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2. Summary of Results

GSM 850 MHz

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	/kg)	Plot page
	Re Cheek	-	128	824.2	33.50	31.62	154.17%	0.203	0.313	-
	Re Cheek	-	190	836.6	33.50	31.69	151.71%	0.237	0.360	210
GSM850	Re Cheek	-	251	848.8	33.50	31.72	150.66%	0.201	0.303	-
(Head)	Re Tilt	-	251	848.8	33.50	31.72	150.66%	0.126	0.190	-
	Le Cheek	-	251	848.8	33.50	31.72	150.66%	0.161	0.243	-
	Le Tilt	-	251	848.8	33.50	31.72	150.66%	0.099	0.149	-
	Front side	10	128	824.2	33.50	31.62	154.17%	0.313	0.483	-
GSM850	Back side	10	190	836.6	33.50	31.69	151.71%	0.369	0.560	211
(Body-Worn)	Back side	10	251	848.8	33.50	31.72	150.66%	0.322	0.485	-
	Back side	10	251	848.8	33.50	31.72	150.66%	0.280	0.422	-
	Front side	10	128	824.2	27.50	26.59	123.31%	0.340	0.419	-
	Front side	10	190	836.6	27.50	26.66	121.34%	0.416	0.505	-
GPRS850 (Hotspot)	Front side	10	251	848.8	27.50	26.65	121.62%	0.505	0.614	212
(1Dn4UP)	Back side	10	190	836.6	27.50	26.66	121.34%	0.371	0.450	-
	Bottom side	10	190	836.6	27.50	26.66	121.34%	0.152	0.184	-
	Right side	10	190	836.6	27.50	26.66	121.34%	0.256	0.311	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	1	kg)	Plot page
						(aBiii)		ivieasureu	Reported	
GSM850 (Head)	Re Cheek	-	190	836.6	33.50	31.69	151.71%	0.229	0.347	-
GSM850 (Body-Worn)	Back side	10	190	836.6	33.50	31.69	151.71%	0.356	0.540	-
GPRS850 (Hotspot) (1Dn4UP)	Front side	10	251	848.8	27.50	26.65	121.62%	0.497	0.604	-

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GSM 1900 MHz

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	1	SAR over g /kg) Reported	Plot page
	Re Cheek	-	512	1850.2	30.50	29.30	131.83%	0.284	0.374	-
	Re Cheek	-	661	1880	30.50	29.53	125.03%	0.297	0.371	-
GSM1900	Re Cheek	-	810	1909.8	30.50	29.78	118.03%	0.336	0.397	213
(Head)	Re Tilt	-	810	1909.8	30.50	29.78	118.03%	0.074	0.087	-
	Le Cheek	-	810	1909.8	30.50	29.78	118.03%	0.169	0.199	-
	Le Tilt	-	810	1909.8	30.50	29.78	118.03%	0.088	0.104	-
	Front side	10	810	1909.8	30.50	29.78	118.03%	0.442	0.522	-
GSM1900	Back side	10	512	1850.2	30.50	29.30	131.83%	0.457	0.602	-
(Body-Worn)	Back side	10	661	1880	30.50	29.53	125.03%	0.469	0.586	-
	Back side	10	810	1909.8	30.50	29.78	118.03%	0.482	0.569	214
	Front side	10	810	1909.8	26.50	25.74	119.12%	0.482	0.574	-
GPRS1900	Back side	10	512	1850.2	26.50	25.73	119.40%	0.414	0.494	-
(Hotspot)	Back side	10	661	1880	26.50	25.22	134.28%	0.419	0.563	-
(1Dn3UP)	Back side	10	810	1909.8	26.50	25.74	119.12%	0.582	0.693	215
	Bottom side	10	810	1909.8	26.50	25.74	119.12%	0.257	0.306	-
	Right side	10	810	1909.8	26.50	25.74	119.12%	0.201	0.239	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	1 (W/	kg)	Plot page
						(dDIII)		Measured	Reported	
GSM1900 (Head)	Re Cheek	-	810	1909.8	30.50	29.78	118.03%	0.184	0.217	-
GSM1900 (Body-Worn)	Back side	10	512	1850.2	30.50	29.30	131.83%	0.390	0.514	-
GPRS1900 (Hotspot) (1Dn3UP)	Back side	10	810	1909.8	26.50	25.74	119.12%	0.428	0.510	-

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WCDMA Band II

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Position	Distanc e (mm)	e CH Freq.		Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/	g ˈkg)	Plot page
	RE Cheek	_	9262	1852.4	24	23.45	113.50%	Measured 0.600	Reported 0.681	_
										_
	RE Cheek	-	9400	1880	24	23.43	114.02%	0.590	0.673	-
R99	RE Cheek	-	9538	1907.6	24	23.51	111.94%	0.626	0.701	216
(Head)	RE Tilt	-	9538	1907.6	24	23.51	111.94%	0.147	0.165	-
	LE Cheek	-	9538	1907.6	24	23.51	111.94%	0.304	0.340	-
	LE Tilt	-	9538	1907.6	24	23.51	111.94%	0.167	0.187	-
	Front side	10	9262	1852.4	24	23.45	113.50%	0.792	0.899	-
	Front side	10	9400	1880	24	23.43	114.02%	0.779	0.888	-
	Front side	10	9538	1907.6	24	23.51	111.94%	0.799	0.894	-
	Back side	10	9262	1852.4	24	23.45	113.50%	0.836	0.949	-
Hotspot	Back side	10	9400	1880	24	23.43	114.02%	0.913	1.041	-
	Back side	10	9538	1907.6	24	23.51	111.94%	0.925	1.035	217
	Back side*	10	9538	1907.6	24	23.51	111.94%	0.875	0.980	-
	Bottom side	10	9538	1907.6	24	23.51	111.94%	0.428	0.479	-
	Right side	10	9538	1907.6	24	23.51	111.94%	0.362	0.405	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	1	SAR over g /kg) Reported	Plot page
R99 (Head)	RE Cheek	-	9538	1907.6	24	23.51	111.94%	0.381	0.427	-
Hotspot	Back side	10	9400	1880	24	23.43	114.02%	0.818	0.933	-

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WCDMA Band IV

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page
	RE Cheek	-	1312	1712.4	24	23.49	112.46%	0.576	0.648	-
	RE Cheek	-	1412	1732.4	24	23.24	119.12%	0.566	0.674	-
R99	RE Cheek	-	1513	1752.6	24	23.28	118.03%	0.613	0.724	218
(Head)	RE Tilt	-	1312	1712.4	24	23.49	112.46%	0.140	0.157	-
	LE Cheek	-	1312	1712.4	24	23.49	112.46%	0.284	0.319	-
	LE Tilt	-	1312	1712.4	24	23.49	112.46%	0.167	0.188	-
	Front side	10	1312	1712.4	24	23.49	112.46%	0.770	0.866	-
	Front side	10	1412	1732.4	24	23.24	119.12%	0.704	0.839	-
	Front side	10	1513	1752.6	24	23.28	118.03%	0.708	0.836	-
	Back side	10	1312	1712.4	24	23.49	112.46%	0.811	0.912	219
Hotspot	Back side*	10	1312	1712.4	24	23.49	112.46%	0.810	0.911	-
	Back side	10	1412	1732.4	24	23.24	119.12%	0.770	0.917	-
	Back side	10	1513	1752.6	24	23.28	118.03%	0.771	0.910	-
	Bottom side	10	1312	1712.4	24	23.49	112.46%	0.438	0.493	-
	Right side	10	1312	1712.4	24	23.49	112.46%	0.296	0.333	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	1	SAR over g /kg)	Plot page
		(11111)			Toloranoo (abiii)	(dBm)		Measured	Reported	
R99 (Head)	RE Cheek	ı	1513	1752.6	24	23.28	118.03%	0.362	0.427	-
Hotspot	Back side	10	1412	1732.4	24	23.24	119.12%	0.753	0.897	-

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WCDMA Band V

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Position	Distanc e CH (mm)		Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power	Scaling	1	SAR over g /kg)	Plot page
		(11111)			Tolerance (dBIII)	(dBm)		Measured	Reported	
	RE Cheek	-	4132	826.4	24.5	24.05	110.92%	0.313	0.347	220
	RE Cheek	-	4183	836.6	24.5	23.87	115.61%	0.311	0.360	-
R99	RE Cheek	-	4233	846.6	24.5	24.11	109.40%	0.243	0.266	-
(Head)	RE Tilt	-	4233	846.6	24.5	24.11	109.40%	0.165	0.181	-
	LE Cheek	-	4233	846.6	24.5	24.11	109.40%	0.211	0.231	-
	LE Tilt	-	4233	846.6	24.5	24.11	109.40%	0.121	0.132	-
	Front side	10	4132	826.4	24.5	24.05	110.92%	0.544	0.603	-
	Front side	10	4183	836.6	24.5	23.87	115.61%	0.550	0.636	-
Hotopot	Front side	10	4233	846.6	24.5	24.11	109.40%	0.583	0.638	221
Hotspot	Back side	10	4233	846.6	24.5	24.11	109.40%	0.467	0.511	-
	Bottom side	10	4233	846.6	24.5	24.11	109.40%	0.276	0.302	-
	Right side	10	4233	846.6	24.5	24.11	109.40%	0.381	0.417	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	1	SAR over g /kg)	Plot page
		(11111)			Tolcrance (dBin)	(dBm)		Measured	Reported	
R99 (Head)	RE Cheek	1	4183	836.6	24.5	23.87	115.61%	0.301	0.348	-
Hotspot	Front side	10	4233	846.6	24.5	24.11	109.40%	0.520	0.569	-

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LTE FDD Band II

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mada	Bandwidth	Marah dadia	DD Ci	DD start	Desiries	Distance	СН	Freq.	Max. Rated Avg.	Measure d	Caslina		SAR over V/kg)	Plot
Mode	(MHz)	Modulatior	RB Size	RB Start	Position	(mm)	Сп	(MHz)	Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	page
					Front side	10	18700	1860	24	23.89	102.57%	0.801	0.822	-
					Front side	10	18900	1880	24	23.69	107.40%	0.798	0.857	-
					Front side	10	19100	1900	24	23.61	109.40%	0.848	0.928	222
			1 RB	_	Front side*	10	19100	1900	24	23.61	109.40%	0.845	0.924	-
				0	Back side	10	18700	1860	24	23.89	102.57%	0.784	0.804	-
					Back side	10	18900	1880	24	23.69	107.40%	0.778	0.836	-
					Back side	10	19100	1900	24	23.61	109.40%	0.812	0.888	-
LTE Band					Bottom side	10	18700	1860	24	23.89	102.57%	0.424	0.435	-
2	20MHz	QPSK			Right side	10	18700	1860	24	23.89	102.57%	0.333	0.342	-
(Hotspot)					Front side	10	18900	1880	23	22.29	117.76%	0.580	0.683	-
			50 RB	0	Back side	10	18900	1880	23	22.29	117.76%	0.617	0.727	-
			30 KB	U	Bottom side	10	18900	1880	23	22.29	117.76%	0.313	0.369	-
					Right side	10	18900	1880	23	22.29	117.76%	0.223	0.263	-
					Front side	10	18700	1860	23	22.24	119.12%	0.554	0.660	-
			100	RB	Back side	10	18700	1860	23	22.24	119.12%	0.513	0.611	-
			100	, 110	Bottom side	10	18700	1860	23	22.24	119.12%	0.302	0.360	-
				Right side	10	18700	1860	23	22.24	119.12%	0.204	0.243	-	

^{* -} repeated at the highest SAR measurement according to the FCC KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth (MHz)	Modulation	DR Sizo	DR etart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
ivioue	(MHz)	viodulatioi	ND SIZE	ND start	1 Ushiloti	(mm)	CH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
LTE Band 2 (Hotspot)	20MHz	QPSK	1 RB	0	Front side	10	19100	1900	24	23.61	109.40%	0.791	0.865	-

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LTE FDD Band IV

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Bandwidth (MHz)	Madulation	DD Sizo	DP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Mode	(MHz)	viodulatioi	NB Size	ND Start	FOSITION	(mm)	ОП	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	Scaling	Measured	Reported	page
					Front side	10	20050	1720	24	23.55	110.92%	0.727	0.806	-
					Front side	10	20175	1732.5	24	23.33	116.68%	0.639	0.746	-
					Front side	10	20300	1745	24	23.21	119.95%	0.644	0.772	-
					Back side	10	20050	1720	24	23.55	110.92%	0.924	1.025	223
			1 RB	0	Back side*	10	20050	1720	24	23.55	110.92%	0.904	1.003	-
					Back side	10	20175	1732.5	24	23.33	116.68%	0.741	0.865	-
					Back side	10	20300	1745	24	23.21	119.95%	0.745	0.894	-
					Bottom side	10	20050	1720	24	23.55	110.92%	0.412	0.457	-
LTE Band					Right side	10	20050	1720	24	23.55	110.92%	0.275	0.305	-
4	20MHz	QPSK			Front side	10	20050	1720	23	21.90	128.82%	0.517	0.666	-
(Hotspot)					Back side	10	20050	1720	23	21.90	128.82%	0.676	0.871	-
			50 RB	0	Back side	10	20175	1732.5	23	21.88	129.42%	0.621	0.804	-
			30 KB	0	Back side	10	20300	1745	23	21.74	133.66%	0.624	0.834	-
					Bottom side	10	20050	1720	23	21.90	128.82%	0.293	0.377	-
					Right side	10	20050	1720	23	21.90	128.82%	0.196	0.252	-
					Front side	10	20050	1720	23	21.76	133.05%	0.490	0.652	-
			100	RB	Back side	10	20050	1720	23	21.76	133.05%	0.513	0.683	-
			100	, 1,0	Bottom side	10	20050	1720	23	21.76	133.05%	0.275	0.366	-
					Right side	10	20050	1720	23	21.76	133.05%	0.184	0.245	-

^{* -} repeated at the highest SAR measurement according to the FCC KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth	Modulation	RR Size	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
Wiode	(MHz)	viodulatio	ND GIZE	ND start	1 Coluen	(mm)	011	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
LTE Band 4 (Hotspot)	20MHz	QPSK	1 RB	0	Back side	10	20050	1720	24	23.55	110.92%	1.010	1.120	224

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LTE FDD Band V

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Bandwidth	Modulation	DD Sizo	PP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Mode	(MHz)	viodulatioi	ND Size	ND start	Fosition	(mm)	CH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	Scaling	Measured	Reported	page
					Front side	10	20600	844	24.5	23.45	127.35%	0.504	0.642	225
				0	Back side	10	20600	844	24.5	23.45	127.35%	0.406	0.517	-
			1 RB	U	Bottom side	10	20600	844	24.5	23.45	127.35%	0.316	0.402	
			IND		Right side	10	20600	844	24.5	23.45	127.35%	0.302	0.385	-
				25	Front side	10	20450	829	24.5	23.26	133.05%	0.447	0.595	-
LTE Dand				25	Front side	10	20525	836.5	24.5	23.36	130.02%	0.500	0.650	-
LTE Band 5	10MHz	QPSK			Front side	10	20600	844	23.5	22.51	125.60%	0.408	0.512	-
(Hotspot)	TOWINZ	QFSK	25 RB	25	Back side	10	20600	844	23.5	22.51	125.60%	0.330	0.414	-
(i iotopot)			23 ND	23	Bottom side	10	20600	844	23.5	22.51	125.60%	0.280	0.352	-
					Right side	10	20600	844	23.5	22.51	125.60%	0.245	0.308	-
					Front side	10	20600	844	23.5	22.31	131.52%	0.403	0.530	-
			50	RB	Back side	10	20600	844	23.5	22.31	131.52%	0.325	0.427	-
			30	IND	Bottom side	10	20600	844	23.5	22.31	131.52%	0.264	0.347	-
					Right side	10	20600	844	23.5	22.31	131.52%	0.241	0.317	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth (MHz)	Modulation	DR Sizo	DR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V		Plot
Mode	(MHz)	viodulatioi	ND SIZE	ND Start	Position	(mm)	CH	(MHz)	Max. Toleranc e (dBm)	Power		Measured	Reported	page
LTE Band 5 (Hotspot)	10MHz	QPSK	1 RB	0	Front side	10	20600	844	24.5	23.45	127.35%	0.501	0.638	-

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LTE FDD Band VII

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Bandwidth (MHz)	Madulation	DD Sizo	DP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Wode	(MHz)	viodulatioi	ND SIZE	ND Start	FUSITION	(mm)	G	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
					Front side	10	20850	2510	23	22.67	107.89%	0.969	1.045	226
					Front side*	10	20850	2510	23	22.67	107.89%	0.966	1.042	-
					Front side	10	21100	2535	23	22.62	109.14%	0.878	0.958	-
					Front side	10	21350	2560	23	22.52	111.69%	0.852	0.952	-
			1 RB	0	Back side	10	20850	2510	23	22.67	107.89%	0.760	0.820	-
					Back side	10	21100	2535	23	22.62	109.14%	0.702	0.766	-
					Back side	10	21350	2560	23	22.52	111.69%	0.630	0.704	-
LTE Band					Bottom side	10	20850	2510	23	22.67	107.89%	0.394	0.425	-
7	20MHz	QPSK			Left side	10	20850	2510	23	22.67	107.89%	0.601	0.648	-
(Hotspot)					Front side	10	20850	2510	22	21.56	110.66%	0.692	0.766	-
			50 RB	0	Back side	10	20850	2510	22	21.56	110.66%	0.630	0.697	-
			30 KB	0	Bottom side	10	20850	2510	22	21.56	110.66%	0.297	0.329	-
					Left side	10	20850	2510	22	21.56	110.66%	0.426	0.471	-
					Front side	10	20850	2510	22	21.52	111.69%	0.683	0.763	-
			100	DR	Back side	10	20850	2510	22	21.52	111.69%	0.628	0.701	-
			100	יועט	Bottom side	10	20850	2510	22	21.52	111.69%	0.302	0.337	-
					Left side	10	20850	2510	22	21.52	111.69%	0.425	0.475	-

^{* -} repeated at the highest SAR measurement according to the FCC KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth	Modulation	RB Size	RB start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V		Plot
Wood	(MHz)	viodulation	ND 0120	ND olan	r conton	(mm)	3.1	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
LTE Ba 7 (Hotspo	20MHz	QPSK	1 RB	0	Front side	10	20850	2510	23	22.67	107.89%	0.908	0.980	-

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LTE FDD Band XII

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Bandwidth (MHz)	Madulation	DD Circ	DP atort	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d	Scaling		SAR over V/kg)	Plot
Mode	(MHz)	viodulatioi	ND SIZE	ND Start	Fosition	(mm)	ОП	(MHz)	Max. Toleranc e (dBm)	Avg. Power (dBm)		Measured	Reported	page
					Front side	10	23130	711	24.5	24.00	112.20%	0.167	0.187	-
					Back side	10	23130	711	24.5	24.00	112.20%	0.122	0.137	-
					Bottom side	10	23060	704	24.5	23.87	115.61%	0.219	0.253	-
			1 RB	49	Bottom side	10	23095	707.5	24.5	23.89	115.08%	0.229	0.264	-
					Bottom side	10	23130	711	24.5	24.00	112.20%	0.242	0.272	227
					Right side	10	23130	711	24.5	24.00	112.20%	0.214	0.240	-
					Left side	10	23130	711	24.5	24.00	112.20%	0.058	0.065	-
LTE Band					Front side	10	23130	711	23.5	23.12	109.14%	0.145	0.158	-
12	10MHz	QPSK			Back side	10	23130	711	23.5	23.12	109.14%	0.091	0.099	-
(Hotspot)			25 RB	25	Bottom side	10	23130	711	23.5	23.12	109.14%	0.193	0.211	-
					Right side	10	23130	711	23.5	23.12	109.14%	0.176	0.192	-
					Left side	10	23130	711	23.5	23.12	109.14%	0.047	0.051	-
					Front side	10	23130	711	23.5	23.00	112.20%	0.143	0.160	-
					Back side	10	23130	711	23.5	23.00	112.20%	0.088	0.099	-
			50	RB	Bottom side	10	23130	711	23.5	23.00	112.20%	0.185	0.208	-
					Right side	10	23130	711	23.5	23.00	112.20%	0.172	0.193	-
					Left side	10	23130	711	23.5	23.00	112.20%	0.047	0.053	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measure d Avg. Power	Scaling	1g (V	SAR over V/kg)	Plot page
									Toleranc e (dBm)	(dBm)		Measured	керопеа	
LTE Band 12 (Hotspot)	10MHz	QPSK	1 RB	49	Bottom side	10	23130	711	24.5	24.00	112.20%	0.242	0.272	-

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LTE FDD Band XIII

Mode	Bandwidth	Modulation	DD Sizo	DP stort	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V		Plot
iviode	(MHz)	viodulatioi	ND SIZE	ND Start	FOSITION	(mm)	CH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	Scaling	Measured	Reported	page
				0	Front side	10	23230	782	25	23.71	34.59%	0.554	0.746	-
					Front side	10	23230	782	25	23.97	26.77%	0.563	0.714	228
			1 RB	25	Back side	10	23230	782	25	23.97	26.77%	0.308	0.390	ı
			IND	25	Bottom side	10	23230	782	25	23.97	26.77%	0.337	0.427	ı
					Right side	10	23230	782	25	23.97	26.77%	0.312	0.396	ı
LTE David				49	Front side	10	23230	782	25	23.79	32.13%	0.533	0.704	ı
	OMH-	QPSK			Front side	10	23230	782	24	22.60	38.04%	0.426	0.588	ı
	OIVII IZ	QI SIX	25 RB	0	Back side	10	23230	782	24	22.60	38.04%	0.257	0.355	ı
(1.1010)			23 ND		Bottom side	10	23230	782	24	22.60	38.04%	0.263	0.363	-
					Right side	10	23230	782	24	22.60	38.04%	0.246	0.340	-
					Front side	10	23230	782	24	22.67	35.83%	0.419	0.569	-
			50	DR	Back side	10	23230	782	24	22.67	35.83%	0.265	0.360	-
			30	ועט	Bottom side	10	23230	782	24	22.67	35.83%	0.269	0.365	
	TE Band				Right side	10	23230	782	24	22.67	35.83%	0.264	0.359	-

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LTE FDD Band XXX

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Mode	Bandwidth (MHz)	Madulation	DD Sizo	DP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Mode	(MHz)	viodulatioi	ND SIZE	ND Start	FOSITION	(mm)	CH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
					Front side	10	27710	2310	23.5	22.57	123.88%	0.637	0.789	229
				0	Back side	10	27710	2310	23.5	22.57	123.88%	0.624	0.773	-
			1 RB	U U	Bottom side	10	27710	2310	23.5	22.57	123.88%	0.575	0.712	-
			TIND		Left side	10	27710	2310	23.5	22.57	123.88%	0.451	0.559	-
				25	Front side	10	27710	2310	23.5	22.41	128.53%	0.604	0.776	-
LTE Dand				49	Front side	10	27710	2310	23.5	22.37	129.72%	0.597	0.774	-
LTE Band 30	10MHz	QPSK			Front side	10	27710	2310	22.5	21.91	114.55%	0.555	0.636	-
(Hotspot)	TOWNIZ	QI SIN	25 RB	25	Back side	10	27710	2310	22.5	21.91	114.55%	0.519	0.595	-
(1.010)			23 ND	23	Bottom side	10	27710	2310	22.5	21.91	114.55%	0.466	0.534	-
					Left side	10	27710	2310	22.5	21.91	114.55%	0.335	0.384	-
					Front side	10	27710	2310	22.5	21.53	125.03%	0.551	0.689	-
			50	RB	Back side	10	27710	2310	22.5	21.53	125.03%	0.514	0.643	-
			30	מאו	Bottom side	10	27710	2310	22.5	21.53	125.03%	0.468	0.585	-
					Left side	10	27710	2310	22.5	21.53	125.03%	0.339	0.424	-

Tested HSTNH-F606V SAR at the worst case position.

Mode	Bandwidth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Measure d Avg. Power (dBm)	Scaling	1g (V	SAR over V/kg)	Plot page
LTE Band 30 (Hotspot)	10MHz	QPSK	1 RB	0	Front side	10	27710	2310	23.5	22.57	123.88%	0.746	0.924	230

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CDMA / EVDO Cellular (BC0)

Mode	Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/ Measured	g	Plot page
		Re Cheek	-	1013	824.7	24.50	23.33	30.92%	0.297	0.389	-
		Re Cheek	-	384	836.52	24.50	23.36	30.02%	0.343	0.446	231
1xRTT Cellular BC0	COEE/DC2	Re Cheek	-	777	848.31	24.50	23.19	35.21%	0.308	0.416	-
(Head)	SO55/RC3	Re Tilt	-	384	836.52	24.50	23.36	30.02%	0.226	0.294	-
		Le Cheek	-	384	836.52	24.50	23.36	30.02%	0.291	0.378	-
		Le Tilt	-	384	836.52	24.50	23.36	30.02%	0.188	0.244	-
		Re Cheek	-	1013	824.7	24.50	23.33	30.92%	0.175	0.229	-
		Re Cheek	-	384	836.52	24.50	23.28	32.43%	0.231	0.306	232
1xEVDO Cellular BC0	Rev. A	Re Cheek	-	777	848.31	24.50	23.14	36.77%	0.210	0.287	-
(Head)	Subtype 2	Re Tilt	-	1013	824.7	24.50	23.33	30.92%	0.093	0.122	-
		Le Cheek	-	1013	824.7	24.50	23.33	30.92%	0.154	0.202	-
		Le Tilt	-	1013	824.7	24.50	23.33	30.92%	0.093	0.122	-
		Front side	10	1013	824.70	24.50	23.31	31.52%	0.759	0.998	-
1xRTT		Front side	10	384	836.52	24.50	23.29	32.13%	0.801	1.058	-
Cellular BC0	SO32/FCH	Front side	10	777	848.31	24.50	23.06	39.32%	0.852	1.187	233
(Body-Worn)		Front side*	10	777	848.31	24.50	23.06	39.32%	0.841	1.172	-
		Back side	10	1013	824.70	24.50	23.31	31.52%	0.438	0.576	-
		Front side	10	1013	824.7	24.50	23.33	30.92%	0.837	1.096	-
1xRTT		Front side	10	384	836.52	24.50	23.36	30.02%	0.835	1.086	-
Cellular BC0	SO55/RC3	Front side	10	777	848.31	24.50	23.19	35.21%	0.847	1.145	234
(Body-Worn)		Front side*	10	777	848.31	24.50	23.19	35.21%	0.842	1.138	-
		Back side	10	1013	824.7	24.50	23.33	30.92%	0.537	0.703	-
		Front side	10	1013	824.7	24.50	23.32	31.22%	0.717	0.941	-
1xEVDO		Front side	10	384	836.52	24.50	23.31	31.52%	0.756	0.994	-
Cellular BC0	Rev. 0	Front side	10	777	848.31	24.50	23.13	37.09%	0.778	1.067	235
(Hotspot)	Subtype 0/1	Back side	10	1013	824.7	24.50	23.32	31.22%	0.333	0.437	-
		Bottom	10	1013	824.7	24.50	23.32	31.22%	0.264	0.346	-
		Right side	10	1013	824.7	24.50	23.32	31.22%	0.306	0.402	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

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CDMA / EVDO PCS (BC1)

Mode	Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g ′kg)	Plot page
		Re Cheek	-	25	1851.25	24.00	23.41	14.55%	0.468	0.536	236
		Re Cheek	-	600	1880	24.00	23.58	10.15%	0.462	0.509	-
1xRTT	SO55/RC3	Re Cheek	-	1175	1908.75	24.00	23.43	14.02%	0.410	0.468	-
(Head)	0000/1100	Re Tilt	-	600	1880	24.00	23.58	10.15%	0.139	0.153	-
		Le Cheek	-	600	1880	24.00	23.58	10.15%	0.274	0.302	-
		Le Tilt	-	600	1880	24.00	23.58	10.15%	0.180	0.198	-
		Re Cheek	-	25	1851.25	24.00	23.41	14.55%	0.669	0.766	-
	PCS BC1 (Head) 1xEVDO PCS BC1 (Head) 1xRTT PCS BC1 (Body-Worn) 1xRTT PCS BC1 SO32/FCH SO55/RC3	Re Cheek	-	600	1880	24.00	23.54	11.17%	0.702	0.780	237
	1xEVDO PCS BC1 (Head) 1xEVDO PCS BC1 (Head) 1xRTT PCS BC1 SO32/FCH Sody-Worn) 1xRTT PCS BC1 SO55/RC3	Re Cheek	-	1175	1908.75	24.00	23.42	14.29%	0.680	0.777	-
		Re Tilt	-	600	1880	24.00	23.54	11.17%	0.262	0.291	-
		Le Cheek	-	600	1880	24.00	23.54	11.17%	0.332	0.369	-
		Le Tilt	-	600	1880	24.00	23.54	11.17%	0.197	0.219	-
		Front side	10	25	1851.25	24.00	23.43	14.02%	0.918	1.047	-
		Front side	10	600	1880.00	24.00	23.54	11.17%	1.070	1.190	238
1xRTT		Front side	10	1175	1908.75	24.00	23.47	12.98%	0.963	1.088	-
PCS BC1	SO32/FCH	Front side*	10	600	1880.00	24.00	23.54	11.17%	1.050	1.167	-
(Body-Worn)		Back side	10	25	1851.25	24.00	23.43	14.02%	0.872	0.994	-
		Back side	10	600	1880.00	24.00	23.54	11.17%	0.954	1.061	-
		Back side	10	1175	1908.75	24.00	23.47	12.98%	0.905	1.022	-
		Front side	10	25	1851.25	24.00	23.41	14.55%	0.939	1.076	-
		Front side	10	600	1880.00	24.00	23.58	10.15%	1.020	1.124	239
1vRTT		Front side	10	1175	1908.75	24.00	23.43	14.02%	0.970	1.106	-
PCS BC1	SO55/RC3	Front side*	10	600	1880.00	24.00	23.58	10.15%	0.998	1.099	-
(Body-Worn)		Back side	10	25	1851.25	24.00	23.41	14.55%	0.958	1.097	-
		Back side	10	600	1880.00	24.00	23.58	10.15%	1.020	1.124	-
		Back side	10	1175	1908.75	24.00	23.43	14.02%	0.980	1.117	-
		Front side	10	25	1851.25	24.00	23.39	15.08%	0.901	1.037	-
		Front side	10	600	1880.00	24.00	23.51	11.94%	0.951	1.065	240
		Front side	10	1175	1908.75	24.00	23.43	14.02%	0.926	1.056	-
1xEVDO		Front side*	10	600	1880.00	24.00	23.51	11.94%	0.942	1.055	-
PCS BC1 (Hotspot)	Rev. 0 Subtype 0/1	Back side	10	25	1851.25	24.00	23.39	15.08%	0.901	1.037	-
(1 lotopot)	Cubtype 0/1	Back side	10	600	1880.00	24.00	23.51	11.94%	0.875	0.980	-
		Back side	10	1175	1908.75	24.00	23.43	14.02%	0.858	0.978	-
		Bottom	10	600	1880.00	24.00	23.51	11.94%	0.468	0.524	-
		Right side	10	600	1880.00	24.00	23.51	11.94%	0.369	0.413	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

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WLAN 802.11b (Main antenna)

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
					,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	1	2412	17	16.09	123.31%	0.771	0.951	-
		RE Cheek	-	6	2437	17	16.15	121.62%	0.802	0.975	241
	WLAN 802.11 b	RE Cheek*	-	6	2437	17	16.15	121.62%	0.788	0.958	-
	(Head)	RE Tilt	-	6	2437	17	16.15	121.62%	0.564	0.686	-
Main	(,	LE Cheek	-	6	2437	17	16.15	121.62%	0.284	0.345	-
IVIAIII		LE Tilt	-	6	2437	17	16.15	121.62%	0.268	0.326	-
		Front side	10	6	2437	17	16.15	121.62%	0.218	0.265	-
	Hotspot	Back side	10	6	2437	17	16.15	121.62%	0.315	0.383	242
	riotspot	Top side	10	6	2437	17	16.15	121.62%	0.180	0.219	-
		Left side	10	6	2437	17	16.15	121.62%	0.188	0.229	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	kg)	Plot page
			,			Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 b (Head)	RE Cheek	-	6	2437	17	16.15	121.62%	0.801	0.974	-
Iviaiii	Hotspot	Back side	10	6	2437	17	16.15	121.62%	0.315	0.383	-

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WLAN 802.11b (Aux antenna)

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	kg)	Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	11	2462	17	16.6	109.65%	0.123	0.135	-
	WLAN 802.11 b	RE Tilt	-	11	2462	17	16.6	109.65%	0.072	0.079	-
	(Head)	LE Cheek	-	11	2462	17	16.6	109.65%	0.426	0.467	243
Aux	(11000)	LE Tilt	-	11	2462	17	16.6	109.65%	0.197	0.216	-
Aux		Front side	10	11	2462	17	16.6	109.65%	0.148	0.162	-
	Hotspot	Back side	10	11	2462	17	16.6	109.65%	0.247	0.271	244
	Ποιδροι	Top side	10	11	2462	17	16.6	109.65%	0.027	0.030	-
		Left side	10	11	2462	17	16.6	109.65%	0.219	0.240	-

Tested HSTNH-F606V SAR at the worst case position.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
Aux	WLAN 802.11 b (Head)	LE Cheek	-	11	2462	17	16.6	109.65%	0.421	0.462	-
Aux	Hotspot	Back side	10	11	2462	17	16.6	109.65%	0.138	0.151	-

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WLAN 802.11a 5.2G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	36	5180	14	13.86	103.28%	1.290	1.332	245
		RE Cheek*	-	36	5180	14	13.86	103.28%	1.270	1.312	-
	WLAN	RE Cheek	-	40	5200	14	13.75	105.93%	0.890	0.943	-
Main	802.11 a 5.2G	RE Tilt	-	36	5180	14	13.86	103.28%	1.110	1.146	-
	(Head)	RE Tilt	-	40	5200	14	13.75	105.93%	0.845	0.895	-
	, ,	LE Cheek	-	36	5180	14	13.86	103.28%	0.402	0.415	-
		LE Tilt	-	36	5180	14	13.86	103.28%	0.446	0.461	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.2G Head.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 a 5.2G	RE Cheek	-	36	5180	14	13.86	103.28%	0.806	0.832	-

WLAN 802.11n(20M) 5.2G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	RE Cheek	-	44	5220	14	13.88	102.80%	0.970	0.997	246
	802.11	RE Cheek	-	48	5240	14	13.76	105.68%	0.742	0.784	-
Main	n(20M)	RE Tilt	-	44	5220	14	13.88	102.80%	0.865	0.889	-
	5.2G	LE Cheek	-	44	5220	14	13.88	102.80%	0.389	0.400	-
	(Head)	LE Tilt	-	44	5220	14	13.88	102.80%	0.402	0.413	-

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WLAN 802.11n(40M) 5.2G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance	Measured Avg. Power	Scaling	Averaged S (W/	_	Plot page
						(dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	38	5190	14	13.87	103.04%	0.989	1.019	-
	WLAN	RE Cheek	-	46	5230	14	13.75	105.93%	1.200	1.271	247
	802.11 n (40M)	RE Tilt	-	38	5190	14	13.87	103.04%	0.913	0.941	-
Main	5.2G	RE Tilt	-	46	5230	14	13.75	105.93%	1.120	1.186	-
IVICIII	(Head)	LE Cheek	-	38	5190	14	13.87	103.04%	0.305	0.314	-
		LE Tilt	-	38	5190	14	13.87	103.04%	0.328	0.338	-
	Body-	Front side	10	38	5190	14	13.87	103.04%	0.258	0.266	248
	worn	Back side	10	38	5190	14	13.87	103.04%	0.243	0.250	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN 802.11 n	Front side	0	38	5190	14	13.57	110.41%	1.100	1.214	249
Main	(40M) 5.2G	Back side	0	38	5190	14	13.57	110.41%	0.997	1.101	-
IVIAIII	(product specific	Top side	0	38	5190	14	13.57	110.41%	0.390	0.431	-
	10-g SAR)	Left side	0	38	5190	14	13.57	110.41%	0.460	0.508	-

Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.2G Body-worn & product specific 10-g SAR.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
					,	Tolerance (dBm)	(dBm)		Measured	Reported	
Main	Body- worn	Front side	10	38	5190	14	13.87	103.04%	0.113	0.116	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 n (40M) 5.2G (product specific 10-g SAR)	Front side	0	38	5190	14	13.57	110.41%	0.508	0.561	-

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WLAN 802.11n(40M) 5.2G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	•	Plot page
					,	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	RE Cheek	-	38	5190	14	13.83	103.99%	0.161	0.167	-
	802.11 n (40M)	RE Tilt	-	38	5190	14	13.83	103.99%	0.150	0.156	-
Aux	5.2G	LE Cheek	-	38	5190	14	13.83	103.99%	0.461	0.479	250
Aux	(Head)	LE Tilt	-	38	5190	14	13.83	103.99%	0.294	0.306	-
	Body-	Front side	10	38	5190	14	13.83	103.99%	0.145	0.151	-
	worn	Back side	10	38	5190	14	13.83	103.99%	0.279	0.290	251
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance	Measured Avg. Power (dBm)	Scaling	1((W/		Plot page
						(dRm)	(ubiii)		Measured	Reported	
	WLAN 802.11 n	Front side	0	38	5190	14	13.83	103.99%	0.649	0.675	-
Aux	(40M) 5.2G	Back side	0	38	5190	14	13.83	103.99%	0.664	0.691	-
Aux	(product specific	Top side	0	38	5190	14	13.83	103.99%	0.171	0.178	-
	10-g SAR)	Right side	0	38	5190	14	13.83	103.99%	0.807	0.839	252

Tested HSTNH-F606V SAR at the worst case position of WLAN 5.2G Aux.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
Aux	WLAN 802.11 n (40M) 5.2G (Head)	LE Cheek	-	38	5190	14	13.83	103.99%	0.363	0.377	ı
	Body- worn	Back side	10	38	5190	14	13.83	103.99%	0.229	0.238	-
						Max. Rated	Measured		Averaged	SAR over	
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	(W/ Measured	kg) Reported	Plot page

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WLAN 802.11ac(40M) 5.2G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	38	5190	14	13.60	109.65%	0.954	1.046	253
	WLAN	RE Cheek	-	46	5230	14	13.28	118.03%	0.924	1.091	-
Main	802.11	RE Tilt	-	38	5190	14	13.60	109.65%	0.922	1.011	-
IVIAIII	Main ac(40M) 5.2G	RE Tilt	-	46	5230	14	13.28	118.03%	0.854	1.008	-
	(Head)	LE Cheek	-	38	5190	14	13.60	109.65%	0.300	0.329	-
		LE Tilt	-	38	5190	14	13.60	109.65%	0.315	0.345	-

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WLAN 802.11a 5.3G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Position Distance (mm)		Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,			Tolerance (dBm)	(dBm)		Measured	Reported	. 0
		RE Cheek	-	52	5260	14	13.92	101.86%	1.310	1.334	254
		RE Cheek*	-	52	5260	14	13.92	101.86%	1.220	1.243	-
		RE Cheek	-	56	5280	14	13.87	103.04%	1.300	1.340	-
	WLAN	RE Cheek	-	60	5300	14	13.83	103.99%	1.280	1.331	-
Main	802.11 a	RE Cheek	-	64	5320	14	13.80	104.71%	1.260	1.319	-
IVIAIII	5.3G	RE Tilt	-	52	5260	14	13.92	101.86%	1.210	1.232	-
	(Head)	RE Tilt	-	56	5280	14	13.87	103.04%	1.190	1.226	-
		RE Tilt	-	60	5300	14	13.83	103.99%	1.150	1.196	-
		LE Cheek	-	52	5260	14	13.92	101.86%	0.427	0.435	-
		LE Tilt	-	52	5260	14	13.92	101.86%	0.375	0.382	-

repeated at the highest SAR measurement according to the KDB865664D01v01r04

Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.3G Head.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	kg)	Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	. •
Main	WLAN 802.11 a 5.3G (Head)	RE Cheek	-	56	5280	14	13.87	103.04%	0.725	0.747	-

WLAN 802.11n(20M) 5.3G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Antenna Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	_	Averaged SAR over 1g (W/kg)	
			,			Tolerance (dBm)	(dBm)		Measured	Reported	page
WLAN	RE Cheek	-	52	5260	14	13.71	106.91%	0.993	1.062	255	
	WLAN 802.11 Main n(20M)	RE Cheek	-	56	5280	14	13.68	107.65%	0.720	0.775	-
Main		RE Tilt	-	52	5260	14	13.71	106.91%	0.742	0.793	-
	5.3G	LE Cheek	-	52	5260	14	13.71	106.91%	0.312	0.334	-
(Head)	LE Tilt	-	52	5260	14	13.71	106.91%	0.289	0.309	-	

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WLAN 802.11n(40M) 5.3G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	_	Plot page
			, ,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	54	5270	14	13.16	121.34%	0.973	1.181	-
	WLAN 802.11 n (40M)	RE Cheek	-	62	5310	14	13.12	122.46%	1.030	1.261	256
		RE Tilt	-	54	5270	14	13.16	121.34%	0.955	1.159	-
Main	5.3G	RE Tilt	-	62	5310	14	13.12	122.46%	0.954	1.168	-
IVIAIII	(Head)	LE Cheek	-	54	5270	14	13.16	121.34%	0.318	0.386	-
		LE Tilt	-	54	5270	14	13.16	121.34%	0.341	0.414	-
В	Body-	Front side	10	54	5270	14	13.16	121.34%	0.282	0.342	257
	worn	Back side	10	54	5270	14	13.16	121.34%	0.241	0.292	-

Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.3G Body-worn.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	_	Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
Main	Body- worn	Front side	10	54	5270	14	13.16	121.34%	0.173	0.210	-

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The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN 802.11 n	Front side	0	54	5270	14	13.16	121.34%	1.080	1.310	258
Main	(40M) 5.3G	Back side	0	54	5270	14	13.16	121.34%	1.030	1.250	-
Main (pi	(product specific	Top side	0	54	5270	14	13.16	121.34%	0.404	0.490	-
	10-g SAR)	Left side	0	54	5270	14	13.16	121.34%	0.393	0.477	-

Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.3G product specific 10-g SAR.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 n (40M) 5.3G (product specific 10-g SAR)	Front side	0	54	5270	14	13.16	121.34%	0.791	0.960	-

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The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Mode Position	Position Distance (mm)	CH I	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	. 0
	WLAN	RE Cheek	-	62	5310	14	13.98	100.46%	0.191	0.192	-
	802.11 n (40M)	RE Tilt	-	62	5310	14	13.98	100.46%	0.187	0.188	-
Aux	5.3G	LE Cheek	-	62	5310	14	13.98	100.46%	0.607	0.610	259
Aux	(Head)	LE Tilt	-	62	5310	14	13.98	100.46%	0.316	0.317	-
	Body-	Front side	10	62	5310	14	13.98	100.46%	0.195	0.196	-
	worn	Back side	10	62	5310	14	13.98	100.46%	0.539	0.541	260
Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg.	Scaling	Averaged 10 (W/)g	Plot
					(IVII IZ)		Power		(**)	kg)	page
			()		(IVII IZ)	Tolerance	(dBm)		Measured	Reported	page
	WLAN 802.11 n	Front side	0	62	5310	Tolerance (dBm) 14		100.46%			page -
Διιχ		Front side Back side	, ,	62 62	` ′	(dRm)	(dBm)	100.46%	Measured	Reported	
Aux	802.11 n (40M)		0		5310	(dRm) 14	(dBm) 13.98		Measured 0.696	Reported 0.699	-

Tested HSTNH-F606V SAR at the worst case position of WLAN Aux 5.3G Body-worn & product specific 10-g SAR.

Antenna Mode	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
					, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
Aux	WLAN 802.11 n (40M) 5.3G (Head)	LE Cheek	-	62	5310	14	13.98	100.46%	0.364	0.366	-
	Body- worn	Back side	10	62	5310	14	13.98	100.46%	0.390	0.392	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dRm)	Measured Avg. Power (dBm)	Scaling	Averaged 10 (W/)g	Plot page
	WLAN 802.11 n					(OBM)					

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WLAN 802.11ac(40M) 5.3G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	- 1	Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	54	5270	14	13.15	121.62%	0.898	1.092	-
	WLAN	RE Cheek	-	62	5310	14	13.16	121.34%	1.020	1.238	262
Main	802.11	RE Tilt	-	54	5270	14	13.15	121.62%	0.845	1.028	-
IVIAIII	Main ac (40M) — 5.3G (Head)	RE Tilt	-	62	5310	14	13.16	121.34%	0.974	1.182	-
		LE Cheek	-	62	5310	14	13.16	121.34%	0.331	0.402	-
		LE Tilt	-	62	5310	14	13.16	121.34%	0.342	0.415	-

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WLAN 802.11a 5.6G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance	Measured Avg. Power	Scaling	Averaged S (W/	kg)	Plot page
						(dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	100	5500	13	12.98	100.46%	0.976	0.981	-
		RE Cheek	-	120	5600	13	12.78	105.20%	1.180	1.241	263
	WLAN	RE Cheek*	-	120	5600	13	12.78	105.20%	1.130	1.189	-
	802.11 a 5.6G	RE Tilt	-	100	5500	13	12.98	100.46%	0.985	0.990	-
Main	(Head)	RE Tilt	-	120	5600	13	12.78	105.20%	0.950	0.999	-
	, ,	LE Cheek	-	100	5500	13	12.98	100.46%	0.380	0.382	-
	Body-	LE Tilt	-	100	5500	13	12.98	100.46%	0.453	0.455	-
		Front side	10	100	5500	13	12.98	100.46%	0.290	0.291	264
	worn	Back side	10	100	5500	13	12.98	100.46%	0.188	0.189	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN 802.11 a	Front side	0	100	5500	13	12.98	100.46%	1.030	1.035	265
Main	5.6G (product	Back side	0	100	5500	13	12.98	100.46%	0.652	0.655	-
IVIAIII	specific	Top side	0	100	5500	13	12.98	100.46%	0.456	0.458	-
	10-g SAR)	Left side	0	100	5500	13	12.98	100.46%	0.331	0.333	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

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Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.6G.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,			Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 a 5.6G (Head)	RE Cheek	-	120	5600	13	12.78	105.20%	0.696	0.732	-
	Body- worn	Front side	10	100	5500	13	12.98	100.46%	0.222	0.223	-
						Max. Rated	Measured		Averaged	SAR over	
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max.	Avg. Power	Scaling	10 (W/)g	Plot page
Antenna	Mode	Position		СН		•	Avg.	Scaling	10)g	

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The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Antenna Mode	Position Distance (mm)		CH Freq. (MHz)		Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	_	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	140	5700	13	12.76	105.68%	0.203	0.215	-
	WLAN	RE Tilt	-	140	5700	13	12.76	105.68%	0.106	0.112	-
	802.11 a 5.6G	LE Cheek	-	100	5500	13	12.62	109.14%	0.707	0.772	-
Aux	(Head)	LE Cheek	-	140	5700	13	12.76	105.68%	0.793	0.838	266
	` '	LE Tilt	-	140	5700	13	12.76	105.68%	0.388	0.410	-
	Body-	Front side	10	140	5700	13	12.76	105.68%	0.283	0.299	-
	worn	Back side	10	140	5700	13	12.76	105.68%	0.740	0.782	267
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
			, ,		, ,	Tolerance	(dBm)		Measured	Reported	
	WLAN	Front side	0	140	5700	13	12.76	105.68%	0.869	0.918	-
	802.11 a 5.6G	Back side	0	140	5700	13	12.76	105.68%	1.410	1.490	-
Aux	(product	Top side	0	140	5700	13	12.76	105.68%	0.077	0.081	-
	specific 10-g	Right side	0	100	5500	13	12.62	109.14%	2.050	2.237	-
	SAR)	Right side	0	140	5700	13	12.76	105.68%	2.260	2.388	268

Tested HSTNH-F606V SAR at the worst case position of WLAN Aux 5.6G Head & product specific 10-g SAR.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	
Aux	WLAN 802.11 a 5.6G (Head)	LE Cheek	-	140	5700	13	12.76	105.68%	0.676	0.714	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	•	SAR over og (kg) Reported	Plot page
Aux	WLAN 802.11 a 5.6G (product specific 10-g SAR)	Right side	0	140	5700	13	12.76	105.68%	1.980	2.092	-

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WLAN 802.11n(20M) 5.6G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	kg)	Plot page
			,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	RE Cheek	-	100	5500	13	12.78	105.20%	0.819	0.862	269
	802.11	RE Cheek	-	120	5600	13	12.52	111.69%	0.712	0.795	-
Main	n(20M)	RE Tilt	-	100	5500	13	12.78	105.20%	0.745	0.784	-
	5.6G	LE Cheek	-	100	5500	13	12.78	105.20%	0.289	0.304	-
	(Head)	LE Tilt	-	100	5500	13	12.78	105.20%	0.328	0.345	-

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WLAN 802.11ac(80M) 5.6G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	122	5610	13	12.72	106.66%	0.872	0.930	270
	WLAN	RE Cheek	-	138	5690	13	12.39	115.08%	0.738	0.849	-
	802.11 ac (80M)	RE Tilt	-	122	5610	13	12.72	106.66%	0.757	0.807	-
Main	5.6G	RE Tilt	-	138	5690	13	12.39	115.08%	0.724	0.833	-
IVIAIII	(Head)	LE Cheek	-	122	5610	13	12.72	106.66%	0.401	0.428	-
		LE Tilt	-	122	5610	13	12.72	106.66%	0.479	0.511	-
	Body-	Front side	10	122	5610	13	12.72	106.66%	0.226	0.241	271
	worn	Back side	10	122	5610	13	12.72	106.66%	0.134	0.143	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN 802.11	Front side	0	122	5610	13	12.72	106.66%	0.993	1.059	272
Main	ac (80M) 5.6G	Back side	0	122	5610	13	12.72	106.66%	0.427	0.455	-
THOM?	(product specific	Top side	0	122	5610	13	12.72	106.66%	0.281	0.300	-
	10-g	Left side	0	122	5610	13	12.72	106.66%	0.252	0.269	-

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The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			,			Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	RE Cheek	-	122	5610	13	12.92	101.86%	0.181	0.184	-
	802.11a c (80M)	RE Tilt	-	122	5610	13	12.92	101.86%	0.094	0.096	-
Aux	5.6G	LE Cheek	-	122	5610	13	12.92	101.86%	0.737	0.751	273
Aux	(Head)	LE Tilt	-	122	5610	13	12.92	101.86%	0.368	0.375	-
	Body-	Front side	10	122	5610	13	12.92	101.86%	0.286	0.291	-
	worn	Back side	10	122	5610	13	12.92	101.86%	0.769	0.783	274
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/)g	Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	Front side	0	122	5610	13	12.92	101.86%	0.949	0.967	-
	802.11	Back side	0	122	5610	13	12.92	101.86%	1.320	1.345	-
Aux	ac (80M)	Top side	0	122	5610	13	12.92	101.86%	0.091	0.093	-
	5.6G	Right side	0	122	5610	13	12.92	101.86%	2.050	2.088	-
	(Hand)	Right side	0	138	5690	13	12.83	103.99%	2.090	2.173	275

Tested HSTNH-F606V SAR at the worst case position of WLAN Aux 5.6G Body-worn.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			,		,	Tolerance (dBm)	(dBm)		Measured	Reported	. 3
Aux	Body- worn	Back side	10	122	5610	13	12.92	101.86%	0.653	0.665	-

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WLAN 802.11a 5.8G

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	_	Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
		RE Cheek	-	157	5785	13	12.72	106.66%	0.752	0.802	-
		RE Cheek	-	165	5825	13	12.73	106.41%	0.916	0.975	276
	WLAN	RE Cheek*	-	165	5825	13	12.73	106.41%	0.902	0.960	-
	802.11 a 5.8G	RE Tilt	-	157	5785	13	12.72	106.66%	0.807	0.861	-
Main	(Head)	RE Tilt	-	165	5825	13	12.73	106.41%	0.805	0.857	-
	, ,	LE Cheek	-	165	5825	13	12.73	106.41%	0.358	0.381	-
		LE Tilt	-	165	5825	13	12.73	106.41%	0.499	0.531	-
	Body-	Front side	10	165	5825	13	12.73	106.41%	0.210	0.223	277
	worn	Back side	10	165	5825	13	12.73	106.41%	0.140	0.149	-

^{* -} repeated at the highest SAR measurement according to the KDB865664D01v01r04

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged 10 (W/	0	Plot page
			, ,		·	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN 802 11 a	Front side	0	165	5825	13	12.73	106.41%	0.906	0.964	278
Main	802.11 a 5.8G	Back side	0	165	5825	13	12.73	106.41%	0.457	0.486	-
IVIAIII	(product specific	Top side	0	165	5825	13	12.73	106.41%	0.512	0.545	-
	10-g SAR	Left side	0	165	5825	13	12.73	106.41%	0.260	0.277	-

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Tested HSTNH-F606V SAR at the worst case position of WLAN Main 5.8G..

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)		Measured	Reported	
Main	WLAN 802.11 a 5.8G (Head)	RE Cheek	-	165	5825	13	12.73	106.41%	0.681	0.725	-
Wall	Body- worn	Front side	10	165	5825	13	12.73	106.41%	0.206	0.219	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	10	SAR over og (kg) Reported	Plot page
Main	WLAN 802.11 a 5.8G (product specific 10-g SAR	Front side	0	165	5825	13	12.73	106.41%	0.565	0.601	-

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The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	vg. Scaling (W/kg)			Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
	WLAN	RE Cheek	-	149	5745	13	12.73	106.41%	0.144	0.153	-
	802.11a	RE Tilt	-	149	5745	13	12.73	106.41%	0.084	0.089	-
Aux	5.8G	LE Cheek	-	149	5745	13	12.73	106.41%	0.599	0.637	279
Aux	(Head)	LE Tilt	-	149	5745	13	12.73	106.41%	0.154	0.164	-
	Body-	Front side	10	149	5745	13	12.73	106.41%	0.206	0.219	-
	worn	Back side	10	149	5745	13	12.73	106.41%	0.543	0.578	280
Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	_	SAR over)g /kg)	Plot page
Antenna	Mode	Position		СН		Avg.	Avg.	Scaling	10)g	Plot page
Antenna	WLAN	Position Front side		CH 149		Avg. Power + Max. Tolerance	Avg. Power	Scaling 106.41%	1((W/)g /kg)	
	WLAN 802.11 a 5.8G		(mm)		(MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	J	10 (W/ Measured	ng (kg) Reported	page
Antenna	WLAN 802.11 a	Front side	(mm) 0	149	(MHz) 5745	Avg. Power + Max. Tolerance (dRm) 13	Avg. Power (dBm) 12.73	106.41%	10 (W/ Measured 0.782	Reported 0.832	page -

Tested HSTNH-F606V SAR at the worst case position of WLAN Aux 5.8G.

Antenna Mode	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
			, ,		, ,	Tolerance (dBm)	(dBm)		Measured	Reported	
Aux	WLAN 802.11a 5.8G (Head)	LE Cheek	-	149	5745	13	12.73	106.41%	0.389	0.414	-
	Body- worn	Back side	10	149	5745	13	12.73	106.41%	0.389	0.414	-
Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dRm)	Measured Avg. Power (dBm)	Scaling	Averaged 10 (W/ Measured)g	Plot page
Aux	WLAN 802.11 a 5.8G (product specific 10-g SAR)	Right side	0	149	5745	13	12.73	106.41%	0.978	1.041	-

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Bluetooth

The data of HSTNH-F606 from the SAR report of FCC ID: B94HHF606.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot
									Measured	Reported	page
Main	Bluetooth(GFSK)	Front	0	39	2441	4.00	2.05	156.68%	0.005	0.008	-
		Back	0	39	2441	4.00	2.05	156.68%	0.012	0.019	282

Tested HSTNH-F606V SAR at the worst case position.

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot
									Measured	Reported	page
Main	Bluetooth(GFSK)	Back	0	39	2441	4.00	2.05	156.68%	0.012	0.019	-

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Head	Body-Worn	Hotspot	Hand
GSM + 2.4GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	No	No
GPRS + 2.4GHz Wi-Fi Main/Aux/MIMO	No	Yes	Yes	No
UMTS + 2.4GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	Yes	No
LTE + 2.4GHz Wi-Fi Main/Aux/MIMO	No	Yes	Yes	No
CDMA + 2.4GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	Yes	No
GSM + 5GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	No	No
GPRS + 5GHz Wi-Fi Main/Aux/MIMO	No	Yes	No	No
UMTS + 5GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	No	No
LTE + 5GHz Wi-Fi Main/Aux/MIMO	No	Yes	No	No
CDMA + 5GHz Wi-Fi Main/Aux/MIMO	Yes	Yes	No	No
GSM + Bluetooth + 2.4GHz Wi-Fi Aux	No	Yes	No	No
GPRS + Bluetooth + 2.4GHz Wi-Fi Aux	No	Yes	Yes	No
UMTS + Bluetooth + 2.4GHz Wi-Fi Aux	No	Yes	Yes	No
CDMA + Bluetooth + 2.4GHz Wi-Fi Aux	No	Yes	Yes	No
LTE + Bluetooth + 2.4GHz Wi-Fi Aux	No	Yes	Yes	No
GSM + Bluetooth + 5GHz Wi-Fi Aux	No	Yes	No	No
GPRS + Bluetooth + 5GHz Wi-Fi Aux	No	Yes	No	No
UMTS + Bluetooth + 5GHz Wi-Fi Aux	No	Yes	No	No
LTE + Bluetooth + 5GHz Wi-Fi Aux	No	Yes	No	No
CDMA + Bluetooth + 5GHz Wi-Fi Aux	No	Yes	No	No

Note

- 1. Bluetooth and WLAN Main share the same antenna path, and BT may transmit simultaneously with WLAN Aux.
- 2. Based on KDB447498D01 note 36, when SAR test exclusion is allowed by other published RF exposure KDB procedures, such as the 2.5 cm hotspot mode SAR test exclusion for an edge or surface, then estimated SAR is not required to determine simultaneous SAR test exclusion. Also, based on KDB648474D04 note 6, simultaneous transmission SAR for 10-g extremity SAR requires consideration only when standalone 10-g SAR is required.
- 3. Since the extremity SAR is not required for WWAN/WLAN 2.4GHz based on hotspot SAR < 1.2 addressed in KDB 648474D04, and the extremity SAR is only required for WLAN 5GHz, hence the simultaneous transmission analysis for extremity is not required.

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- 4. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission (for 802.11n/ac) is the same with that used in standalone transmission (for 802.11a/b/g/n/ac), and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the SAR measurement for 802.11n/ac
- 5. The device doesn't support VOLTE function.
- 6. Held to ear configurations are not applicable to Bluetooth and therefore were not considered for simultaneous transmission.
- 7. The device does not support DTM function.

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3.1 Estimated SAR calculation

According to KDB447498 D01v05 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR =
$$\frac{\text{Max.tune up power(mW)}}{\text{Min.test separation distance(mm)}} \times \frac{\sqrt{f(GHz)}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

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.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

ı	reported S	SAR WWAN a	nd WLAN 2	.4GHz, ΣSAR	evaluation	
Frequency	D	osition	rep	orted SAR / W	//kg	ΣSAR
band	г	38111011	WWAN	WLAN Main	WLAN Aux	<1.6W/kg
		Right cheek	0.360	0.975	0.135	1.470
GSM 850	Head	Right tilt	0.190	0.686	0.079	0.955
CON 650	ricad	Left cheek	0.243	0.345	0.467	1.055
		Left tilt	0.149	0.326	0.216	0.691
		Front	0.614	0.265	0.162	1.041
		Back	0.450	0.383	0.271	1.104
GPRS 850	Hotspot	Тор	-	0.219	0.030	-
(1Dn4UP)		Bottom	0.184	-	-	-
		Right	0.311	-	-	-
		Left	1	0.229	0.240	-
		Right cheek	0.397	0.975	0.135	1.507
GSM 1900	Head	Right tilt	0.087	0.686	0.079	0.852
GSW 1900	Head	Left cheek	0.199	0.345	0.467	1.011
		Left tilt	0.104	0.326	0.216	0.646
		Front	0.574	0.265	0.162	1.001
		Back	0.693	0.383	0.271	1.347
GPRS 1900	Hotspot	Тор	-	0.219	0.030	-
(1Dn3UP)	ιισιδροί	Bottom	0.306	-	-	-
		Right	0.239	-	-	-
		Left	-	0.229	0.240	-

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	reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation											
Frequency	D/	osition	re	//kg	ΣSAR							
band	г	osition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
		Right cheek	0.701	0.975	0.135	1.811						
Hea	Hood	Right tilt	0.165	0.686	0.079	0.930						
	пеао	Left cheek	0.340	0.345	0.467	1.152						
		Left tilt	0.187	0.326	0.216	0.729						
WCDMA		Front	0.899	0.265	0.162	1.326						
Band II		Back	1.041	0.383	0.271	1.695						
	Hotspot	Тор	-	0.219	0.030	-						
	поізроі	Bottom	0.479	-	-	-						
	,	Right	0.405	-	-	-						
		Left	-	0.229	0.240	-						

Conditions	Conditions Position		Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
WCDMA Band II	Right cheek	0.701	4.77	6.24	-0.03	1.676	101.7	0.021	SPLSR
WLAN Main	Trigin Cheek	0.975	1.71	-3.45	-0.11	1.070	101.7	0.021	0.04, Not required



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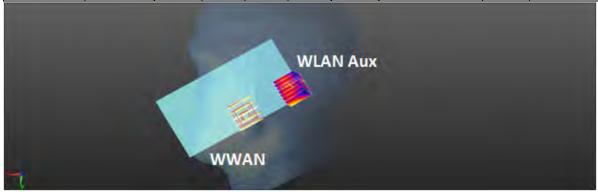
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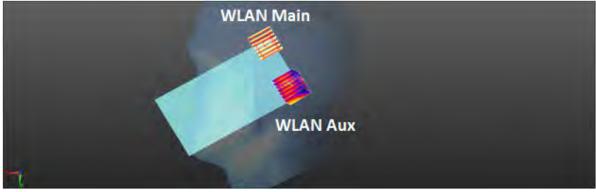


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Conditions Position	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	x	у	z	(w/kg) Distance (mm)		SAR Test		
WCDMA Band II	Right cheek	0.701	4.77	6.24	-0.03	0.836	69.6	0.011	SPLSR 0.04,
WLAN Aux	Trigitt cheek	0.135	-1.05	2.47	0.53	0.830	09.0	0.011	Not required



Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (\M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	y z (W/kg) Distance (mm)			SAR Test		
WLAN Main	Right cheek	0.975	1.71	-3.45	-0.11	1.11	65.7	0.018	SPLSR
WLAN Aux	Night cheek	0.135	-1.05	2.47	0.53	1.11	03.7	0.018	0.04, Not required



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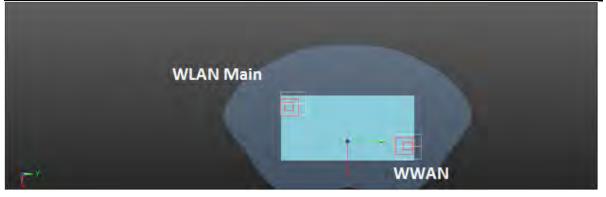
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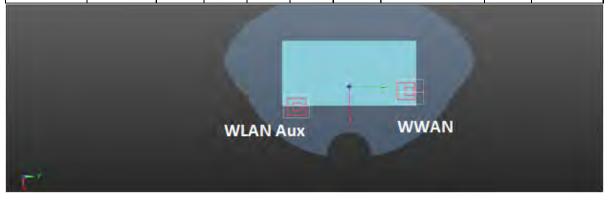


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Conditions	Conditions Position (Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			x	У	z	(W/Kg)	(mm)		SAR Test
WCDMA Band II	Back side	1.041	2.40	7.09	-0.08	1.424	151.7	0.011	SPLSR
WLAN Main	Dack Side	0.383	-2.92	-7.12	-0.09	1.424	131.7	0.011	0.04, Not required



Conditions	tions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
	(1)	(W/kg)	х	У	Z	(117.19)	(mm)		SAR Test
WCDMA Band II	Back side	1.041	2.40	7.09	-0.08	1.312	132.1	0.011	SPLSR 0.04.
WLAN Aux	Dack Side	0.271	4.30	-5.98	-0.10	1.312	132.1	0.011	Not required



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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
			(W/kg) x		z				SAR Test
WLAN Main	Back side	0.383	-2.92	-7.12	-0.09	0.654	73.1	0.007	SPLSR
WLAN Aux	Back Side	0.271	4.30	-5.98	-0.10	0.054	73.1	0.007	0.04, Not required



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	reported	SAR WWAN	and WLAN 2	2.4GHz, ΣSAR	evaluation								
Frequency	D _c	ocition	re	reported SAR / W/kg									
band	Position		WWAN	WLAN Main	WLAN Aux	<1.6W/kg							
		Right cheek	0.724	0.975	0.135	1.834							
Head	Hood	Right tilt	0.157	0.686	0.079	0.922							
	пеао	Left cheek	0.319	0.345	0.467	1.131							
		Left tilt	0.188	0.326	0.216	0.730							
WCDMA		Front	0.866	0.265	0.162	1.293							
Band IV		Back	0.917	0.383	0.271	1.571							
	Hotspot	Тор	-	0.219	0.030	-							
	Ποιδροί	Bottom	0.493	-	-	-							
		Right	0.333	-	-	-							
		Left	-	0.229	0.240	-							

Conditions	Position	SAR Value	· · ·			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			x	У	z	(vv/kg)	(mm)		SAR Test
WCDMA Band IV	Right cheek	0.724	4.85	6.12	-0.04	1.699	100.7	0.022	SPLSR
WLAN Main	Right cheek	0.975	1.71	-3.45	-0.11	1.099	100.7	0.022	0.04, Not required



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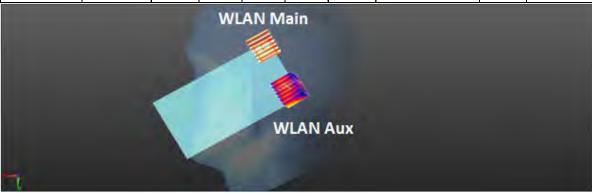


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Conditions Position	SAR Value	e			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
	(W/kg)	х	У	z	(W/Kg)	(mm)		SAR Test	
WCDMA Band IV	Right cheek	0.724	4.85	6.12	-0.04	0.859	69.6	0.011	SPLSR 0.04.
WLAN Aux	Night cheek	0.135	-1.05	2.47	0.53	0.839	09.0	0.011	Not required



Conditions	Position	SAR Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission		
			х	у	z	(W/kg)	(mm)		SAR Test
WLAN Main	Right cheek	0.975	1.71	-3.45	-0.11	1.11	65.7	0.018	SPLSR 0.04,
WLAN Aux	Night Cheek	0.135	-1.05	2.47	0.53	'.''	03.7	0.010	Not required



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reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation											
Frequency	D _c	Position		ported SAR / W	//kg	ΣSAR					
band	۲۷	JSIIIOH	WWAN	WLAN Main	WLAN Aux	<1.6W/kg					
		Right cheek	0.360	0.975	0.135	1.470					
	Head	Right tilt	0.181	0.686	0.079	0.946					
	Head	Left cheek	0.231	0.345	0.467	1.043					
		Left tilt	0.132	0.326	0.216	0.674					
WCDMA		Front	0.638	0.265	0.162	1.065					
Band V		Back	0.511	0.383	0.271	1.165					
	Hotopot	Тор	-	0.219	0.030	-					
	Hotspot	Bottom	0.302		-	-					
		Right	0.417		-	-					
		Left	-	0.229	0.240	-					

reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation										
Frequency	Position		rep	orted SAR / W	//kg	ΣSAR				
band			WWAN	WLAN Main	WLAN Aux	<1.6W/kg				
	Front	0.928	0.265	0.162	1.355					
		Back	0.888	0.383	0.271	1.542				
LTE FDD	Hotopot	Тор	ı	0.219	0.030	-				
Band II	поіѕроі	Hotspot Bottom		-	-	-				
		Right		0.342	-	-	-			
		Left	-	0.229	0.240	-				

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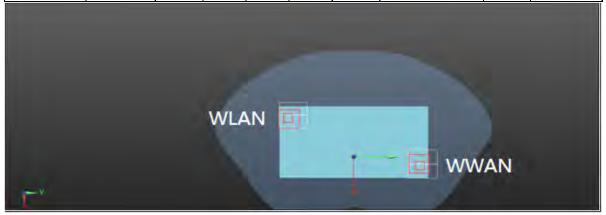
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reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation											
Frequency	Position		rep	orted SAR / W	//kg	ΣSAR					
band			WWAN	WLAN Main	WLAN Aux	<1.6W/kg					
		Front	0.806	0.265	0.162	1.233					
		Back	1.120	0.383	0.271	1.774					
LTE FDD	Hotepot	Тор	-	0.219	0.030	-					
Band IV	Hotspot	Bottom	0.457	-	-	-					
		Right	0.305	-	=	-					
		Left	-	0.229	0.240	-					

Conditions	Position	SAR Value (W/kg)	/alue //kg)		(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			Х	У	Z				
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.503	154.24	0.012	SPLSR 0.04.
WLAN Main	Dack Side	0.383	-2.92	-7.12	-0.09	1.505	154.24	0.012	Not required



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Conditions	Conditions Position		Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	х	У	z	(W/Kg)	(mm)		SAR Test
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.391	122.2	0.012	SPLSR 0.04,
WLAN Aux	Dack Side	0.271	4.30	-5.98	-0.10	1.391	133.2	133.2 0.012	



Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	х	у	z	(vv/kg)	(mm)		SAR Test	
WLAN Main	Back side	0.383	-2.92	-7.12	-0.09	0.654	73.1	0.007	SPLSR 0.04.
WLAN Aux	Dack Side	0.271	4.30	-5.98	-0.10	0.054	73.1	0.007	Not required



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		AD MANA(A):		40U- 5045		
	reported S	AK WWAN a	ı	.4GHz, ΣSAR		
Frequency	Po	sition	-	orted SAR / W		ΣSAR
band			WWAN	WLAN Main		<1.6W/kg
		Front	0.650	0.265	0.162	1.077
		Back	0.517	0.383	0.271	1.171
LTE FDD	Hotspot	Тор	-	0.219	0.030	-
Band V	riotopot	Bottom	0.402	-	-	-
		Right	0.385	-	-	-
		Left	-	0.229	0.240	-
		Front	1.045	0.265	0.162	1.472
		Back	0.820	0.383	0.271	1.474
LTE FDD	Llotopot	Тор	-	0.219	0.030	-
Band VII Ho	Hotspot	Bottom	0.425	-	-	-
		Right	-	_	-	-
		Left	0.648	0.229	0.240	1.117
		Front	0.187	0.265	0.162	0.614
		Back	0.137	0.383	0.271	0.791
LTE FDD	Hotspot	Тор	-	0.219	0.030	-
Band XII		Bottom	0.272	_	-	-
		Right	0.240	_	-	-
		Left	0.065	0.229	0.240	0.534
		Front	0.746	0.265	0.162	1.173
		Back	0.390	0.383	0.271	1.044
LTE FDD	l latarat	Тор	-	0.219	0.030	-
Band XIII	Hotspot	Bottom	0.427	_	-	-
		Right	0.396	-	-	-
		Left	-	0.229	0.240	-
		Front	0.924	0.265	0.162	1.351
		Back	0.773	0.383	0.271	1.427
LTE FDD		Тор	-	0.219	0.030	-
Band XXX	Hotspot	Bottom	0.712	-	-	-
		Right	-	-	-	-
		Left	0.559	0.229	0.240	1.028

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	reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation											
Frequency	ncy Position		re	ported SAR / W	//kg	ΣSAR						
band	FC	วรแบบ	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
		Right cheek	0.446	0.975	0.135	1.556						
	Head	Right tilt	0.294	0.686	0.079	1.059						
	Head	Left cheek	0.378	0.345	0.467	1.190						
		Left tilt	0.244	0.326	0.216	0.786						
CDMA		Front	1.067	0.265	0.162	1.494						
Callular BC0		Back	0.437	0.383	0.271	1.091						
	Hotspot	Тор	ı	0.219	0.030	-						
	поізроі	Bottom	0.346	-	-	-						
		Right	0.402	-	-	-						
		Left	-	0.229	0.240	-						

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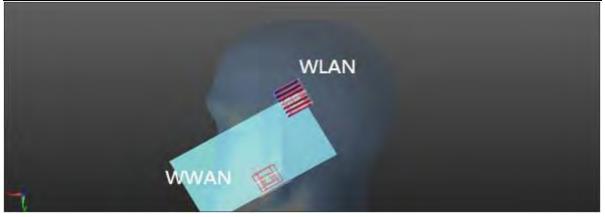
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	reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation										
Frequency	Position		re	ported SAR / W	//kg	ΣSAR					
band	г	วธแบบ	WWAN	WLAN Main	WLAN Aux	<1.6W/kg					
		Right cheek	0.780	0.975	0.135	1.890					
	Head	Right tilt	0.291	0.686	0.079	1.056					
	Head	Left cheek	0.369	0.345	0.467	1.181					
		Left tilt	0.219	0.326	0.216	0.761					
CDMA PCS		Front	1.065	0.265	0.162	1.492					
BC1		Back	1.037	0.383	0.271	1.691					
	Hotspot	Тор	-	0.219	0.030	•					
	Ποιδροι	Bottom	0.524	-	-	•					
		Right	0.413	-	-	-					
		Left	-	0.229	0.240	-					

Conditions	Conditions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
CDMA PCS BC1	Right cheek	0.78	5.03	6.58	0.07	1.755	105.67	0.022	SPLSR 0.04,
WLAN Main	Right cheek	0.975	1.71	-3.45	-0.11	1.755	103.07	0.022	Not required



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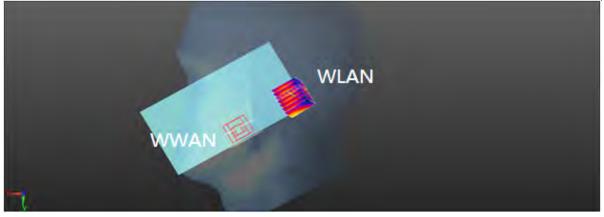
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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission		
		(W	(W/kg)		x	У	z	(Wing)	(mm)		SAR Test
	MA PCS BC1	Right cheek	0.78	5.03	6.58	0.07	0.915	73.5	0.012	SPLSR 0.04.	
WL	_AN Aux	Night Cheek	0.135	-1.05	2.47	0.53	0.915	73.5	0.012	Not required	



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	z	(vv/kg)	(mm)		SAR Test
WLAN Main	Right cheek	0.975	1.71	-3.45	-0.11	1.11	65.7	0.018	SPLSR
WLAN Aux	Right cheek	0.135	-1.05	2.47	0.53	1.11	05.7	0.016	0.04, Not required



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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(vv/kg)	(mm)		SAR Test
CDMA PCS BC1	Back side	1.037	2.55	7.87	-0.02	1.42	159.57	0.011	SPLSR 0.04,
WLAN Main	Dack side	0.383	-2.92	-7.12	-0.09	1.42	139.37	0.011	Not required



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
			(W/kg)	х	у	Z	, 0,	(mm)		SAR Test
	CDMA PCS BC1	Back side	1.037	2.55	7.87	-0.02	1.308	139.6	0.011	SPLSR 0.04,
	WLAN Aux	Dack Side	0.271	4.30	-5.98	-0.10	1.306	139.0	0.011	Not required



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Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	(mm)		SAR Test
WLAN Main	Back side	0.383	-2.92	-7.12	-0.09	0.654	73.1	0.007	SPLSR
WLAN Aux	Dack Side	0.271	4.30	-5.98	-0.10	0.054	73.1	0.007	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	D	osition	rep	orted SAR / W	//kg	ΣSAR							
band	P	OSILION	WWAN	WLAN Main	WLAN Aux	<1.6W/kg							
		Right cheek	0.360	1.340	0.215	1.915							
	Head	Right tilt	0.190	1.232	0.188	1.610							
GSM 850	Heau	Left cheek	0.243	0.435	0.838	1.516							
GSM 850					Left tilt	0.149	0.531	0.410	1.090				
	Body-	Front	0.483	0.342	0.299	1.124							
	Worn	Back	0.560	0.292	0.783	1.635							

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(Wing)	(mm)		SAR Test
GSM 850	Dight shook	0.360	4.76	5.34	-0.16	1.7	93.7	0.024	SPLSR
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.7	93.7	0.024	0.04, Not required



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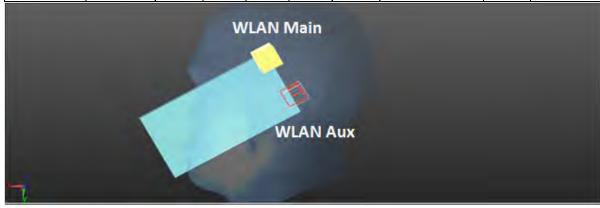


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Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z		(mm)		SAR Test
GSM 850	Pight chook	0.360	4.76	5.34	-0.16	0.575	77.5	0.006	SPLSR 0.04,
WLAN Aux	Right cheek	0.215	-1.28	0.56	0.63	0.575	77.5	0.006	Not required
				-					



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	х	у	Z		(mm)		SAR Test
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR 0.04,
WLAN Aux	Night cheek	0.215	-1.28	0.56	0.63	1.555	J2.2	0.037	Not required



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Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)		У	z	(W/kg)	(mm)		SAR Test
GSM 850	Right tilt	0.190	2.96	1.54	-0.30	1.422	42.4	0.040	SPLSR
WLAN Main	J	1.232	1.94	-2.58	-0.18	1.422	42.4	0.040	0.04, Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(1)		x	у	z	(vv/kg)	(mm)		SAR Test
GSM 850	Right tilt	0.190	2.96	1.54	-0.30	0.378	54.8	0.004	SPLSR
WLAN Aux	Right the	0.188	-1.50	-0.43	2.21	0.376	34.0	0.004	0.04, Not required



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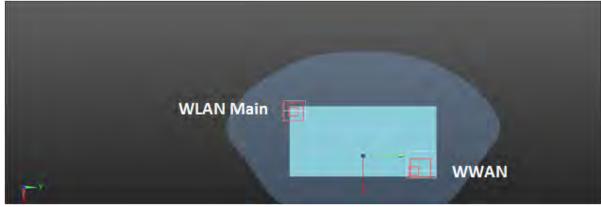


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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(W/Kg)	(mm)		SAR Test
WLAN Main	Diaht tilt	1.232	1.94	-2.58	-0.18	1.42	47	0.036	SPLSR
WLAN Aux	Right tilt	0.188	-1.50	-0.43	2.21	1.42	47	0.036	0.04, Not required



Conditions Position		SAR Value	Coordinates (cm)		(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	z	(vv/kg)	(mm)		SAR Test
GSM 850	Back side	0.560	3.50	6.35	3.11	0.852	158.9	0.005	SPLSR
WLAN Main	Dack Side	0.292	-3.60	-7.50	-0.10	0.002	136.9	0.005	0.04, Not required



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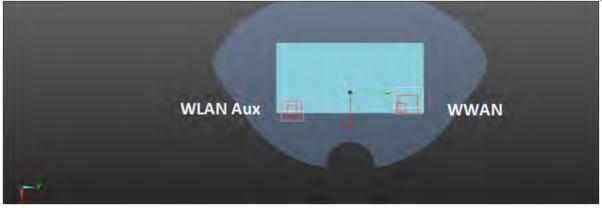
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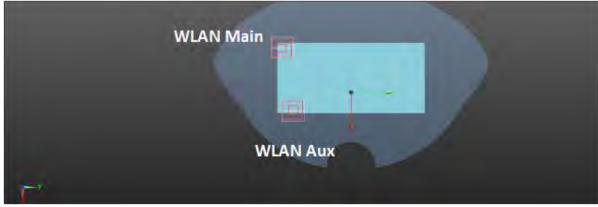


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Conditions Position		SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
	(W/kg)	x	У	z	(vv/kg)			SAR Test	
GSM 850	Back side	0.560	3.50	6.35	3.11	1.343	128.9	0.012	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.343	120.9	0.012	0.04, Not required



Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	x	У	z	(W/Ng)	(mm)		SAR Test	
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	Б	ocition	rep	orted SAR / W	//kg	ΣSAR							
band	P	osition	WWAN			<1.6W/kg							
	Head GSM 1900	Right cheek	0.397	1.340	0.215	1.952							
		Right tilt	0.087	1.232	0.188	1.507							
GSM 1000		Left cheek	0.199	0.435	0.838	1.472							
G3W 1900		Left tilt	0.104	0.531	0.410	1.045							
	Body-	Front	0.522	0.342	0.299	1.163							
	Worn	Back	0.602	0.292	0.783	1.677							

Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z	(W/kg)	(mm)		SAR Test
GSM 1900	Right cheek	0.397	4.83	6.46	0.01	1.737	104.6	0.022	SPLSR 0.04.
WLAN Main	Trigiti cheek	1.340	1.84	-3.56	-0.08	1.737	104.0	0.022	Not required



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Conditions Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	x	у	z	(vv/kg)	(mm)		SAR Test
GSM 1900	Right cheek	0.397	4.83	6.46	0.01	0.612	85.2	0.006	SPLSR
WLAN Aux	Trigin Cheek	0.215	-1.28	0.56	0.63	0.012	03.2	0.000	0.04, Not required



Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z	(W/kg)	(mm)		SAR Test
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.027	SPLSR 0.04,
WLAN Aux	Night Cheek	0.215	-1.28	0.56	0.63	1.555	52.2	0.037	Not required



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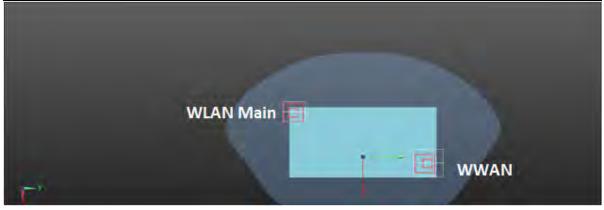
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Со	Conditions Position		SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	x	У	z	` "	(mm)			
GS	SM 1900	Back side	0.602	2.56	6.94	-0.08	0.894	157	0.005	SPLSR
WL	AN Main	Back Side	0.292	-3.60	-7.50	-0.10	0.694	157	0.003	0.04, Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
GSM 1900	Back side	0.602	2.56	6.94	-0.08	1.385	131.3	0.012	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.363	131.3	0.012	Not required



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Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.073	74.7	0.013	Not required



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reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	D	osition	re	ported SAR / W	//kg	ΣSAR						
band	P	วรแบบ	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
	Right cheek	0.701	1.340	0.215	2.256							
	Head	Right tilt	0.165	1.232	0.188	1.585						
WCDMA	пеац	Left cheek	0.340	0.435	0.838	1.613						
Band II		Left tilt	0.187	0.531	0.410	1.128						
	Body-	Front	0.899	0.342	0.299	1.540						
	Worn	Back	1.041	0.292	0.783	2.116						

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test	
WCDMA Band II	Dight shook	0.701	4.77	6.24	-0.03	2.041	102.4	0.028	SPLSR
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.05	2.041	102.4	0.028	0.04, Not required



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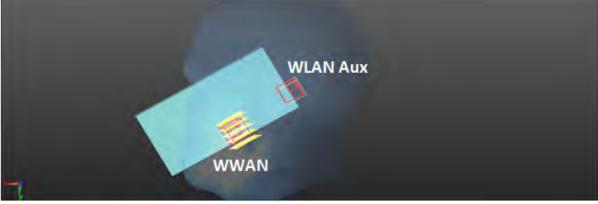
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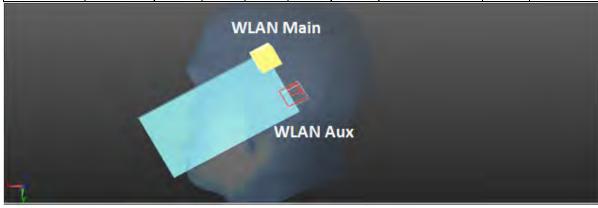


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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z	(vv/kg)	(mm)		SAR Test
WCDMA Band II	Right cheek	0.701	4.77	6.24	-0.03	0.916	83.4	0.011	SPLSR 0.04,
WLAN Aux	Right cheek	0.215	-1.28	0.56	0.63	0.916	63.4	0.011	Not required



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(1		х	у	z	(vv/kg)	(mm)		SAR Test
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR 0.04.
WLAN Aux	Trigin Cheek	0.215	-1.28	0.56	0.63	1.555	J2.Z	0.037	Not required



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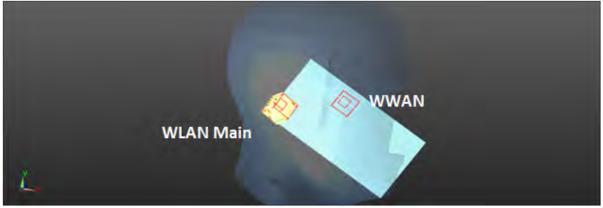
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Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)		у	z	(W/Ng)	(mm)		SAR Test
WCDMA Band II	Left cheek	0.340	5.94	-0.65	-0.08	0.775	75.4	0.009	SPLSR
WLAN Main	Left Cheek	0.435	-1.49	-1.90	0.41	0.775	75.4	0.009	0.04, Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(W/Kg)	(mm)		SAR Test
WCDMA Band II	Left cheek	0.340	5.94	-0.65	-0.08	1.178	38.2	0.033	SPLSR 0.04.
WLAN Aux	Left Grieek	0.838	3.61	2.38	-0.18	1.170	30.2	0.033	Not required



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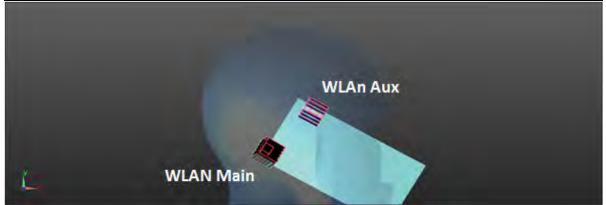
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Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			х	у	Z	(vv/kg)	(mm)		SAR Test
WLAN Main	Left cheek	0.435	-1.49	-1.90	0.41	1.273	66.8	0.022	SPLSR 0.04.
WLAN Aux	Len cheek	0.838	3.61	2.38	-0.18	1.273	00.0	0.022	Not required



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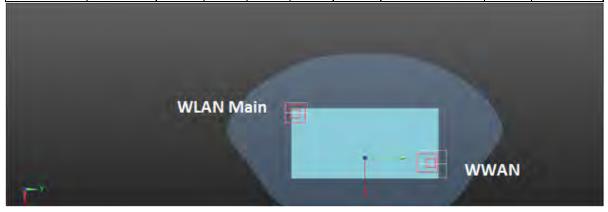
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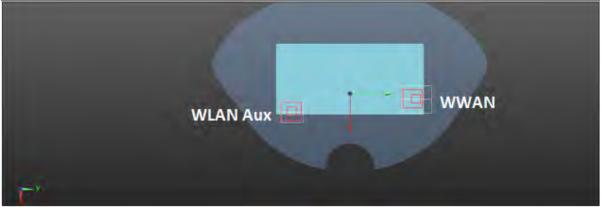


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Conditions	Position	SAR Value	Coordinates (cm) ΣSAR (W/kg)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	x	У	z	(W/Ng)	(mm)		SAR Test
WCDMA Band II	Back side	1.041	2.40	7.09	-0.08	1.333	157.8	0.010	SPLSR 0.04,
WLAN Main	Dack side	0.292	-3.60	-7.50	-0.10	1.555	137.0	0.010	Not required



Conditions	ditions Position SAR Value (W/kg)			rdinates		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
			Х	У	Z		(mm)		
WCDMA Band II	Back side	1.041	2.40	7.09	-0.08	1.824	133	0.019	SPLSR 0.04,
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.024	133	0.019	Not required



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Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/F		х	У	z	(W/kg)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Back Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	D	- iti	re	ported SAR / W	//kg	ΣSAR							
band	PO	osition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg							
		Right cheek	0.724	1.340	0.215	2.279							
	Head	Right tilt	0.157	1.232	0.188	1.577							
WCDMA	Body-	Left cheek	0.319	0.435	0.838	1.592							
Band IV		Left tilt	0.188	0.531	0.410	1.129							
		Front	0.866	0.342	0.299	1.507							
	Worn	Back	0.917	0.292	0.783	1.992							

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/k		x	У	z	(W/Kg)	(mm)		SAR Test
WCDMA Band IV	Right cheek	0.724	4.85	6.12	-0.04	2.064	101.4	0.029	SPLSR 0.04.
WLAN Main	Night Cheek	1.340	1.84	-3.56	-0.08	2.004	101.4	0.029	Not required



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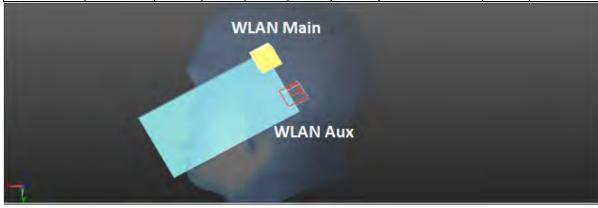


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Conditions	Conditions Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z				SAR Test
WCDMA Band IV	Right cheek	0.724	4.85	6.12	-0.04	0.939	83.1	0.011	SPLSR 0.04,
WLAN Aux	Trigin Cheek	0.215	-1.28	0.56	0.63	0.333	00.1	0.011	Not required



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance		Simultaneous Transmission
			x	у	z	(W/Kg)	(mm)		SAR Test
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR 0.04,
WLAN Aux	Trigint Cheek	0.215	-1.28	0.56	0.63	1.555	J2.2	0.037	Not required



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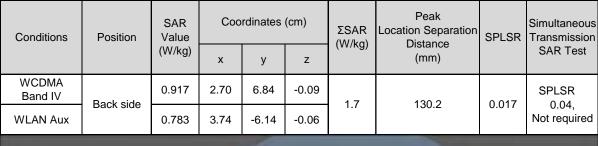
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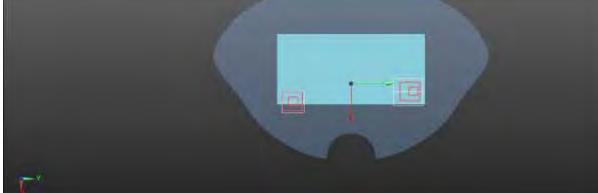
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Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			х	у	Z	(VV/Kg)	(mm)		SAR Test
WCDMA Band IV	· Back side	0.917	2.70	6.84	-0.09	1.209	156.6	0.008	SPLSR 0.04, Not required
WLAN Main		0.292	-3.60	-7.50	-0.10				





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Conditions Posi	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)			SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation													
Frequency	<u>.</u>		//kg	ΣSAR										
band	P	osition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg								
	Head	Right cheek	0.360	1.340	0.215	1.915								
		Right tilt	0.181	1.232	0.188	1.601								
WCDMA		Left cheek	0.231	0.435	0.838	1.504								
Band V		Left tilt	0.132	0.531	0.410	1.073								
	Body- Worn	Front	0.638	0.342	0.299	1.279								
		Back	0.511	0.292	0.783	1.586								

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(vv/kg)	(mm)		SAR Test
WCDMA Band V	Right cheek	0.360	4.90	5.42	-0.14	1.7	94.9	0.023	SPLSR 0.04.
WLAN Main	Night Cheek	1.340	1.84	-3.56	-0.08	1.7	34.3	0.023	Not required



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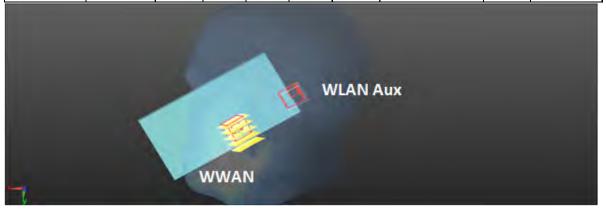
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	Conditions Pos	Position	SAR Value			(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
	WCDMA Band V	Right cheek	0.360	4.90	5.42	-0.14	0.575	79	0.006	SPLSR 0.04,
	WLAN Aux		0.215	-1.28	0.56	0.63	0.575	79	0.000	Not required



Conditions	Position	Position SAR Value (W/kg)	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	у	z	(W/Kg)			
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR
WLAN Aux	Night cheek	0.215	-1.28	0.56	0.63	1.555	J2.2	0.037	0.04, Not required



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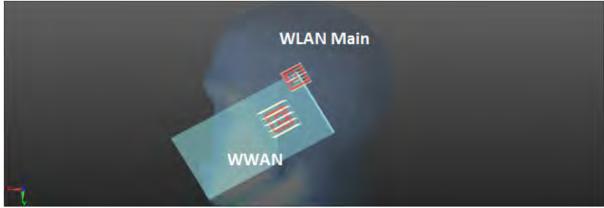
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Conditions		Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	х	у	z	(W/kg)	(mm)		SAR Test		
	VCDMA Band V	Right tilt	0.181	2.96	1.54	-0.29	1.413	42.4	0.040	SPLSR
WL	_AN Main	Right the	1.232	1.94	-2.58	-0.18	1.413	42.4	0.040	0.04, Not required



Conditions	Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(W/kg)	(mm)		SAR Test
WCDMA Band V	Right tilt	0.181	2.96	1.54	-0.29	0.369	54.8	0.004	SPLSR 0.04,
WLAN Aux	Trigitt tilt	0.188	-1.50	-0.43	2.21	0.309	34.0	0.004	Not required



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Conditions Position	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
WLAN Main	Right tilt	1.232	1.94	-2.58	-0.18	1.42	47	0.036	SPLSR 0.04.
WLAN Aux	Trigitt tilt	0.188	-1.50	-0.43	2.21	1.42	77	0.030	Not required



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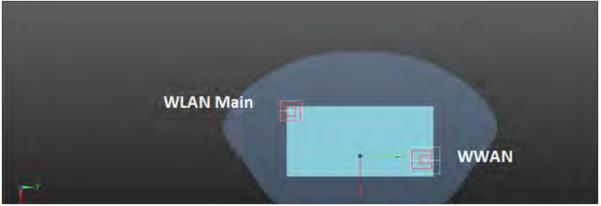
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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	Do	scition	rep	orted SAR / W	//kg	ΣSAR							
band	FC	Position		WLAN Main	WLAN Aux	<1.6W/kg							
LTE FDD	Body-	Front	0.928	0.342	0.299	1.569							
Band II	Worn	Back	0.888	0.292	0.783	1.963							

Conditions	Position	SAR Value (W/kg)	Coo	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE FDD Band	Back side	0.888	2.25	6.94	-0.06	1 100	155.8	0.008	SPLSR
WLAN Main	Dauk Side	0.292	-3.60	-7.50	-0.10	1.180	155.8	0.008	0.04, Not required



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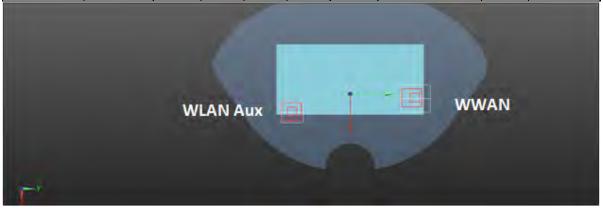
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Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z				SAR Test
LTE FDD Band II	Back side	0.888	2.25	6.94	-0.06	1.671	131.5	0.016	SPLSR 0.04,
WLAN Aux		0.783	3.74	-6.14	-0.06	1.071	131.3	0.010	Not required



Conditions	Position	Position SAR Value (W/kg)	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			х	У	z	(W/kg)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR 0.04,
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.073	14.1	0.013	Not required



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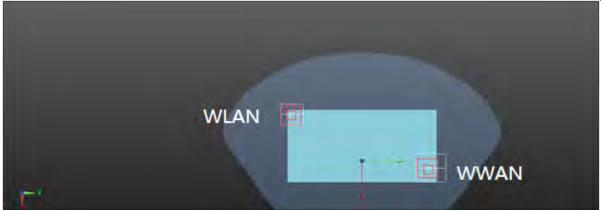
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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation											
Frequency	Do	sition	rep	ΣSAR								
band	FC	Sition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
LTE FDD	Body-	Front	0.806	0.342	0.299	1.447						
Band IV	Worn	Back	1.120	0.292	0.783	2.195						

Conditions	ons Position SAR Value (W/kg		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
			Х	У	Z		(mm)		
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.412	160.3	0.010	SPLSR 0.04,
WLAN Main	Dack side	0.292	-3.60	-7.50	-0.10	1.412	100.5	0.010	Not required



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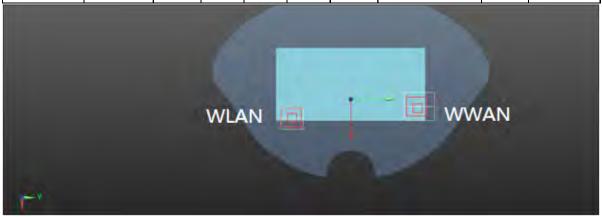
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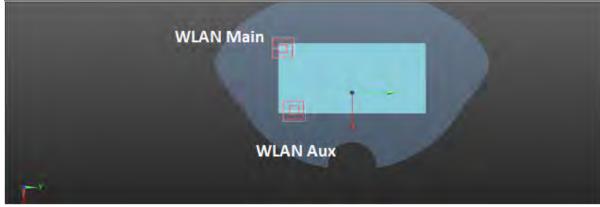


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Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(*****9)	(mm)		SAR Test
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.903	134.2	0.020	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.903	134.2	0.020	Not required



Conditions	Conditions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			x	У	z	(vv/kg)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR 0.04,
WLAN Aux	Back Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	Not required



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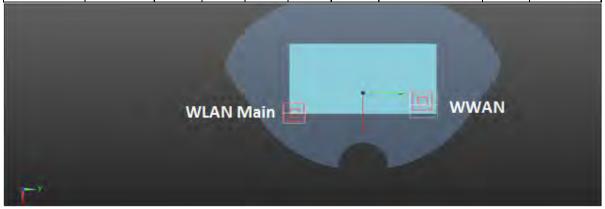
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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation											
Frequency Position reported SAR / W/kg ΣS/												
band	۲	osition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
LTE FDD	Body-	Front	0.650	0.342	0.299	1.291						
Band V	Worn	Back	0.517	0.292	0.783	1.592						
LTE FDD	Body-	Body- Front		0.342	0.299	1.686						
Band VII Worn	Back	0.820	0.292	0.783	1.895							

Conditions	Conditions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
			x	У	z	(VV/Ng)	(mm)		SAR Test	
LTE FDD Band VII	Front side	1.045	3.02	6.60	-0.08	1.387	139.8	0.012	SPLSR 0.04,	
WLAN Main	i ioni side	0.342	4.02	-7.34	-0.06	1.307	139.0	0.012	Not required	



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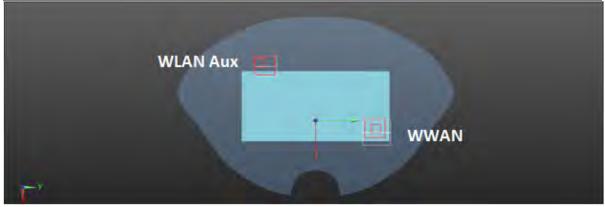
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Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(VV/Kg)	(mm)		SAR Test
LTE FDD Band VII	Front side	1.045	3.02	6.60	-0.08	1.344	139.4	0.011	SPLSR
WLAN Aux	i ioni side	0.299	-3.50	-5.72	-0.08	1.544	139.4	0.011	0.04, Not required



Conditions	Position	SAR Value (W/kg)	Coo	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WLAN Main	Front side	0.342	4.02	-7.34	-0.06	0.641	76.9	0.007	SPLSR
WLAN Aux	Front side	0.299	-3.50	-5.72	-0.08	0.641	76.9	0.007	0.04, Not required



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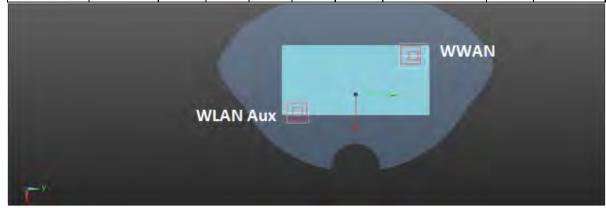


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Conditions	Conditions Position		Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test	
			х	у	Z		(mm)		OAR Test
LTE FDD Band VII	Back side	0.820	-2.98	6.24	-0.07	1.112	137.5	0.009	SPLSR 0.04.
WLAN Main			-3.60	-7.50	-0.10	1.112	137.3	0.009	Not required



Conditions	Conditions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
			x	У	z	(VV/Ng)	(mm)		SAR Test	
LTE FDD Band VII	Back side	0.820	-2.98	6.24	-0.07	1.603	140.9	0.014	SPLSR 0.04,	
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.003	140.9	0.014	Not required	



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Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation											
Frequency	D	- 141	rep	orted SAR / W	//kg	ΣSAR						
band	PC	sition	WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
LTE FDD	Body-	Front	0.187	0.342	0.299	0.828						
Band XII	Worn	Back	0.137	0.292	0.783	1.212						
LTE FDD	Body-	Front	0.746	0.342	0.299	1.387						
Band XIII	Worn	Back	0.390	0.292	0.783	1.465						
LTE FDD		Front	0.924	0.342	0.299	1.565						
Band XXX		Back	0.773	0.292	0.783	1.848						

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
_TE FDD Band XXX	Back side	0.773	-3.56	6.34	-0.11	1.065	138.4	0.008	SPLSR<0.04,
WLAN Main	Dack Side	0.292	-3.60	-7.50	-0.10	1.003	130.4	0.000	Not required



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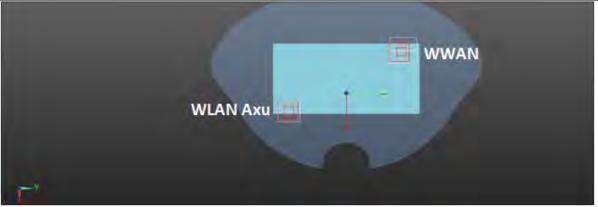
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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	(mm)		SAR Test
LTE FDD Band XXX		0.773	-3.56	6.34	-0.11	1.556	144.6	0.013	SPLSR
WLAN Aux	Back side -	0.783	3.74	-6.14	-0.06	1.556	144.0	0.013	0.04, Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(- 3)	(mm)		SAR Test
WLAN Main	Back side -	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR 0.04.
WLAN Aux		0.783	3.74	-6.14	-0.06	1.073	/4./	0.013	Not required



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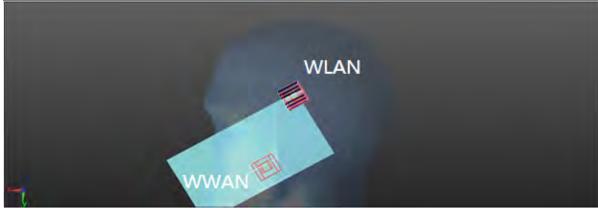


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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation												
Frequency	D	osition	re	ported SAR / W	//kg	ΣSAR							
band	P	DSILION	WWAN	WWAN WLAN Main WLAN Aux									
		Right cheek	0.446	1.340	0.215	2.001							
	Head	Right tilt	0.294	1.232	0.188	1.714							
CDMA		Left cheek	0.378	0.435	0.838	1.651							
Callular BC0		Left tilt	0.244	0.531	0.410	1.185							
	Body-	Front	1.187	0.342	0.299	1.828							
	Worn	Back	0.703	0.292	0.783	1.778							

Conditions	Position	SAR Value (W/kg)	Coo	rdinates y	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
CDMA Callular BC0	Right cheek	0.446	4.78	5.17	-0.14	1.786	92.1	0.026	SPLSR
WLAN Main		1.340	1.84	-3.56	-0.05	1.700	92.1	0.026	0.04, Not required



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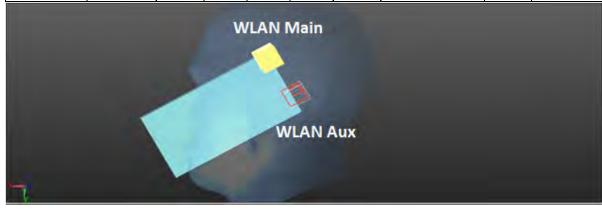


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	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			(W/kg)	x	У	z	(W/kg)	(mm)		SAR Test
	CDMA Callular BC0	Right cheek	0.446	4.78	5.17	-0.14	0.661	76.59	0.007	SPLSR 0.04,
	WLAN Aux		0.215	-1.28	0.56	0.63	0.001	70.59	0.007	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR 0.04,
WLAN Aux	Night cheek	0.215	-1.28	0.56	0.63	1.555	32.2	0.037	Not required



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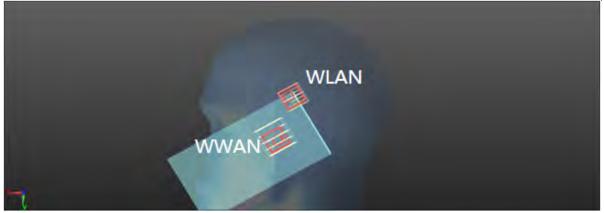
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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(W/Kg)	(mm)		SAR Test
CDMA Callular BC0	Diahttilt	0.294	3.32	2.21	-0.20	1.526	49.3	0.038	SPLSR
WLAN Main	Right tilt	1.232	1.94	-2.58	-0.18	1.320	49.3	0.036	0.04, Not required



Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
	(W/kg)		х	у	z		(mm)		SAIN 1651
CDMA Callular BC0	Right tilt	0.294	3.32	2.21	-0.20	0.482	60	0.006	SPLSR 0.04,
WLAN Aux		0.188	-1.50	-0.43	2.21	0.402	00	0.000	Not required



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Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(W/kg)	(mm)		SAR Test
WLAN Main	Diaht tilt	1.232	1.94	-2.58	-0.18	1.42	47	0.036	SPLSR
WLAN Aux	Right tilt -	0.188	-1.50	-0.43	2.21	1.42	47	0.036	0.04, Not required



С	Conditions	Position	SAR Value (W/kg)	/alue		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test	
				Х	У	Z		(111111)		
Ca	CDMA allular BC0	Left cheek	0.378	5.19	-4.25	-0.22	0.813	71	0.010	SPLSR 0.04,
W	LAN Main			-1.90	0.41	0.013	71	0.010	Not required	



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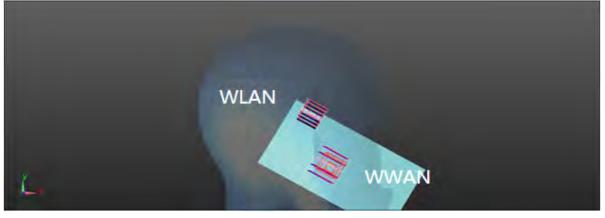
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Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
CDMA Callular BC0	Left cheek	0.378	5.19	-4.25	-0.22	1.216	68.18	0.020	SPLSR
WLAN Aux	Len cheek	0.838	3.61	2.38	-0.18	1.210	00.10	0.020	0.04, Not required



Conditions	Conditions Position		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)		У	z	(vv/kg)	(mm)		SAR Test
WLAN Main	Left cheek	0.435	-1.49	-1.90	0.41	1.273	66.8	0.022	SPLSR 0.04,
WLAN Aux	Left Cheek	0.838	3.61	2.38	-0.18	1.273	00.0	0.022	Not required



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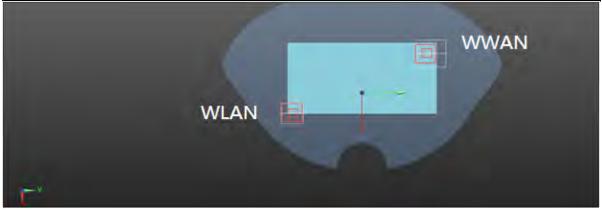
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Conditions	ditions Position Val	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
CDMA Callular BC0	CO Front	1.187	-3.01	7.24	-0.08	1.529	161.9	0.012	SPLSR 0.04.
WLAN Main	TIOIIL	0.342	4.02	-7.34	-0.06	1.329	101.9	0.012	Not required



Conditions	Position	SAR Value (W/kg)	Coordinates		(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
CDMA Callular BC0	Front	1.187	-3.01	7.24	-0.08	1.486	129.69	0.014	SPLSR
WLAN Aux	FIORE	0.299	-3.50	-5.72	-0.08	1.400	129.69	0.014	0.04, Not required



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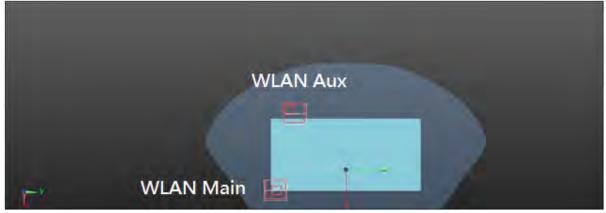
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Conditions	Position	SAR Value	alue \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	Х	у	Z	(vv/kg)	(mm)		SAR Test
WLAN Main	Front	0.342	4.02	-7.34	-0.06	0.641	76.93	0.007	SPLSR
WLAN Aux	TIOIIL	0.299	-3.50	-5.72	-0.08	0.041	70.93	0.007	0.04, Not required



Conditions	Position	SAR Value	Value		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg) x y		У	z	(W/Kg)	(mm)		SAR Test
CDMA Callular BC0	Back side	0.703	1.78	7.09	-0.03	0.995	155.5	0.006	SPLSR 0.04,
WLAN Main	Dack Side	0.292	-3.60	-7.50	-0.10	0.995	155.5	0.000	Not required



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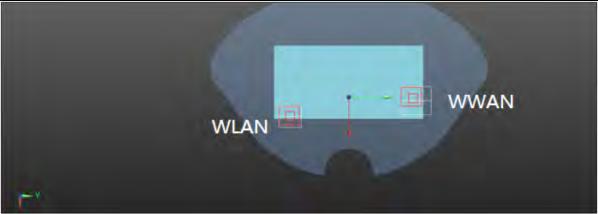
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Conditions	Position SAR Value (W/kg)	_	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		х	у	Z	(vv/kg)	(mm)		SAR Test	
CDMA Callular BC0	Back side	0.703	1.78	7.09	-0.03	1.486	133.7	0.014	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.460	133.7	0.014	0.04, Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	x	у	Z (VV/F		(mm)		
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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	reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation											
Frequency	D/	neition	re	reported SAR / W/kg								
band	Position		WWAN	WLAN Main	WLAN Aux	<1.6W/kg						
		Right cheek	0.780	1.340	0.215	2.335						
	Head	Right tilt	0.291	1.232	0.188	1.711						
CDMA		Left cheek	0.369	0.435	0.838	1.642						
PCS BC1		Left tilt	0.219	0.531	0.410	1.160						
	Body- Worn	Front	1.190	0.342	0.299	1.831						
		Back	1.124	0.292	0.783	2.199						

Cor	nditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
	DMA S BC1	Dialet ale a ale	0.780	5.03	6.58	0.07	2.12	106.3	0.029	SPLSR
WL	AN Main	Right cheek	1.340	1.84	-3.56	-0.05	2.12	100.3	0.029	0.04, Not required



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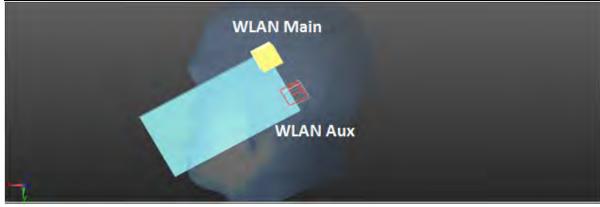
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Conditions F	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
	(W/k	(W/kg)	х	У	z	(VV/Kg)			
CDMA PCS BC1	Dight shool	0.780	5.03	6.58	0.07	0.995	87.43	0.011	SPLSR
WLAN Aux	Right cheek	0.215	-1.28	0.56	0.63	0.995	07.43	0.011	0.04, Not required



Conditions Position	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	x	у	z	(VV/Kg)	(mm)		SAR Test	
WLAN Main	Right cheek	1.340	1.84	-3.56	-0.08	1.555	52.2	0.037	SPLSR
WLAN Aux	Right cheek	0.215	-1.28	0.56	0.63	1.555	52.2	0.037	0.04, Not required



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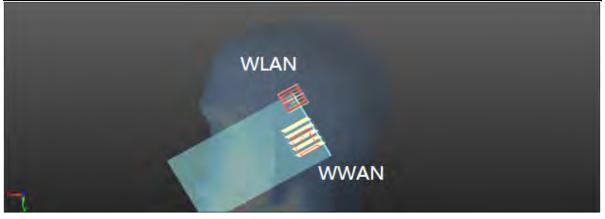
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Conditions		SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	x	У	z				
CDMA PCS BC1	Right tilt	0.291	-0.56	1.52	0.14	1.523	48.1	0.039	SPLSR 0.04,
WLAN Main	ixigiit tiit	1.232	1.94	-2.58	-0.18	1.323	40.1	0.039	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(vv/kg)	(mm)		SAR Test
CDMA PCS BC1	Right tilt	0.291	-0.56	1.52	0.14	0.479	30.0	0.011	SPLSR
WLAN Aux	Kigiit tiit	0.188	-1.50	-0.43	2.21	0.479	30.0	0.011	0.04, Not required



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Conditions		SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	х	У	z				
WLAN Main	Diaht tilt	1.232	1.94	-2.58	-0.18	1.42	47	0.036	SPLSR
WLAN Aux	Right tilt	0.188	-1.50	-0.43	2.21	1.42	47	0.036	0.04, Not required



Conditions	Position	SAR Value (W/kg)	Coo	Coordinates		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
CDMA PCS BC1	l oft also als	0.369	4.90	-1.70	-0.30	0.804	64.3	0.011	SPLSR 0.04,
WLAN Main	Left cheek	0.435	-1.49	-1.90	0.41	0.604	04.3	0.011	Not required



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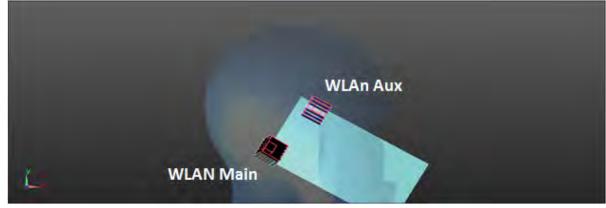
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Conditions	s Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z				SAR Test
CDMA PCS BC1	1 - 44 - 1 1-	0.369	4.90	-1.70	-0.30	1.207	42.85	0.031	SPLSR 0.04,
WLAN Aux	Left cheek	0.838	3.61	2.38	-0.18	1.207	42.00	0.031	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(VV/Kg)	(mm)		SAR Test
WLAN Main	Left cheek	0.435	-1.49	-1.90	0.41	1.273	66.8	0.022	SPLSR
WLAN Aux	Len cheek	0.838	3.61	2.38	-0.18	1.273	00.8	0.022	0.04, Not required



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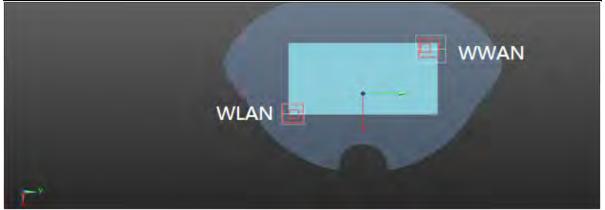
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Conditions	nditions Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)		У	z	(W/Kg)	(mm)		SAR Test
CDMA PCS BC1	Front	1.190	-3.61	6.77	-0.05	1.532	160.4	0.012	SPLSR 0.04,
WLAN Main	TIOH	0.342	4.02	-7.34	-0.06	1.552	100.4	0.012	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
CDMA PCS BC1	Front	1.190	-3.61	6.77	-0.05	1.489	124.91	0.015	SPLSR 0.04.
WLAN Aux	TIOH	0.299	-3.50	-5.72	-0.08	1.409	124.91	0.015	Not required



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Conditions	tions Position Valu	SAR Value	Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z	(W/kg)	(mm)		SAR Test
WLAN Main	Front	0.342	4.02	-7.34	-0.06	0.641	76.93	0.007	SPLSR
WLAN Aux		0.299	-3.50	-5.72	-0.08	0.041	70.93	0.007	0.04, Not required



Conditions	Conditions Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
CDMA PCS BC1	Back side	1.124	2.54	7.87	-0.02	1.416	165.5	0.010	SPLSR 0.04,
WLAN Main	Dack Side	0.292	-3.60	-7.50	-0.10	1.410	100.0	0.010	Not required



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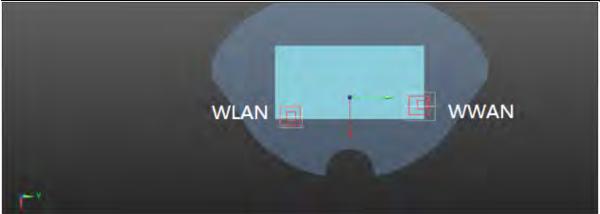
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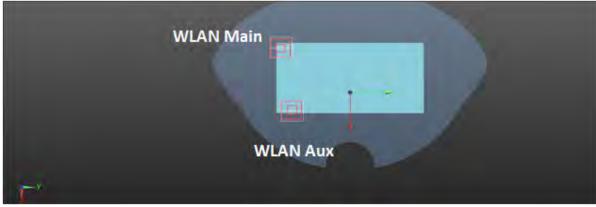


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Conditic	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
	CDMA PCS BC1	Back side	1.124	2.54	7.87	-0.02	1.907	140.61	0.019	SPLSR 0.04.
	WLAN Aux	Back side	0.783	3.74	-6.14	-0.06	1.907	140.01	0.019	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(VV/Ng)	(mm)		SAR Test
WLAN Main	Back side	0.292	-3.60	-7.50	-0.10	1.075	74.7	0.015	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.075	74.7	0.015	0.04, Not required



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reported S/	AK WWAN	and Blueto	1			
Frequency	Pos	sition	repo	rted SAR / \	vv/kg	ΣSAR
band	. 00		WWAN	Bluetooth	WLAN Aux	<1.6W/kg
GSM 850	Body-	Front	0.483	0.008	0.162	0.653
G3W 630	Worn	Back	0.560	0.019	0.271	0.850
GSM	Body-	Front	0.522	0.008	0.162	0.692
1900	Worn	Back	0.602	0.019	0.271	0.892
WCDMA	Body-	Front	0.899	0.008	0.162	1.069
Band II	Worn	Back	1.041	0.019	0.271	1.331
WCDMA	Body-	Front	0.866	0.008	0.162	1.036
Band IV	Worn	Back	0.917	0.019	0.271	1.207
WCDMA	Body-	Front	0.638	0.008	0.162	0.808
Band V	Worn	Back	0.511	0.019	0.271	0.801
LTE FDD	Body-	Front	0.928	0.008	0.162	1.098
Band II	Worn	Back	0.888	0.019	0.271	1.178
LTE FDD	Body-	Front	0.806	0.008	0.162	0.976
Band IV	Worn	Back	1.120	0.019	0.271	1.410
LTE FDD	Body-	Front	0.650	0.008	0.162	0.82
Band V	Worn	Back	0.517	0.019	0.271	0.807
LTE FDD	Body-	Front	1.045	0.008	0.162	1.215
Band VII	Worn	Back	0.820	0.019	0.271	1.110
LTE FDD	Body-	Front	0.187	0.008	0.162	0.357
Band XII	Worn	Back	0.137	0.019	0.271	0.427
LTE FDD	Body-	Front	0.746	0.008	0.162	0.916
Band XIII	Worn	Back	0.390	0.019	0.271	0.68
LTE FDD	Body-	Front	0.924	0.008	0.162	1.094
Band XXX	Worn	Back	0.773	0.019	0.271	1.063
CDMA	Body-	Front	1.187	0.008	0.162	1.357
Callular	Worn	Back	0.703	0.019	0.271	0.993
CDMA	Body-	Front	1.190	0.008	0.162	1.36
PCS BC1	Worn	Back	1.124	0.019	0.271	1.414

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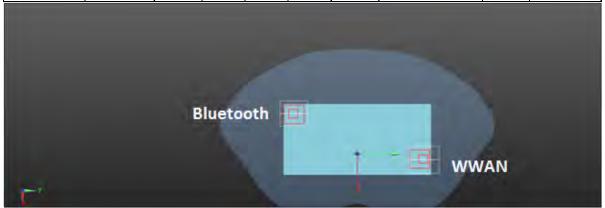
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reported	reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation												
Frequency	_		repo	rted SAR / \	N/kg	ΣSAR							
band	Pos	ition	WWAN	Bluetooth	WLAN Aux	<1.6W/kg							
GSM 850	Body- Worn Body- Worn	Front	0.483	0.005	0.299	0.787							
GSW 650		Back	0.560	0.012	0.783	1.355							
GSM		Front	0.522	0.005	0.299	0.826							
1900		Back	0.602	0.012	0.783	1.397							
WCDMA	Body-	Front	0.899	0.005	0.299	1.203							
Band II	Worn	Back	1.041	0.012	0.783	1.836							

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
WCDMA Band	Back side	1.041	2.40	7.09	-0.08	1.053	150.9	0.007	SPLSR 0.04.
Bluetooth	Dack Side	0.012	-3.30	-6.88	-0.08	1.055	150.9	0.007	Not required



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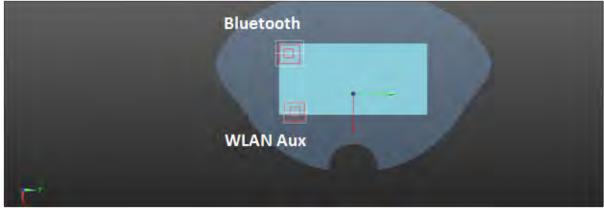


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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(W/Kg)	(mm)		SAR Test
WCDMA Band II		1.041	2.40	7.09	-0.08	1.824	133	0.019	SPLSR
WLAN Aux	Back side -	0.783	3.74	-6.14	-0.06	1.024	133	0.019	0.04, Not required



Conditions	Position	OSITION I VAILLE I	Peak Location Separation W/kg) Distance		Simultaneous Transmission				
		(W/kg)	х	у	Z	(vv/kg)	(mm)		SAR Test
Bluetooth	Back side	0.012	-3.30	-6.88	-0.08	0.795	70.8	0.010	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	0.795	70.8	0.010	0.04, Not required



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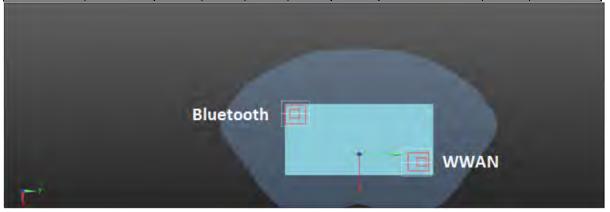
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reported	reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation												
Frequency			repo	reported SAR / W/kg									
band	Pos	ition	WWAN	Bluetooth	WLAN Aux	<1.6W/kg							
WCDMA	Body-	Front	0.866	0.005	0.299	1.17							
Band IV	Worn	Back	0.917	0.012	0.783	1.712							
WCDMA	Body-	Front	0.638	0.005	0.299	0.942							
Band V	Worn	Back	0.511	0.012	0.783	1.306							

Conditions	Position	SAR Value (W/kg)	Coo	rdinates y	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA Band	Back side	0.917	2.70	6.84	-0.09	0.929	149.7	0.006	SPLSR
Bluetooth	Dack Side	0.012	-3.30	-6.88	-0.08	0.929	149.7	0.006	0.04, Not required



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Conditions	Position	SAR Value	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	z	(VV/Kg)	(mm)		SAR Test
WCDMA Band IV	Back side	0.917	2.70	6.84	-0.09	1.7	130.2	0.017	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.7	130.2	0.017	Not required
T.									

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	z	(vv/kg)	(mm)		SAR Test
Bluetooth	Back side	0.012	-3.30	-6.88	-0.08	0.795	70.8	0.010	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	0.795	70.0	0.010	0.04, Not required



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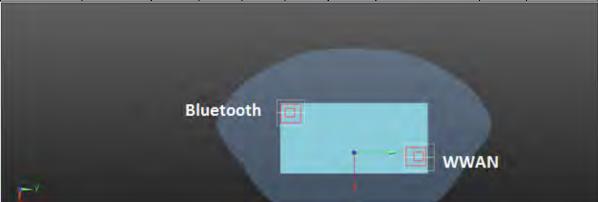
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reported	reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation											
Frequency	_		reported SAR / W/kg ΣSAR									
Frequency band	Position		WWAN	Bluetooth	WLAN Aux	<1.6W/kg						
LTE FDD	Body-	Front	0.928	0.005	0.299	1.232						
Band II	Band II Worn		0.888	0.012	0.783	1.683						

Conditions Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
			х	У	z	(vv/kg)	(mm)		SAR Test
LTE FDD Band II		0.888	2.25	6.94	-0.06	0.900	148.9	0.006	SPLSR
Bluetooth	Back side		-3.30	-6.88	-0.08	0.900	140.9	0.000	0.04, Not required



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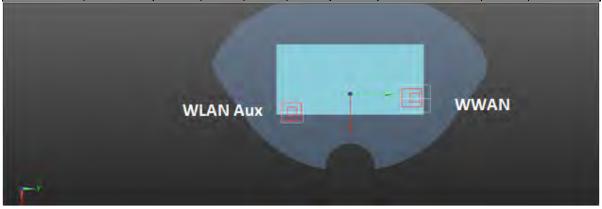
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Conditions Position	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
LTE FDD Band II	Back side	0.888	2.25	6.94	6.94 -0.06		131.5	0.016	SPLSR
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	1.071	131.3	0.010	0.04, Not required



Conditions Position	Position	Value		rdinates	dinates (cm)		Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W		х	у	z	(W/kg)	(mm)		SAR Test
Bluetooth	Back side	0.012	-3.30	-6.88	-0.08	0.795	70.8	0.010	SPLSR 0.04,
WLAN Aux	Dack Side	0.783	3.74	-6.14	-0.06	0.793	70.0	0.010	Not required



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reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation											
Frequency			reported SAR / W/kg ΣSAR								
band	Pos	Position		Bluetooth	WLAN Aux	<1.6W/kg					
LTE FDD	Body-	Front	0.806	0.005	0.299	1.110					
Band IV Worn		Back	1.120	0.012	0.783	1.915					

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test	
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.132	153.46	0.008	SPLSR
Bluetooth			-3.30	-6.88	-0.08	1.132	155.40	0.006	0.04, Not required



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Conditions Position	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	z	(vv/kg)	(mm)		SAR Test
LTE FDD Band IV	Back side	1.120	2.71	7.24	-0.02	1.903	158.7	0.017	SPLSR
WLAN Aux			3.74	-6.14	-0.06	1.903	130.7	0.017	0.04, Not required



Conditions Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
	(W)		x	У	z	(vv/kg)	(mm)		SAR Test
Bluetooth	Back side	0.012	-3.30	-6.88	-0.08	0.795	70.8	0.010	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	0.793	70.0	0.010	Not required



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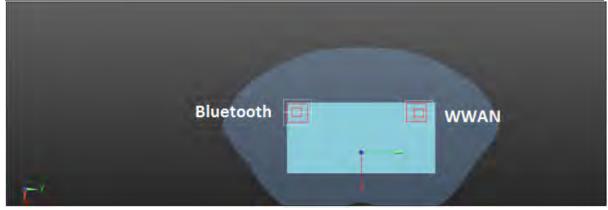
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reported	reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation										
Frequency			repo	reported SAR / W/kg							
band	Position		WWAN	Bluetooth	WLAN Aux	<1.6W/kg					
LTE FDD	Body-	Front	0.650	0.005	0.299	0.954					
Band V	Worn	Back	0.517	0.012	0.783	1.312					
LTE FDD	Body-	Front	1.045	0.005	0.299	1.349					
Band VII	Worn	Back	0.820	0.012	0.783	1.615					
LTE FDD	Body-	Front	0.187	0.005	0.299	0.491					
Band XII	Worn	Back	0.137	0.012	0.783	0.932					
LTE FDD	Body-	Front	0.746	0.005	0.299	1.05					
Band XIII	Worn	Back	0.390	0.012	0.783	1.185					
LTE FDD	LTE FDD Body-		0.924	0.005	0.299	1.228					
Band XXX	Worn	Back	0.773	0.012	0.783	1.568					

Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			х	У	z	(W/kg)	(mm)		SAR Test
LTE FDD Band VII	Back side	0.820	-2.98	6.24	-0.07	0.832	131.2	0.006	SPLSR 0.04,
Bluetooth	Dack side	0.012	-3.30	-6.88	-0.08	0.032	131.2	0.000	Not required



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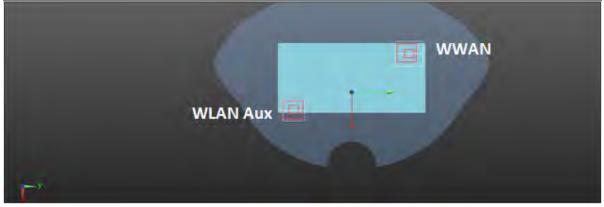
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Conditions Position	Position		Coo	Coordinates (cm)			Peak Location Separation Distance	SPLSR	Simultaneous Transmission
	(W/kg)	х	У	z	(W/kg)	(mm)		SAR Test	
LTE FDD Band VII	Back side	0.820	-2.98	6.24	-0.07	1.603	140.9	0.014	SPLSR 0.04,
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	1.003	140.9	0.014	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(**/Ng/	(mm)		SAR Test
Bluetooth	Back side	0.012	-3.30	-6.88	-0.08	0.795	70.0	0.010	SPLSR
WLAN Aux	Dack side	0.783	3.74	-6.14	-0.06	0.795	70.8		0.04, Not required



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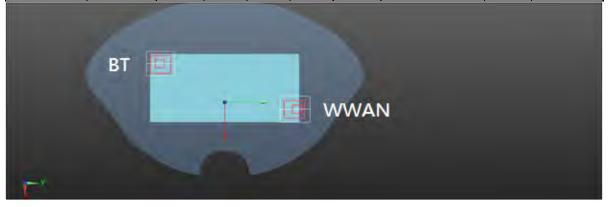
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reported SAR WWAN and Bluetooth and 5G WLAN Aux, ΣSAR evaluation									
Frequency			repo	reported SAR / W/kg					
band		ition	WWAN	Bluetooth	WLAN Aux	<1.6W/kg			
CDMA	Callular Worn	Front	1.187	0.005	0.299	1.491			
Callular		Back	0.703	0.012	0.783	1.498			
CDMA Body	Body-	Body- Front		0.005	0.299	1.494			
	Worn	Back	1.124	0.012	0.783	1.919			

Conditions	Position	Position SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
			х	У	Z		(mm)		SAIX TEST
CDMA PCS BC1	Back side	1.124	2.55	7.87	-0.02	1.136	158.7	0.008	SPLSR 0.04,
Bluetooth	Dack side	0.012	-3.30	-6.88	-0.08	1.130	130.7	0.008	Not required



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Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
			x	У	z	(vv/kg)	(mm)		SAR Test
CDMA PCS BC1	Back side	1.124	2.55	7.87	-0.02	1.907	140.61	0.019	SPLSR 0.04,
WLAN Aux		0.783	3.74	-6.14	-0.06	1.907	140.01	0.019	Not required



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Conditions	Position	SAR Position Value	Coordinates (cm)			ΣSAR (M/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	x y z (W/kg) Distance (mm)			SAR Test			
Bluetooth	Pook side	0.012	-3.30	-6.88	-0.08	0.795	70.0	0.010	SPLSR
WLAN Aux		0.783	3.74	-6.14	-0.06	0.795	70.8	0.010	0.04, Not required



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4. Instruments List

Instruments List									
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration				
Schmid & Partner	Dosimetric E-Field	EX3DV4	7346	Sep.02,2015	Sep.01,2016				
Engineering AG	Probe		Serial number calibration 7346 Sep.02,20° 3770 Apr.27,20° Aug.24,20° Aug.30,20° Aug.24,20° Aug.24,20° Aug.25,20° Aug.20,20° Aug.31,20° Aug.19,20° Aug.19,20° Aug.26,20° 727 Apr.19,20° Jan.21,20° Jan.25,20° Jan.26,20° Jan.20,20° 916 Dec.16,20° 856 Apr.21,20°	Apr.27,2016	Apr.26,2017				
		D750V3	1015	Aug.24,2015	Aug.23,2016				
		D730V3	1013	Aug.30,2016	Aug.29,2017				
		D835V2	44063	Aug.24,2015	Aug.23,2016				
		D035 V Z	40003	Aug.25,2016	Aug.24,2017				
		D1750V2	1000	Aug.20,2015	Aug.19,2016				
Schmid &	System Validation Dipole	D1750V2	1006	Aug.31,2016	Aug.30,2017				
Partner		D1900V2	5d027	Apr.25,2016	Apr.24,2017				
Engineering		D2300V2	1000	Aug.19,2015	Aug.18,2016				
AG			1023	Aug.26,2016	Aug.25,2017				
		D2450V2	727	Apr.19,2016	Apr.18,2017				
		D2600V2	1005	Jan.21,2016	Jan.20,2017				
			1005	Jan.25,2017	Jan.24,2018				
		D5GHzV2	1000	Jan.26,2016	Jan.25,2017				
		DOGHZVZ	1023	Jan.20,2017	Jan.19,2018				
Schmid & Partner	Data acquisition	DAE4	916	Dec.16,2015	Dec.15,2016				
Engineering AG	Electronics		856	Apr.21,2016	Apr.20,2017				
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required				
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required	Calibration not required				

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Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
Network	A Δ		MV46107520	Jan.07,2016	Jan.06,2017
Analyzer			101140107330	Jan.20,2017	Jan.19,2018
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
		772D	MY46151242	Jul.15,2015	Jul.14,2016
Agilent	Dual-directional	1120	101140131242	Apr.13,2016	Apr.12,2017
Agilerit	coupler	778D	MY48220468	Jul.16,2015	Jul.15,2016
		7700	MY52180302	Apr.13,2016	Apr.12,2017
Agilent	RF Signal Generator	N5181A	MY50145142	Feb.19,2016	Feb.18,2017
A mile mt	Power Meter	E4417A	MY52240003	Jul.15,2015	Jul.14,2016
Agilent			101132240003	Oct.17,2016	Oct.16,2017
Agilont	Power Sensor	E9301H	MV/5000004	Jul.15,2015	Jul.14,2016
Agilent	Power Sensor		MY52200004	Oct.17,2016	Oct.16,2017
TECPEL	Digital thermometer	DTM-303A	TP130073	Feb.26,2016	Feb.25,2017
Anritsu	Radio Communication	MT8820C	6201061014	Oct.07,2015	Oct.06,2016
Annisu	Test	W110020C	6201061049	Apr.08,2016	Apr.07,2017
R&S	Radio Communication Test	CMU200	113505	Aug.19,2016	Aug.18,2017
R&S	Radio Communication Test	CMW500	131123	Mar.02,2016	Mar.01,2017

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5. Measurements

Date: 2016/5/8

GSM 850 Head Re Cheek CH 190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used: f = 837 MHz; $\sigma = 0.923$ S/m; $\varepsilon_r = 40.865$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(9.8, 9.8, 9.8); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR = 0.288 W/kg

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

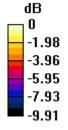
dy=8mm, dz=5mm

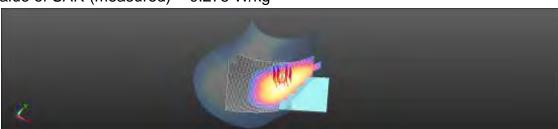
Reference Value = 6.238 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.275 W/kg





0 dB = 0.275 W/kg = -5.61 dBW/kg

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Date: 2016/5/3

GSM 850_Speech mode_Front side_CH 190_10mm

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used: f = 837 MHz; $\sigma = 1.018 \text{ S/m}$; $\epsilon_r = 55.733$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.05, 10.05, 10.05); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.477 W/kg

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

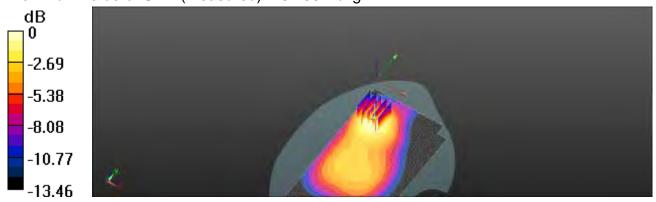
dy=8mm, dz=5mm

Reference Value = 13.79 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.450 W/kg



0 dB = 0.450 W/kg = -3.47 dBW/kg

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Date: 2016/5/3

GPRS 850 Hotspot Front side CH 251 10mm

Communication System: GPRS (1Dn4Up); Frequency: 848.8 MHz

Medium parameters used: f = 849 MHz; $\sigma = 1.032$ S/m; $\varepsilon_r = 55.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.05, 10.05, 10.05); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.646 W/kg

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

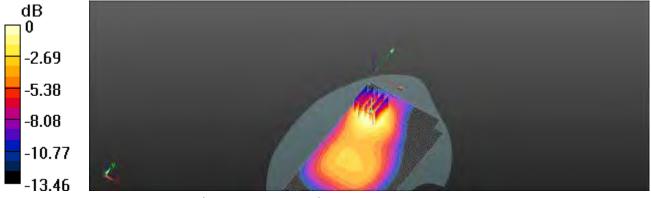
dy=8mm, dz=5mm

Reference Value = 16.67 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.720 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 0.619 W/kg



0 dB = 0.619 W/kg = -2.08 dBW/kg

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Date: 2016/5/2

GSM 1900 Head Re Cheek CH 810

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.423 \text{ S/m}$; $\epsilon_r = 38.896$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.33, 8.33, 8.33); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR = 0.464 W/kg

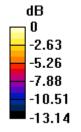
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

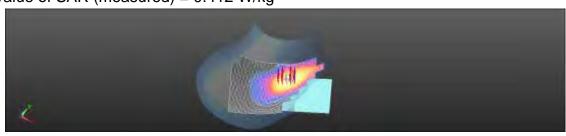
dy=8mm, dz=5mm

Reference Value = 5.029 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.500 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.213 W/kgMaximum value of SAR (measured) = 0.412 W/kg





0 dB = 0.412 W/kg = -3.85 dBW/kg

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prosecuted to the fullest extent of the law.



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Date: 2016/4/27

GSM 1900_Speech mode_Back side_CH 810_10mm

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.577 \text{ S/m}$; $\epsilon_r = 53.683$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.77, 7.77, 7.77); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.697 W/kg

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

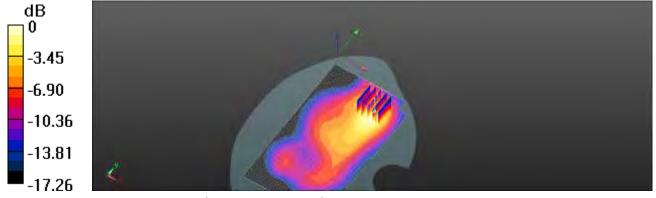
dy=8mm, dz=5mm

Reference Value = 9.932 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.814 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.651 W/kg



0 dB = 0.651 W/kg = -1.86 dBW/kg

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Date: 2016/4/27

GPRS 1900 Hotspot Back side CH 810 10mm

Communication System: GPRS (1Dn3Up); Frequency: 1909.8 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.577 \text{ S/m}$; $\epsilon_r = 53.683$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.77, 7.77, 7.77); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.812 W/kg

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

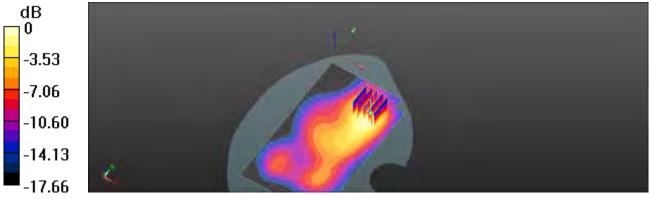
dy=8mm, dz=5mm

Reference Value = 11.35 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 0.791 W/kg



0 dB = 0.791 W/kg = -1.02 dBW/kg

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Date: 2016/5/2

WCDMA Band 2 Head Re Cheek CH 9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: f = 1908 MHz; $\sigma = 1.422$ S/m; $\varepsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.33, 8.33, 8.33); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR = 0.862 W/kg

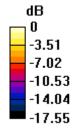
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

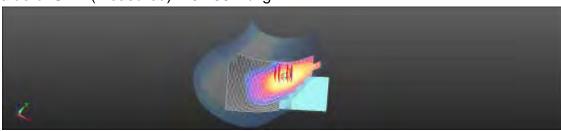
dy=8mm, dz=5mm

Reference Value = 6.358 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.950 W/kg

SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.389 W/kgMaximum value of SAR (measured) = 0.786 W/kg





0 dB = 0.786 W/kg = -1.05 dBW/kg

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Date: 2016/4/27

WCDMA Band 2 Hotspot Back side CH 9538 10mm

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: f = 1908 MHz; $\sigma = 1.572$ S/m; $\varepsilon_r = 53.633$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.77, 7.77, 7.77); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.33 W/kg

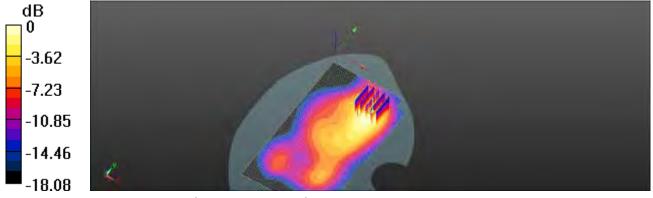
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 15.39 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.533 W/kaMaximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

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Date: 2016/5/7

WCDMA Band 4 Head Re Cheek CH 1513

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used: f = 1753 MHz; $\sigma = 1.379$ S/m; $\varepsilon_r = 39.265$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.6, 8.6, 8.6); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR = 0.863 W/kg

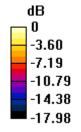
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

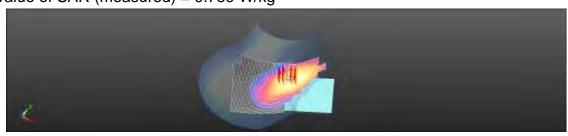
dy=8mm, dz=5mm

Reference Value = 5.719 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.391 W/kgMaximum value of SAR (measured) = 0.759 W/kg





0 dB = 0.759 W/kg = -1.19 dBW/kg

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Date: 2016/4/28

WCDMA Band 4 Hotspot Back side CH 1312 10mm

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used: f = 1712.4 MHz; $\sigma = 1.404 \text{ S/m}$; $\varepsilon_r = 54.263$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.06, 8.06, 8.06); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.10 W/kg

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

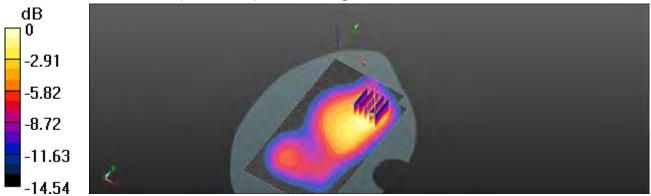
dy=8mm, dz=5mm

Reference Value = 14.27 V/m: Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.488 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2016/5/8

WCDMA Band 5 Head Re Cheek CH 4132

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: f = 826 MHz; $\sigma = 0.917 \text{ S/m}$; $\varepsilon_r = 40.912$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(9.8, 9.8, 9.8); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR = 0.382 W/kg

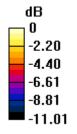
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

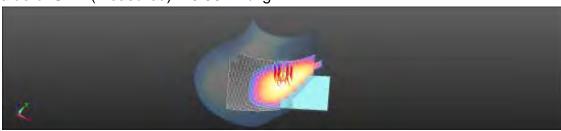
dy=8mm, dz=5mm

Reference Value = 6.809 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.228 W/kgMaximum value of SAR (measured) = 0.364 W/kg





0 dB = 0.364 W/kg = -4.39 dBW/kg

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Date: 2016/5/3

WCDMA Band 5 Hotspot Front side CH 4233 10mm

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: f = 847 MHz; $\sigma = 1.03$ S/m; $\varepsilon_r = 55.653$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.05, 10.05, 10.05); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.739 W/kg

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

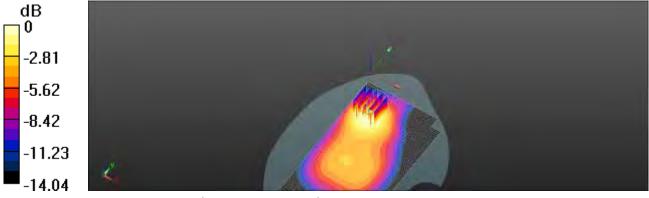
dy=8mm, dz=5mm

Reference Value = 17.16 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.383 W/kg

Maximum value of SAR (measured) = 0.708 W/kg



0 dB = 0.708 W/kg = -1.50 dBW/kg

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Date: 2016/4/27

LTE Band 2 (20MHz)_Hotspot_Front side_CH 19100 QPSK 1-0 10mm 10mm

Communication System: LTE; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.559 \text{ S/m}$; $\varepsilon_r = 53.728$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7346; ConvF(7.77, 7.77, 7.77); Calibrated: 2015/9/2;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn916; Calibrated: 2015/12/16

· Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

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

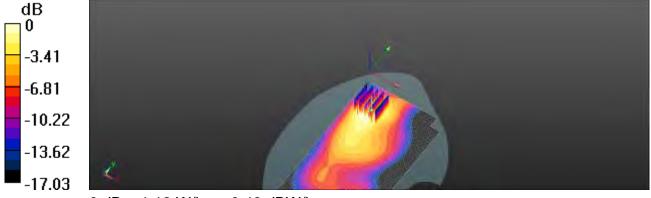
dy=8mm, dz=5mm

Reference Value = 13.41 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.488 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2016/4/28

LTE Band 4 (20MHz) Hotspot Back side CH 20050 QPSK 1-0 10mm

Communication System: LTE; Frequency: 1720 MHz

Medium parameters used: f = 1720 MHz; $\sigma = 1.413 \text{ S/m}$; $\varepsilon_r = 54.257$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.06, 8.06, 8.06); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.27 W/kg

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

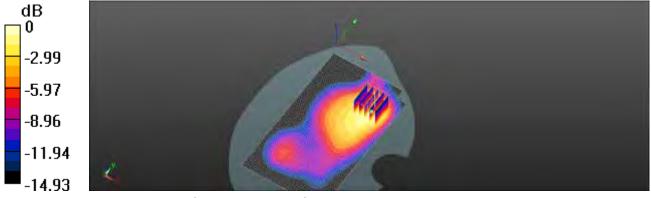
dy=8mm, dz=5mm

Reference Value = 14.24 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.542 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Date: 2017/2/3

LTE Band 4 (20MHz) Hotsport Back side CH 20050 QPSK 1-0 10mm

Communication System: LTE; Frequency: 1720 MHz

Medium parameters used: f = 1720 MHz; $\sigma = 1.408 \text{ S/m}$; $\varepsilon_r = 53.663$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.88, 7.88, 7.88); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.44 W/kg

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

dy=8mm, dz=5mm

Reference Value = 16.68 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 1.39 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

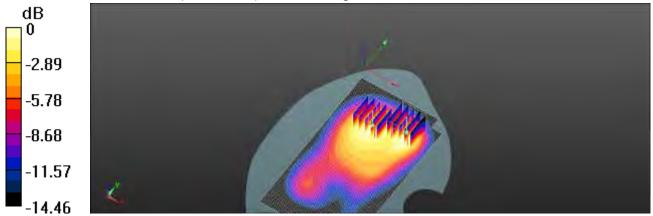
dv=8mm, dz=5mm

Reference Value = 16.68 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Date: 2016/5/3

LTE Band 5 (10MHz) Hotspot Front side CH 20600 QPSK 1-0 10mm

Communication System: LTE; Frequency: 844 MHz

Medium parameters used: f = 844 MHz; $\sigma = 1.027$ S/m; $\varepsilon_r = 55.712$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.05, 10.05, 10.05); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.630 W/kg

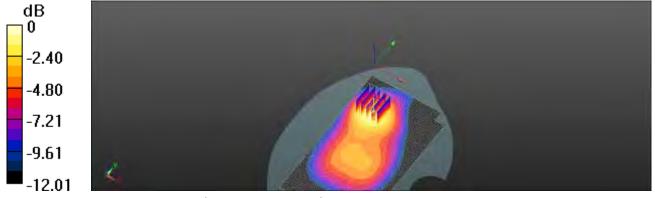
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 16.04 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.334 W/kgMaximum value of SAR (measured) = 0.612 W/kg



0 dB = 0.612 W/kg = -2.13 dBW/kg

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Date: 2016/4/29

LTE Band 7 (20MHz) Hotspot Front side CH 20850 QPSK 1-0 10mm

Communication System: LTE; Frequency: 2510 MHz

Medium parameters used: f = 2510 MHz; $\sigma = 2.123 \text{ S/m}$; $\varepsilon_r = 52.002$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.29, 7.29, 7.29); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

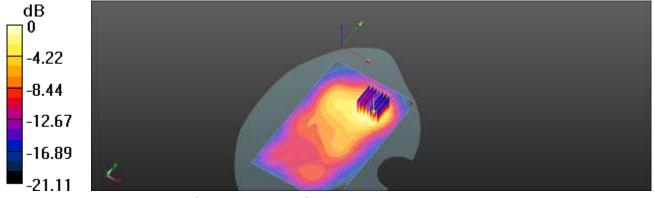
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 11.43 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.521 W/kg Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

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Date: 2016/5/4

LTE Band 12 (10MHz)_Hotspot_Bottom side_CH 23130_QPSK_1-49_10mm

Communication System: LTE; Frequency: 711 MHz

Medium parameters used: f = 711 MHz; $\sigma = 0.934$ S/m; $\varepsilon_r = 56.929$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.11, 10.11, 10.11); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 0.318 W/kg

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

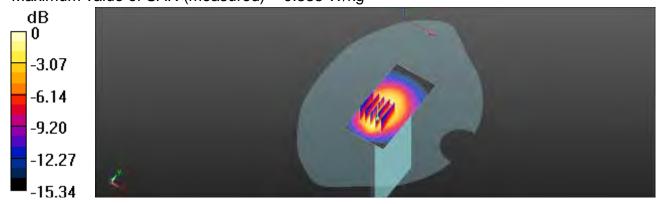
dy=8mm, dz=5mm

Reference Value = 15.18 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.335 W/kg



0 dB = 0.335 W/kg = -4.75 dBW/kg

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prosecuted to the fullest extent of the law.



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Date: 2017/2/15

LTE Band 13 (10MHz)_Hotspot_Front side_CH 23230_QPSK_1-25_10mm

Communication System: LTE; Frequency: 782 MHz; Duty Factor: 1:1

Medium parameters used: f = 782 MHz; $\sigma = 1.002 \text{ S/m}$; $\varepsilon_r = 57.038$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.706 W/kg

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

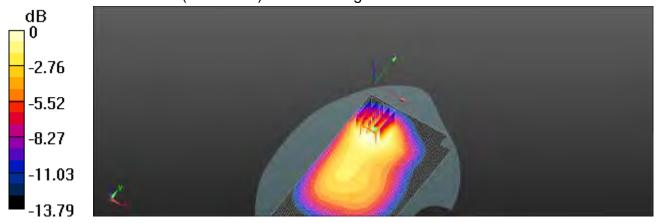
dy=8mm, dz=5mm

Reference Value = 17.89 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg = -1.77 dBW/kg

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Date: 2016/4/30

LTE Band 30 (10MHz)_Hotspot_Front side_CH 27710_QPSK_1-0_10mm

Communication System: LTE; Frequency: 2310 MHz

Medium parameters used: f = 2310 MHz; $\sigma = 1.861 \text{ S/m}$; $\varepsilon_r = 52.476$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.57, 7.57, 7.57); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 0.980 W/kg

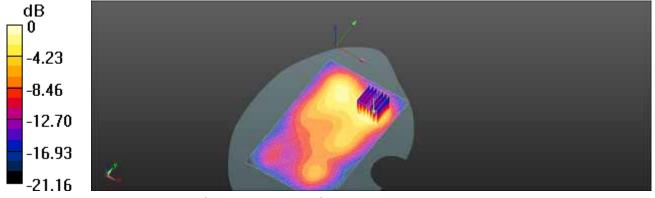
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 9.677 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.333 W/kaMaximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

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Date: 2017/2/5

LTE Band 30 (10MHz)_Hotsport_Front side_CH 27710_QPSK_1-0_10mm

Communication System: LTE; Frequency: 2310 MHz

Medium parameters used: f = 2310 MHz; $\sigma = 1.861 \text{ S/m}$; $\varepsilon_r = 52.476$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.53, 7.53, 7.53); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (111x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 1.17 W/kg

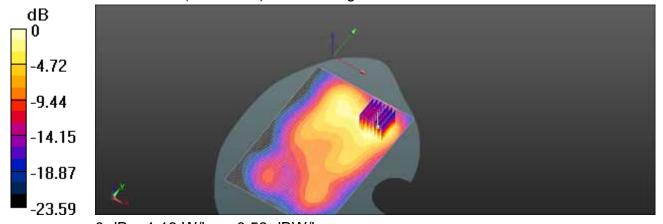
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 9.443 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.398 W/kaMaximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2017/2/13

1xRTT Cellular BC0 Head Re Cheek CH 384 SO55/RC3

Communication System: 1XRTT; Frequency: 836.52 MHz

Medium parameters used: f = 837 MHz; $\sigma = 0.93$ S/m; $\varepsilon_r = 42.156$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.47, 9.47, 9.47); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.405 W/kg

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

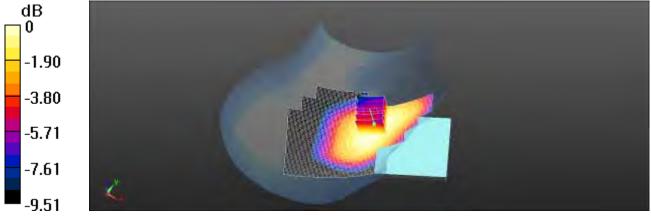
dy=8mm, dz=5mm

Reference Value = 7.404 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.437 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.395 W/kg



0 dB = 0.395 W/kq = -4.03 dBW/kq

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Date: 2017/2/13

1xEVDO Cellular BC0_Head_Re Cheek_CH 384_Rev. A

Communication System: 1xEvDO; Frequency: 836.52 MHz

Medium parameters used: f = 837 MHz; $\sigma = 0.93$ S/m; $\varepsilon_r = 42.156$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.47, 9.47, 9.47); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.273 W/kg

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

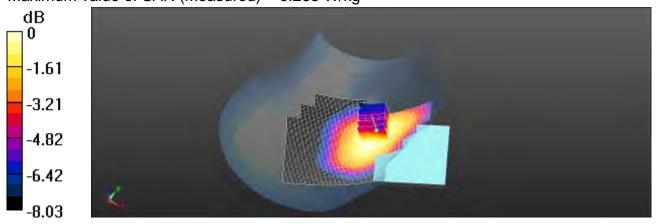
dv=8mm, dz=5mm

Reference Value = 6.346 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.263 W/kg



0 dB = 0.263 W/kg = -5.80 dBW/kg

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Date: 2017/2/13

1xRTT Cellular BC0_Body-Worn_Front side_CH 777_SO32/FCH_10mm

Communication System: 1XRTT; Frequency: 848.31 MHz

Medium parameters used: f = 848.31 MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 57.327$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

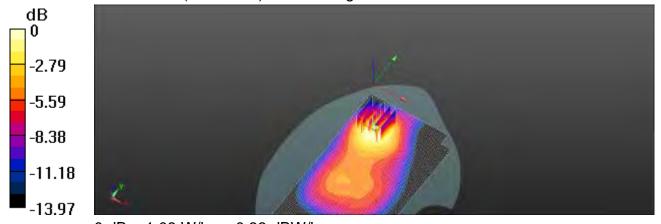
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 18.10 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.571 W/kg Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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1xRTT Cellular BC0_Body-Worn_Front side_CH 777_SO55/RC3_10mm

Communication System: 1XRTT; Frequency: 848.31 MHz

Medium parameters used: f = 848.31 MHz; $\sigma = 1.013 \text{ S/m}$; $\epsilon_r = 57.327$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

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

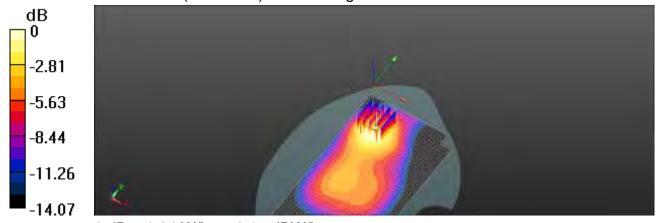
dy=8mm, dz=5mm

Reference Value = 18.64 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.554 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2017/2/13

1xEVDO Cellular BC0_Hotspot_Front side_CH 777_Rev. 0_10mm

Communication System: 1xEvDO; Frequency: 848.31 MHz

Medium parameters used: f = 848.31 MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 57.327$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.674 W/kg

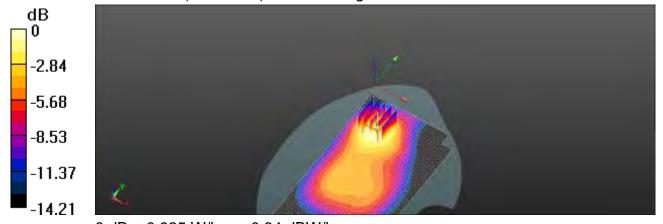
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 19.10 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.498 W/kg Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 0.925 W/kg = -0.34 dBW/kg

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Date: 2017/2/14

1xRTT PCS BC1_Head_Re Cheek_CH 25_SO55/RC3

Communication System: 1XRTT; Frequency: 1851.25 MHz

Medium parameters used: f = 1851.25 MHz; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 40.288$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.623 W/kg

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

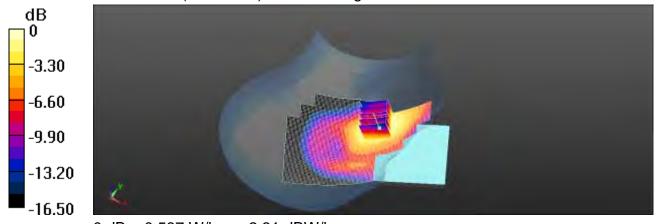
dy=8mm, dz=5mm

Reference Value = 6.656 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.719 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 0.587 W/kg



0 dB = 0.587 W/kg = -2.31 dBW/kg

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Date: 2017/2/14

1xEVDO PCS BC1 Head Re Cheek CH 600 Rev. A

Communication System: 1XRTT; Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.437 \text{ S/m}$; $\epsilon_r = 40.171$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 0.954 W/kg

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

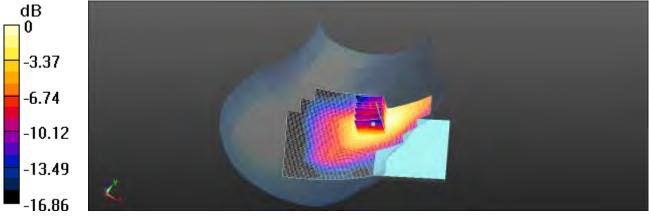
dy=8mm, dz=5mm

Reference Value = 7.057 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.429 W/ka

Maximum value of SAR (measured) = 0.876 W/kg



0 dB = 0.876 W/kq = -0.57 dBW/kq

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Date: 2017/2/14

1xRTT PCS BC1 Body-Worm Front side CH 600 SO32/FCH 10mm

Communication System: 1XRTT; Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.568$ S/m; $\epsilon_r = 53.191$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

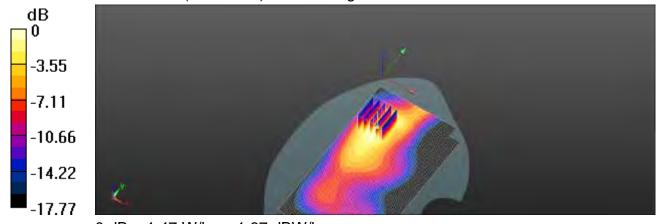
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 12.59 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.609 W/kg Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg

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1xRTT PCS BC1 Body-Worn Front side CH 600 SO55/RC3 10mm

Communication System: CDMA 2000; Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.568 \text{ S/m}$; $\epsilon_r = 53.191$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.51 W/kg

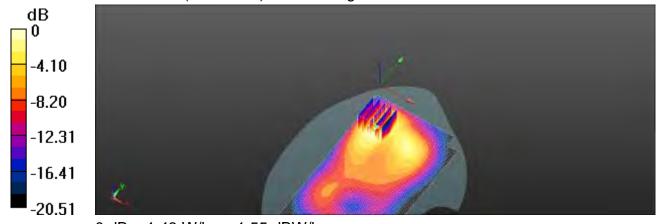
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 11.68 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.540 W/kgMaximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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Date: 2017/2/14

1xEVDO PCS BC1 Hotspot Front side CH 600 Rev. 0 10mm

Communication System: 1XRTT; Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.568 \text{ S/m}$; $\epsilon_r = 53.191$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Head/Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.42 W/kg

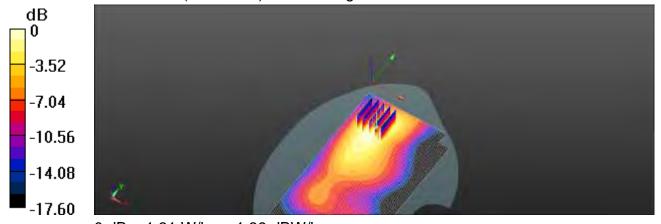
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 13.14 V/m: Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.951 W/kg; SAR(10 g) = 0.533 W/kgMaximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.39 dBW/kg

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Date: 2016/5/9

WLAN 802.11b Head Re Cheek CH 6 Main

Communication System: WLAN 2.45G; Frequency: 2437 MHz

Medium parameters used: f = 2437 MHz; $\sigma = 1.871$ S/m; $\varepsilon_r = 38.142$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (91x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 1.34 W/kg

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

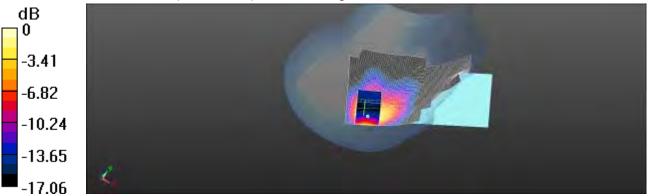
dy=5mm, dz=5mm

Reference Value = 8.824 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.411 W/ka

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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WLAN 802.11b Hotspot Back side CH 6 Main 10mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz

Medium parameters used: f = 2437 MHz; $\sigma = 1.984$ S/m; $\varepsilon_r = 52.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 0.497 W/kg

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

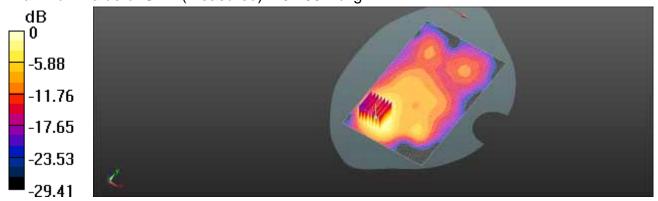
dy=5mm, dz=5mm

Reference Value = 5.064 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.649 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.466 W/kg



0 dB = 0.466 W/kg = -3.32 dBW/kg

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Date: 2016/5/9

WLAN 802.11b Head Le Cheek CH 11 Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 1.898$ S/m; $\varepsilon_r = 38.041$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 0.627 W/kg

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

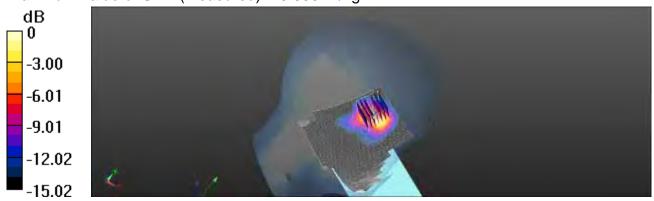
dy=5mm, dz=5mm

Reference Value = 4.358 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



0 dB = 0.658 W/kg = -1.82 dBW/kg

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Date: 2016/5/9

WLAN 802.11b Hotspot Back side CH 11 Aux 10mm

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 2.021$ S/m; $\varepsilon_r = 52.777$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 0.420 W/kg

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

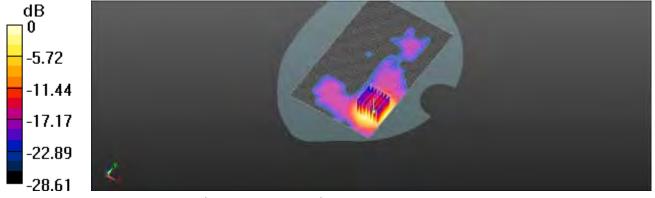
dy=5mm, dz=5mm

Reference Value = 2.957 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.377 W/kg



0 dB = 0.377 W/kg = -4.24 dBW/kg

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Date: 2016/5/10

WLAN 802.11a 5.2G Head Re Cheek CH 36 Main

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used: f = 5180 MHz; $\sigma = 4.622 \text{ S/m}$; $\varepsilon_r = 36.486$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 2.61 W/kg

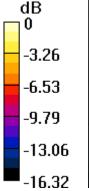
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

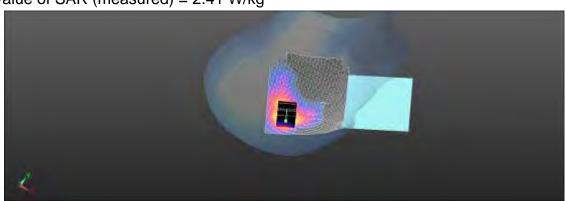
dy=4mm, dz=2mm

Reference Value = 9.672 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 4.94 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.482 W/kgMaximum value of SAR (measured) = 2.41 W/kg





0 dB = 2.41 W/kg = 3.82 dBW/kg

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Date: 2016/5/10

WLAN802.11 n(20M) 5.2G_Head_Re Cheek CH 44 Main

Communication System: WLAN 5G; Frequency: 5220 MHz

Medium parameters used: f = 5220 MHz; $\sigma = 4.669 \text{ S/m}$; $\epsilon_r = 36.361$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 1.81 W/kg

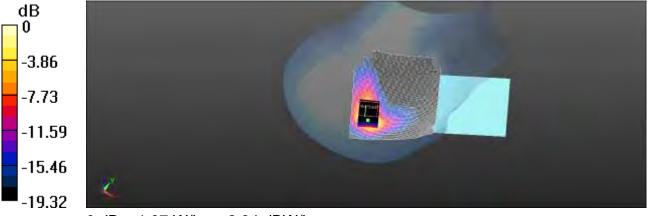
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 8.685 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.25 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.313 W/kaMaximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

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Date: 2016/5/10

WLAN 802.11n(40M) 5.2G_Head_Re Cheek_CH 46_Main

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used: f = 5230 MHz; $\sigma = 4.689 \text{ S/m}$; $\varepsilon_r = 36.342$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.50 W/kg

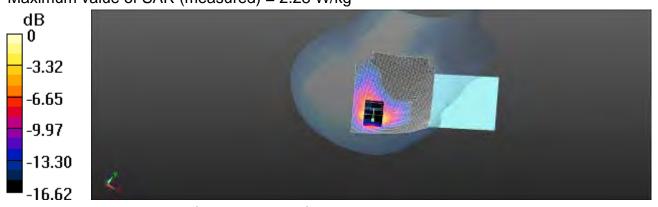
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 9.108 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 4.71 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.440 W/kg Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.2G Body-worn Front side CH 38 Main 10mm

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 5.447 \text{ S/m}$; $\varepsilon_r = 47.987$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 0.466 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

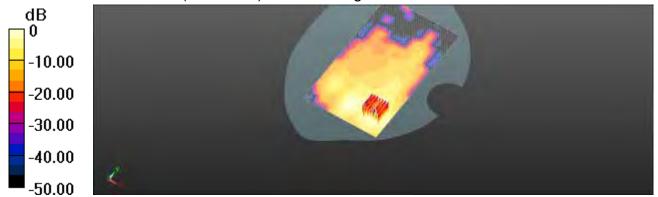
dy=4mm, dz=2mm

Reference Value = 1.970 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.913 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.099 W/kg

Maximum value of SAR (measured) = 0.470 W/kg



0 dB = 0.470 W/kg = -3.28 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.2G Product specific 10-g SAR Front side CH 38 Main 0mm

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 5.447 \text{ S/m}$; $\varepsilon_r = 47.987$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 6.14 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

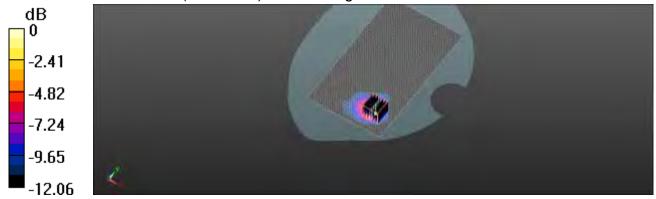
dy=4mm, dz=2mm

Reference Value = 6.205 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 2.89 W/kg; SAR(10 g) = 1.1 W/kg

Maximum value of SAR (measured) = 5.40 W/kg



0 dB = 5.40 W/kg = 7.32 dBW/kg

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Date: 2016/5/10

WLAN 802.11n(40M) 5.2G_Head_Le Cheek_CH 38_Aux

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 4.635 \text{ S/m}$; $\varepsilon_r = 36.433$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.703 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

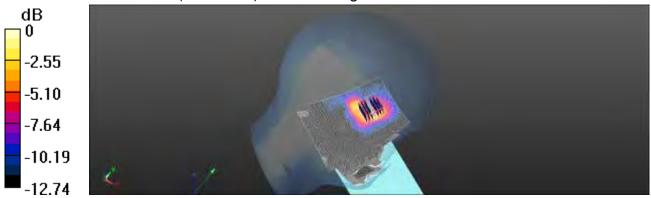
dy=4mm, dz=2mm

Reference Value = 3.288 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.824 W/kg



0 dB = 0.824 W/kg = -0.84 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.2G_Body-worn_Back side_CH 38_Aux_10mm

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 5.447 \text{ S/m}$; $\varepsilon_r = 47.987$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 0.556 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

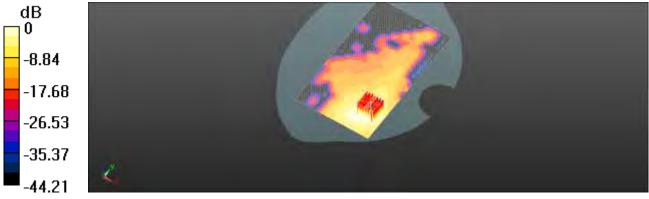
dv=4mm. dz=2mm

Reference Value = 1.417 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.536 W/kg



0 dB = 0.536 W/kg = -2.71 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.2G_Product specific 10-g SAR_Right side_CH 38_Aux_0mm

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 5.447 \text{ S/m}$; $\varepsilon_r = 47.987$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (61x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 6.91 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

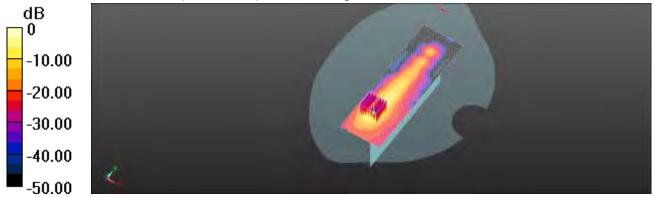
dy=4mm, dz=2mm

Reference Value = 9.604 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 23.8 W/kg

SAR(1 g) = 3.8 W/kg; SAR(10 g) = 0.807 W/kg

Maximum value of SAR (measured) = 8.99 W/kg



0 dB = 8.99 W/kg = 9.54 dBW/kg

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Date: 2016/5/10

WLAN802.11 ac(40M) 5.2G_Head_Re Cheek_CH 38_Main

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used: f = 5190 MHz; $\sigma = 4.635 \text{ S/m}$; $\epsilon_r = 36.433$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.78 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 6.642 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.954 W/kg; SAR(10 g) = 0.308 W/kg Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.88 dBW/kg

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Date: 2016/5/11

WLAN 802.11a 5.3G Head Re Cheek CH 52 Main

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used: f = 5260 MHz; $\sigma = 4.717 \text{ S/m}$; $\varepsilon_r = 36.264$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 2.43 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

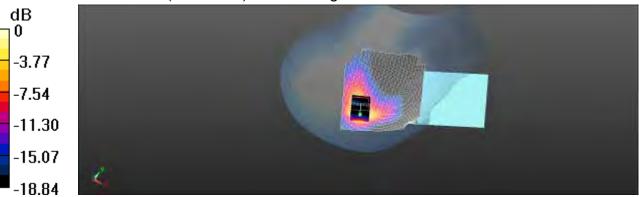
dy=4mm, dz=2mm

Reference Value = 10.17 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 5.07 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.480 W/kg

Maximum value of SAR (measured) = 2.45 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

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Date: 2016/5/11

WLAN802.11n(20M) 5.3G_Head_Re Cheek_CH 52_Main

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used: f = 5260 MHz; $\sigma = 4.717 \text{ S/m}$; $\varepsilon_r = 36.264$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.85 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

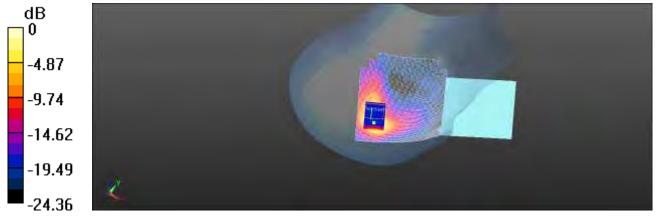
dy=4mm, dz=2mm

Reference Value = 5.742 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.05 dBW/kg

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Date: 2016/5/11

WLAN 802.11n(40M) 5.3G_Head_Re Cheek_CH 62_Main

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used: f = 5310 MHz; $\sigma = 4.788 \text{ S/m}$; $\varepsilon_r = 36.106$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.11 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 10.28 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 4.21 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.354 W/kg Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.3G Body-worn Front side CH 54 Main 10mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: f = 5270 MHz; $\sigma = 5.564 \text{ S/m}$; $\varepsilon_r = 47.698$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 0.501 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

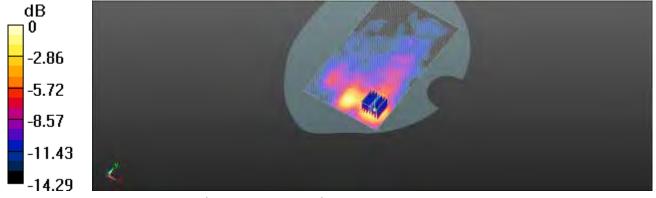
dy=4mm, dz=2mm

Reference Value = 2.825 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.500 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.3G_Product specific 10-g SAR_Front side_CH 54 Main 0mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: f = 5270 MHz; $\sigma = 5.564 \text{ S/m}$; $\varepsilon_r = 47.698$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 5.89 W/kg

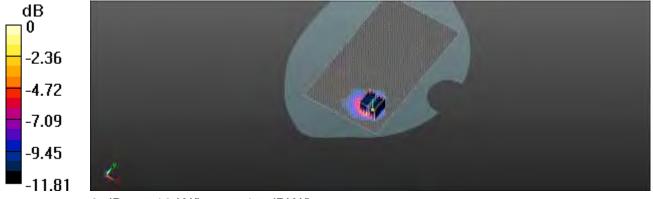
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 6.841 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 2.8 W/kg; SAR(10 g) = 1.08 W/kgMaximum value of SAR (measured) = 5.19 W/kg



0 dB = 5.19 W/kg = 7.15 dBW/kg

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Date: 2016/5/11

WLAN 802.11n(40M) 5.3G_Head_Le Cheek_CH 62_Aux

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used: f = 5310 MHz; $\sigma = 4.788 \text{ S/m}$; $\varepsilon_r = 36.106$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

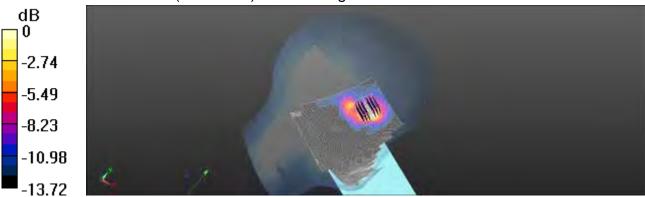
dy=4mm, dz=2mm

Reference Value = 2.463 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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WLAN 802.11n(40M) 5.3G_Body-worn_Back side_CH 62_Aux_10mm

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used: f = 5310 MHz; $\sigma = 5.623$ S/m; $\epsilon_r = 47.554$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

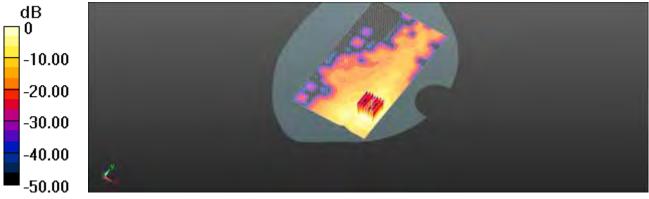
dy=4mm, dz=2mm

Reference Value = 1.697 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2016/5/5

WLAN 802.11n(40M) 5.3G_Product specific 10-g SAR_Right side_CH 62 Aux 0mm

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used: f = 5310 MHz; $\sigma = 5.623 \text{ S/m}$; $\varepsilon_r = 47.554$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (61x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 9.00 W/kg

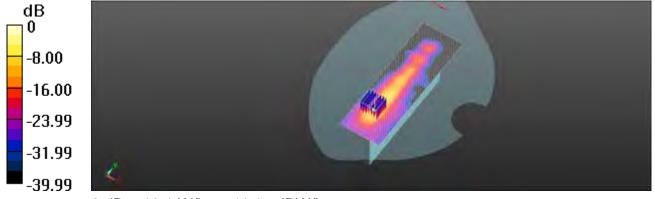
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 10.54 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 36.9 W/kg

SAR(1 g) = 5.42 W/kg; SAR(10 g) = 1.07 W/kgMaximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2016/5/11

WLAN802.11 ac(40M) 5.3G_Head_Re Cheek_CH 62_Main

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used: f = 5310 MHz; $\sigma = 4.788 \text{ S/m}$; $\epsilon_r = 36.106$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 1.91 W/kg

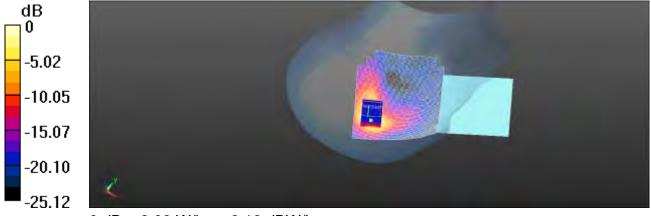
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 8.815 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 4.49 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.331 W/kgMaximum value of SAR (measured) = 2.08 W/kg



0 dB = 2.08 W/kg = 3.18 dBW/kg

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Date: 2016/5/12

WLAN 802.11a 5.6G Head Re Cheek CH 120 Main

Communication System: WLAN 5G; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.154 \text{ S/m}$; $\varepsilon_r = 35.276$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 2.21 W/kg

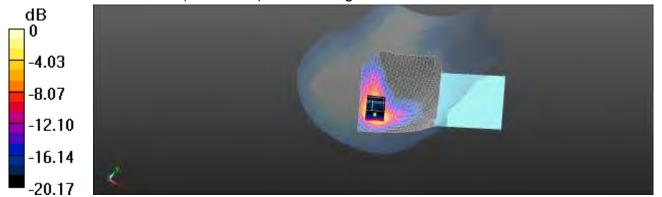
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 9.310 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.89 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.382 W/kgMaximum value of SAR (measured) = 2.40 W/kg



0 dB = 2.40 W/kg = 3.80 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.6G Body-worn Front side CH 100 Main 10mm

Communication System: WLAN 5G; Frequency: 5500 MHz

Medium parameters used: f = 5500 MHz; $\sigma = 5.864 \text{ S/m}$; $\varepsilon_r = 46.91$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 0.555 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

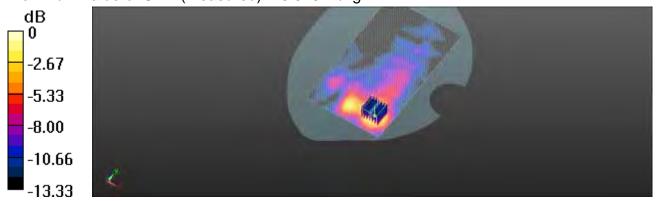
dy=4mm, dz=2mm

Reference Value = 2.993 V/m: Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.515 W/kg



0 dB = 0.515 W/kg = -2.88 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.6G_Product specific 10-g SAR_Front side_CH 100 Main 0mm

Communication System: WLAN 5G; Frequency: 5500 MHz

Medium parameters used: f = 5500 MHz; $\sigma = 5.864 \text{ S/m}$; $\varepsilon_r = 46.91$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 4.29 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 7.887 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 9.98 W/kg

SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.03 W/kgMaximum value of SAR (measured) = 3.95 W/kg



0 dB = 3.95 W/kg = 5.97 dBW/kg

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Date: 2016/5/12

WLAN 802.11a 5.6G_Head_Le Cheek_CH 140_Aux

Communication System: WLAN 5G; Frequency: 5700 MHz

Medium parameters used: f = 5700 MHz; $\sigma = 5.279 \text{ S/m}$; $\varepsilon_r = 34.961$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

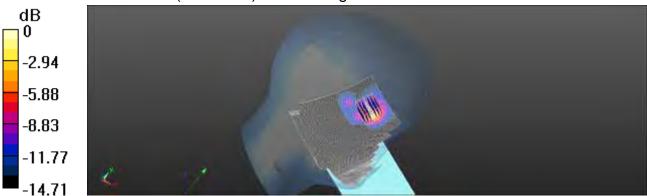
dy=4mm, dz=2mm

Reference Value = 2.963 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

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WLAN 802.11a 5.6G_Body-worn_Back side_CH 140_Aux_10mm

Communication System: WLAN 5G; Frequency: 5700 MHz

Medium parameters used: f = 5700 MHz; $\sigma = 6.058 \text{ S/m}$; $\epsilon_r = 46.301$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

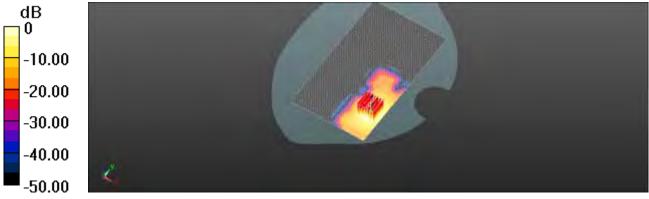
dy=4mm, dz=2mm

Reference Value = 0.9680 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.6G_Product specific 10-g SAR_Right side_CH 140 Aux 0mm

Communication System: WLAN 5G; Frequency: 5700 MHz

Medium parameters used: f = 5700 MHz; $\sigma = 6.058 \text{ S/m}$; $\varepsilon_r = 46.301$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (61x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 24.0 W/kg

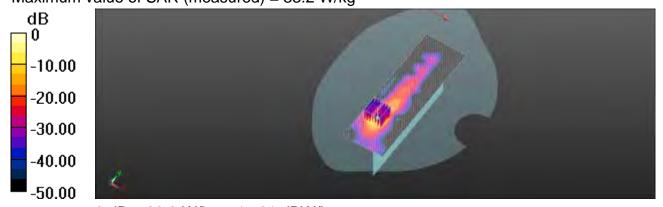
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 6.196 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 101 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 2.26 W/kgMaximum value of SAR (measured) = 33.2 W/kg



0 dB = 33.2 W/kg = 15.21 dBW/kg

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Date: 2016/5/12

WLAN802.11 n(20M) 5.6G_Head_Re Cheek_CH 100_Main

Communication System: WLAN 5G; Frequency: 5500 MHz

Medium parameters used: f = 5500 MHz; $\sigma = 5.025 \text{ S/m}$; $\epsilon_r = 35.592$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

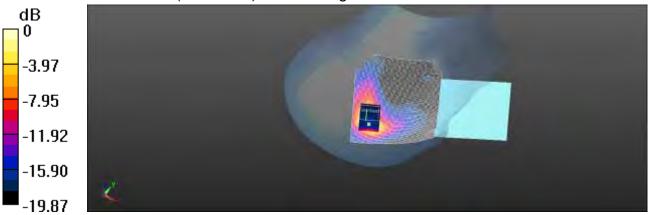
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 7.830 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.269 W/kg Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

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Date: 2016/5/12

WLAN 802.11ac(80M) 5.6G_Head_Re Cheek_CH 122_Main

Communication System: WLAN 5G; Frequency: 5610 MHz

Medium parameters used: f = 5610 MHz; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 35.257$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.64 W/kg

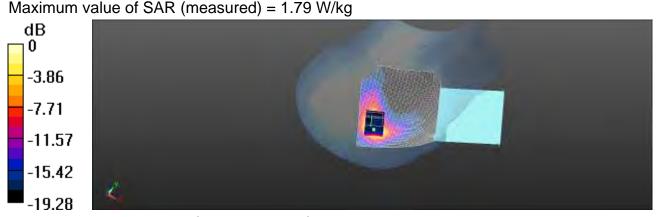
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 7.971 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.286 W/kg



0 dB = 1.79 W/kg = 2.53 dBW/kg

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Date: 2016/5/6

WLAN 802.11ac(80M) 5.6G_Body-worn_Front side_CH 122_Main_10mm

Communication System: WLAN 5G; Frequency: 5610 MHz

Medium parameters used: f = 5610 MHz; $\sigma = 6.029 \text{ S/m}$; $\varepsilon_r = 46.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.406 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

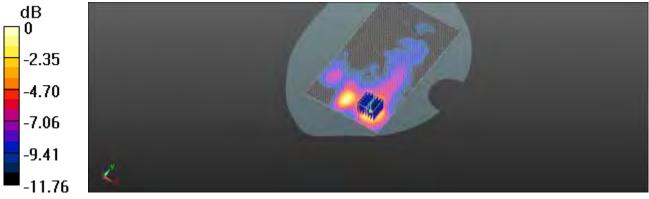
dy=4mm, dz=2mm

Reference Value = 2.927 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.844 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.393 W/kg = -4.06 dBW/kg

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Date: 2016/5/6

WLAN 802.11ac(80M) 5.6G_Product specific 10-g SAR_Front side_CH 122 Main 0mm

Communication System: WLAN 5G; Frequency: 5610 MHz

Medium parameters used: f = 5610 MHz; $\sigma = 6.029 \text{ S/m}$; $\varepsilon_r = 46.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 3.65 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 8.659 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 1.97 W/kg; SAR(10 g) = 0.993 W/kg Maximum value of SAR (measured) = 3.33 W/kg



0 dB = 3.33 W/kg = 5.22 dBW/kg

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Date: 2016/5/12

WLAN 802.11ac(80M) 5.6G_Head_Le Cheek_CH 122_Aux

Communication System: WLAN 5G; Frequency: 5610 MHz

Medium parameters used: f = 5610 MHz; $\sigma = 5.159 \text{ S/m}$; $\varepsilon_r = 35.257$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

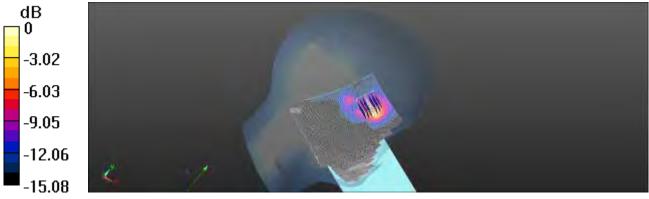
dy=4mm, dz=2mm

Reference Value = 2.993 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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Date: 2016/5/6

WLAN 802.11ac(80M) 5.6G_Body-worn_Back side_CH 122_Aux_10mm

Communication System: WLAN 5G; Frequency: 5610 MHz

Medium parameters used: f = 5610 MHz; $\sigma = 6.029 \text{ S/m}$; $\varepsilon_r = 46.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

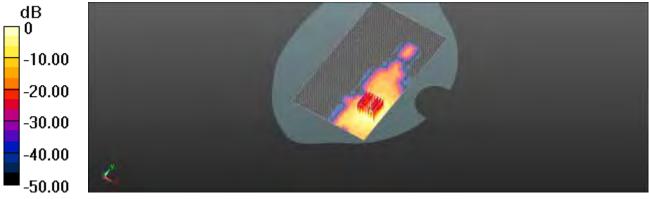
dy=4mm, dz=2mm

Reference Value = 0.5370 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 3.20 W/kg

SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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Date: 2016/5/6

WLAN 802.11ac(80M) 5.6G_Product specific 10-g SAR_Right side_CH 138 Aux 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: f = 5690 MHz; $\sigma = 6.029 \text{ S/m}$; $\varepsilon_r = 46.33$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (61x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

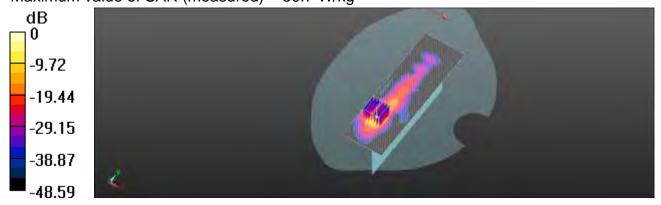
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 5.891 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 96.8 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 2.09 W/kg Maximum value of SAR (measured) = 30.7 W/kg



0 dB = 30.7 W/kg = 14.87 dBW/kg

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Date: 2016/5/13

WLAN 802.11a 5.8G_Head_Re Cheek_CH 165_Main

Communication System: WLAN 5G; Frequency: 5825 MHz

Medium parameters used: f = 5825 MHz; $\sigma = 5.424 \text{ S/m}$; $\varepsilon_r = 34.633$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.83, 4.83, 4.83); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.62 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

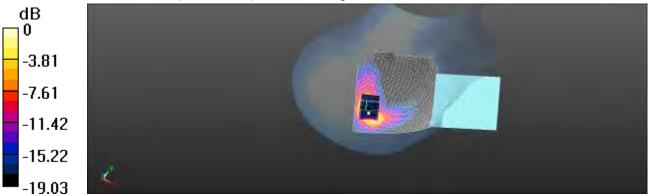
dy=4mm, dz=2mm

Reference Value = 7.312 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.300 W/kg

Maximum value of SAR (measured) = 1.83 W/kg



0 dB = 1.83 W/kg = 2.62 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.8G_Body-worn_Front side_CH 165_Main_10mm

Communication System: WLAN 5G; Frequency: 5825 MHz

Medium parameters used: f = 5825 MHz; $\sigma = 6.233 \text{ S/m}$; $\varepsilon_r = 45.885$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.383 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

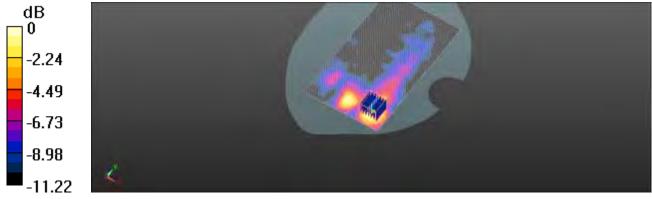
dy=4mm, dz=2mm

Reference Value = 2.367 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.821 W/kg

SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.363 W/kg



0 dB = 0.363 W/kg = -4.40 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.8G_Product specific 10-g SAR_Front side_CH 165_Main_0mm

Communication System: WLAN 5G; Frequency: 5825 MHz

Medium parameters used: f = 5825 MHz; $\sigma = 6.233 \text{ S/m}$; $\varepsilon_r = 45.885$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 4.40 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 6.682 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 0.906 W/kg Maximum value of SAR (measured) = 4.16 W/kg



0 dB = 4.16 W/kg = 6.19 dBW/kg

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Date: 2016/5/13

WLAN 802.11a 5.8G_Head_Le Cheek_CH 149_Aux

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used: f = 5745 MHz; $\sigma = 5.333$ S/m; $\varepsilon_r = 34.855$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.83, 4.83, 4.83); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (121x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.916 W/kg

Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

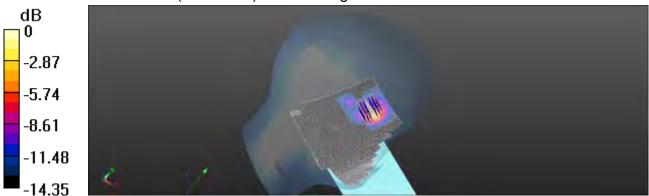
dy=4mm, dz=2mm

Reference Value = 2.769 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.8G Body-worn Back side CH 149 Aux 10mm

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used: f = 5745 MHz; $\sigma = 6.209$ S/m; $\varepsilon_r = 46.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10

Maximum value of SAR (interpolated) = 1.11 W/kg

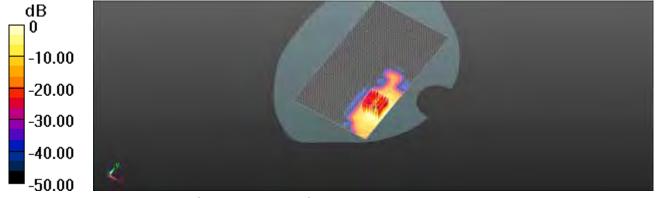
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 0.6170 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.176 W/kgMaximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2016/5/6

WLAN 802.11a 5.8G_Product specific 10-g SAR_Right side_CH 149_Aux_0mm

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used: f = 5745 MHz; $\sigma = 6.209$ S/m; $\varepsilon_r = 46.141$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (61x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

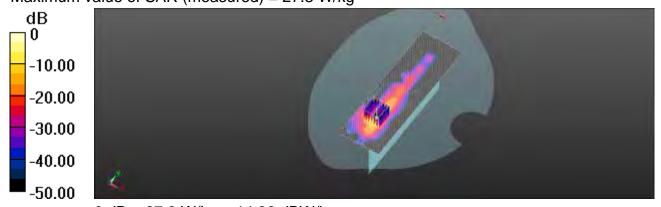
Configuration/Head/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 5.949 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 72.9 W/kg

SAR(1 g) = 9.47 W/kg; SAR(10 g) = 1.59 W/kg Maximum value of SAR (measured) = 27.3 W/kg



0 dB = 27.3 W/kg = 14.36 dBW/kg

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Date: 2016/5/9

Bluetooth Body-worn Back CH 39

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used: f = 2441 MHz; $\sigma = 1.989$ S/m; $\varepsilon_r = 52.823$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12

Maximum value of SAR (interpolated) = 0.0359 W/kg

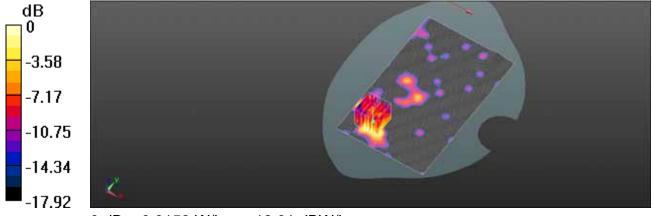
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 5.688 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0200 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00691 W/kgMaximum value of SAR (measured) = 0.0158 W/kg



0 dB = 0.0158 W/kg = -18.01 dBW/kg

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6. SAR System Performance Verification

Date: 2016/5/4

Dipole 750 MHz SN:1015 Body

Communication System: CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.976 \text{ S/m}$; $\varepsilon_r = 56.475$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7346; ConvF(10.11, 10.11, 10.11); Calibrated: 2015/9/2;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn916; Calibrated: 2015/12/16

Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.60 W/kg

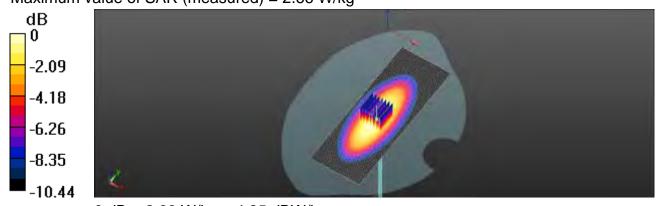
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.23 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kgMaximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

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Date: 2016/5/8

Dipole 835 MHz_SN:4d063_Head

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.919 \text{ S/m}$; $\varepsilon_r = 40.894$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(9.8, 9.8, 9.8); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.09 W/kg

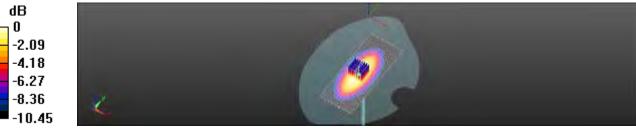
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.13 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.56 W/kg Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.89 dBW/kg

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Date: 2016/5/3

Dipole 835 MHz_SN:4d063_Body

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.018 \text{ S/m}$; $\varepsilon_r = 55.704$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(10.05, 10.05, 10.05); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm,

Maximum value of SAR (interpolated) = 3.18 W/kg

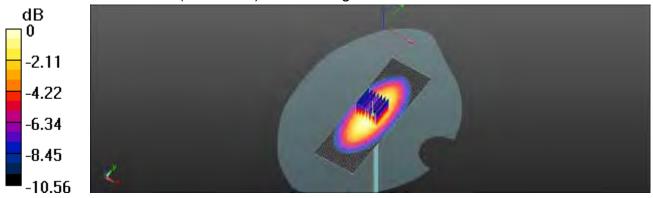
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.03 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.63 W/kgMaximum value of SAR (measured) = 3.17 W/kg



0 dB = 3.17 W/kg = 5.01 dBW/kg

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Date: 2016/5/7

Dipole 1750 MHz SN:1008 Head

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.377 \text{ S/m}$; $\epsilon_r = 39.277$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.6, 8.6, 8.6); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x101x1): Interpolated grid: dx=15 mm,

Maximum value of SAR (interpolated) = 12.9 W/kg

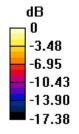
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

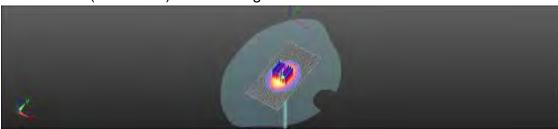
dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.20 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.86 W/kgMaximum value of SAR (measured) = 12.5 W/kg





0 dB = 12.5 W/kg = 10.97 dBW/kg

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Date: 2016/4/28

Dipole 1750 MHz_SN:1008_Body

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.438 \text{ S/m}$; $\varepsilon_r = 54.169$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.06, 8.06, 8.06); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x41x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

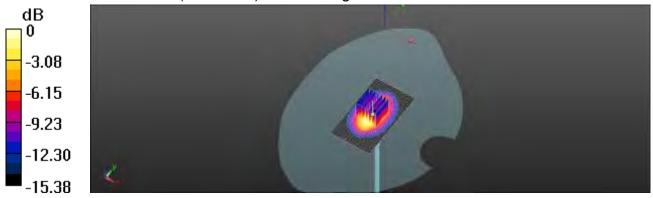
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 81.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.3 W/kg; SAR(10 g) = 4.93 W/kgMaximum value of SAR (measured) = 13.3 W/kg



0 dB = 9.66 W/kg = 9.85 dBW/kg

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Date: 2016/5/2

Dipole 1900 MHz SN:5d027 Head

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.419 \text{ S/m}$; $\varepsilon_r = 38.968$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(8.33, 8.33, 8.33); Calibrated: 2015/09/02;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x81x1): Interpolated grid: dx=15 mm,

Maximum value of SAR (interpolated) = 14.9 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.11 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 10 W/kg; SAR(10 g) = 5.23 W/kgMaximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.65 dBW/kg

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Date: 2016/4/27

Dipole 1900 MHz_SN:5d027_Body

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.559 \text{ S/m}$; $\varepsilon_r = 53.728$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.77, 7.77, 7.77); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- · Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x41x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

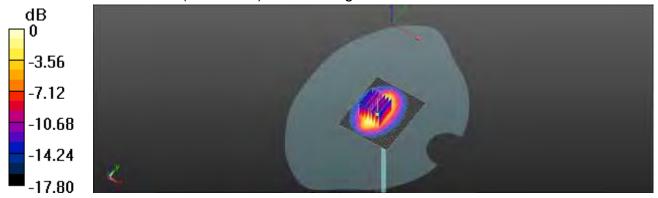
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.61 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.53 W/kg; SAR(10 g) = 4.96 W/kg Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

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Date: 2016/4/30

Dipole 2300 MHz_SN:1023_Body

Communication System: CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.848 \text{ S/m}$; $\varepsilon_r = 52.505$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.57, 7.57, 7.57); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x101x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 17.8 W/kg

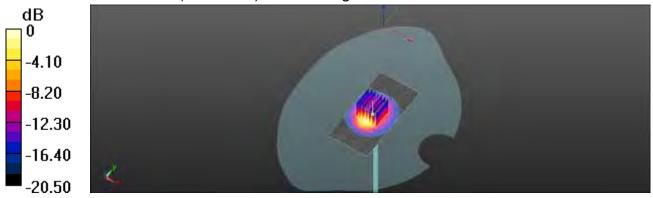
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.11 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 23.2 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 5.59 W/kgMaximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

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ate: 2016/5/9

Dipole 2450 MHz SN:727 Head

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.884 \text{ S/m}$; $\varepsilon_r = 38.097$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 21.5 W/kg

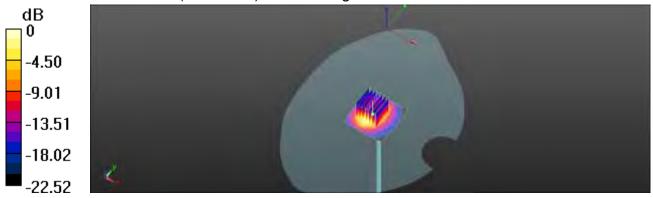
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.50 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.09 W/kgMaximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg = 13.10 dBW/kg

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Date: 2016/5/9

Dipole 2450 MHz SN:727 Body

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.003 \text{ S/m}$; $\varepsilon_r = 52.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 21.8 W/kg

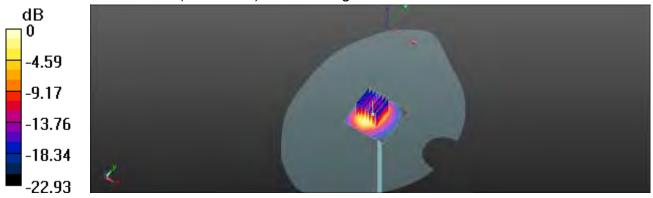
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.20 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.95 W/kgMaximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg = 13.14 dBW/kg

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Date: 2016/4/29

Dipole 2600 MHz_SN:1005_Body

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.24 \text{ S/m}$; $\varepsilon_r = 51.705$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7346; ConvF(7.29, 7.29, 7.29); Calibrated: 2015/9/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2015/12/16
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 23.3 W/kg

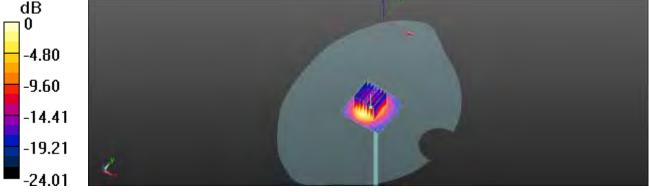
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.52 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6 W/kgMaximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

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Date: 2016/5/10

Dipole 5200 MHz SN:1023 Head

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.645 \text{ S/m}$; $\varepsilon_r = 36.445$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.0 W/kg

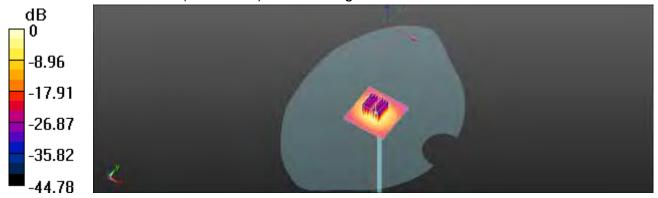
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.00 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 34.9 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.13 W/kgMaximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

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Date: 2016/5/5

Dipole 5200 MHz_SN:1023_Body

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.459 \text{ S/m}$; $\varepsilon_r = 47.922$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.3 W/kg

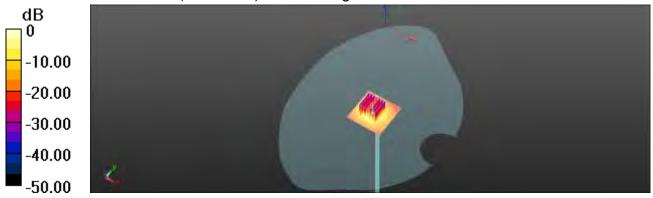
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.71 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.24 W/kg Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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Date: 2016/5/11

Dipole 5300 MHz SN:1023 Head

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 4.768 \text{ S/m}$; $\varepsilon_r = 36.145$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.8 W/kg

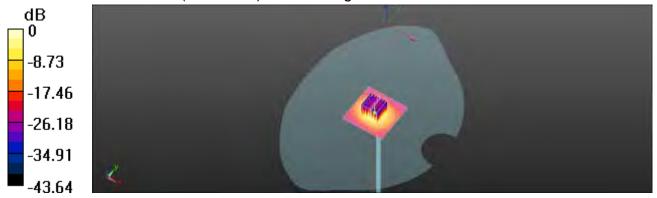
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.56 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.19 W/kgMaximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Date: 2016/5/5

Dipole 5300 MHz_SN:1023_Body

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.609 \text{ S/m}$; $\varepsilon_r = 47.578$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

· Phantom: Head

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

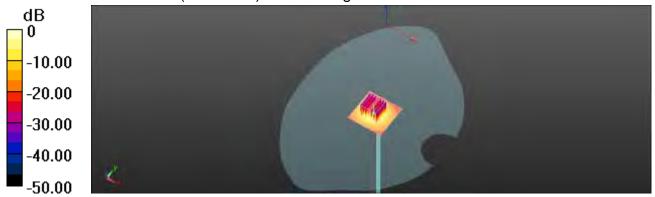
dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.36 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 7.8 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Date: 2016/5/12

Dipole 5600 MHz_SN:1023_Head

Communication System: CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.154 \text{ S/m}$; $\varepsilon_r = 35.276$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 18.6 W/kg

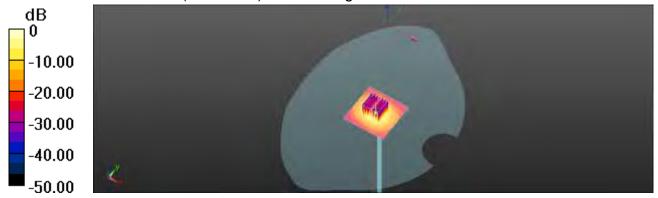
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 64.41 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 42.1 W/kg

SAR(1 g) = 8.43 W/kg; SAR(10 g) = 2.34 W/kgMaximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

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Report No.: EN/2017/10007 Page: 299 of 479

Date: 2016/5/6

Dipole 5600 MHz_SN:1023_Body

Communication System: CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 6.008 \text{ S/m}$; $\varepsilon_r = 46.572$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 17.0 W/kg

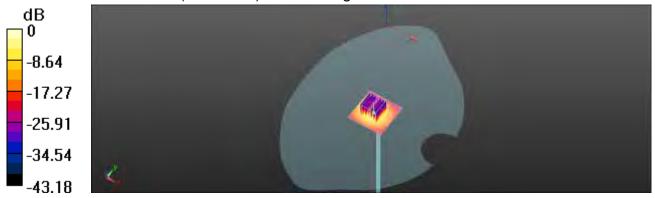
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.18 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.38 W/kgMaximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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Report No.: EN/2017/10007 Page: 300 of 479

Date: 2016/5/13

Dipole 5800 MHz SN:1023 Head

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 5.398 \text{ S/m}$; $\varepsilon_r = 34.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.83, 4.83, 4.83); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.1 W/kg

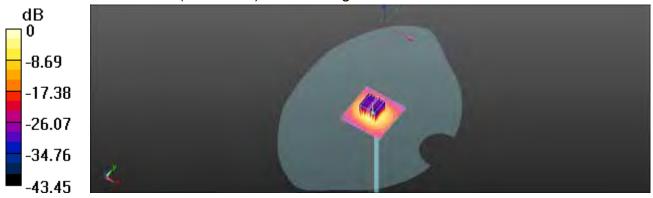
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.83 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 38.2 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.08 W/kgMaximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2016/5/6

Dipole 5800 MHz_SN:1023_Body

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 6.145 \text{ S/m}$; $\epsilon_r = 46.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.9 W/kg

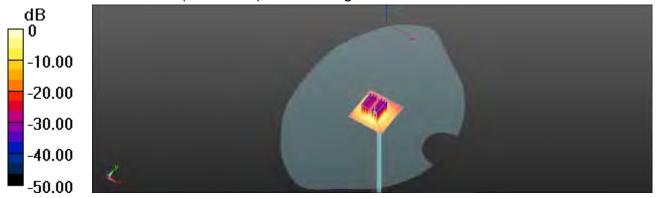
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.43 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.15 W/kgMaximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

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Date: 2017/2/15

Dipole 750 MHz_SN:1015_Body

Communication System: CW; Frequency: 750 MHz;

Medium parameters used: f = 750 MHz; $\sigma = 0.975 \text{ S/m}$; $\varepsilon_r = 57.335$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.84 W/kg

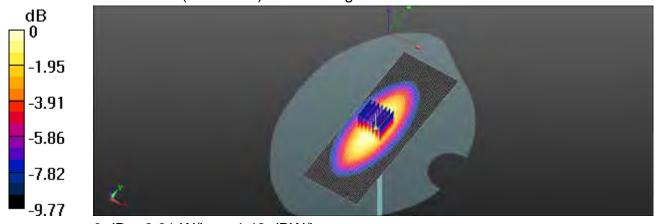
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.85 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.5 W/kgMaximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

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Report No.: EN/2017/10007 Page: 303 of 479

Date: 2017/2/13

Dipole 835 MHz SN:4d063 Head

Communication System: CW; Frequency: 835 MHz;

Medium parameters used: f = 835 MHz; $\sigma = 0.927 \text{ S/m}$; $\varepsilon_r = 42.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.47, 9.47, 9.47); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm,

Maximum value of SAR (interpolated) = 3.17 W/kg

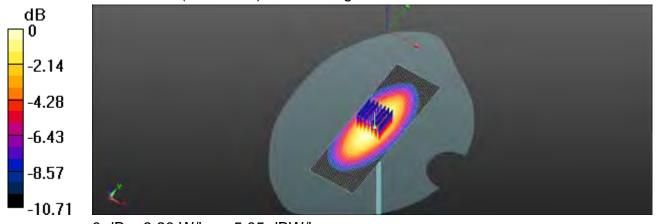
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.16 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.63 W/kgMaximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

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Date: 2017/2/13

Dipole 835 MHz_SN:4d063_Body

Communication System: CW; Frequency: 835 MHz;

Medium parameters used: f = 835 MHz; $\sigma = 0.999 \text{ S/m}$; $\varepsilon_r = 57.407$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.96 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

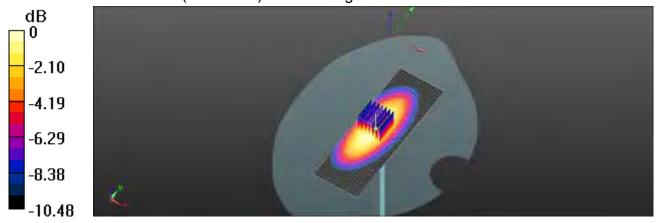
dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.83 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

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Report No.: EN/2017/10007 Page: 305 of 479

Date: 2017/2/3

Dipole 1750 MHz_SN:1008_Head

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.338 \text{ S/m}$; $\varepsilon_r = 40.626$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(8.19, 8.19, 8.19); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.2 W/kg

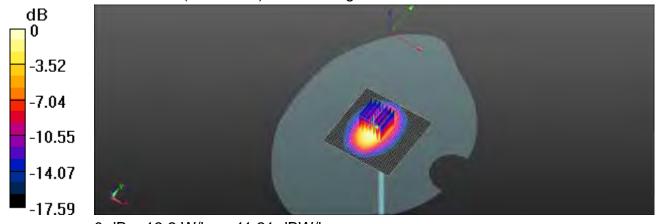
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.07 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.81 W/kg Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.2 W/kg = 11.21 dBW/kg

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Date: 2017/2/3

Dipole 1750 MHz SN:1008 Body

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.437 \text{ S/m}$; $\varepsilon_r = 53.595$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(8.19, 8.19, 8.19); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x71x1): Interpolated grid: dx=15 mm,

Maximum value of SAR (interpolated) = 14.4 W/kg

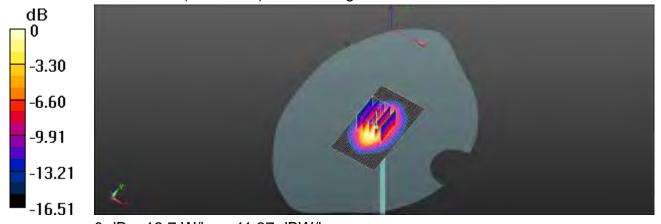
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.24 V/m: Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.65 W/kg; SAR(10 g) = 5.14 W/kaMaximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kq = 11.37 dBW/kq

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Date: 2017/2/14

Dipole 1900 MHz_SN:5d027_Head

Communication System: CW; Frequency: 1900 MHz; Duty Factor: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.45 \text{ S/m}$; $\varepsilon_r = 40.166$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.88, 7.88, 7.88); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.8 W/kg

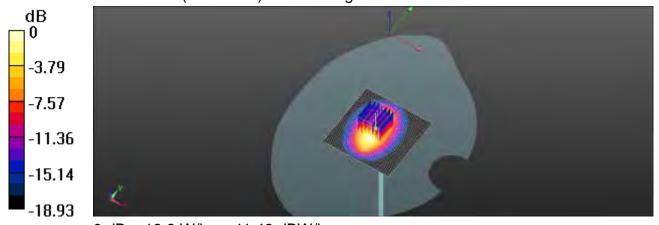
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.25 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 9.47 W/kg; SAR(10 g) = 4.82 W/kg Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg

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Dipole 1900 MHz_SN:5d027_Body

Communication System: CW; Frequency: 1900 MHz; Duty Factor: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.586 \text{ S/m}$; $\varepsilon_r = 53.128$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- · Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (31x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

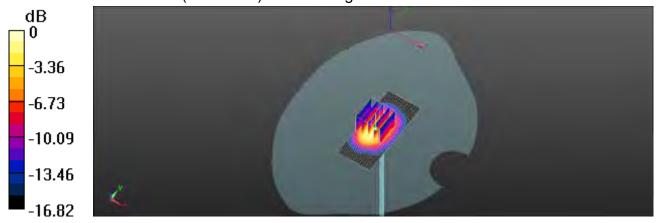
dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.14 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 10 W/kg; SAR(10 g) = 5.29 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

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Report No.: EN/2017/10007 Page: 309 of 479

Date: 2017/2/5

Dipole 2300 MHz SN:1023 Body

Communication System: CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.848 \text{ S/m}$; $\epsilon_r = 52.505$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.53, 7.53, 7.53); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x101x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 18.4 W/kg

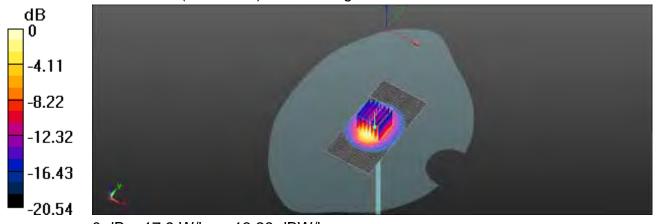
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.57 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 23.7 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 5.43 W/kgMaximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kq = 13.28 dBW/kq

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Date: 2017/2/6

Dipole 2450 MHz SN:727 Head

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.837 \text{ S/m}$; $\epsilon_r = 38.654$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 22.3 W/kg

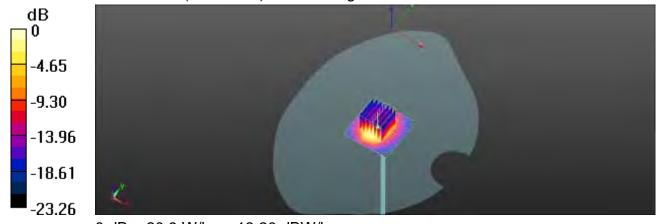
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.7 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 5.97 W/kgMaximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kg = 13.20 dBW/kg

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Date: 2017/2/6

Dipole 2450 MHz SN:727 Body

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2 \text{ S/m}$; $\epsilon_r = 51.693$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 20.2 W/kg

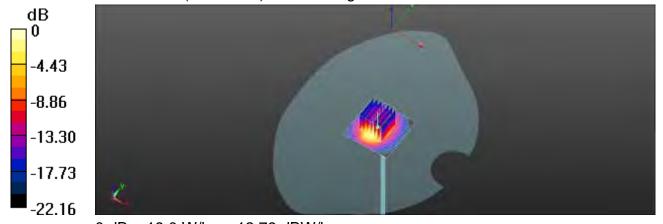
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.02 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.55 W/kgMaximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

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Date: 2017/2/5

Dipole 2600 MHz SN:1005 Head

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 1.967 \text{ S/m}$; $\varepsilon_r = 37.835$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(6.95, 6.95, 6.95); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 22.1 W/kg

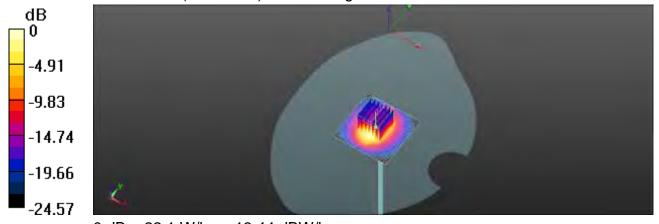
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.3 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.18 W/kgMaximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg

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Date: 2017/2/5

Dipole 2600 MHz SN:1005 Body

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.24 \text{ S/m}$; $\epsilon_r = 51.687$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm,

Maximum value of SAR (interpolated) = 23.0 W/kg

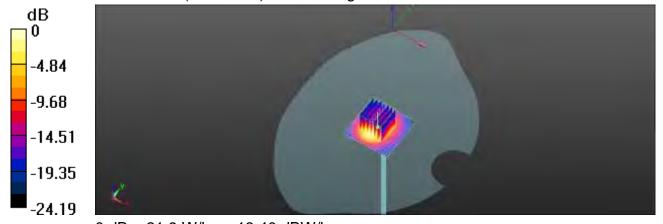
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.58 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 30.7 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 5.94 W/kgMaximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

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Date: 2017/2/7

Dipole 5200 MHz_SN:1023_Head

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.67 \text{ S/m}$; $\epsilon_r = 37.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

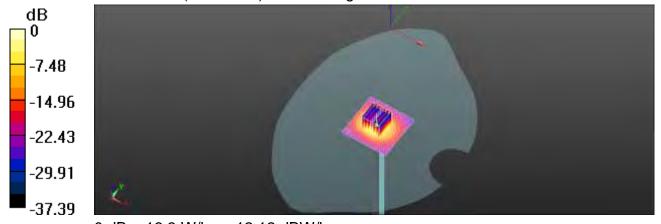
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.80 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 33.1 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.15 W/kg Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Report No.: EN/2017/10007 Page: 315 of 479

Date: 2017/2/7

Dipole 5200 MHz_SN:1023_Body

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.184 \text{ S/m}$; $\varepsilon_r = 49.153$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

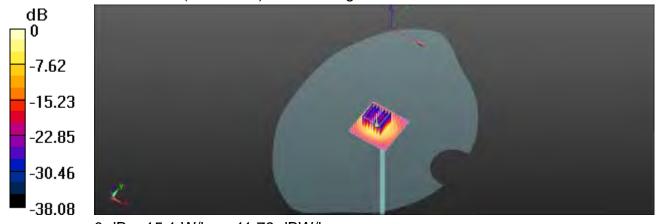
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.05 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 7.09 W/kg; SAR(10 g) = 1.97 W/kg Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg = 11.79 dBW/kg

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Report No.: EN/2017/10007 Page: 316 of 479

Date: 2017/2/8

Dipole 5300 MHz SN:1023 Head

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 4.798 \text{ S/m}$; $\varepsilon_r = 37.062$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.03, 5.03, 5.03); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.7 W/kg

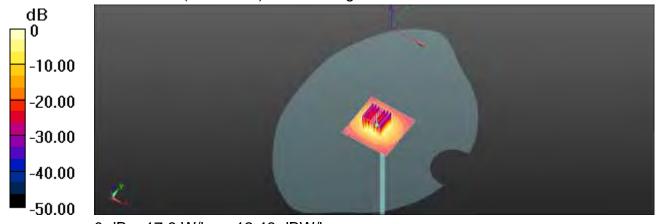
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.47 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.31 W/kgMaximum value of SAR (measured) = 17.6 W/kg



0 dB = 17.6 W/kg = 12.46 dBW/kg

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Report No.: EN/2017/10007 Page: 317 of 479

Date: 2017/2/8

Dipole 5300 MHz_SN:1023_Body

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.341$ S/m; $\varepsilon_r = 48.841$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

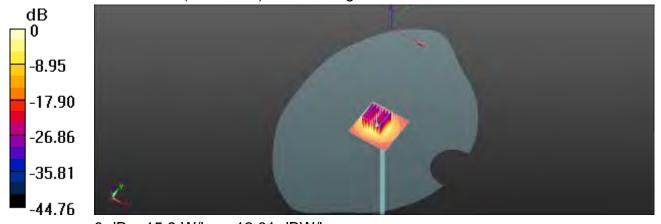
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.78 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.05 W/kg Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg

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Report No.: EN/2017/10007 Page: 318 of 479

Date: 2017/2/9

Dipole 5600 MHz SN:1023 Head

Communication System: CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.186 \text{ S/m}$; $\varepsilon_r = 36.193$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.42, 4.42, 4.42); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 17.5 W/kg

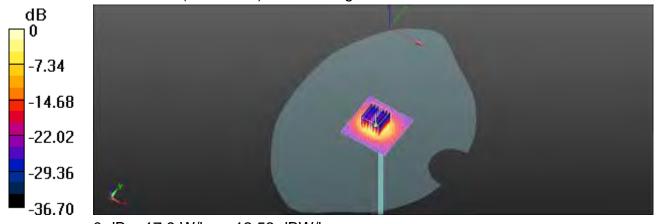
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.87 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.33 W/kgMaximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kq = 12.53 dBW/kq

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Report No.: EN/2017/10007 Page: 319 of 479

Date: 2017/2/9

Dipole 5600 MHz_SN:1023_Body

Communication System: CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.833 \text{ S/m}$; $\varepsilon_r = 47.904$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

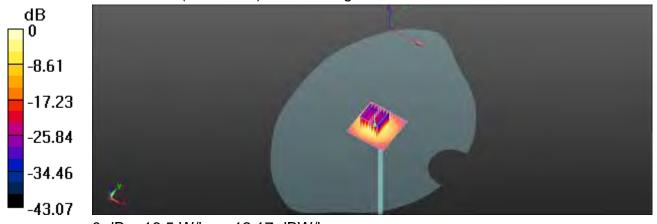
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.21 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.15 W/kg Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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Report No.: EN/2017/10007 Page: 320 of 479

Date: 2017/2/10

Dipole 5800 MHz SN:1023 Head

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 5.433 \text{ S/m}$; $\varepsilon_r = 35.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.83, 4.83, 4.83); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x61x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 15.9 W/kg

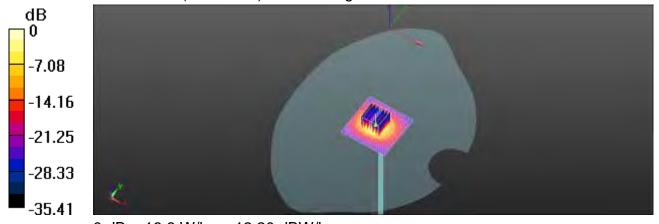
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.37 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.14 W/kgMaximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Report No.: EN/2017/10007 Page: 321 of 479

Date: 2017/2/10

Dipole 5800 MHz SN:1023 Body

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 6.15 \text{ S/m}$; $\varepsilon_r = 47.271$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Head
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 17.2 W/kg

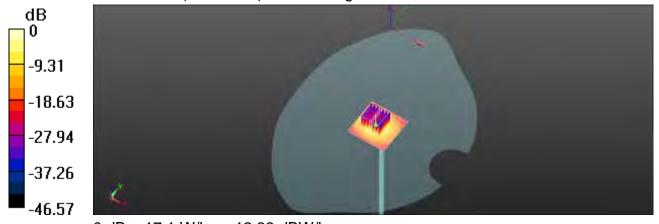
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.95 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 35.6 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.15 W/kgMaximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

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7. DAE & Probe Calibration Certificate

Calibration Laboratory of Schweizertscher Kalibrandienst S Bervice suisse d'étalonnaus Schmid & Partner C Servizio svizzero di taratura Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland Swiss Calibration Service Accreditation No.: SCS 0108 Appreciated by the Swas Appreciation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates Certificate No: DAE4-91B Dec15 Auden CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BK - SN: 916 QA CAL-06 v29 Caronido procedurais: Calibration procedure for the data acquisition electronics (DAE) December 16, 2015 The cultration certificate documents the traceability to callional standards, which regize the physical units of measurements (SI): The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate All calignature have been conducted in the closed laboratory banky, environment temperature (22 ± 1)/ C and humidity = 70% Catersoon Equipment used (M&TE critical for calibration) Scheduled Calibration Dat Date (Certrisate No.) 10.0 Primary Standards 09-Sep-15 (N0017153) Sep-15 SN: 0810278 Kerthley Multimater Type 2001 Scheduled Check Check Date (In Irosse) Secondary Standards in house check: Jan 15 SE UWS 053 AA 1021 06-Jun-15 (in house check) Auto DAE Calibration Unit. In house check Jan-18 SE HAS DE AA 1000, DE-JAN-15 TH HUMAN CHECK! Calibrator Box VII.1 Findin Dominique Steffen Technician Caterolei) by Deputy Technical Manager Els Bomboli This collimnion circlicate shall not be reproduced except in full without written approxisal of the terrestory

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Calibration Laboratory of Schmid & Partner Engineering AG Zeugheesstrasse 43, 2004 Zurich, Switzerland





S Schweizerlacher Kalturierdiener
C Service suisse d'étalennage
Servizio avizzero di teratura
S Swies Calibration Service

Aggregitation No.: SCS 0108

Actied on the Seas Accretitation Service (SAS)
The Swiss Accretitation Service is one of the algostories to the EA
Multilateral Agreement for the recognition of calibration certificates.

Glossary

DAE data acquisition electronics

Connector angle Information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement. Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle. The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information: Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information, Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificats No DAE4-916_Dec15

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DC Voltage Measurement

A/D - Converter Resolution nominal

1LSB = full range = -100...+300 mV full range = -1......+3mV High Range: 6.1µV. Low Range: 1LSB = 61nV, DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Υ	Z
High Range	403.872 ± 0.02% (k=2)	403.658 ± 0.02% (k=2)	403.787 ± 0.02% (k=2)
Low Range	3.97309 ± 1.50% (k=2)	3.98670 ± 1.50% (k=2)	3.98020 ± 1.50% (k=2)

Connector Angle

١		
ı	Connector Angle to be used in DASY system	237.5°±1°

Certificate No: DAE4-916_Dec15

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	200030.55	-1.38	-0.00
Channel X + Input	20007.80	3.85	0.02
Channel X - Input	-20002.99	2.15	-0.01
Channel Y + Input	200030.39	-1.74	-0.00
Channel Y + Input	20005.85	1.87	0.01
Channel Y - Input	-20004.60	0.77	-0.00
Channel Z + Input	200030.93	-1.37	-0.00
Channel Z + Input	20003.67	-0.26	-0.00
Channel Z - Input	-20007.07	-1.73	0.01

Low Range	Reading (µV)	Difference (μV)	Error (%)
Channel X + Ing	ut 2000.63	0.02	0.00
Channel X + Ing	ut 200.53	-0.21	-0.10
Channel X - Inp	ut -199.49	-0.20	0.10
Channel Y + Inc	ut 2000.95	0.45	0.02
Channel Y + Inc	ut 199.89	-0.68	-0.34
Channel Y - Inp	ut -200.17	-0.73	0.37
Channel Z + Ing	ut 2000.41	-0.10	-0.01
Channel Z + Ing	ut 199.38	-1.20	-0.60
Channel Z - Inp	ut -200.57	-1.09	0.55

2. Common mode sensitivity

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	3.88	2.49
	- 200	-1.75	-3.33
Channel Y	200	-16.49	-16.75
	- 200	15.84	15.21
Channel Z	200	-23.05	-22.82
	- 200	21.32	21.11

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (µV)
Channel X	200		-1.09	-3.01
Channel Y	200	4.79	-	0.67
Channel Z	200	8.06	3.10	

Certificate No: DAE4-916_Dec15

Page 4 of 5

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	15879	14636
Channel Y	16103	16253
Channel Z	15949	14328

5. Input Offset Measurement

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

OMOL tug

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.23	-0.60	0.95	0.33
Channel Y	0.00	-1.64	1.23	0.38
Channel Z	-0.98	-2.30	0.94	0.49

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25tA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No: DAE4-916 Dec15

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8604 Zurich, Switzerland





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The Swiss Accreditation Service is one of the signatories to the EA Multifateral Agreement for the recognition of calibration pertificates

Client SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: DAE4-856_Apr16

CALIBRATION CERTIFICATE

Object

DAE4 - SD 000 D04 BM - SN: 856

Calibration procedure(s)

QA CAL-06.v29

Calibration procedure for the data acquisition electronics (DAE)

Calibration date

April 21, 2016

This calibration certificate documents the tracestrilly to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature (22 x 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithiay Multimeter Type 2001	SN: 0810278	09-Sep-15 (No:17153)	Sep-16
Secondary Standards	(D) e	Check Date (in frouse)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	85-Jan-16 (in house check)	In house check: Jarv17
Calibrator Box V2.1	SE UMS 008 AA 1002	05-Jan-16 (in house check)	In house of soil: Jan-17

Calibrated by

Name R Mayotaz Function Technician Signature

Approved by:

Fin Bomhat

Deputy Technical Manager

Issued April 21, 2016

This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: DAE4-856_Apr16

Page 1 of 5

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Service suisse d Vallennage
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Swiss Calibration Service

Accreditation No.: SCS 0108

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The Swiss Accreditation Service is one of the signaturies to the EA

Negligibles Agreement for the recognition of calibration confilestes

Glossary

DAE Connector angle data acquisition electronics

information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range:
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an
 input voltage.
 - AD Converter Values with inputs shorted; Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No. CAE4-856_April6

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV , full range = -100...+300 mV Low Range: 1LSB = 61nV , full range = -1......+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	Z
High Range	403.450 ± 0.02% (k=2)	404.571 ± 0.02% (k=2)	403.888 ± 0.02% (k=2)
Low Range	3.97641 ± 1.50% (k=2)	3.97912 ± 1.50% (k=2)	3.97796 ± 1.50% (k=2)

Connector Angle

		\neg
Connector Angle to be used in DASY system	52.0 ° ± 1 °	

Certificate No: DAE4-856_Apr16

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199996.11	0.91	0.00
Channel X + Input	19999.18	-2.34	-0.01
Channel X - Input	-19999.41	1.06	-0.01
Channel Y + Input	199997.66	2.51	0.00
Channel Y + Input	19998.64	-2.84	-0.01
Channel Y - Input	-20002.21	-1.65	0.01
Channel Z + Input	199995.99	0.62	0.00
Channel Z + Input	19999.35	-2.13	-0.01
Channel Z - Input	-20002.57	-1.88	0.01

Low Range	Reading (μV)	Difference (µV)	Error (%)	
Channel X + Input	2001.58	0.10	0.01	
Channel X + Input	202.26	0.40	0.20	
Channel X - Input	-197.29	0.76	-0.38	
Channel Y + Input	2001.59	0.10	0.00	
Channel Y + Input	200.88	-1.08	-0.52	
Channel Y - Input	-199.46	-1.39	0.70	
Channel Z + Input	2001.75	0.28	0.01	
Channel Z + Input	201.40	-0.39	-0.19	
Channel Z - Input	-198.94	-0.69	0.35	

2. Common mode sensitivity

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-14.19	-16.06
	- 200	18.03	16.49
Channel Y	200	-2.43	-2.73
	- 200	0.85	0.06
Channel Z	200	10.84	10.76
	- 200	-12.44	-12.80

3. Channel separation

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

	Input Voltage (mV)	Channel X (µV)	Channel Y (μV)	Channel Z (µV)
Channel X	200		1.98	-2.81
Channel Y	200	7.60	-	4.11
Channel Z	200	9.54	4.60	-

Certificate No: DAE4-856_Apr16

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4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	16223	16358
Channel Y	15947	17393
Channel Z	15877	17066

5. Input Offset Measurement

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

ж			

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.86	0.04	1.50	0.29
Channel Y	-0.51	-2.36	0.33	0.41
Channel Z	-0.75	-2.04	0.01	0.30

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA) Stand by (mA) Transmitting		Transmitting (mA)
Supply (+ Voc)	+0.01	+6	+14
Supply (- Vec)	-0.01	-8	-9

Certificate No: DAE4-856_Apr16 Page 5 of 5

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Schmid & Partner
Engineering AG
Zoughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienat
C Service sulsse d'étalonnage
S Servizio svizzero di tamitura
Seisa Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
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Client Auden

Cartificate No: EX3-7346_Sep15

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7346

Calbinion procedures

QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration data

September 2, 2015

This calibration cartificate occurrents the inacessary to national standards, which resides the physical units of measurements (SI).
The measurements and the uncurtainties with confidence probability are given as the following pages and are part of the cerollicitie.

All call brakers have been conducted in the closed laboratory facility, lenvironment temperature (22 ± 37°C and humidity < 76%).

Calibration Equipment used (MATE critical for calibration)

Primary Standards	103	Car Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	01-Apr-15 (No. 217-02128)	Mer-16
Power sensor E4412A	MY41498087	01-Apr-15 (No. 217-02128)	Mar-16.
Reference 3 dB Attenuator	SN: 95054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Alternator	SN S5277 (20x)	01-Apr-15 (No. 217-02132)	Mary16
Reference 30 dB Attenuator	SN. S5129 (30b)	01-Apr-16 (No. 217-02133)	Mar-16
Reference Probe ES30V2	SN 3013	30-Dec 14 (No ESS-3013 Dec14)	Dec-15
DAE4	SN: 880	14-Jan-15 (No DAE4-660_Jan15)	Jan-16
Secondary Standards	10	Check Date (in mase)	Scheduled Check
RE generation HP 6648C	U\$3642U91100	4-Aug-99 (in house check Apr-13)	In house check. Apr. 15
Network Anelyzer HP 875%	US37390585	18-Oct-01 (in house theck Oct-14)	In house sheds. Oct-15

Coldrated by Inne Elineous Laboratory Technician Sagnature

Coldrated by Eatin Elineous Laboratory Technician

Approved by Katja Poscarc Technical Manager

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Sagnature

Certificate No: EX3-7346 Sep15

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Calibration Laboratory of

Schmid & Partner Engineering AG oghamstrasse 41, 8004 Zurion Switzeria





Schweimrischer Kalibrerdienei S Service eurose d'étalomage C Sérvició ávizzero di faratura Switzs Chimpiton Service

Accorditation No.: SCS 0108

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Glossary:

TSL fissue simulating liquid NORMx, y, z sensitivity in free space ConvF DCP sensitivity in TSL / NORMy, y, z diode compression point

oreși facțor (1/duty_cycle) of the RF signal modulation dependent linearization parameters A. B. C. D.

Polarization (ii rotation around probe axis

Polarization 9 A rotation around an axis that is in the plane normal to probe axis (at measurement center).

i.e., 8 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system.

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spacial Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Directs. Measurement
- Techniques June 2013
 b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005.

 (i) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices."
- used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010, 8DB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz."

Methods Applied and Interpretation of Parameters:

- WDRMs, y.z. Assessed for E-field polarization a = 0 (I s 900 MHz in TEM-cell if > 1800 MHz; R22 waveguide). NORMx,y,z are only informediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- MORIMITY, y, z = NORMX, y, z * frequency response lises Frequency Response Chart. This incentiation is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency majorise is included. in the stated uncertainty of CovyF
- DCPx.y.z. DCP are numerical meanization parameters assessed based on the data of power sweep with CW signal (no uncortainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined baseli on the signal characteristics
- As y. z. Bx, y. z. Cx, y. z. Ds, y. z. VRx, y. z. A. B. C., D are numerical innertration parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the cliede.
- CovivF and Boundary Effect Parameters. Assessed in flat phantom using E-field (or Temperatum Transfer Standard for f = 800 MHz) and inside waveguide using analytical field distributions based on power measurements for $f \ge 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (stphs, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y.z.* Corn/F whereby the uncertainty corresponds to NORMx,y.z.* Corn/F whereby the uncertainty corresponds to that given for Corn/F. A fraguency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100. MHz
- Spherical isotropy (30 deviation from isotropy): in a field of low gradients realized using a flat phantom. exposed by a patch antenna.
- Sensor Offset. The sensor offset corresponds to the offset of virtual measurement penter from the property. (on probe axis). No tolerance required
- Connector Angle. The angle is assessed using the information gained by determining the NORMs (no. aricertainty required).

Certificate No. EX3-7346 Sep15

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EX3DV4 = \$N:7346 September 2, 2015

Probe EX3DV4

SN:7346

Manufactured: October 13, 2014 Repaired: August 21, 2015 Calibrated: September 2, 2015

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: EX3-7346_Sep15

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EX3DV4-SN:7346 September 2, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.53	0.52	0.49	± 10.1 %
DCP (mV) ⁸	98.0	101.9	98.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	X	0.0	0.0	1.0	0.00	158.9	±2.7 %
		Y	0.0	0.0	1.0		166.0	
		Z	0.0	0.0	1.0		163.9	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-7346 Sep15

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The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization perameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the



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EX3DV4-SN:7346 September 2, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^G	Relative Permittivity ^r	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ⁶ (mm)	Unc (k=2)
750	41.9	0.89	10.22	10.22	10.22	0.22	1.49	± 12.0 %
835	41.5	0.90	9.80	9.80	9.80	0.20	1.81	± 12.0 %
1750	40.1	1.37	8.60	8.60	8.60	0.42	0.80	± 12.0 %
1900	40.0	1.40	8.33	8.33	8.33	0.41	0.80	± 12.0 %
2000	40.0	1.40	8.13	8.13	8.13	0.38	0.80	± 12.0 %
2300	39.5	1.67	7.82	7.82	7.82	0.36	0.80	± 12.0 %
2450	39.2	1.80	7.27	7.27	7.27	0.42	0.80	± 12.0 %
2600	39.0	1.96	7.15	7.15	7.15	0.35	0.91	± 12.0 %
5200	36.0	4.66	5.29	5.29	5.29	0.35	1.80	± 13.1 %
5300	35.9	4.76	5.09	5.09	5.09	0.35	1.80	± 13.1 %
5500	35.6	4.96	4.66	4.66	4.66	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.48	4.48	4.48	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.59	4.59	4.59	0.40	1.80	± 13.1 %

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

Certificate No: EX3-7346 Sep15

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validity can be extended to ± 110 MHz.

At frequencies below 3 GHz, the validity of tissue parameters (c and d) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and d) is restricted to ± 5%. The uncertainty is the RSS of the ConvE uncertainty for indicated target tissue parameters.

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



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EX3DV4- SN:7346

September 2, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ⁰	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.11	10.11	10.11	0.29	1.18	± 12.0 %
835	55.2	0.97	10.05	10.05	10.05	0.45	0.88	± 12.0 %
1750	53.4	1.49	8.06	8.06	8.06	0.29	1.03	± 12.0 %
1900	53.3	1.52	7.77	7.77	7.77	0.41	0.80	± 12.0 %
2000	53.3	1.52	7.99	7.99	7.99	0.41	0.83	± 12.0 %
2300	52.9	1.81	7.57	7.57	7.57	0.32	0.80	± 12.0 %
2450	52.7	1.95	7.43	7.43	7.43	0.44	0.80	± 12.0 %
2600	52.5	2.16	7.29	7.29	7.29	0.32	0.80	± 12.0 %
5200	49.0	5.30	4.64	4.64	4.64	0.45	1.90	± 13.1 %
5300	48.9	5.42	4.42	4.42	4.42	0.45	1.90	± 13.1 %
5500	48.6	5.65	3.95	3.95	3.95	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.90	3.90	3.90	0.50	1.90	± 13.1 %
5800	48.2	6.00	4.08	4.08	4.08	0.50	1.90	± 13.1 %

⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the CornF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for CornF assessments at 30, 64, 126, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

*At frequencies below 3 GHz, the validity of tissue parameters (x and e) can be relaxed to ± 10% if flouid compensation formula is applied to

Certificate No: EX3-7346_Sep15

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An inquentized setting 3 Carb, the validity of issue parameters (a and d) can be reliated to ± 10% if fliguid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of issue parameters (a and d) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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



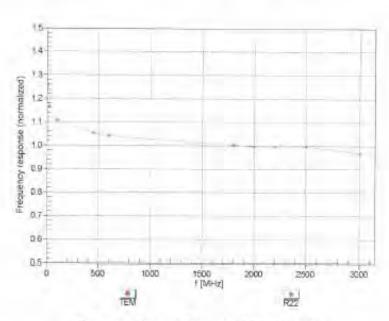
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EX30V4- SN 7348

September 2, 2015

Frequency Response of E-Field

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



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

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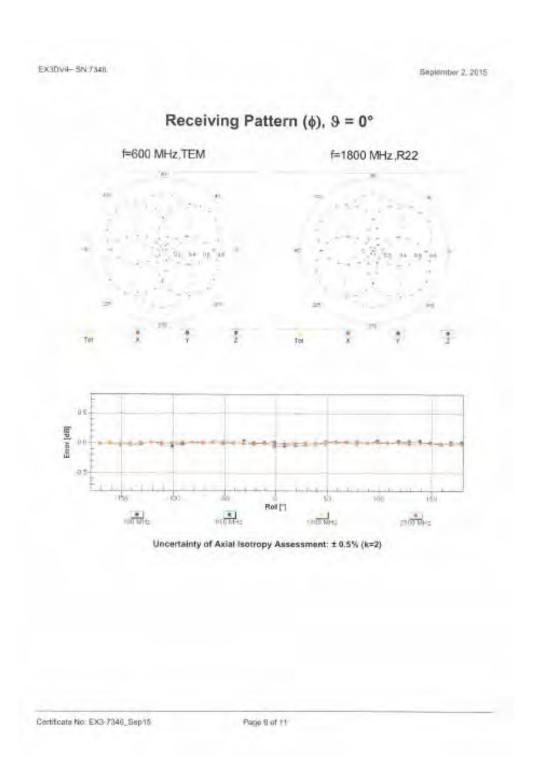
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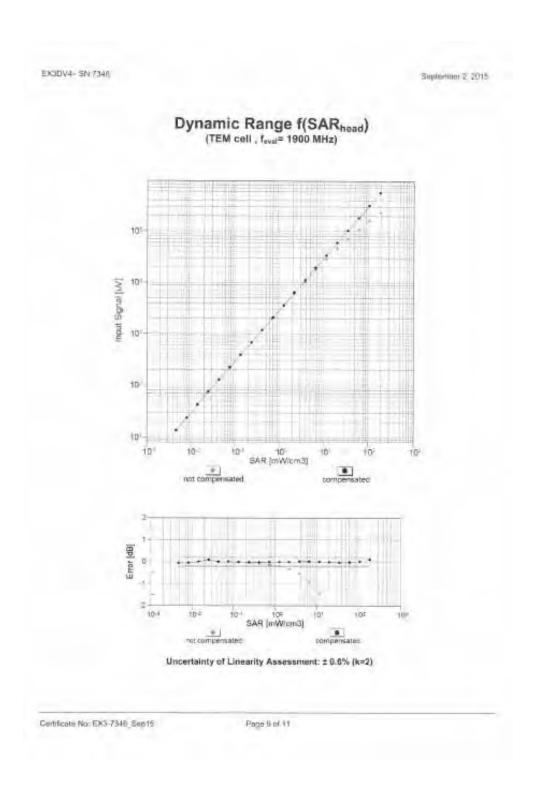
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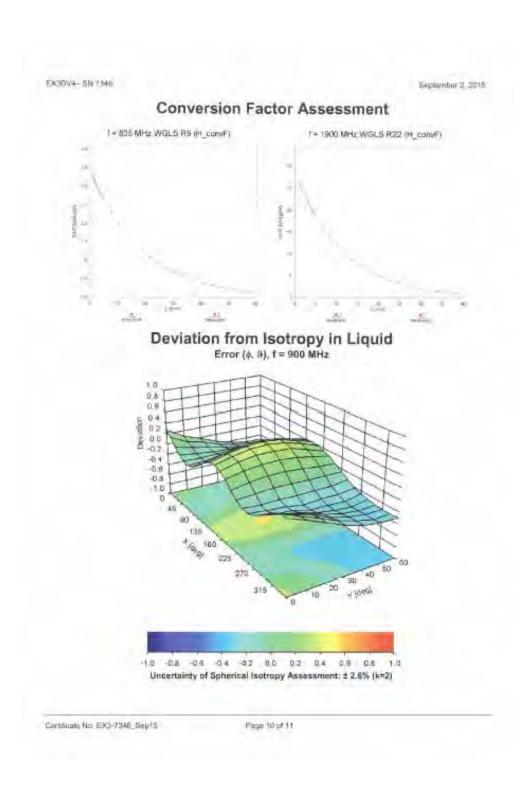
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EX3DV4-SN:7346

September 2, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Other Probe Parameters

Sensor Arrangement	Triangular		
Connector Angle (")	-1.3		
Mechanical Surface Detection Mode	enabled		
Optical Surface Detection Mode	disabled		
Probe Overall Length	337 mm		
Probe Body Diameter	10 mm		
Tip Length	9 mm		
Tip Diameter	2.5 mm		
Probe Tip to Sensor X Calibration Point	1 mm		
Probe Tip to Sensor Y Calibration Point	1 mm		
Probe Tip to Sensor Z Calibration Point	1 mm		
Recommended Measurement Distance from Surface	1.4 mm		

Certificate No: EX3-7346_Sep15

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Accreditions No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilatural Agreement for the recognition of calibration certificates

SGS-TW (Auden) Client

Detricato No. EX3-3770 Apr16

CALIBRATION CERTIFICATE

Olinct

EX3DV4 - SN:3770

(24/mison procedure)

DA CAL-01.VB, QA CAL-12.VB, DA GAL-14.WI, QA CAL-23.V5,

CA CAL-25.v6

Calibration procedure for dosimetro: E-field probes

Caldenna in these

April 27, 2016

This call brother certificate obcurrents the tracestricty to national standards, which remain the physical units of me The measurements and the uncestainnes with confidence procedulty are given on the following pages and are part of the continues

All customs have been conducted in the object intentiony facility: environment temperature (22 ±3) °C and humidity = 70%.

Coloration Espayment count (MRTE capail for carbonico)

Primary Standards	10	Gal Data (Certificate Na.)	Submitted Carbonism
Phwar mater NRP	SN: 104774	06-Ap-16 [No. 217-02(6):0280]	Apr-17
Power sensor NRP-Z91	5N-103244	05-Ap-10 (No 211-02286)	App-TT
Power sensor NRP-Z91	3N 103345	D6-Apr-14 (No. 217-02289)	Apr-17
Relevence 20 dB Attensator	BN S5277 (20x)	E5-Apr-16 (No 217/02293)	Apr-17
Relevance Prote E530V2	SN 3013	31-Dec-15 (No. EES-3015, Dec15)	Dep-16
DAE4	SN: 680	23-Dec-15 (No. DAE4-66) Dec15)	DMD-16
Secondary Standards	1D	Check Date (in Insuee)	Scheduled Check
Privat mater E41168	SN: G841293874	Q6-Apr-15 (No. 217-02285/07284)	In house street: Jun-16
Pawer sensor E4412A	5h; MY41496067	06-Apr-16 (No. 217-02285)	In house check: Jun-18.
Power sensor E4412A	5N 000110210	06-Apr-16 (No. 217-02284)	in house obers: Jun-16
RP generator HP 954%	3N US3642U51708	04-Aug-56 (in house pheck Apr-18)	In house check: Jun-15
Notwork Analyzer HP 8753E	SN: US17360585	19-Det-01 (in limite chick Oct-16)	In House check: Oct-16:

	Martin	Function	Spinio
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Approved by	Kam (Inserve	Tellical Manage	RR My
			Issued April 27, 2018

Certificate No. EX3-5770_Apr16

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Accreditation No.: SCS 0108

Accredited by the Swiss Apprehitation Service (SAS)

The Swiss Accreditation Service is one of the signato orien to the EA Multilatural Agreement for the recognition of calibration certificates

Glossary:

lissue simulating liquid TSL NORMX, y, z sensitivity in free space sensitivity in TSL / NORWx,y,z diode compression point Convi DCP

crest factor (1/duty_cycle) of the RF signal CF A.B.C.D modulation dependent linearization parameters

Palarization o is rotalion around probe sols

Polarization a a rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 ± 0 is from all to probe axis information used in DASY system to align probe sensor X to the robot coordinate system. Connector Angre

Calibration is Performed According to the Following Standards:

a) IEEE 5td 1528-2013, "IEEE Recommanded Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Continuations Devices; Measurement

Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

EC 62209-2, 'Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". Merch 2010 d) KDB 866864, SAR Measurement Requirements for 100 MHz to 6 GHz

Methods Applied and Interpretation of Parameters:

- NORMx, y, z. Assessed for E-field polarization $\theta = 0$ ($f \le 900$ MHz in TEM-cell; $f \ge 1900$ MHz: R22 waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not affect the E'-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response a included in the stated uncertainty of ConvF
- DCPx,v,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the skinst characteristics.
- Ax,y,z, Bx,y,z; Ox,y,z; Ox,y,z; VRx,y,z, A, B, C, D are rumerical Inearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters. Assessed in flat phantom using E-field (or Temperature Transfer Standard for I = 800 MHz) and inside waveguide using analytical field distributions based on power measurements for t > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alphs, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds: to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz
- Spherical isotropy (20 deviation from isotropy): in a field of low gradients realized using a flat alternions exposed by a patch antenna.
- Sensor Offset: The sensor affset corresponds to the offset of virtual measurement center from the probe tip. (on probe axis). No inferance required.
- Connector Angle: The angle is assessed using the information galited by determining the MORMX (no uncertainty required).

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EX3DV4 -- SN:3770

April 27, 2016

Probe EX3DV4

SN:3770

Manufactured: Calibrated: July 6, 2010 April 27, 2016

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV4-SN:3770 April 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.31	0.61	0.40	± 10.1 %
DCP (mV) ^{II}	100.4	97.4	102.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc [±] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	145.0	±2.2 %
		Y	0.0	0.0	1.0		148.7	
		Z	0.0	0.0	1.0		135.3	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A The uncertainties of Norm X,Y,Z do not affect the E¹-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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EX3DV4-SN:3770

April 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
450	43.5	0.87	11.36	11.36	11.36	0.18	1.20	± 13.3 %
750	41.9	0.89	9.83	9.83	9,83	0.41	0.88	± 12.0 %
835	41.5	0.90	9.47	9.47	9.47	0.14	1.48	± 12.0 %
900	41.5	0.97	9.17	9.17	9.17	0.15	1.78	± 12.0 %
1750	40.1	1.37	8.19	8.19	8.19	0.12	1.68	± 12.0 %
1900	40.0	1.40	7.88	7.88	7.88	0.12	1.77	± 12.0 %
2000	40.0	1.40	7.91	7.91	7.91	0.14	1.61	± 12.0 %
2300	39.5	1.67	7.47	7.47	7.47	0.13	2.08	± 12.0 %
2450	39.2	1.80	7.12	7.12	7.12	0.14	2.00	± 12.0 %
2600	39.0	1.96	6.95	6.95	6.95	0.21	1.26	± 12.0 %
5250	35.9	4.71	5.03	5.03	5.03	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.42	4.42	4.42	0.50	1.80	± 13.1 %
5750	35.4	5.22	4.83	4.83	4.83	0.50	1.80	± 13.1 %

⁰ Frequency validity above 309 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), also it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 123, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

*A frequencies below 3 GHz, the validity of tissue parameters (a and a) can be released to ± 10% if liquid comparation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (a and a) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

*Alpha/Depth are detarmined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies belowen 3-6 GHz at any distance larger than half the probe tip dismeter from the boundary.

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EX3DV4-- SN:3770

April 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity*	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ⁶ (mm)	Unc (k=2)
450	56.7	0.94	10.49	10.49	10.49	0.09	1.20	± 13.3 %
750	55.5	0.96	9.43	9.43	9.43	0.19	1.26	± 12.0 %
835	55.2	0.97	9.30	9.30	9.30	0.17	1.43	± 12.0 %
900	55.0	1.05	9.15	9.15	9.15	0.28	1.06	± 12.0 %
1750	53.4	1.49	7.88	7.88	7.88	0.10	2.60	± 12.0 %
1900	53.3	1.52	7.71	7.71	7.71	0.11	2.44	± 12.0 %
2000	53.3	1.52	7.82	7.82	7.82	0.18	1.42	± 12.0 %
2300	52.9	1.81	7.53	7.53	7.53	0.54	0.69	± 12.0 %
2450	52.7	1.95	7.37	7.37	7.37	0.80	0.56	± 12.0 %
2600	52.5	2.16	7.12	7.12	7.12	0.80	0.56	± 12.0 %
5250	48.9	5.36	4.34	4.34	4.34	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.70	3.70	3.70	0.60	1.90	± 13.1 %
5750	48.3	5.94	4.07	4.07	4.07	0.60	1.90	±13.1 %

Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), olse it is restricted to ± 50 MHz. The uncertainty is the RSS of the Corn/F uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 30 MHz is ± 10, 25, 40, 50 and 70 MHz for Corn/F assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

*At frequencies below 3 GHz, the validity of itssue parameters (s and o) can be released to ± 10% if liquid componention formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (s and o) is restricted to ± 5%. The uncertainty is the RSS of the Corn/F uncertainty for indicated target tissue parameters.

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

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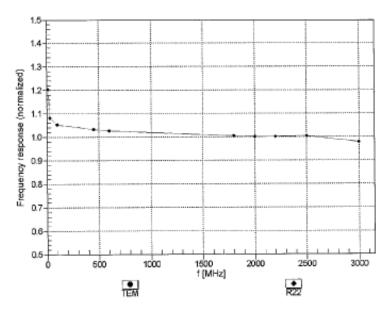
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April 27, 2016

Frequency Response of E-Field

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



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

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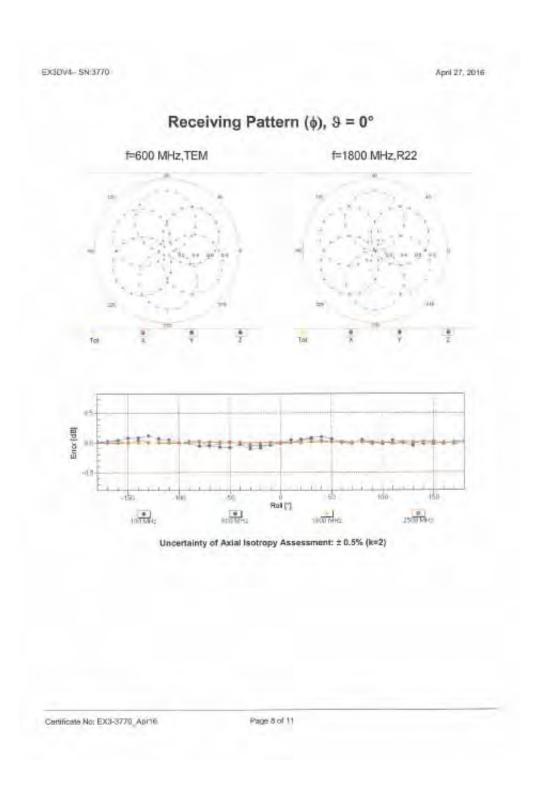
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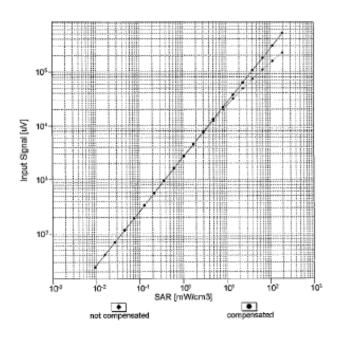
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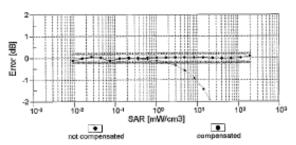


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Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





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

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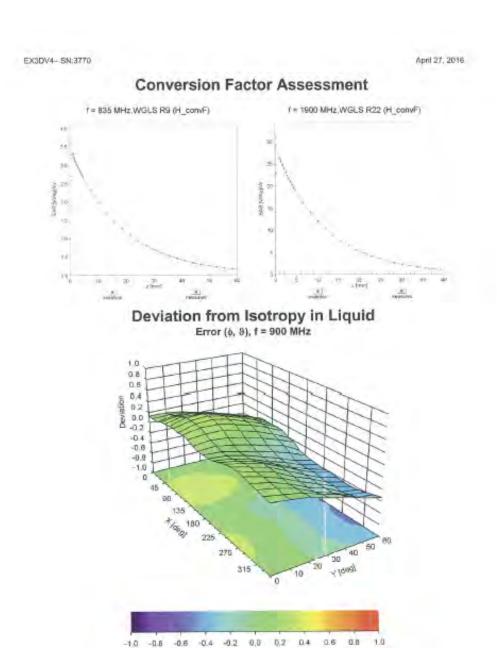
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Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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April 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-29.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm
Recommended Measurement Distance from Surface	1.4

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8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	œ
Modulation Response	2.40%	R	3	1.732	1	1	1.40%	1.40%	
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	œ
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	œ
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	90
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	×
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	4.74%	N	1	1	0.64	0.43	3.03%	2.04%	М
Liquid Conductivity (mea.)	4.60%	N	1	1	0.6	0.49	2.76%	2.25%	М
Combined standard uncertainty		RSS					12.41%	12.09%	
Expant uncertainty (95% confidence							24.83%	24.19%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	
Isotropy , Axial	3.50%	R	3	1.732	1	1	2.02%	2.02%	
Isotropy, Hemispherical	9.60%	R	3	1.732	1	1	5.54%	5.54%	
Modulation Response	2.40%	R	3	1.732	1	1	1.40%	1.40%	
Boundary Effect	1.00%	R	3	1.732	1	1	0.58%	0.58%	
Linearity	4.70%	R	3	1.732	1	1	2.71%	2.71%	
Detection Limits	1.00%	R	3	1.732	1	1	0.58%	0.58%	
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	
Response time	0.80%	R	3	1.732	1	1	0.46%	0.46%	
Integration Time	2.60%	R	3	1.732	1	1	1.50%	1.50%	
Measurement drift (class A evaluation)	1.75%	R	3	1.732	1	1	1.01%	1.01%	
RF ambient condition - noise	3.00%	R	3	1.732	1	1	1.73%	1.73%	
RF ambient conditions - reflections	3.00%	R	3	1.732	1	1	1.73%	1.73%	
Probe positioner Mechanical restrictions	0.40%	R	3	1.732	1	1	0.23%	0.23%	
Probe Positioning with respect to phantom	2.90%	R	3	1.732	1	1	1.67%	1.67%	
Post-processing	1.00%	R	3	1.732	1	1	0.58%	0.58%	
Max SAR Eval	1.00%	R	3	1.732	1	1	0.58%	0.58%	
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	3	1.732	1	1	2.89%	2.89%	
Phantom and Setup									
Phantom Uncertainty	4.00%	R	3	1.732	1	1	2.31%	2.31%	
Liquid permittivity (mea.)	4.02%	N	1	1	0.64	0.43	2.57%	1.73%	М
Liquid Conductivity (mea.)	4.85%	N	1	1	0.6	0.49	2.91%	2.38%	М
Combined standard uncertainty		RSS					12.06%	11.78%	
Expant uncertainty (95% confidence							24.12%	23.56%	

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9. Phantom Description



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10. System Validation from Original Equipment Supplier



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Calibration Laboratory of

Schmid & Partner
Engineering AG
January 12, 6204 Zurich, Switzerland





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Accrecitation No.: SCS 0108

According by the Dawn, Accordington Service (SAS)

The Swian Accorditation Service is one of the signatories to the EA Multitoteral Agreement for the recognition of calibration certificates

Glossary:

TSL lissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- i) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- iEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010.
- d) KDB 865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna leed point.
 No uncertainty required.
- SAR measured; SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for norminal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certicate No: 0750V3-1015, Aug to

Pager 2 to 6

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version DASY5		V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.15 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.33 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.3 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.52 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.44 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.63 W/kg ± 16.5 % (k=2)

Certificate No: D750V3-1015_Aug15

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52,2 Ω - 1.1]Ω
Return Loss	- 32.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.5 Ω - 2.4 jΩ
Return Loss	- 30.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.036 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 22, 2010

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DASY5 Validation Report for Head TSL

Date: 21.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.91 \text{ S/m}$; $\varepsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.44, 6.44, 6.44); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 53.39 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.35 W/kg

Maximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.43 W/kg = 3.86 dBW/kg

Certificate No: D750V3-1015_Aug15.

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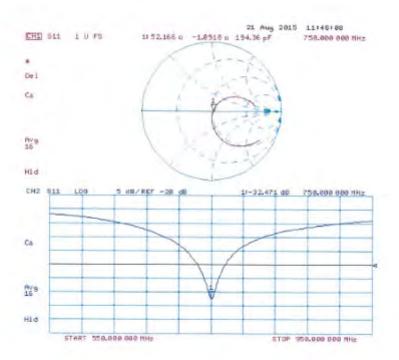
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 24.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 1 \text{ S/m}$; $\epsilon_s = 56.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

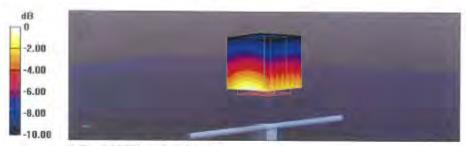
- Probe: ES3DV3 SN3205; ConvF(6.21, 6.21, 6.21); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 52.22 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.44 W/kgMaximum value of SAR (measured) = 2.56 W/kg



0 dB = 2.56 W/kg = 4.08 dBW/kg

Certificate No: D750V3-1015_Aug15

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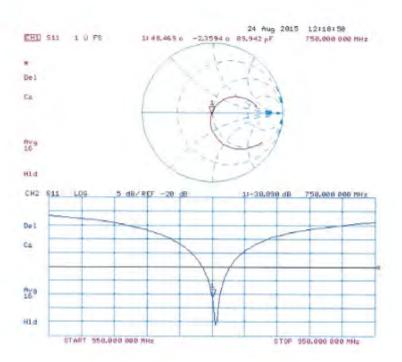
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Impedance Measurement Plot for Body TSL



Certificate No: D750V3-1015_Aug15

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SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: D750V3-1015 Aug16

CALIBRATION CERTIFICATE D750V3 - SN: 1015 Calibration procedure(s) QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz Calibration date: August 30, 2016 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Car Date (Certificate No.) Scheduled Calibration SN: 104778 05-Apr-15 (No. 217-02288/02289) Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02289) Apr-17 Power sensor NRP-Z91 SN: 109245 06-Apr-16 (No. 217-02289) Apr-17 Reference 20 dB Attenuator SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 SN: 5047.2 / 06327 Apr-17 05-Apr-15 (No. 217-02295) Type-N mismatch combination SN: 7949 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 Reference Probe EX3DV4 DAE4 SN: 601 30-Dec-15 (No. DAE4-501_Dec15) Dec-16 Scheduled Check Secondary Standards Check Date (in house) SN: GB37480704 07-Oct-15 (No. 217-02222) In house check: Oct-16 Power meter EPM-442A Power sensor HP 8481A SN: US37292783 07-Odl-15 (No. 217-U2822) In house check: Oct-15 SN: MY41092317 In house check: Oct-16 Power sensor HP 8481A 07-Oct-15 (No. 217-02223) RF generator R&S SMT-06 SN: 100972 15-Jun-15 (in house check Jun-15) in house check: Oct-16 SN: US37300585 18-Oct-01 (in house check Cct-15) In house check: Oct-16 Network Analyzer HP 8753E Function Naime Michael Weber Laboratory Technician Calibrated by: Karja Pokovic **Technical Manager** Approved by: Issued, August 30, 2016 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: D750V3-1015 Aug16

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134號

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





S Schweizeracher Kalibrierdienst
C Service sulsae d'élalonnage
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S Swiez Calibration Service

Accreditation No.: SCS 0108

Acception by the Swise Acceptation Service (SAS)
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Multilatoral Agreement for the recognition of collibration curtificates

Glossary:

TSL tissue simulating liquid.
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

 EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2005

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay; One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of TW at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mha/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.91 mho/m ± 8 %
Head TSL temperature change during test	<0.5°C	0.000	min.

SAR result with Head TSL

SAR everaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.32 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	250 mW Input power	1.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.45 W/kg ± 16.5 % (k=2)

Body TSL parameters

ng parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.9 ± 6 %	0.99 mhq/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	pres:	-

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.77 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1,47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5,76 W/kg ± 16,5 % (k=2)

Confficate No: D750V3-1015_Aug15

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to leed point	53.1 Ω = 0.2 μΩ	
Return Loss	-30.5 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	49.0 Ω − 2,8 j£l
Return Loss	- 30.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1,037 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-directled for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 22, 2010

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DASY5 Validation Report for Head TSL

Date: 30.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $\Gamma = 750$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

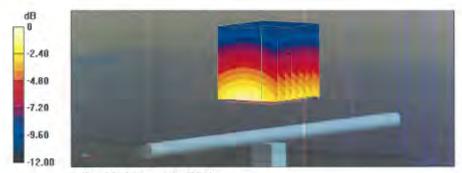
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 58.26 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.16 W/kg SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.38 W/kgMaximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

Certificate No: D750V3-1015_Aug16 Page 5 of 8

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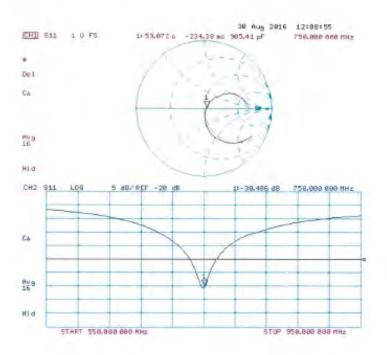
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 30.08,2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.99$ S/m; $\epsilon_e = 54.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9,99, 9.99, 9.99); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 57.47 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3,39 W/kg

SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.47 W/kg

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

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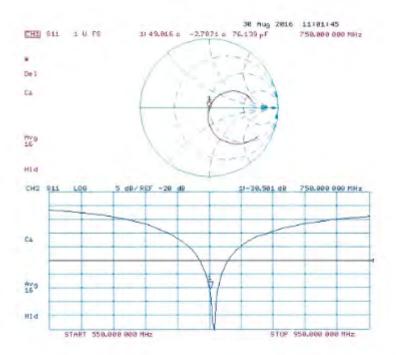
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Impedance Measurement Plot for Body TSL



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





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swits Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

CALIBRATION	CERTIFICATE		
Object	D835V2 - SN: 4d	063	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits abo	ove 700 MHz
Calibration date:	August 24, 2015		
IN HEADER STITUTES WIN THE OIL	Manual Manual Manual No. B.	robability are given on the following pages an	to me both of a to definitione.
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All cultivations have been condi- calibration Equipment used (MV Inmary Standards Power meter EPM-442A Nover sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator type-N mismatch combination reference Probe ES3DV3 DAE4	Ucted in the closed laboration STE critical for cellbration 1 ID # 0897480704 US37292783 MY41092317 SN: 5058 (20%) SN: 5047.2 / 06927 SN: 3205 SN: 601	V locitly, environment temperature (22 ± 3)*1 Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Occ-14 (No. ES2-3205, Occ-14) 117-Aug-15 (No. OAE4-601, Aug 13)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dac-15 Aug-18
Miliculturations have been condi- 2Milicration Equipment used (Mil- Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator ryse-N mismatch combination reference Probe ESSDV3 DAE4 Secondary Standards RE generation R&S SMT-06	Ucted in the closed laboration ID # ID # ID 827480704 US37292783 MY41092317 SN: 5068 (20s) SN: 9047.2 / 06927 SN: 305 SN: 901	V locitly, environment temperature (22 ± 3)*1 Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02031) 01-Apr-15 (No. 217-02031) 01-Apr-15 (No. ES2-3205, Ore14) 17-Aug-15 (No. DAE4-601, Aug15) Check Date (in house)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-16 Scheduled Check
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	ucted in the closed laboration ID # 0887480704 US37292783 MY41082317 SN: 5058 [20] SN: 504727 (6827 SN: 5055 SN: 601 ID # 100605 US37390585 \$4306	V lacitly, environment temperature (22 ± 3)*1 Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02031) 01-App-15 (No. 217-02131) 01-App-15 (No. 217-02131) 10-App-15 (No. DAE4-001 Aug 15) Check Date (in house) 04-Aug-89 (in house check Oct-13) 16-Oct-01 (in house check Oct-14)	Scheduled Celtoration Oct-15 Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Mar-16 Scheduled Check In house check Oct-16 In house check Oct-15

Certificate No: D835V2-4d063_Aug15

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausetrasse 43, 8004 Zunich, Switzerland





S Schweizerlsehe Kalibrierden Gerylde suisse d'étalomage Sarvicie svizzere di taratura S Swiss Calibration Service

Accordination No.: SCS 0108

According by the Swim Accordinators Service (SAS)

The Swiss Accreditation Service is one of the aignatories to the EA. Millillateral Agreement for the recognition of calification certification

Glossary:

TSL tlesue simulating liquid
ConvF sensitivity in TSL / NORM x.y.z.
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- ib) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- EC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", Merch 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions; Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Contribate No. DB35V2-4d863 Aug 15

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.9 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.11 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.52 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.97 W/kg ± 16.5 % (k=2)

Body TSL parameters

nd calculations were andied

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.1 ± 6 %	1.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.40 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.28 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.57 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.11 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.3 Ω - 1.7 μΩ
Return Loss	- 33.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.9 Ω - 2.7 jΩ	
Return Loss	- 29.1 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.394 ns
	7100 1110

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the clipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 27, 2006

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DASY5 Validation Report for Head TSL

Date: 21.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\varepsilon_r = 41.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.2, 6.2, 6.2); Calibrated: 30.12.2014;
- · Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17,08,2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.92 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3,44 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.52 W/kgMaximum value of SAR (measured) = 2.73 W/kg

dB B -2.15 4.31 6.46

0 dB = 2.73 W/kg = 4.36 dBW/kg

Certificate No: D635V2-4d063_Aug15

-8.62 10.77

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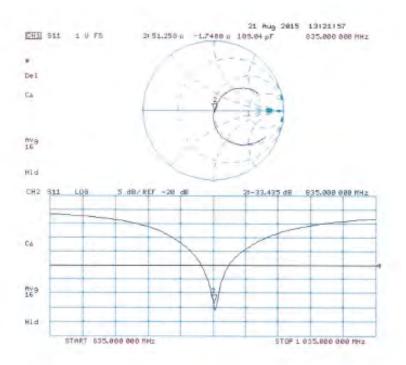
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 24.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.02 \text{ S/m}$; $\varepsilon_c = 56.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

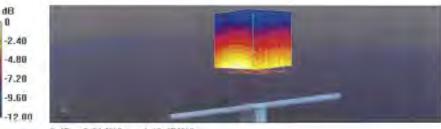
DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.17, 6.17, 6.17); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L.; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54.07 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kgMaximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

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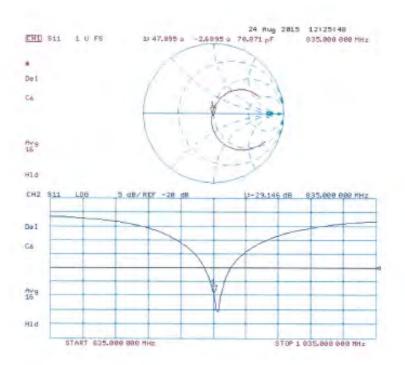
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Impedance Measurement Plot for Body TSL



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





S Schwelzerischer Kallbrierdienst
C Service suisse d'étalonnage
Servicio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swas Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of celebration certificates

Client SGS-TW (Auden)

Certificate No: D835V2-4d063 Aug16

CALIBRATION CERTIFICATE

D835V2 - SN:4d063

Calibration procedulwisi DA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: August 25, 2016

This commism coefficiate occurrents the uncombility to reticon attributed, which reside the physical units of measurements (SI). The measurements and the uncontamines with contractor propability are given on the following pages and the past of the certilisation.

An calibrarious have been concurred in the closed laboratory facility: environment temperature (22 ± 3°C and humidity < 70%.

Calibration Equipment used (MXTE critical for calibration)

Primary Standards	ED W	Cal Distri (Certificate No.)	Scheduled Calibration
Power meter NRP	SAL 104778	06-Apr-15 (No. 217-02288/32289)	Apr-17
Power seraor NRP-Z91	SN: 100244	06-Apr-18 (No. 217-02288)	Apr-17
Power sonsor NAP-Zot	SN: 103245	05-Apr-16 (No. 217-02289)	April
Helerence 20 cfl) Alterwiyks	SN: 5058 (20k).	05-Apr-16 (No. 217-02292)	April 7
Type-N mismatch combination	SN: 5047.2 / 06327	05 Apr-16 (No. 217-02286)	Apr-17
Reference Probe EX3DV4	SN: 7340	15-Jun-76 (No. EX3-7349 Junt9)	Jun-17
DAE4	SN: 601	20 Dec-15 (No DAE4-601_Dec15)	Dec-16
Seconnery Standards	(ID-W	Check Date (in house)	Scheduled Check
Power meter EPM-H42A	BN: GB37488704	07-Det-15 (No. 217-02222)	In house check: Dot-10
Power sensor HP BARTA	BN US377977B1	UT-Qtf-15 (No. 217-02222)	in house check: Ord-16
Power sensor HP 8481A	BN: NEV41092317	07-Oct-16 (No. 217-02223)	In house check: Cici-16
BF generator RAS SMT-06	SN 100972	15-Jun-15 (In house check Jun-15)	In house check: Out-16
Network Analyzer HIP 6753E	SN US37890666	18-Det-01 (in house check Oct-15)	in house check Oct-15
	Mane	Function	Structure

Calibrated by Microsof Weber Lacronstony Technician

Approved by! Kerja Pickowic Technical Manager

Neues: August 29, 2015

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Certificate No: D805V2-4d083_Aug16

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Page: 382 of 479

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich. Switzerland





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Accreditation No.: SCS 0108

Accredited by live Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates.

Glossary:

TSL tissue simulating liquid

sensitivity in TSL / NORM x,y,z ConvE N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL. The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters; The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%

Certificate No: DB35V2-4c063_Aug16

Page 2 to 8

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No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134號



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Measurement Conditions

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Fraquency	835 MH2 ± 1 MH2	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	≥ 0.5 °C		_

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2,40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.40 W/kg ± 17.0 % (k=2)

SAR everaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.54 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.05 W/kg ± 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.7 ± 6 %	1,01 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	****	0 ***

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.57 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.51 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.28 W/kg ± 16.5 % (k=2)

Certificate No: DB35V2-4d063_Aug16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.2 Ω = 2.8 JΩ	
Return Loss	-30.3 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.3 Ω - 5.5 jΩ	
Return Loss	+24.0 dB	

General Antenna Parameters and Design

T	
Electrical Delay (one direction)	1.392 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small and caps are added to the cipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Minufactured on	November 27, 2006

Certificate No: D836V2-4d063_Aug16

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DASY5 Validation Report for Head TSL

Date: 25.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\varepsilon_i = 42.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

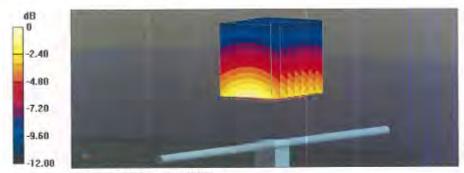
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.72, 9.72, 9.72); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 61.75 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.65 W/kg SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.54 W/kgMaximum value of SAR (measured) = 3.24 W/kg



0 dB = 3.24 W/kg = 5.11 dBW/kg

Certificate No: D835V2-4d063_Aug16

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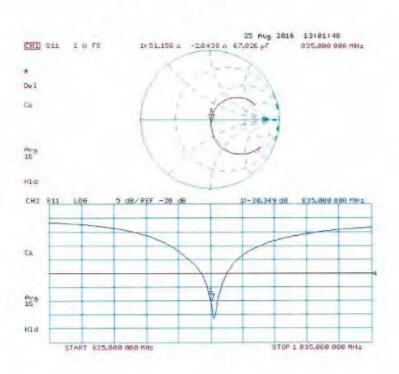
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Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d063_Aug16

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DASY5 Validation Report for Body TSL

Date: 25.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.01$ S/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

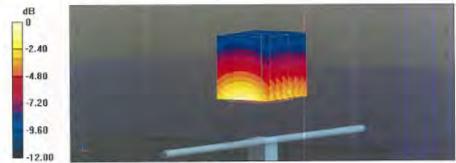
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.73, 9.73, 9.73); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: OD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 59.83 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 3.63 W/kg SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.61 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.61 W/kgMaximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

Certificate No: D835V2-4d063_Aug16

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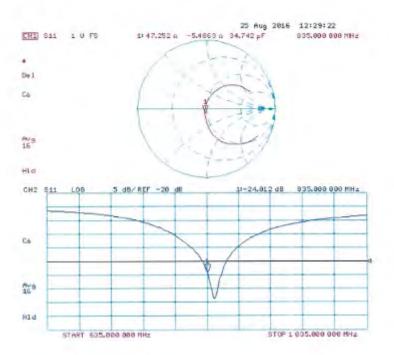
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Impedance Measurement Plot for Body TSL



Certificate No: D835V2-4d063_Aug16

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Page: 389 of 479

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





Schweizenacher Kallenerdienst Service suitae d'étalonnage Bernizio sylzzero di taratura Swias Calibration Service

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The Swiss Accreditation Service is one of the signaturies to the EA
Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Accessitation No. SCS 0108

Certificate No: D1750V2-1008_Aug15

CALIBRATION CERTIFICATE

Doylet

D1750V2 - SN: 1008

Calibration proceedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Carbration date:

August 20, 2015

This calibration performs occurrents the insceability in resonar standards, which males the physical units of regovernments (61). The inseatmentation and the uncertainties with confidence probability are given on the following pages and are pain of the confidence.

As calibrations have been constuded in the closed laboratory facility, environment temperature (22 ± 37°C and harmstry = 70%.

Calibration Equipment word (MATE critical for calibration)

Primary Starytains	10 1	Cqi Date (Curtificate No.)	Scheduled Calibration
Power meter EPM-452A	GE037480704	07-Oct-14 (No. 217-00020)	Dot-16
Power sensor HP 9481A	US37292780	EF-Dat-14 (No. 217-02020)	Citat-15
Power sensor HP 8481A	MY41082317	07-Oct-14 (No. 217-06001)	Oct.45
Fletermore 20 dB Attenuator	SN 5058 (20k)	D1 Apr-15 (No. 217-02131)	Mar-18
Type-N mismatch combination	SN 5047 2 / 06327	01-Apr-15 (No. 217-02134)	Mar-16
Reterence Probe ES35V5	5N: 3205	35-Dec 14 (No. E53-3205_Dec (a)	Dec-15
DAE4	5N 601	17-Aug-15 (No. DA54-601_Aug15)	Aug-16
Secondary Standards	10.4	Check Date (in house)	Scheduled Check
RF generator R&S SMT 68	100006	94 Aug-95 (in Youne preck Oct+13)	III (name uteaty, Out-18
Network Analyzer HP 8758E	US37390585 S4806	18-Dct-01 (is noise check Oct-14)	In house check, Clet-15

Calibrated by: Monael Webler

Appened by:

Laboratory Technician

Technical Manager

R. M.

Impact: August 21, 2015

Cistificate No; D1750V2-1006_Aug15

Page 1 of B

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Schmid & Partner Engineering AG stracap 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accresion by the Saiss Accresionary Service (BAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL lissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless. Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2005
- d) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010
- d) KDB 865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms priented parallel to the body axis.
- Feed Point Impedance and Relum Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required
- Electrical Delay. One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate Ne D1750V2-1008, Aug 15

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.8 ± 6 %	1.36 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.85 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.4 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.1 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.36 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.4 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.2 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.5 Ω + 1.1 jΩ
Return Loss	- 38.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.9 Ω + 1.0 jΩ
Return Loss	- 29.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1,221 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 11, 2009

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DASY5 Validation Report for Head TSL

Date: 20.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: I = 1750 MHz; $\sigma = 1.36$ S/m; $\varepsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63,19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(5.2, 5.2, 5.2); Calibrated: 30.12.2014;

Sensor-Surface: 3mm (Mechanical Surface Detection).

Electronics: DAE4 Sn601; Calibrated: 17.08.2015

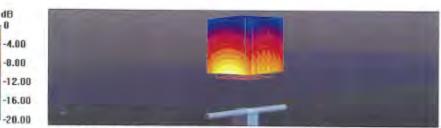
Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 95.15 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.85 W/kgMaximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

Certificate No: D1750V2-1008_Aug15

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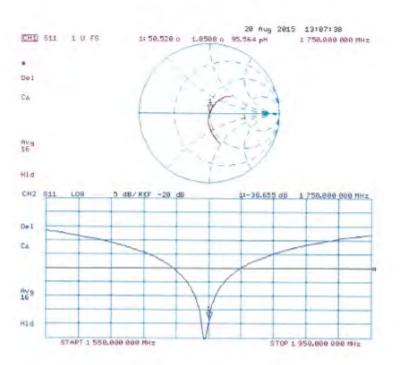
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 20.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.48$ S/m; $\epsilon_s = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

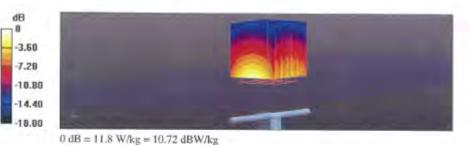
- Probe: ES3DV3 SN3205; ConvF(4.88, 4.88, 4.88); Calibrated: 30.12,2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 93.12 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 9.36 W/kg; SAR(10 g) = 5.05 W/kgMaximum value of SAR (measured) = 11.8 W/kg



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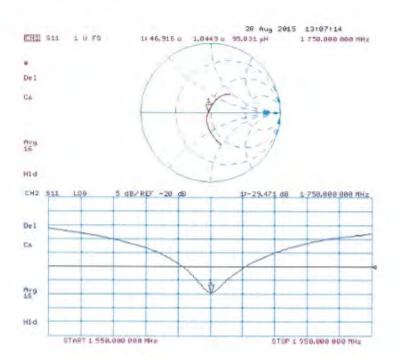
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Impedance Measurement Plot for Body TSL



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





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SGS-TW (Auden)

Accreditation No.: SCS 0108

No. No. D1750V2-1008 Aug16

Object	D1750V2 - SN:10	9008	
Calibration procedure(s)	QA CAL-05.v9		700 MHz
	Calibration proce	dure for dipole validation kits abo	ove 700 MHz
Calibration date:	August 31, 2016		
This celibration certificate docum	ents the traceability to nat	ional standards, which realize the physical un	its of measurements (SI).
	Control of the contro	robability are given on the following pages an	
All calibrations have been condu	cled in the closed laborato	ry facility: environment temperature (22 \pm 3) $^\circ$	C and humidity < 70%
Calibration Equipment used (M&	TE critical for catibration)		
rimary Standards	ID #	Cal Date (Contilicate No.)	Scheduled Calibration
ower meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
ower sensor NRP-Z91	SN: 104778 SN: 103244	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288)	Apr-17 Apr-17
lower meter NRP lower sensor NRP-Z91 lower sensor NRP-Z91	SN: 104778 SN: 103244 SN: 103245	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289)	Apr-17 Apr-17 Apr-17
Power meter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuation	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k)	06 Apr.16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-0228)	Apr-17 Apr-17 Apr-17 Apr-17
Power meter NRP Cower sensor NRP-Z91 Cower sensor NRP-Z91 Reference 20 dB Attenuation Type-N mismatch combination	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327	06 Apr.16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02295)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17
Power meter NRP Power sensor NRP-791 Power sensor NRP-791 Power sensor NRP-791 Perforence 20 dB Attenuation if you'll misurance combination Reference Probe EX30V4	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k)	06 Apr.16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-0228)	Apr-17 Apr-17 Apr-17 Apr-17
Power meter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Amenuator Reference Probe EX3DV4 DAE4	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7348_Apr16)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Peference 20 dB Attenuation Rype-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 106327 SN: 7349 SN: 601	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02289) 05 Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7348_Jun-16) 30-Dec-15 (No. DAE4-601_Dec16)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check
Power meter NRP Power sensor NRP-Z91 Power meter Probe EX3DV4 AAE4 Power meter EPM-442A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 10327 SN: 7349 SN: 601	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7348_Apr16) 30-Dec-15 (No. DAEA-801_Dec16) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In nouse check: Oct-16
Power meter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuation Type-N misuranch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06 Apr-16 (No. 217-02288/02289) 06 Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02289) 05 Apr-16 (No. 217-02289) 05 Apr-16 (No. 217-02285) 15-Jun-16 (No. EX3-7349_Apr16) 30-Dec-15 (No. DAE4-801_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power mater NRP Power sensor NRP-Z91 Power mater Power LP 8481A Power sensor HP 8481A Power sensor HP 8481A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601 ID 4 SN: GB37480704 SN: US37262783 SN: MY41092317 SN: 100972	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02288) 05 Apr-16 (No. 217-02282) 05-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7348_Jun-16) 30-Dec-15 (No. DAE-4-801_Dec-16) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
Power meter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Azenuaror Type-N mississich combination Reference Probe EX30V4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Propersions	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06 Apr-16 (No. 217-02288/02289) 06 Apr-16 (No. 217-02288) 06 Apr-16 (No. 217-02289) 05 Apr-16 (No. 217-02289) 05 Apr-16 (No. 217-02285) 15-Jun-16 (No. EX3-7349_Apr16) 30-Dec-15 (No. DAE4-801_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Amenuator Type-N mismanch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator RSS SMT-06 Network Analyzer HP 8753E	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5058 (20k) SN: 7549 SN: 601 ID # SN: GB37480704 SN: US37252783 SN: MY41092317 SN: 100972 SN: US37390585 Name	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02285) 15-Jun-16 (No. EX3-7348_Aun16) 30-Dec-15 (No. DAEA-801_Dec16) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 16-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
Power meter NRP-791 Power sensor NRP-791 Power sensor NRP-791 Power sensor NRP-791 Reference 20 dB Antenuator Type-N mismanch combination Reference Probe EX30V4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5058 (20k) SN: 5047 2 / 106327 SN: 7349 SN: 601	06 Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02282) 06-Apr-16 (No. 217-02282) 15-Jun-16 (No. EX3-7348_Jun16) 30-Dec-15 (No. DAEA-Su1_Dec16) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16

Certificate No: D1750V2-1008_Aug16

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





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Accreditation No.: SCS 0108

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Multimeral Agreement for the recognition of calibration certificates

Glossary:

TSL fissue simulating fiquid

ConvF sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured.

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- EC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865654, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL. The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- . SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of TW at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: 01750V2-1008_Aug16

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.6.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.3 ± 6 %	1.37 mhp/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	37.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.6 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22,0 °C	53,4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.1 ± 6 %	1.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	****	· ·

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.34 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.98 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.9 W/kg ± 16.5 % (k=2)

Certificate No: D1750V2-1008_Aug16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance; transformed to feed point	51.0 \(\O = 0.2 \) \(\O = 0.2 \)
Return Loss	-40,1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.7 Ω - 0.5 jΩ
Return Loss	-29.3 dB

General Antenna Parameters and Design

- 1	Electrical Dalais (and diseases)	4 000
ı,	Electrical Delay (one direction)	1.221 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made at standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the cipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	May 27, 2003

Certificate No: D1750V2-1008_Aug16

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DASY5 Validation Report for Head TSL

Date: 24.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.37 \text{ S/m}$; $\varepsilon_c = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

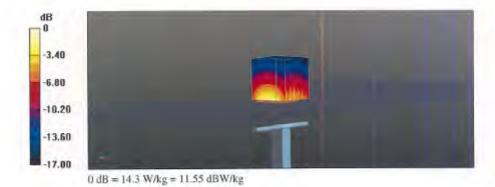
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConyF(8.46, 8.46, 8.46); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 105.8 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.9 W/kgMaximum value of SAR (measured) = 14.3 W/kg



Certificate No: D1750V2-1008_Aug16

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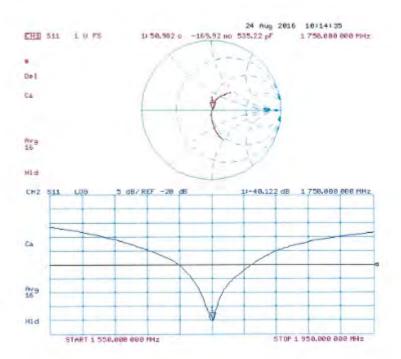
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 31.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.49 \text{ S/m}$; $\varepsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

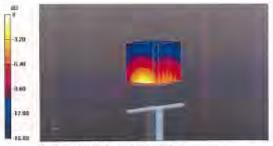
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.25, 8.25, 8.25); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 100.8 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 16.4 W/kg SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg

Certificate No: D1750V2-1008_Aug16

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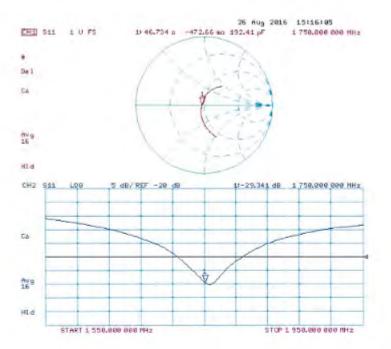
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Impedance Measurement Plot for Body TSL



Certificate No: D1750V2-1008_Aug16

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





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Client SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: D1900V2-5d027 Apr 16

CALIBRATION CERTIFICATE D1900V2 - SN: 5d027 OA CAL-05.V9 Calibration procedure(s) Calibration procedure for dipole validation kits above 700 MHz Calibration date: April 25, 2016 This contention curtificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with comidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) ID# Cal Date (Certificate No.) Scheduled Calibration Primary Standards 5N: 104778 06-Apr-16 (No. 217-02288/02289) Power meter NRP April 7 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Power sensor NRP-Z91 SN: 103245 05-Apr-16 (No. 217-02289) Apr-17 Reference 20 dB Attenuator 5N: 5058 (20k) 85-Apr-16 (No. 217-02292) Apr-17 Type-N mismaich combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02295) Apr-17 31-Dec-15 (No. EX3-7349, Dec15) Dec-16 Reference Probe EX3DV4 SN: 7349 Dec-16 DAE4 SN: 601 30-Dec-15 (No. DAE4-601, Dec15). Scheduled Check De Check Date (In house) Secondary Standards Power meter EPM-442A SN: GB37480704 07-Oct-15 (No. 217-02222) in house check: Oct-16 Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 2)7-02222 in house check: Oct-16 Power sensor HP 8481A SN: MY41092317 07-Oct-15 (No. 217-02223) In house check: Oct-18. RF generalor R&S SMT-06 SN: 100972 15-Jun-15 (in house check Jun-15) In nouse check Oct-16 Network Analyzer HP 8753E SN: US37390685 16-Oct-01 (in house check Oct-15) in house check: Did-16 Name Eurotion Calibrated by: Michael Webec Laboratory Technician Kalja Povovic Tachnical Manager Approved by: Issued: April 26, 2016 This cationation certificate shall not be reproduced except in full without writtin approval of the laboratory

Certificate No: D1900V2-5d027_Apr16

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Accreditation No.: SCS 0108

Accrecited by the Sweet Accreditation Service (SAS)

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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) In the Human Head from Wireless Communications Devices: Measurement Techniques', June 2013

b) IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2005

 c) 1EC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

a) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed. point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feeld Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid tilled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Gertificate No: D1900V2-5d027_Aprilifi

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.0 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	38.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.3 W/kg ± 16.5 % (k=2)

Body TSL parameters

ng parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.9 ± 6 %	1.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.83 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.21 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.0 W/kg ± 16.5 % (k=2)

Certificate No: D1900V2-5d027_Apr16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.8 Ω + 4.4 jΩ
Return Loss	- 27.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.5 Ω + 5.6 jΩ
Return Loss	- 23.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.196 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 17, 2002

Certificate No: D1900V2-5d027_Apr16

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DASY5 Validation Report for Head TSL

Date: 25.04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.37 \text{ S/m}$; $\varepsilon_c = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.2, 8.2, 8.2); Calibrated: 31.12,2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type; QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.9 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 5.03 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

Certificate No: D1900V2-5d027_Apr16

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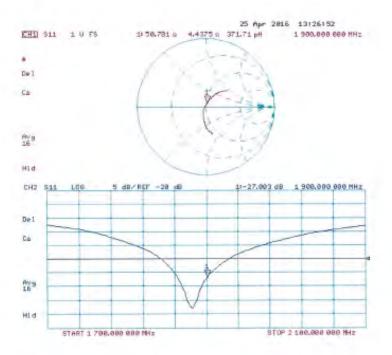
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Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d027_Apr16

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DASY5 Validation Report for Body TSL

Date: 25.04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ S/m; $\varepsilon_c = 52.9$; $\rho = 1000$ kg/m⁵

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.03, 8.03, 8.03); Calibrated; 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372).

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 104.2 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.83 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

Certificate No: D1900V2-5d027_Apr16

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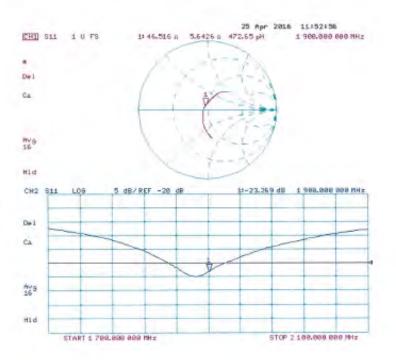
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Impedance Measurement Plot for Body TSL



Certificate No: D1900V2-5d027_Apr16

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SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: D2300V2-1023_Aug15

CALIBRATION CERTIFICATE Object D2300V2 - SN:1023 Celtination producture(s) QA CAL-05.V9 Calibration procedure for dipole validation kits above 700 MHz August 19, 2015 Calmanon date This cuitballion certificate documents the traceutably to national standards, which realize the physical units of measurements (SI) The measurements and the incestainties with confidence probability are given on the tollowing pages and are part of the certificate. At calibrations have been conducted in the closed laburatory facility: environment temperature (22 ± 3) C and humbity < 70%. Calibration Equipment used (M&TE critical for cultivation) ID-# Primary Standards Call Date (Certificate No.) Schooling Calibrati Power mater EPM-442A GB37450701 97-Oct/14 (No. 217-02020) D05-15 Power sanger HP 8481A LISE7/292782 07-Oct-14 (No. 217-03020) Dct-15 Power sensor HP IMETA MY41092317 07-Oct-14 (No. 217-02021) Det-15 Raisrence 20 del Alternator SN: 5058 (20k) 61 Apr-15 (No. 217-02131) May-10 Type N mismatch combination SN 5047.2 | D6307 01-Apr-15 (No. 217-02134) Mar-16 Rethrence Probe ES3DV3 524: 3205 30-Dec-14 (No. ES3-3205 Der/14) Dec-15 DAE4 SN: 601 17-Aug-15 (No DAEL-601_Aug15) Aug-76 Secondary Standards Check Dista (in house) Scheduled Check RF generator R&S SMT 05 100005 04-Aug-99 (in house clack Out-17) IN TERRAP LEWER: Oct-15 Network Analyzes HP STELLS US379/05/15 I/4206 18-Oct-01 for bosons clinick Oct-14) In house ofeck: Oct-15 Function Signature Calibrated by: Jeton Kastrati Lisboratory Technician Approved by Katje Pokovic Technical Manager issued: August 21, 2015. This collibration certificate shall not be reproduced except in full without written approval of the laboratory

Curtificate No: D2000V2-1023_Aug15

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Glossary:

TSL tissue simulating liquid
ConvF sensitivity In TSL / NORM k,y,2
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices. Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)"; February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30, MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss, These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power, No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Circle on 12309V2-1023 Aug 15

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2300 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.5	1.67 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.7 ± 6 %	1.71 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	49.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.0 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.9	1.81 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.6 ± 6 %	1.83 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	48.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.87 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.5 W/kg ± 16.5 % (k=2)

Certificate No: D2300V2-1023_Aug15

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.9 Ω - 1.3 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.0 Ω - 0.6 jΩ
Return Loss	- 25.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.171 ns	

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 30, 2009

Page 4 of 8 Certificate No: D2300V2-1023_Aug15

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DASY5 Validation Report for Head TSL

Date: 19.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.71 \text{ S/m}$; $\varepsilon_c = 39.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.75, 4.75, 4.75); Calibrated: 30.12.2014;

· Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 17.08.2015

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 101.5 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 6.03 W/kgMaximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

Certificate No: D2300V2-1023_Aug15

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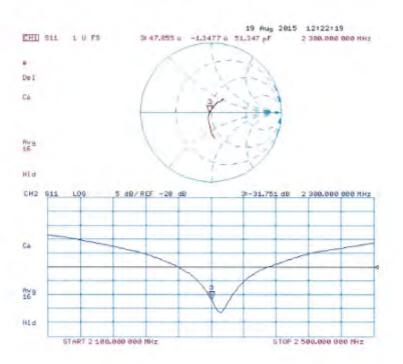
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Impedance Measurement Plot for Head TSL



Certificate No: D2300V2-1023_Aug15

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DASY5 Validation Report for Body TSL

Date: 19.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: $\Gamma = 2300 \text{ MHz}$; $\sigma = 1.83 \text{ S/m}$; $\varepsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.44, 4.44, 4.44); Calibrated: 30.12.2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 17.08.2015

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 96.46 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 23.2 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.87 W/kgMaximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

Certificate No: D2300V2-1023_Aug15

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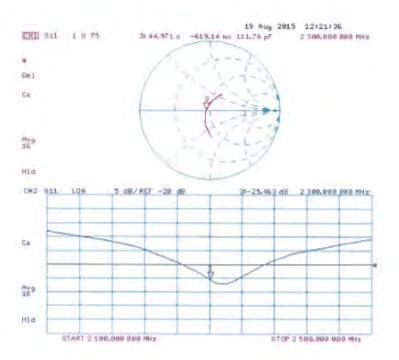
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Impedance Measurement Plot for Body TSL



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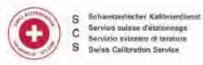
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Calibration Laboratory of Schmid & Partner Engineering AG

ausstrance 43, 8004 Zurich. Switzerland



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SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate Not D2300V2-1023 Aug16

CALIBRATION CERTIFICATE

D2300V2 - SN:1023

Calibration procedure(s)

OA CAL-05.V9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date:

August 26, 2016

This callestation certificate occurrents the hecologisty to national standards, which restize the physical stress coments (SI). The measurements and the uncertainties with confidence probability are given an the following pages and are part of the certificate

At saltimons have been conducted in the copied laboratory testify: environment emperature (25 ± 3)°C and humbly < 70%.

Castraces Equipment used (M&TE oritical for calibration)

Primary Shodurda	ID V	Cal Date (Certificate No.)	Selvidued Calibration
Power meter MRP	SN: 104778	(6-Apr-15 (No. 217-0228902289)	A0F17
Power sensor NRP-Z31	SN: 103244	Ge-Apr-16 (No. 217-02266)	Apr-17
Power sensor NRP-201	5N: 100245	06-Apr-15 (No. 217-02286)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-15 (No. 217-02292)	Acr-17
Type N mismatch combination	SN: 5047,2 / DE327	05-April 8 (No. 217-02295)	Apr-17
Reference Probe EX30V4	SN: 7349	15-Jun-16 (No. EX3-7349, Jun 10)	July 17
DAE4	SN: 001	30-Dec-16 (No. DAE4-601_Dec15)	Elec-16
Secondary Standards	ID II	Oheck Date (in house)	Schadulad Chica
Power meter EFNI-042A	SN: GB37460704	97-CH-15 (No. 217-62222)	In house check, Oct-16
Prover sensor HP 8481A	SN: U507282760	07-Oct-15 (No. 217-02222)	in house check: Oct 16
Power sensor HP 8481A	SN: MY41092317	07-CH-15 (No. 217-02223)	in house check: Oct-16
RF generator R&S SMT-00	SN: 100972	15-Jun-15 (in house of each Jun-15)	in house check: Oct 16
Nationals Analyzer HP 8753E	SN: US37300586	18-Cict-01 (In house check Oct-15)	in house check; Oct-16
	Name	Function	Signature
Calibrated by:	acronous Kuridus	Laboratory Technical	polle den
Approved by	Katja Polovic	Technical Manager	Must

Certificate No: D2300V2-1023_Aug16

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





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Glossary:

TSL tissue simulating liquid

sensitivity in TSL / NORM x,y,z ConvF not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless. Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- a) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%

Certificate No: D2300V2-1023 Aug15

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Measurement Conditions

ASY system configuration, as far as not		1.000 00 0
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2300 MHz ± 1 MHz	

Head TSL parameters

ing parameters and calculations were explied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.5	1:67 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.7 ± 8 %	1.70 mhq/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	egent.	, mes

SAR result with Head TSL

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	250 mW Input power	12.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	49,3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.00 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.9	1.81 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.3 ± 8 %	1.85 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	the state of the s	j-sai-

SAR result with Body TSL

SAR averaged over 1 cm² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.2 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	49.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.87 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23,3 W/kg ± 16.5 % (k=2)

Certificate No: D2300V2-1023_Aug.16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.8 Ω - 1.4 jΩ
Return Loss	- 34.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.4 Ω - 2.0 jΩ
Return Loss	- 25.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.171 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	March 30, 2009	

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DASY5 Validation Report for Head TSL

Date: 26.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medliim parameters used: f = 2300 MHz; $\alpha = 1.7$ S/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.99, 7.99, 7.99); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanica) Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 113.6 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 24.8 W/kg SAR(1 g) = 12.5 W/kg; SAR(10 g) = 6 W/kgMaximum value of SAR (measured) = 20.4 W/kg



0 dB = 20.4 W/kg = 13.10 dBW/kg

Conficate No: D2300V2-1023_Aug16

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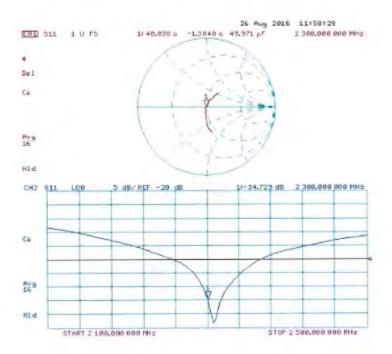
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 24.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1023.

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.85 \text{ S/m}$; $\varepsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

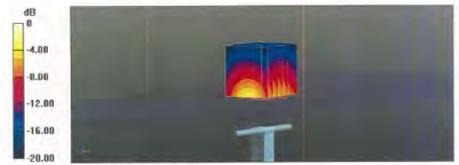
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.79, 7.79, 7.79); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.5 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 23.7 W/kg SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.87 W/kg Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

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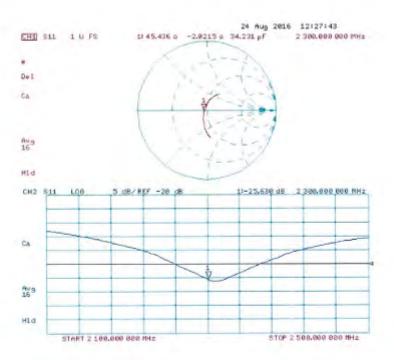
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Impedance Measurement Plot for Body TSL



Certificate No: D2300V2-1023_Aug16

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Calibration Laboratory of Schmid & Partner Engineering AG usstrasse 43, 9004 Zurich, Switzerland





Schweizerlischer Kallignerdienst S Service suisse d'étatonnage C Servizio svizzero di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Certificate No: D2450V2-727_Apr16

SGS-TW (Auden) CALIBRATION CERTIFICATE D2450V2 - SN:727 Obtect QA CAL-05.v9 Calibration procedure(s) Calibration procedure for dipole validation kits above 700 MHz Calibration date: April 19, 2016 This calibration certificate documents the tracephility to national standards, which walled the physical units of intessurer The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate: All calibrations have been conducted in the closed subtrainty lacility, surviousness temperature (22 ± 3)°C and humidity = 70%. Calibration Equipment used (M&TE critical for calibration) DA Cal Date (Certificate No.) Scheduled Calibration Primary Standards 06-Apr-16 (No. 217-02288/02289) SN: 104778 Apr-17 Power mater NRP Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Reference 20 dB Attenuator SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 Type-N mismatch combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02295) Apr-17 Reference Probe EX3DV4 SN: 7349 31-Dec-15 (No. EX3-7349 Dec16) Dec-16 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-15 Secondary Standards Scheduled Check Check Bale (in house) ID 4 Power meter EPM-442A SN 0837480704 07-Oct-15 (No. 217-02222) In house check: Oct-16: SN US37292769 07-Oct-15 (No. 217-02222) In house check: Opt-16. Power sensor HP 8481A SN: MY41092317 07-Oct-15 (No. 217-02223) in house check; Oct-16. Power sensor HP 8481A **Fif generator Fig.S SMT-06** SN. 100972 (5-Jun-15 (in house check Jun-15) in nouse check: Oct-16 SN: US37390585 18-Oct-01 (in house check Oct-15) in house check: Oct-16 Network Analyzer HP 6753E Function Michael Weber Laboratory Technician Calibrated by: Kalja Poković Technical Manager Approved by: Issued: April 20, 2016 This calibration conflictate shall not be reproduced except in full without written approval of the laboratory

Certificate No: D2450V2-727_Apr16

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Engineering AG Zeughausstrasse 43, 9004 Zurich, Switzerland





S Schweizerischer Kullbrüreinnst C Service sulsen d'étalonnage Servizio evizzero di taratura S Seviss Calibratien Service

Acceptitution No.: SCS 0108

According by the Swiss Accordington Service (SAS)

The Swise According to Service is one of the signaturies to the EA Multilinear Agreement for the recognition of calibration partificates

Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005.
- iEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL. The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Centificate Not D2450V2-727_April 9

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Measurement Conditions

MOT system comiguration, as rai as not		
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.0 ± 6 %	1.83 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.8 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.7 ± 6 %	1.98 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.5 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	49.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.86 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.3 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-727_Apr16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.3 Ω + 2.0 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	52.1 Ω + 4.8 jΩ
Return Loss	- 25.9 dB

General Antenna Parameters and Design

1	Electrical Delay (one direction)	1.148 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve metching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	January 09, 2003	

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DASY5 Validation Report for Head TSL

Date: 19.04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz.

Medium parameters used: f = 2450 MHz; $\sigma = 1.83 \text{ S/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.76, 7.76, 7.76); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015.
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

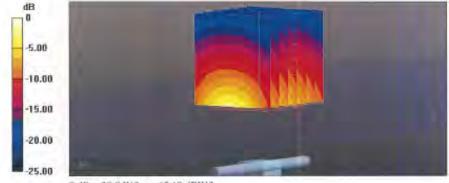
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.1 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.93 W/kg

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

Certificate No. D2450V2-727_Apr16

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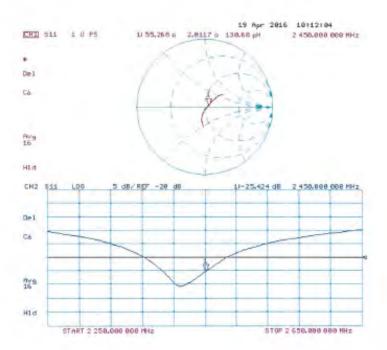
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Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-727_Apr16

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Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Certificate No: D2600V2-1005 Jan16

	CERTIFICATI		
Object	D2600V2 - SN: 1	005	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits ab	ove 700 MHz
Cartamilium dalai	January 21, 2018	3	
The measurements and the unco All collarations have been condu	ertainties with confidence p cted in the closed liaborato	onal standards, which review the physical or robability are given on the following pages a ny faoitty: emitroriment temperature (22 ± 3) ⁴	nd are part of the certificates.
Calibration Equipment used (MS	AT CHICAL OF CHARACTER		
	IDA	Cal Date (Certificate No.)	Subsequent Continuous
Primary Standards Primary Standards Power moter EPM-442A Power sensor HP 9481A Power sensor HP 9481A Petersnoe 20 dB Attenuator Typa-N mismatch continuation Relemence Probe EX3DV4 DAE4	1	Cal Date (Certificate No.) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02131) 31-Dec-15 (No. 217-02134) 31-Dec-15 (No. 217-02134) 30-Dec-15 (No. DAE4-901, Dec15)	Scheduled Calibration Oct-16 Oct-16 Oct-16 Mar-16 Mar-18 Dec-16 Dec-16
Primary Standards Power meter EPM-442A Power sensor HP 9481A Power sensor HP 8481A Reference 20 dB Attenuator Typa-N mismatch combination Releience Probe EX3DV4	ID.4 GB37489704 US37292783 MY41092317 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7349	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349_Oct15)	Oct-16 Oct-16 Oct-16 Mar-16 Mar-18 Dwc-16
Primary Standards Power meter EPM-442A Power sensor HP 9481A Power sensor HP 9481A Power sensor de 9481 A Reference 20 dB Attenuator Type-N mismatch combination Balananca Probe EX3DV4 DAE4	ID.4 GB37490704 US37292783 MY41082817 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7348 SN: 601	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. DAE4-601_Dec15)	Oct-16 Oct-16 Oct-16 Mar-16 Mar-18 Dec-16 Dec-16 Scheduled Check
Primary Standards Power motor EPM-442A Power sensor HP 9481A Power sensor HP 9481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards RF generator R&S SMT-06 Notwork Analyzer-HF 8753S	ID.4 GB37480704 US37292783 MY41082317 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7349 SN: 801 ID.# 100972 US37390585 54206	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02131) 31-Dec-15 (No. 217-02134) 31-Dec-15 (No. 237-7349_Occ15) 30-Dec-15 (No. DAE4-901_Dec15) Check Date (in house)	Oct-16 Oct-15 Oct-15 Mar-16 Mar-16 Dec-16
Primary Standards Power meter EPM-442A Power sensor HP 8481 A Power sensor HP 8481 A Reference 20 dB Attenuator Type N mismatch combination Balanance Probe EX3DV4 DAE4 Secondary Standards RF generator R&S SMT-06	ID.4 GBS7480704 US37292783 MY41082317 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7349 SN: 604	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02231) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. 227-02134) 31-Dec-15 (No. DAE4-601 Dec-15) Check Date (in house) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15)	Oct-16 Oct-15 Oct-15 Mar-16 Mar-16 Dec-16 Dec-16 Scheduled Check In house check: Jun-18 In house check: Oct-16
Primary Standards Power motor EPM-442A Power sensor HP 9481A Power sensor HP 9481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards RF generator R&S SMT-06 Notwork Analyzer-HF 8753S	ID.4 GB37480704 US37292783 MY41082317 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7349 SN: 801 ID.# 100972 US37390585 54206	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. 227-02134) 30-Dec-15 (No. DAE4-601 Dec-15) Check Date (in house) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Jun-15)	Oct-16 Oct-16 Oct-16 Mai-16 Mai-16 Dec-16 Dec-16 Scheduled Check In house check: Jun-18 In house check: Oct-16

Certificate No: D2600V2-1005_Jen16 Page 1 of 8

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Accreditation No.: SCS 0108

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Glossary:

TSI tissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z N/A. not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques*, June 2013.
- IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010.
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

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- Measurement Conditions: Further details are available from the Validation Report at the end. of the certificate. All figures stated in the certificate are valid at the frequency indicated,
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%

Certifique No: D2600V2-1005 Jan 16

Page 2 of B

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Measurement Conditions

DASY system configuration, as far as not given on nane 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mha/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.3 ± 6 %	2.04 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	****	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg ± 16.5 % (k=2)

Body TSL parameters

s and calculations were applied.

the following parameters and editoriations were appri	00.		
	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2.22 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.7 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	53.9 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

Certificate No: D2600V2-1005_Jan16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.2 Ω - 4.2 jΩ
Return Loss	- 27.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.6 Ω - 3.3 jΩ
Return Loss	- 24.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1,154 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 23, 2006

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DASY5 Validation Report for Head TSL

Date: 21.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.04 \text{ S/m}$; $s_r = 37.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.49, 7.49, 7.49); Calibrated: 31.12.2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.12,2015

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 114.8 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.29 W/kg

Maximum value of SAR (measured) = 24.0 W/kg



0 dB = 24.0 W/kg = 13.80 dBW/kg

Certificate No: D2800V2-1005_Jan16

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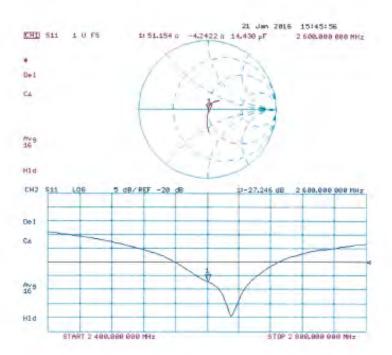
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 21.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.22 \text{ S/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.6, 7.6, 7.6); Calibrated: 31.12.2015;

Sensor-Surface; 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.12.2015

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

DASY52 52.8,8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.7 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 28.4 W/kg SAR(1 g) = 13,7 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.8 W/kg = 13.58 dBW/kg

Certificate No: D2600V2-1005_Jan16

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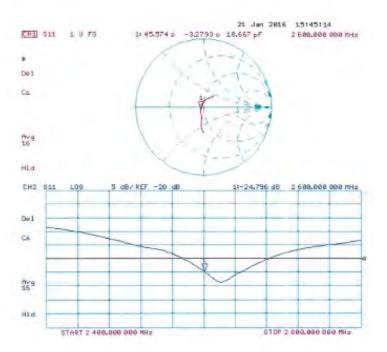
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Impedance Measurement Plot for Body TSL



Certificate No: D2600V2-1005_Jan16 Page 8 of 8

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





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SGS-TW (Auden)

Curdicate No: D2600V2-1005 Jan17

ALIDITATION	ERTIFICATE		
Digest	D2600V2 - SN:1005		
Calibratica proteomero)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits abo	ve 700 MHz
Colombos date:	January 25, 2017		
The mesturements shift the unce	simulias with confidence p	one diandance, which makes the physical un rocalishly are given on the following pages an ry facility: environment temperature (22 ± 3)*1	d are part of the certificate.
Primary Standards	10 #	Cel Date (Gershoem No.)	Scredued Caltriagon
Power mater NRP	SN: 104778	06 Apr 16 (No. 217-02288/02289)	Apr-17
Ower sensor NEP-Z01	SN: 103244	06-Apr-16 (No. 217-02288)	April 7
Power sucress NEP-Z91	BN: 103215	06-Apr 16 (No. 217-02280)	Apr-17
Pleterence 20 dB Attanuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02282)	April 17
	BN 5047-2 / 06327	06-Apr-16 (No. 217-02295)	Apr-17
VOS-M TRISTMANDI COMMONWEEN	5N: 7349	31-Dec-16 (No EX3-7349 Dec16)	D86-17
		The second secon	Jan-18
Hererence Probe EX3DV4	374 601	04-Jan-17 (No. DAE4-501_Jan17)	3011-16
Type-N mismatch compilation Herenore Probe EXSDV4 DAE4 Secondary Standards	D.e	Check Date (in house)	Schedukid Check
Herenence Probe EXSDV4 DAE4 Secondary Standards Power moor EPM-442A	© # SN GB374B0704	Check Deta (in house) 17-Oci-15 (in house mack Oct-16)	Scheduled Check In novie check: Oc. 18
Reference Proba EXSDV4 DAE4 Secondary Standards Power mater EPM 442A Fower sensor EF 5461A	ID 4 SN GB374B0704 SN US37292783	Check Date (in house) 17 Oct-15 (in house mack Oct-16) 17 Oct-15 (in house check Oct-16)	Scheduled Check In house check: Oct-18 In house check: Oct-18
Hereronce Probe EXSIDV4 DAE4 Secondary Stendards Power motor EPM 442A Power sensor HP 6461A Power sensor HP 8481A	ID 4 SN GB374B0704 SN US37292783 SN MY41052317	Check Date (in house) 17 Oct-15 (in house mice, Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Scheduldd Check In house check; Dei-16 In house check; Dei-18 In house check; Ool-18
Hereinence Probe EXSIDV4 DAE4 Secondary Stendende Power mater EPM 442A Power senson HT 5451A Power senson HP 8431A RF generator R&S SMT-08-	ID # SN GB37480704 SN US37292793 SN: MY41092317 SN 100972	Check Date (in house) 17. Oct-15 (in house mack Oct-16) 17. Oct-15 (in house check Oct-16) 17. Oct-15 (in house check Oct-16) 16. Jun-16 (in house check Oct-16)	Scheduled Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18
Hereinence Probe EXSIDV4 DAE4 Secondary Stendende Power mater EPM 442A Power senson HT 5451A Power senson HP 8431A RF generator R&S SMT-08-	ID 4 SN GB374B0704 SN US37292783 SN MY41052317	Check Date (in house) 17 Oct-15 (in house mice, Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Schedukki Check In house check: Dc: 18 In house check: Oci-18 In house check: Oci-18
Network Analyzer NP 875St	ID 4 SN CB374B0704 SN US37282789 SN: MY41092317 SN 100972 SN: US37290588	Check Data (in house) 17-Och (in house meas Och (in) 17-Och (in house meas Och (in) 17-Och (in house check Och (in) 15-Jun-15 (in house check Och (in) 18-Och (in house check Och (in) 18-Och (in house check Och (in)	Schedukid Chack In house chack; Och-18 In house chack; Och-18 In house chack; Och-18 In house chack; Och-18
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Reference Probe EXSDV4 DAE4	ID 4 SN CB374B0704 SN US37282789 SN: MY41092317 SN 100972 SN: US37290588	Check Data (in house) 17-Och (in house meas Och (in) 17-Och (in house meas Och (in) 17-Och (in house check Och (in) 15-Jun-15 (in house check Och (in) 18-Och (in house check Och (in) 18-Och (in house check Och (in)	Scheduled Check In house check; Oct-18 In house check; Oct-18 In house check; Oct-18 In house check; Oct-18 In house check; Oct-18

Certificate No: D2600V2-1005_Jan17

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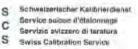


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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS).

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL ConvF

N/A

tissue simulating liquid

sensitivity in TSL / NORM x.y.z. not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)". February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured; SAR measured at the stated antenna input power.
- SAR normalized; SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2600V2-1005_Jan17

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Measurement Conditions

DASV evetem configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.4 ± 6.%	2.05 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.3 ± 6 %.	2.20 mho/m ± 6.%
Body TSL temperature change during test	< 0.5 °C	(About	lane.

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	55.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.7 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.3 11 - 4.7 31
Return Loss	- 26,5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.7 () - 3.2 j()
Return Loss	23.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	7	1.154 ns-	
Car St., Carlot E. St. & April 1997		7,177.00	

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No expassive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	December 23, 2006	

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DASY5 Validation Report for Head TSL

Date: 25.01,2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.05 \text{ S/m}$; $\epsilon_t = 37.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.56, 7.56, 7.56); Calibrated: 31.12.2016;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 04.01.2017

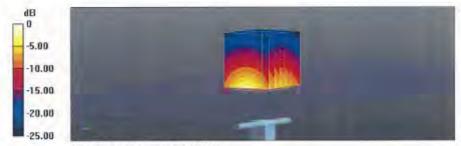
Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial; 1001

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 116.2 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 30.5 W/kg SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.32 W/kg

Maximum value of SAR (measured) = 24.2 W/kg



0 dB = 25.2 W/kg = 13.84 dBW/kg

Certificate No: D2600V2-1005_Jan17

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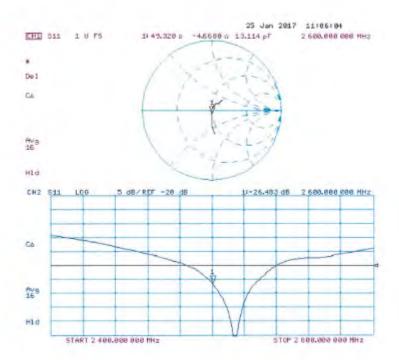
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 18.01.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System; UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.2 \text{ S/m}$; $\varepsilon_c = 52.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.48, 7.48, 7.48); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 108.8 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.2 W/kgMaximum value of SAR (measured) = 23.3 W/kg



0 dB = 23.3 W/kg = 13.67 dBW/kg

Certificate No: D2600V2-1005_Jan17

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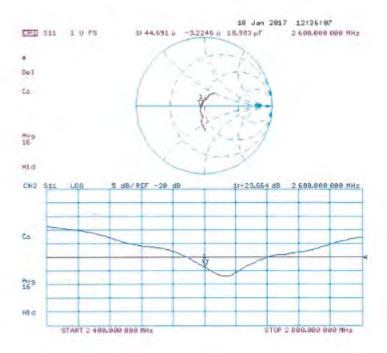
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Impedance Measurement Plot for Body TSL



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





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Accredited by the Swiss Accreditation Service (SAS)

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SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No. D5GHzV2-1023 Jan 16

CALIBRATION CERTIFICATE D5GHzV2 - SN: 1023 Calibration procedure(s) QA CAL-22.V2 Calibration procedure for dipole validation kits between 3-6 GHz January 26, 2016 Calibration date: This carioration certificate documents the traceability to national stendards, which realize the physical units of measurements (Si) The measurements and the uncontainties with confidence probability are given on the following pages and are cart of the certificate, All collorations have been conducted in the closed laboratory facility: environment temperature (22 s. 91°C and frumidity < 70%). Calibration Equipment used (M&TE critical for calibration) Scheduled Calibration Cai Date (Certificate No.) Primary Standards GB37480704 Power meter EPM-442A 07-Oct-15 (No. 217-02222) Power sensor HP 8461A US37292783 07-Oct-15 (No. 217-02222) Oct-16 Power sensor HP 8481A MY41092317 07-Oct-15 (No. 217-02223) Oct-16 Reference 20 dB Attenuator SN: 5055 (20k) 01-Apr-15 (No. 217-02131) Mar-16 Type-N mismatch combination SN: 5047.2 / 06327 01-Apr-15 (No. 217-02134) May-16 Reference Probe EX3DV4 SM 3503 31 Dec-15 (No. EX3-3503_Dec (5) Dec-18 DAE4 SN. 601 30-Dec-15 (No. DAE4-601_Dec-15) Dec-16 Scheduled Check Secondary Standards Check Date (in house) 15-Jun-15 (in house shack Jun-15) In house check, Jun-18 RF generator R&S SMT-06 100972 In house check: Oct-16 HS37390585-\$4206 18-Oct-01 (in house check Oct-15) Nelwork Analyzar HP 8753E Function Name Laboratory Technician Calibrated by Michael Weber Kata Poković Technical Manager Approved by issued: January 28, 2018 This calibration cartificate shall not be reproduced except in full without written approval of the incoratory

Certificate No: 05GHzV2-1023_Jan16

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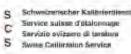
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Calibration Laboratory of

Schmid & Partner Engineering AG serann til nood Zurich, Switzerland







Accreditation No.: SCS 0108

Accurated by the Switte Accuration on Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilatoral Agreement for the recognition of colloration certificates

Glossary:

TSL

tissue simulating liquid

ConvF N/A

sunsitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-2, *Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30. MHz to 6 GHz)", March 2010
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the cartificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Fixed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1

mo i systemi comiguration, as iai as ik	at Street on bade 1:	
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 m/no/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.51 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.74 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

e following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.6 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5800 MHz

The following parameters and calculations were applied:

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.10 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.78 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ⁵ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ± 6 %	5.37 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	71.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.3 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5300 MHz

The follow ing parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.9 ± 6 %	5.50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.57 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.1 W/kg ± 19.9 % (k=2)

SA	AR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SA	AR measured	100 mW input power	2.14 W/kg
SA	AR for nominal Body TSL parameters	normalized to 1W	21.2 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	5.91 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.89 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.0 ± 6 %	6.19 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.1 Ω - 8.4 jΩ
Return Loss	- 21.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.6 Ω · 4.2 jΩ
Return Loss	- 27.4 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.9 Ω - 1.4 jΩ
Return Loss	- 26.3 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.9 Ω + 2.2 jΩ
Return Loss	- 24.5 dB

Antenna Parameters with Body TSL at 5200 MHz

	Impedance, transformed to feed point	49.4 Ω - 6.8 jΩ
ſ	Return Loss	- 23.3 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	50.9 Ω - 2.4 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	56.0 Ω - 0.1 jΩ
Return Loss	- 25.0 dB

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Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	56.4 Ω + 2.4 jΩ
Return Loss	- 23.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

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DASY5 Validation Report for Head TSL

Date: 26.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.51 \text{ S/m}$; $\varepsilon_r = 35.2$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: f = 5300 MHz; $\sigma = 4.6$ S/m; $\epsilon_r = 35.1$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 1000$ kg/m³, Medium parameters used: $\sigma = 1000$ kg/m³, $\sigma = 1000$ kg/m³, Medium parameters used: $\sigma = 1000$ kg/m³, $\sigma = 1000$ kg/m³, Medium parameters used: $\sigma = 1000$ kg/m³, $\sigma = 1000$ kg/m³, $\sigma = 1000$ kg/m³, Medium parameters used: $\sigma = 1000$ kg/m³, $\sigma =$ 4.9 S/m; $\varepsilon_r = 34.7$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 5.1$ S/m; $\varepsilon_r = 34.4$; $\rho = 5.1$ S/m; $\varepsilon_r = 5.1$ S/m; $\varepsilon_r = 34.4$; $\rho = 5.1$ S/m; $\varepsilon_r = 5.1$ 1000 kg/m3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.59, 5.59, 5.59); Calibrated: 31.12.2015, ConvF(5.25, 5.25, 5.25); Calibrated: 31.12.2015, ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Scrial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.68 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.14 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.32 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 19.8 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

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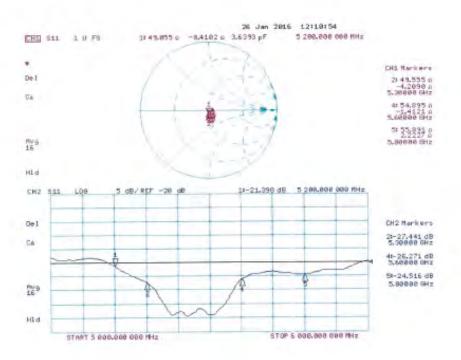
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 25.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.37 \text{ S/m}$; $\varepsilon = 47.1$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: f = 5300 MHz; $\sigma = 5.5 \text{ S/m}$; $\epsilon_f = 46.9$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: f = 5600 MHz; $\sigma =$ 5.91 S/m; $\epsilon_c = 46.4$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.19$ S/m; $\epsilon_c = 46$; $\rho = 6.19$ S/m; $\epsilon_c = 6.19$ S/m; $\epsilon_c = 46$; $\rho = 6.19$ 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.75, 4.75, 4.75); Calibrated: 31.12.2015, ConvF(4.35, 4.35, 4.35); Calibrated: 31.12.2015, ConvF(4.27, 4.27, 4.27); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.72 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 16.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 17.7 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.1 W/kg

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Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.76 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



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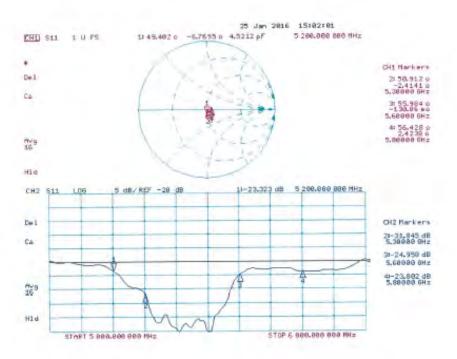
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Impedance Measurement Plot for Body TSL



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





S Schweizerischer Kallbrierdienst
C Service sulsse d'étalonnage
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S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Certificate No: D5GHzV2-1023 Jan17

Accreditation No.: SCS 0108

Calibration date: This calibration certificate documents The measurements and the uncertain All calibrations have been conducted Calibration Equipment used (M&TE of Primary Standards Power nature NRIP-Z91 Power sensor NRIP-Z91 Reference 20 dB Alternation	January 20, 2017 s the traceability to not intes with contidence p I in the closed (aboration) ID = SN: 104778 SN: 103244 SN: 103245	dure for dipole validation kits between the physical or robatifity are given on the following pages and security ecifity: environment temperature (22 ± 3)*0. Gai Date (Certificate No.) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02288)	is of measurements (St), d are part of the certificate.
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leference 20 dB Alternuelor	Section of the sectio	06-Apr-10 (No. 217-02200)	4,674,33
		OF A 40 (No. 047 (2000))	Apr-17
vpe-N mismatch combination	SN: 5058 (20k)	05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295)	Apr-17
	SN: 5047.2 / 06327 SN: 3503	31-Dec-18 (No. EX3-3503 Dec16)	Dec-17
Reference Probe EX3DV4 DAE4	SN 601	64-Jan-17 (No. DAE4-601_Jan17)	Jan-18
Secondary Standards	ID #	Check Outo (in house)	Scheduled Check
Power meter EPM-442A	SN GB37480704	97-Oct-15 (in house check Oct-16)	in house check: Qct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-05	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct 17
	Name.	Function	Signature
Calibrated by:	Jeton Kastrat	Laboratory Technician	- BS
Approved by:	Katje Pokovic	Technical Manager	pole us

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S Schweizerischer Kalibrierdienst C Service suisse d'étalonnage Servizio svizzero di taretura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tiss ConvF ser N/A not

tissue simulating liquid sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The Impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized; SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52,8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Batio = 1.4 (Z cirection)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.45 mhorm ± 6 %
Head TSL temperature change during test	≥0.5 °C		nelles .

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35,9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.55 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	B.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.8 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.35 W/kg
SARI for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0±0.2) °C	34.7 ± 6.%	4.85 mha/m ± 6 %
Head TSL temperature change during test	<0.5°C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8,22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22,0 ± 0,2) °C	34.4 ± 6 %	5.05 m/no/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	N-1-3	-

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ¹ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.5 ± 6 %	5.38 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	+ and	-

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	100 mW Input power	7.32 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	72.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ⁸ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.3 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5300 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22,0 °C	48,9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.3±5%	5,50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		-

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.66 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5600 MHz

	Temporature	Parmittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) ℃	46.6 ± 6 %	5.90 mho/m ± 8 %
Body TSL temperature change during test	< 0.5 °C		-

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.02 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	79,6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2,26 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.4 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 ℃	46.2	6.00 mhalm
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.3 ± 6 %	6.17 mhq/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	-	-

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.64 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75,9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49,6 Ω - 6,7 jΩ
Return Loss	- 23.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.0 Ω - 1.8 jΩ	
Return Loss	-33.5 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.1 12 - 0.2 jû	
Return Loss	- 28.2 dB	

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	$55.4 \Omega + 2.8 j\Omega$	
Return Loss	- 24.8 dB	

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	48.9 Ω - 7,0 jΩ
Return Loss	- 22.9 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	51.0 Ω - 1.0 jΩ	
Return Loss	- 37.0 dEl	

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.6 Ω + 1.5 jΩ	
Return Loss	- 25.2 dB	

Antenna Parameters with Body TSL at 5800 MHz

impedance, transformed to feed point	56.6 \(\Omega + 2.7 \)	
Return Loss	- 23.6 dB	

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General Antenna Parameters and Design

Manager of Both and the Atlantical	1,199 ns
Electrical Delay (one direction)	1,199.88

After long term use with 100W radiated power only a slight warming of the dipole near the feedpoint cari be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the teedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	February 05, 2004	

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DASY5 Validation Report for Head TSL

Date: 20.01.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: HID 0 - CW;

Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.45$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³. Medium parameters used: f = 5300 MHz; $\sigma = 4.55$ S/m; $\epsilon_r = 35.2$; $\rho = 1000$ kg/m³.

Medium parameters used: f = 5600 MHz; $\sigma = 4.85 \text{ S/m}$; $v_r = 34.7$; $\rho = 1000 \text{ kg/m}^3$,

Medium parameters used: f = 5800 MHz; $\sigma = 5.05 \text{ S/m}$; $\varepsilon_4 = 34.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.76, 5.76, 5.76); Calibrated: 31.12.2016, ConvF(5.35, 5.35, 5.35); Calibrated: 31.12.2016, ConvF(5.01, 5.01, 5.01); Calibrated: 31.12.2016, ConvF(5.01, 5.01, 5.01); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (front): Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.8.8(1258): SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.58 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 7.55 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 17.4 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.01 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.94 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8,22 W/kg; SAR(10 g) = 2,33 W/kg Maximum value of SAR (measured) = 19.8 W/kg

Certificate No. D5GHzV2-1023_lan17

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.84 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 19.5 W/kg



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DASY5 Validation Report for Body TSL

Date: 19.01.2017

Test Laboratory: SPEAG, Zurich; Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW;

Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: l = 5200 MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m²

Medium parameters used: f = 5300 MHz; $\sigma = 5.5 \text{ S/m}$; $\epsilon_i = 47.3$; $\rho = 1000 \text{ kg/m}^3$.

Medium parameters used: f = 5600 MHz; $\sigma = 5.9 \text{ S/m}$; $\epsilon_i = 46.6$; $\rho = 1000 \text{ kg/m}^2$

Medium parameters used: f = 5800 MHz; $\sigma = 6.17 \text{ S/m}$: $\varepsilon_t = 46.3$; $\rho = 1000 \text{ kg/m}$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.29, 5.29, 5.29); Calibrated: 31.12.2016, ConvF(5.04, 5.04, 5.04); Calibrated: 31.12.2016, ConvF(4.57, 4.57, 4.57); Calibrated: 31.12.2016, ConvF(4.48, 4.48, 4.48); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52,8.8(1258); SEMCAD X 14.6.10(7372).

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.54 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 16.6 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.93 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 17.6 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan.

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.09 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 18.9 W/kg

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Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

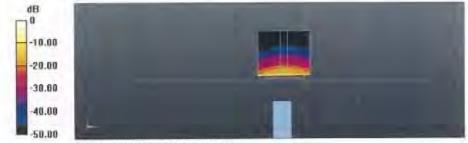
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.14 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 34.0 W/kg.

SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 16,6 W/kg = 12,20 dBW/kg

Gertificate No. D5GHzV2-1023_Jen17

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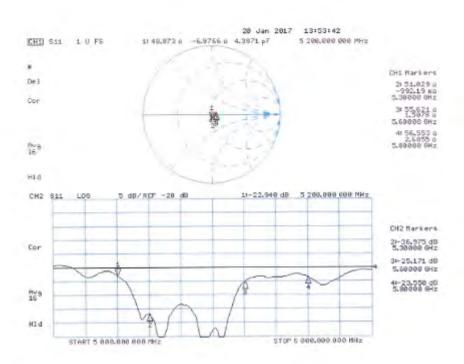
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Impedance Measurement Plot for Body TSL



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- End of 1st part of report -

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