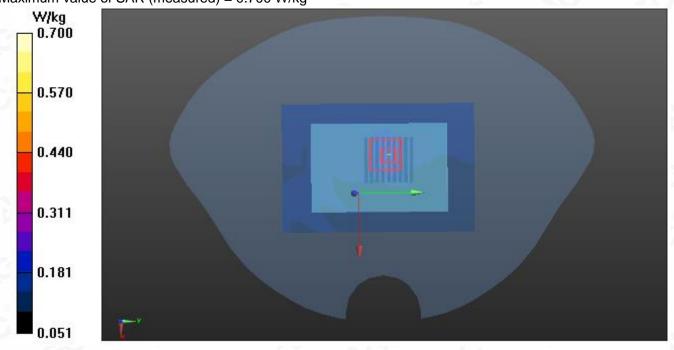
Configuration/BACK-L/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.682 W/kg

Configuration/BACK-L/Zoom Scan (9x9x16)/: Measurement grid: dx=4mm, dy=4mm, dz=2mm

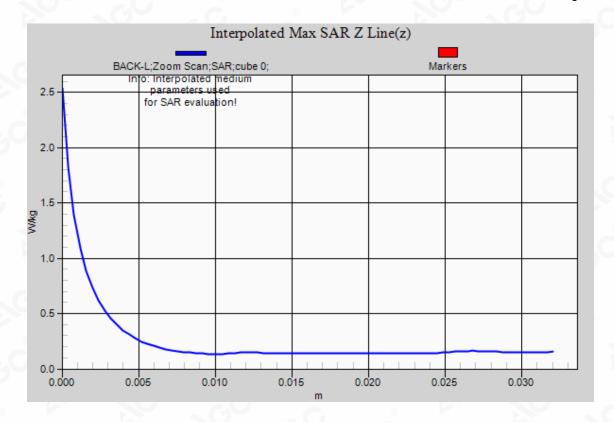
Reference Value = 7.104 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.177 W/kg Maximum value of SAR (measured) = 0.700 W/kg









Page 122 of 132

Repeated SAR

Test Laboratory: AGC Lab Date: Dec. 29, 2021

GPRS 1900 Mid-Body- Back (3up) < SIM 1> DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.99$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

#### **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)

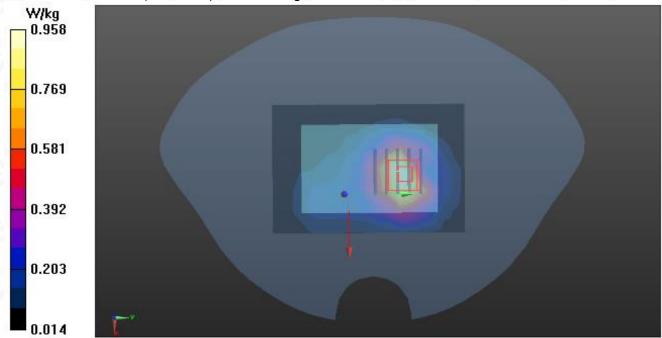
Configuration/4ST-BACK-REPEATED/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.01 W/kg

Configuration/4ST-BACK-REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.602 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.469 W/kg Maximum value of SAR (measured) = 0.958 W/kg





Page 123 of 132

Test Laboratory: AGC Lab Date: Dec. 29, 2021

WCDMA Band II Mid -Body-Towards Grounds DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle:1:1;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.99$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

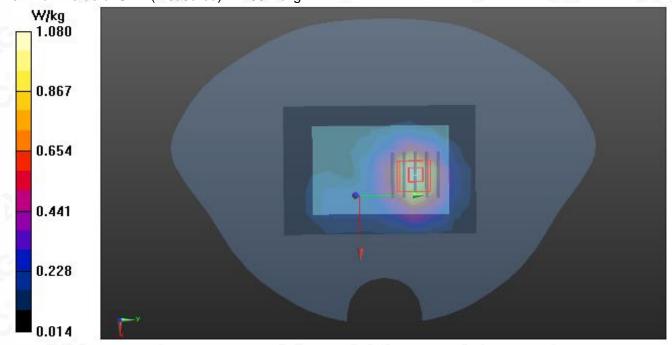
Configuration/REPEATED/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.15 W/kg

Configuration/REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.103 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.889 W/kg; SAR(10 g) = 0.511 W/kg Maximum value of SAR (measured) = 1.08 W/kg





Page 124 of 132

Test Laboratory: AGC Lab Date: Dec. 27, 2021

WCDMA Band V Low-Body-Towards Grounds DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1; Frequency: 826.4 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon = 40.98$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C):20.5, Liquid temperature ( $^{\circ}$ C): 20.3

## **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)

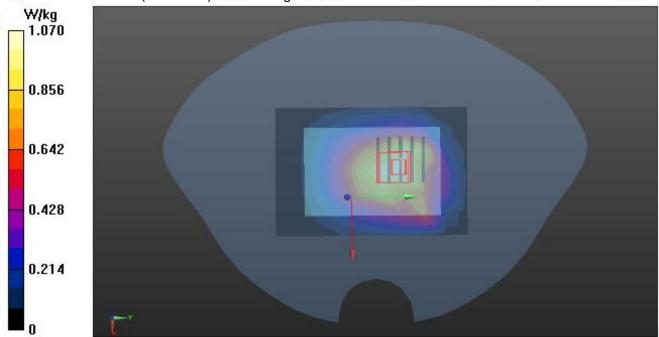
Configuration/BACK-L-REPEATED/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.12 W/kg

Configuration/BACK-L-REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.749 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.570 W/kg Maximum value of SAR (measured) = 1.07 W/kg





Page 125 of 132

Date: Dec. 28, 2021

Test Laboratory: AGC Lab

LTE Band 4 Mid-Body-Back (1 RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;

Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz;  $\sigma = 1.37$  mho/m;  $\epsilon r = 40.46$ ;  $\rho = 1000$  kg/m

3;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 20.7, Liquid temperature ( $^{\circ}$ C): 20.5

#### 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)

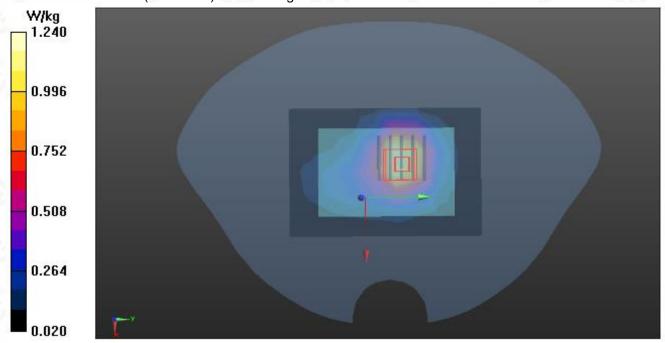
Configuration/REPEATED/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.17 W/kg

Configuration/REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.546 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.631 W/kg Maximum value of SAR (measured) = 1.24 W/kg





Page 126 of 132

Date: Dec. 19, 2021

Test Laboratory: AGC Lab

LTE Band 7 Mid-Body-Back (1RB#0)

DUT: Brama L V2; Type: SoloProtect ID touch

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;

Frequency: 2535MHz; Medium parameters used: f =2600 MHz;  $\sigma$ =1.90 mho/m;  $\epsilon$ r =39.42;  $\rho$ = 1000 kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ ): 21.4, Liquid temperature ( $^{\circ}$ ): 21.2

## **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)

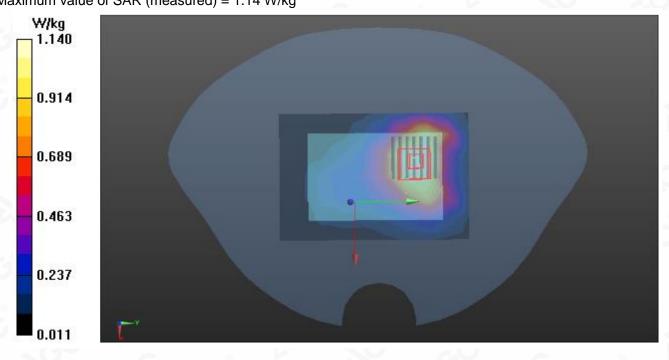
Configuration/REPEATED/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.20 W/kg

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

Reference Value = 14.382 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.478 W/kg** Maximum value of SAR (measured) = 1.14 W/kg





Page 127 of 132

# **APPENDIX C. TEST SETUP PHOTOGRAPHS**

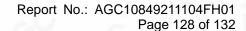
Body Back 5mm



Body Front 5mm



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Edge 1(Top) 5mm



Edge 2(Right) 5mm

