

BUREAU
VERITAS

FCC SAR Test Report



Certificate #6613.01

WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	NR	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
	LTE Band 30 Ant2	Left Tilted	0.211	0.121	0.669	0.000	0.27
		Right Cheek	1.026	0.149	0.669	0.000	0.80
		Right Tilted	0.708	0.100	0.669	0.000	0.57
		Left Cheek	0.297	0.350	0.669	0.015	0.48
		Left Tilted	0.226	0.121	0.669	0.000	0.28
NR Band n71 Ant0	LTE Band 2 Ant2	Right Cheek	1.004	0.109	0.669	0.000	0.76
		Right Tilted	0.627	0.000	0.669	0.000	0.46
		Left Cheek	0.298	0.142	0.669	0.015	0.35
		Left Tilted	0.211	0.056	0.669	0.000	0.23
	LTE Band 66 Ant2	Right Cheek	0.822	0.109	0.669	0.000	0.65
		Right Tilted	0.605	0.000	0.669	0.000	0.45
		Left Cheek	0.291	0.142	0.669	0.015	0.35
		Left Tilted	0.209	0.056	0.669	0.000	0.23
NR Band n77 Ant7	LTE Band 2 Ant0	Right Cheek	0.269	0.949	0.669	0.000	0.83
		Right Tilted	0.189	0.141	0.669	0.000	0.27
		Left Cheek	0.493	0.358	0.669	0.015	0.61
		Left Tilted	0.171	0.265	0.669	0.000	0.34
	LTE Band 5 Ant0	Right Cheek	0.289	0.949	0.669	0.000	0.84
		Right Tilted	0.169	0.141	0.669	0.000	0.26
		Left Cheek	0.210	0.358	0.669	0.015	0.43
		Left Tilted	0.167	0.265	0.669	0.000	0.34
	LTE Band 13 Ant0	Right Cheek	0.230	0.949	0.669	0.000	0.80
		Right Tilted	0.128	0.141	0.669	0.000	0.24
		Left Cheek	0.170	0.358	0.669	0.015	0.41
		Left Tilted	0.126	0.265	0.669	0.000	0.31
	LTE Band 14 Ant0	Right Cheek	0.229	0.949	0.669	0.000	0.80
		Right Tilted	0.109	0.141	0.669	0.000	0.22
		Left Cheek	0.154	0.358	0.669	0.015	0.40
		Left Tilted	0.114	0.265	0.669	0.000	0.30
	LTE Band 66 Ant0	Right Cheek	0.201	0.949	0.669	0.000	0.79
		Right Tilted	0.123	0.141	0.669	0.000	0.23
		Left Cheek	0.538	0.358	0.669	0.015	0.64
		Left Tilted	0.153	0.265	0.669	0.000	0.33

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Body Worn Exposure condition:

WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio)
			LTE	NR	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
NR Band n2 Ant0	LTE Band 5 Ant0	Front Face	0.563	0.737	0.669	0.006	0.88
		Rear Face	0.337	0.155	0.669	0.048	0.40
	LTE Band 12 Ant0	Front Face	0.223	0.737	0.669	0.006	0.67
		Rear Face	0.264	0.155	0.669	0.048	0.36
	LTE Band 13 Ant0	Front Face	0.434	0.737	0.669	0.006	0.80
		Rear Face	0.291	0.155	0.669	0.048	0.38
	LTE Band 14 Ant0	Front Face	0.431	0.737	0.669	0.006	0.80
		Rear Face	0.257	0.155	0.669	0.048	0.35
	LTE Band 30 Ant0	Front Face	0.534	0.737	0.669	0.006	0.87
		Rear Face	0.228	0.155	0.669	0.048	0.34
	LTE Band 66 Ant0	Front Face	0.506	0.737	0.669	0.006	0.85
		Rear Face	0.194	0.155	0.669	0.048	0.32
	LTE Band 71 Ant0	Front Face	0.223	0.737	0.669	0.006	0.67
		Rear Face	0.190	0.155	0.669	0.048	0.31
NR Band n2 Ant0	LTE Band 66 Ant2	Front Face	0.546	0.703	0.669	0.006	0.85
		Rear Face	0.123	0.335	0.669	0.048	0.38
NR Band n5 Ant0	LTE Band 2 Ant2	Front Face	0.626	0.379	0.669	0.006	0.70
		Rear Face	0.129	0.214	0.669	0.048	0.31
	LTE Band 30 Ant2	Front Face	0.679	0.379	0.669	0.006	0.73
		Rear Face	0.370	0.214	0.669	0.048	0.46
	LTE Band 66 Ant2	Front Face	0.546	0.379	0.669	0.006	0.65
		Rear Face	0.123	0.214	0.669	0.048	0.31
NR Band n41 Ant2	LTE Band 66 Ant0	Front Face	0.506	0.525	0.669	0.006	0.71
		Rear Face	0.194	0.468	0.669	0.048	0.51
NR Band n66 Ant2	LTE Band 5 Ant0	Front Face	0.563	0.658	0.669	0.006	0.83
		Rear Face	0.337	0.112	0.669	0.048	0.38
	LTE Band 12 Ant0	Front Face	0.223	0.658	0.669	0.006	0.62
		Rear Face	0.264	0.112	0.669	0.048	0.33
	LTE Band 13 Ant0	Front Face	0.434	0.658	0.669	0.006	0.75
		Rear Face	0.291	0.112	0.669	0.048	0.35
	LTE Band 14 Ant0	Front Face	0.431	0.658	0.669	0.006	0.75
		Rear Face	0.257	0.112	0.669	0.048	0.33
	LTE Band 30 Ant0	Front Face	0.534	0.658	0.669	0.006	0.82
		Rear Face	0.228	0.112	0.669	0.048	0.31
	LTE Band 71 Ant0	Front Face	0.223	0.658	0.669	0.006	0.62
		Rear Face	0.190	0.112	0.669	0.048	0.29
NR Band n66 Ant0	LTE Band 2 Ant2	Front Face	0.626	0.641	0.669	0.006	0.86
		Rear Face	0.129	0.286	0.669	0.048	0.36

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WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio)
			LTE	NR	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
	LTE Band 30 Ant2	Front Face	0.679	0.641	0.669	0.006	0.90
		Rear Face	0.370	0.286	0.669	0.048	0.51
NR Band n71 Ant0	LTE Band 2 Ant2	Front Face	0.626	0.193	0.669	0.006	0.58
		Rear Face	0.129	0.232	0.669	0.048	0.32
	LTE Band 66 Ant2	Front Face	0.546	0.193	0.669	0.006	0.53
		Rear Face	0.123	0.232	0.669	0.048	0.32
NR Band n77 Ant7	LTE Band 2 Ant0	Front Face	0.507	0.518	0.669	0.006	0.71
		Rear Face	0.288	0.641	0.669	0.048	0.68
	LTE Band 5 Ant0	Front Face	0.563	0.518	0.669	0.006	0.75
		Rear Face	0.337	0.641	0.669	0.048	0.71
	LTE Band 13 Ant0	Front Face	0.434	0.518	0.669	0.006	0.67
		Rear Face	0.291	0.641	0.669	0.048	0.68
	LTE Band 14 Ant0	Front Face	0.431	0.518	0.669	0.006	0.66
		Rear Face	0.257	0.641	0.669	0.048	0.66
	LTE Band 66 Ant0	Front Face	0.506	0.518	0.669	0.006	0.71
		Rear Face	0.194	0.641	0.669	0.048	0.62

<WWAN (Inter band CA) + WLAN6G + BT>

Head Exposure condition:

WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	LTE	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
LTE Band 2 ANT2	LTE Band 5 ANT0	Right Cheek	1.004	0.289	0.669	0.000	0.87
		Right Tilted	0.627	0.169	0.669	0.000	0.56
		Left Cheek	0.298	0.210	0.669	0.015	0.39
		Left Tilted	0.211	0.167	0.669	0.000	0.30
	LTE Band 12 ANT0	Right Cheek	1.004	0.179	0.669	0.000	0.81
		Right Tilted	0.627	0.078	0.669	0.000	0.51
		Left Cheek	0.298	0.141	0.669	0.015	0.35
		Left Tilted	0.211	0.083	0.669	0.000	0.25
	LTE Band 13 ANT0	Right Cheek	1.004	0.230	0.669	0.000	0.84
		Right Tilted	0.627	0.128	0.669	0.000	0.54
		Left Cheek	0.298	0.170	0.669	0.015	0.37
		Left Tilted	0.211	0.126	0.669	0.000	0.28
	LTE Band 14 ANT0	Right Cheek	1.004	0.229	0.669	0.000	0.84
		Right Tilted	0.627	0.109	0.669	0.000	0.53
		Left Cheek	0.298	0.154	0.669	0.015	0.36
		Left Tilted	0.211	0.114	0.669	0.000	0.27
		Right Cheek	1.004	0.201	0.669	0.000	0.82

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WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	LTE	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m^2)	1g SAR (W/kg)	
	LTE Band 66 ANT0	Right Tilted	0.627	0.123	0.669	0.000	0.54
		Left Cheek	0.298	0.538	0.669	0.015	0.60
		Left Tilted	0.211	0.153	0.669	0.000	0.29
	LTE Band 71 ANT0	Right Cheek	1.004	0.124	0.669	0.000	0.77
		Right Tilted	0.627	0.062	0.669	0.000	0.50
		Left Cheek	0.298	0.186	0.669	0.015	0.38
		Left Tilted	0.211	0.073	0.669	0.000	0.24
LTE Band 7 ANT2	LTE Band 2 ANT0	Right Cheek	0.985	0.269	0.669	0.000	0.85
		Right Tilted	0.712	0.189	0.669	0.000	0.63
		Left Cheek	0.331	0.493	0.669	0.015	0.59
		Left Tilted	0.264	0.171	0.669	0.000	0.34
	LTE Band 5 ANT0	Right Cheek	0.985	0.289	0.669	0.000	0.86
		Right Tilted	0.712	0.169	0.669	0.000	0.62
		Left Cheek	0.331	0.210	0.669	0.015	0.41
		Left Tilted	0.264	0.167	0.669	0.000	0.34
	LTE Band 12 ANT0	Right Cheek	0.985	0.179	0.669	0.000	0.79
		Right Tilted	0.712	0.078	0.669	0.000	0.56
		Left Cheek	0.331	0.141	0.669	0.015	0.37
		Left Tilted	0.264	0.083	0.669	0.000	0.28
	LTE Band 66 ANT0	Right Cheek	0.985	0.201	0.669	0.000	0.81
		Right Tilted	0.712	0.123	0.669	0.000	0.59
		Left Cheek	0.331	0.538	0.669	0.015	0.62
		Left Tilted	0.264	0.153	0.669	0.000	0.33
LTE Band 30 ANT2	LTE Band 2 ANT0	Right Cheek	1.026	0.269	0.669	0.000	0.88
		Right Tilted	0.708	0.189	0.669	0.000	0.63
		Left Cheek	0.297	0.493	0.669	0.015	0.57
		Left Tilted	0.226	0.171	0.669	0.000	0.32
	LTE Band 5 ANT0	Right Cheek	1.026	0.289	0.669	0.000	0.89
		Right Tilted	0.708	0.169	0.669	0.000	0.61
		Left Cheek	0.297	0.210	0.669	0.015	0.39
		Left Tilted	0.226	0.167	0.669	0.000	0.31
	LTE Band 12 ANT0	Right Cheek	1.026	0.179	0.669	0.000	0.82
		Right Tilted	0.708	0.078	0.669	0.000	0.56
		Left Cheek	0.297	0.141	0.669	0.015	0.35
		Left Tilted	0.226	0.083	0.669	0.000	0.26
	LTE Band 14 ANT0	Right Cheek	1.026	0.229	0.669	0.000	0.85
		Right Tilted	0.708	0.109	0.669	0.000	0.58
		Left Cheek	0.297	0.154	0.669	0.015	0.36
		Left Tilted	0.226	0.114	0.669	0.000	0.28

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WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	LTE	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
LTE Band 66 ANT2	LTE Band 66 ANT0	Right Cheek	1.026	0.201	0.669	0.000	0.83
		Right Tilted	0.708	0.123	0.669	0.000	0.59
		Left Cheek	0.297	0.538	0.669	0.015	0.60
		Left Tilted	0.226	0.153	0.669	0.000	0.30
	LTE Band 2 ANT0	Right Cheek	0.822	0.269	0.669	0.000	0.75
		Right Tilted	0.605	0.189	0.669	0.000	0.56
		Left Cheek	0.291	0.493	0.669	0.015	0.57
		Left Tilted	0.209	0.171	0.669	0.000	0.30
	LTE Band 5 ANT0	Right Cheek	0.822	0.289	0.669	0.000	0.76
		Right Tilted	0.605	0.169	0.669	0.000	0.55
		Left Cheek	0.291	0.210	0.669	0.015	0.39
		Left Tilted	0.209	0.167	0.669	0.000	0.30
	LTE Band 7 ANT0	Right Cheek	0.822	0.327	0.669	0.000	0.78
		Right Tilted	0.605	0.305	0.669	0.000	0.64
		Left Cheek	0.291	0.602	0.669	0.015	0.63
		Left Tilted	0.209	0.218	0.669	0.000	0.33
	LTE Band 12 ANT0	Right Cheek	0.822	0.179	0.669	0.000	0.69
		Right Tilted	0.605	0.078	0.669	0.000	0.49
		Left Cheek	0.291	0.141	0.669	0.015	0.35
		Left Tilted	0.209	0.083	0.669	0.000	0.25
	LTE Band 13 ANT0	Right Cheek	0.822	0.230	0.669	0.000	0.72
		Right Tilted	0.605	0.128	0.669	0.000	0.53
		Left Cheek	0.291	0.170	0.669	0.015	0.36
		Left Tilted	0.209	0.126	0.669	0.000	0.28
	LTE Band 14 ANT0	Right Cheek	0.822	0.229	0.669	0.000	0.72
		Right Tilted	0.605	0.109	0.669	0.000	0.51
		Left Cheek	0.291	0.154	0.669	0.015	0.35
		Left Tilted	0.209	0.114	0.669	0.000	0.27
	LTE Band 30 ANT0	Right Cheek	0.822	0.385	0.669	0.000	0.82
		Right Tilted	0.605	0.325	0.669	0.000	0.65
		Left Cheek	0.291	0.622	0.669	0.015	0.65
		Left Tilted	0.209	0.248	0.669	0.000	0.35
	LTE Band 71 ANT0	Right Cheek	0.822	0.124	0.669	0.000	0.66
		Right Tilted	0.605	0.062	0.669	0.000	0.48
		Left Cheek	0.291	0.186	0.669	0.015	0.37
		Left Tilted	0.209	0.073	0.669	0.000	0.24

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Body Worn Exposure condition:

WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	LTE	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
LTE Band 2 ANT2	LTE Band 5 ANT0	Front Face	0.626	0.563	0.669	0.006	0.81
		Rear Face	0.129	0.337	0.669	0.048	0.39
	LTE Band 12 ANT0	Front Face	0.626	0.223	0.669	0.006	0.60
		Rear Face	0.129	0.264	0.669	0.048	0.34
	LTE Band 13 ANT0	Front Face	0.626	0.434	0.669	0.006	0.73
		Rear Face	0.129	0.291	0.669	0.048	0.36
	LTE Band 14 ANT0	Front Face	0.626	0.431	0.669	0.006	0.73
		Rear Face	0.129	0.257	0.669	0.048	0.34
	LTE Band 66 ANT0	Front Face	0.626	0.506	0.669	0.006	0.78
		Rear Face	0.129	0.194	0.669	0.048	0.30
	LTE Band 71 ANT0	Front Face	0.626	0.223	0.669	0.006	0.60
		Rear Face	0.129	0.190	0.669	0.048	0.30
LTE Band 7 ANT2	LTE Band 2 ANT0	Front Face	0.626	0.507	0.669	0.006	0.78
		Rear Face	0.515	0.288	0.669	0.048	0.60
	LTE Band 5 ANT0	Front Face	0.626	0.563	0.669	0.006	0.81
		Rear Face	0.515	0.337	0.669	0.048	0.63
	LTE Band 12 ANT0	Front Face	0.626	0.223	0.669	0.006	0.60
		Rear Face	0.515	0.264	0.669	0.048	0.58
	LTE Band 66 ANT0	Front Face	0.626	0.506	0.669	0.006	0.78
		Rear Face	0.515	0.194	0.669	0.048	0.54
LTE Band 30 ANT2	LTE Band 2 ANT0	Front Face	0.679	0.507	0.669	0.006	0.81
		Rear Face	0.370	0.288	0.669	0.048	0.51
	LTE Band 5 ANT0	Front Face	0.679	0.563	0.669	0.006	0.85
		Rear Face	0.370	0.337	0.669	0.048	0.54
	LTE Band 12 ANT0	Front Face	0.679	0.223	0.669	0.006	0.63
		Rear Face	0.370	0.264	0.669	0.048	0.49
	LTE Band 14 ANT0	Front Face	0.679	0.431	0.669	0.006	0.76
		Rear Face	0.370	0.257	0.669	0.048	0.49
	LTE Band 66 ANT0	Front Face	0.679	0.506	0.669	0.006	0.81
		Rear Face	0.370	0.194	0.669	0.048	0.45
LTE Band 66 ANT2	LTE Band 2 ANT0	Front Face	0.546	0.507	0.669	0.006	0.73
		Rear Face	0.123	0.288	0.669	0.048	0.35
	LTE Band 5 ANT0	Front Face	0.546	0.563	0.669	0.006	0.76
		Rear Face	0.123	0.337	0.669	0.048	0.38
	LTE Band 7 ANT0	Front Face	0.546	0.585	0.669	0.006	0.78
		Rear Face	0.123	0.240	0.669	0.048	0.32
	LTE Band 12 ANT0	Front Face	0.546	0.223	0.669	0.006	0.55
		Rear Face	0.123	0.264	0.669	0.048	0.34



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WWAN Band		Exposure Position	1	2	3	4	1+2+3+4 Max Exposure Ratio
			LTE	LTE	WLAN6G SISO/MIMO	BT Ant6	
			1g SAR (W/kg)	1g SAR (W/kg)	PD (w/m ²)	1g SAR (W/kg)	
	LTE Band 13 ANT0	Front Face	0.546	0.434	0.669	0.006	0.68
		Rear Face	0.123	0.291	0.669	0.048	0.36
	LTE Band 14 ANT0	Front Face	0.546	0.431	0.669	0.006	0.68
		Rear Face	0.123	0.257	0.669	0.048	0.33
	LTE Band 30 ANT0	Front Face	0.546	0.534	0.669	0.006	0.75
		Rear Face	0.123	0.228	0.669	0.048	0.32
	LTE Band 71 ANT0	Front Face	0.546	0.223	0.669	0.006	0.55
		Rear Face	0.123	0.190	0.669	0.048	0.29

Note: For the PD of WLAN 6G in the above simultaneous transmission evaluation, please refer to the WLAN 6G PD test report (Report Number: SRTC2024-9004(F)-24031801(U), Issued By: The State Radio_monitoring_center Testing Center (SRTC))

Test Engineer : RenJie Liu, and ZiXiao Xia

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5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1200	Oct. 27, 2021	3 Years
System Validation Dipole	SPEAG	D835V2	4d265	Oct. 18, 2021	3 Years
System Validation Dipole	SPEAG	D1750V2	1176	Oct. 19, 2021	3 Years
System Validation Dipole	SPEAG	D1900V2	5d159	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D2300V2	1110	Oct. 20, 2021	3 Years
System Validation Dipole	SPEAG	D2450V2	1048	Oct. 21, 2021	3 Years
System Validation Dipole	SPEAG	D2600V2	1110	Sep. 16, 2021	3 Years
System Validation Dipole	SPEAG	D3500V2	1111	Oct. 21, 2021	3 Years
System Validation Dipole	SPEAG	D3700V2	1082	Oct. 20, 2021	3 Years
System Validation Dipole	SPEAG	D3900V2	1055	Oct. 25, 2021	3 Years
System Validation Dipole	SPEAG	D5GHzV2	1315	Oct. 22, 2021	3 Years
Data Acquisition Electronics	SPEAG	DAE4	1389	Nov. 03, 2023	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 22, 2023	1 Year
Radio Communication Analyzer	ANRITSU	MT8821C	6272416925	Aug. 26, 2022	2 Year
Magnetic Field Probe	SPEAG	DAK-3.5	1119	Feb. 19, 2024	1 Year
ENA Series Network Analyzer	SPEAG	DAKS_VNA R140	0121219	Feb. 19, 2024	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	May. 10, 2023	1 Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Jan. 31, 2024	1 Year
Power Meter	Agilent	N1914A	MY52180044	Jan. 30, 2024	1 Year
Power Sensor	Agilent	E9304A H18	MY52050011	Jan. 30, 2024	1 Year
Power Meter	ANRITSU	ML2495A	1506002	Jan. 30, 2024	1 Year
Power Sensor	ANRITSU	MA2411B	1339352	Jan. 30, 2024	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	May. 09, 2024	1 Year
Temp.&Humi.Recorder	ANYMETER	JR912	SZ01	Jun. 19, 2022	2 Years

Note:

- Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
The return loss is $< -20\text{dB}$, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

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6. Measurement Uncertainty

DASY6 Uncertainty Budget According to IEEE 1528-2013 and IEC 62209-1/2016 (0.3 - 3 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.05	N	1	1	1	6.1	6.1	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.0	N	1	1	1	4.0	4.0	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.14	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	2.61	R	1.732	0.78	0.71	1.2	1.1	∞
Liquid Permittivity Repeatability	0.03	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						13.6%	13.5%	578
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						27.2%	26.9%	

Uncertainty budget for frequency range 300 MHz to 3 GHz

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DASY6 Uncertainty Budget According to IEC 62209-2/2010 (30 MHz - 6 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.65	N	1	1	1	6.7	6.7	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.3	N	1	1	1	4.3	4.3	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.16	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.64	R	1.732	0.78	0.71	1.6	1.5	∞
Liquid Permittivity Repeatability	0.08	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						14.0%	13.9%	624
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						28.0%	27.7%	

Uncertainty budget for frequency range 30 MHz to 6 GHz



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7. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation.

If you have any comments, please feel free to contact us at the following:

Add: Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: [+86 \(0557\) 368 1008](tel:+86(0557)3681008)

The road map of all our labs can be found in our web site also

Web: <http://www.7Layers.com>

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_HSL750_240324

DUT: Dipole 750 MHz; Type: D750V3

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 750$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 42.844$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.43 V/m; Power Drift = -0.03 dB

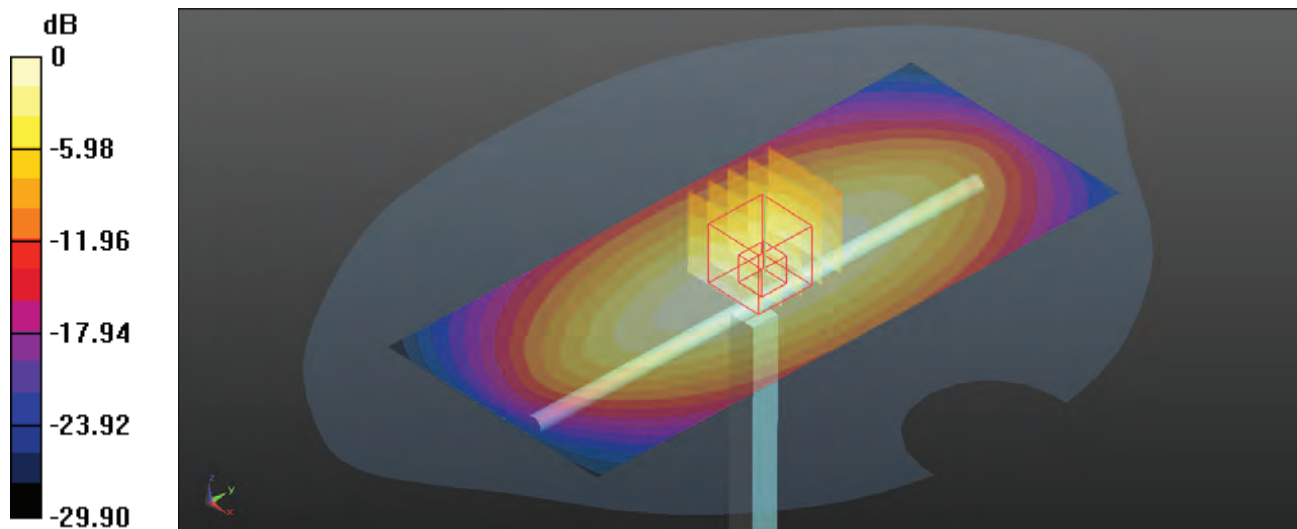
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.37 W/kg

Smallest distance from peaks to all points 3 dB below = 22.6 mm

Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 2.42 W/kg



0 dB = 2.42 W/kg

System Check_HSL750_240325

DUT: Dipole 750 MHz; Type: D750V3

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_0325 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.907 \text{ S/m}$; $\epsilon_r = 43.426$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x151x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.30 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.65 V/m; Power Drift = -0.01 dB

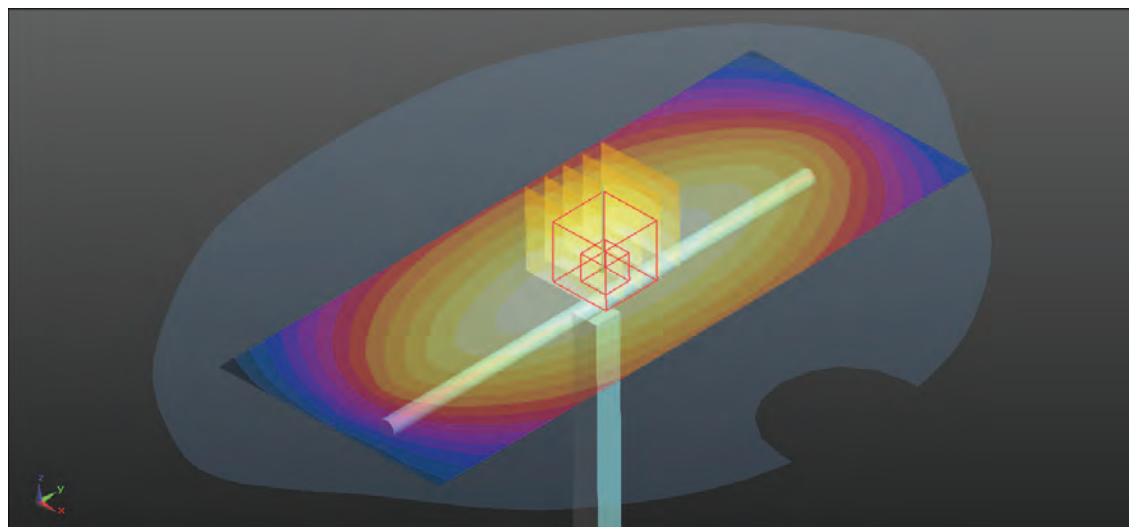
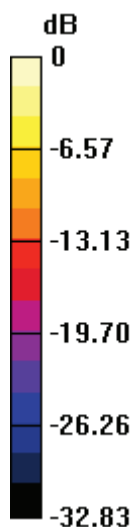
Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.4 W/kg

Smallest distance from peaks to all points 3 dB below = 22.7 mm

Ratio of SAR at M2 to SAR at M1 = 67.1%

Maximum value of SAR (measured) = 2.31 W/kg



0 dB = 2.31 W/kg

System Check_HSL750_240326

DUT: Dipole 750 MHz; Type: D750V3

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 750$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 42.789$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.17 V/m; Power Drift = -0.03 dB

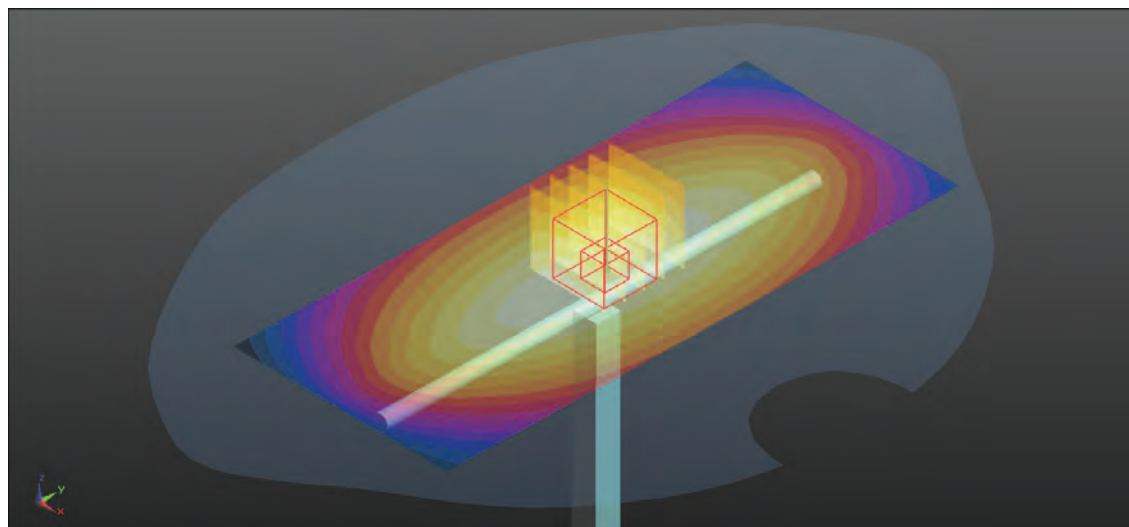
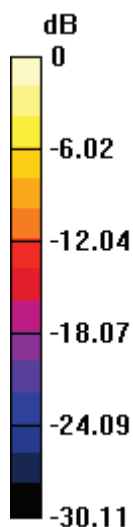
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.42 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 67.5%

Maximum value of SAR (measured) = 2.34 W/kg



0 dB = 2.34 W/kg

System Check_HSL835_240505

DUT: Dipole 835 MHz; Type: D835V2

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_0505 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 43.46$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5°C ; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 835 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.75 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.70 V/m ; Power Drift = -0.06 dB

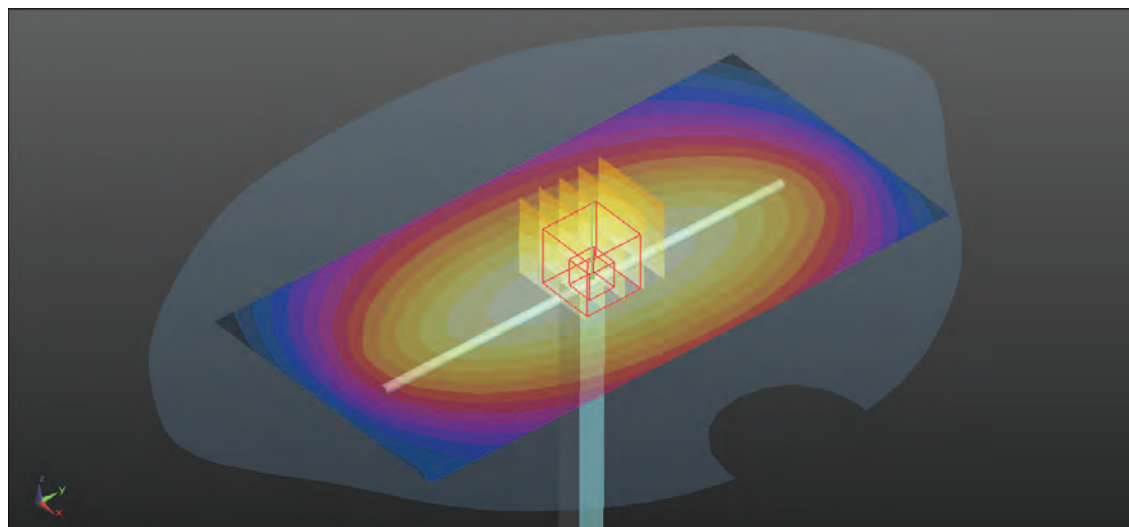
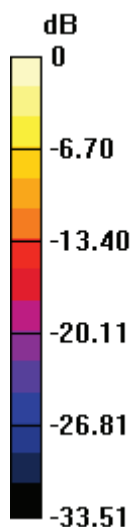
Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 2.48 W/kg ; SAR(10 g) = 1.59 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 67%

Maximum value of SAR (measured) = 2.71 W/kg



0 dB = 2.71 W/kg

System Check_HSL835_240514

DUT: Dipole 835 MHz; Type: D835V2

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 835$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 42.035$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 835 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.58 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.23 V/m; Power Drift = 0.07 dB

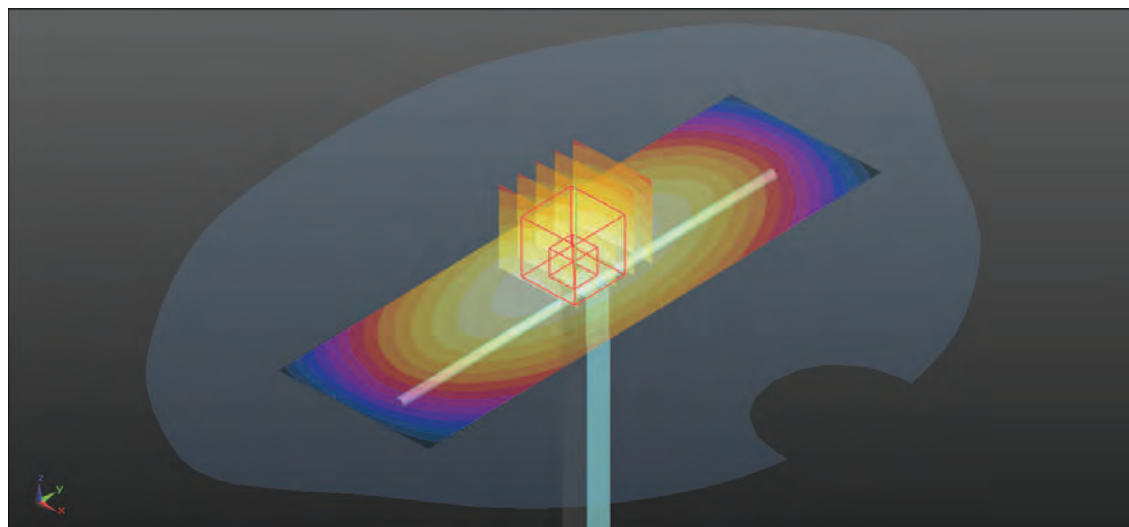
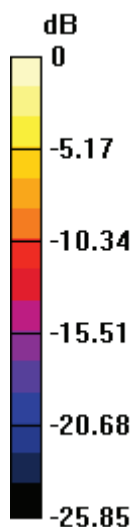
Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.53 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

Maximum value of SAR (measured) = 2.57 W/kg



0 dB = 2.57 W/kg

System Check_HSL1750_240515

DUT: Dipole 1750 MHz; Type: D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750_0515 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 39.833$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.21 V/m; Power Drift = 0.03 dB

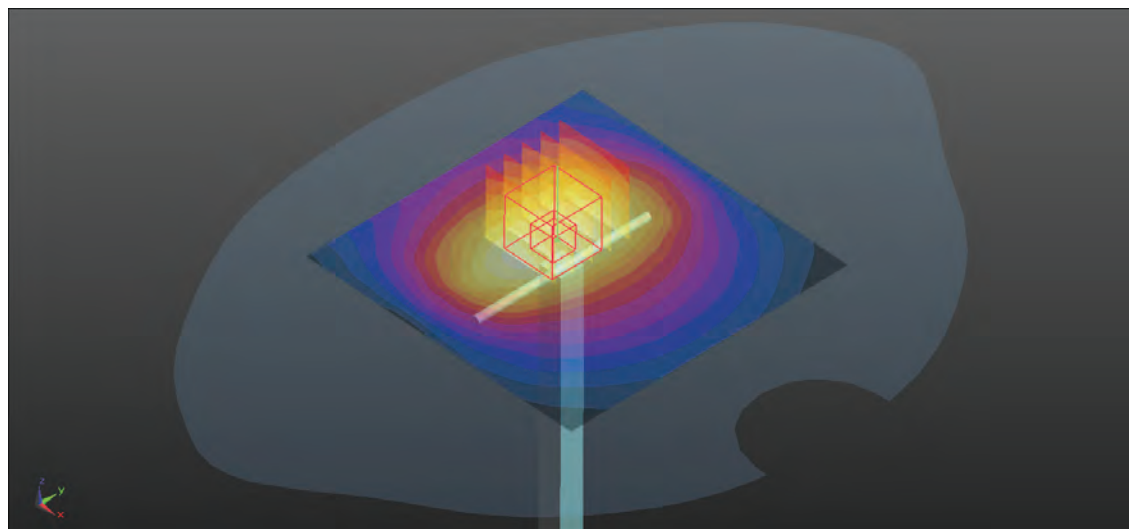
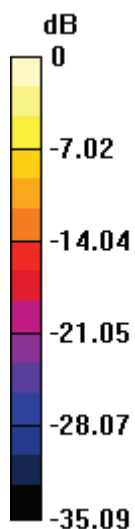
Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.32 W/kg; SAR(10 g) = 4.94 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 10.5 W/kg



0 dB = 10.5 W/kg

System Check_HSL1750_240516

DUT: Dipole 1750 MHz; Type: D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750_0516 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 40.115$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.56 V/m; Power Drift = 0.19 dB

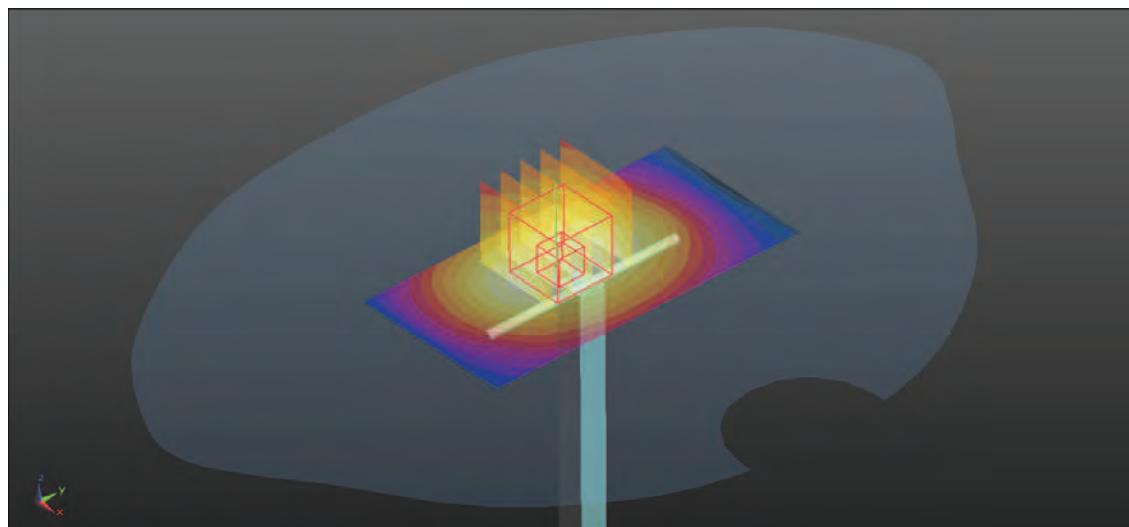
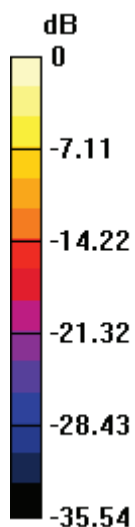
Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.92 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 10.36 W/kg



0 dB = 10.36 W/kg

System Check_HSL1900_240517

DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.443$ S/m; $\epsilon_r = 39.585$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1900 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.18 V/m; Power Drift = -0.12 dB

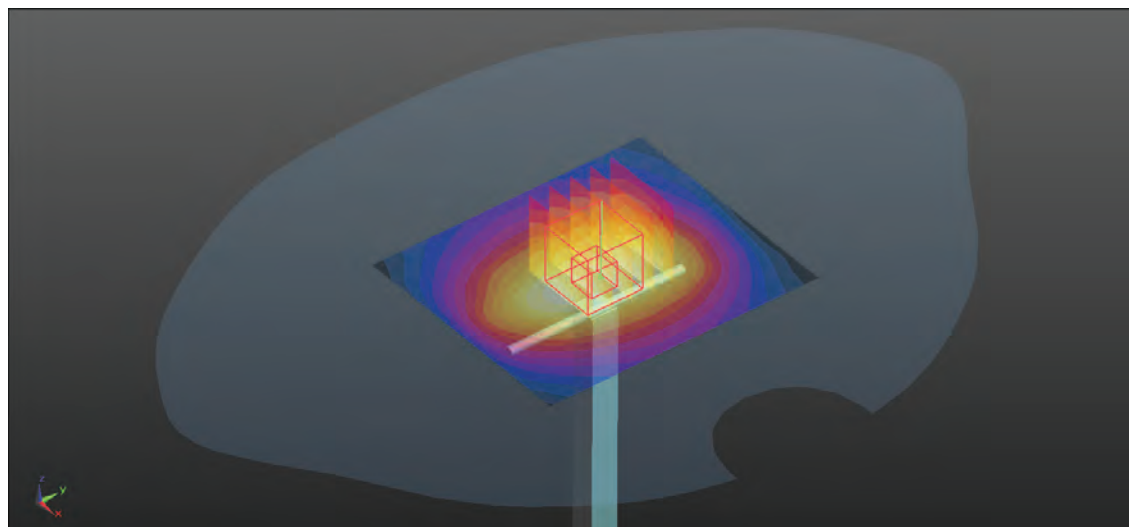
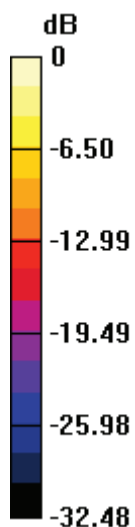
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.96 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 13.47 W/kg



0 dB = 13.47 W/kg

System Check_HSL1900_240518

DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 39.554$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1900 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.4 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.65 V/m; Power Drift = -0.14 dB

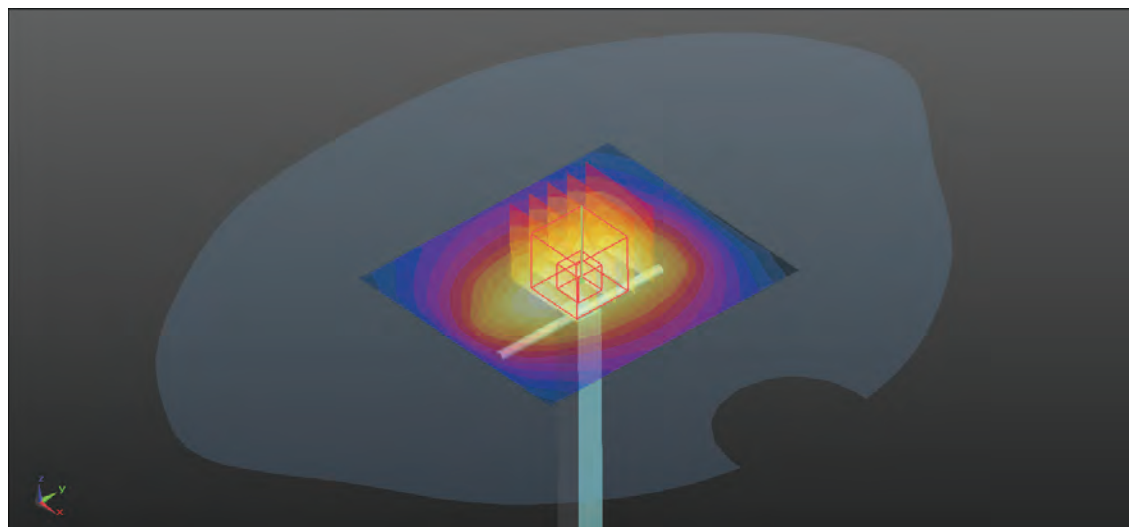
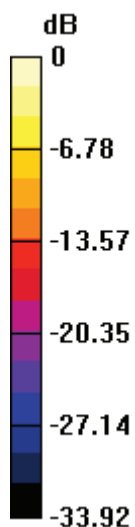
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.65 W/kg; SAR(10 g) = 5.07 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg

System Check_HSL2300_240519

DUT: Dipole 2300 MHz; Type: D2300V3

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL2300_0519 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.729$ S/m; $\epsilon_r = 39.819$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.54, 7.67, 7.54) @ 2300 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.02 V/m; Power Drift = -0.15 dB

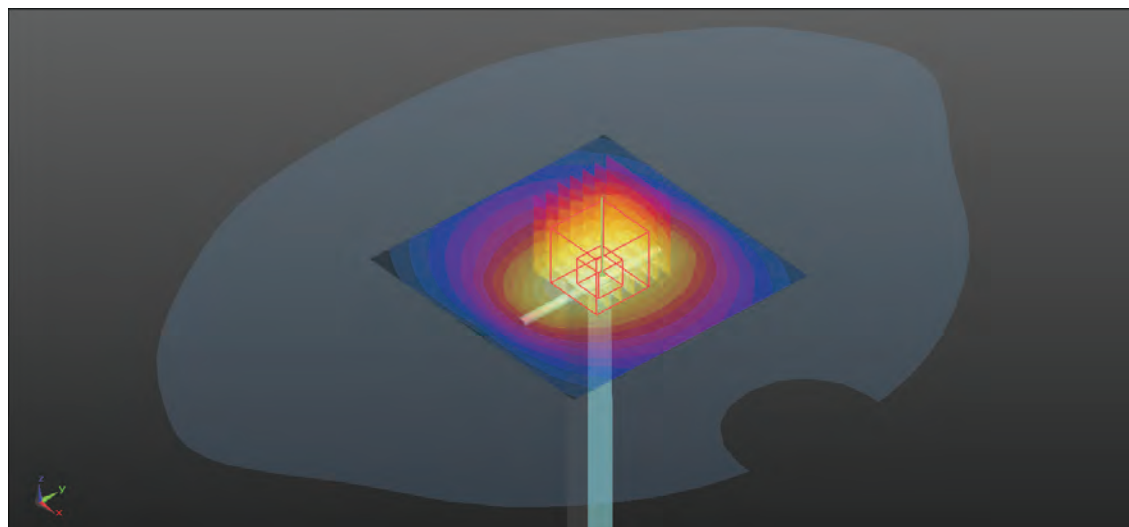
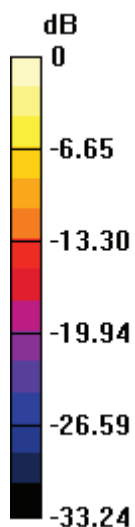
Peak SAR (extrapolated) = 24.9 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.87 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg

System Check_HSL2450_240325

DUT: Dipole 2450 MHz; Type: D2450V2

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450_0325 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 39.606$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2450 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 14.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.41 V/m; Power Drift = -0.02 dB

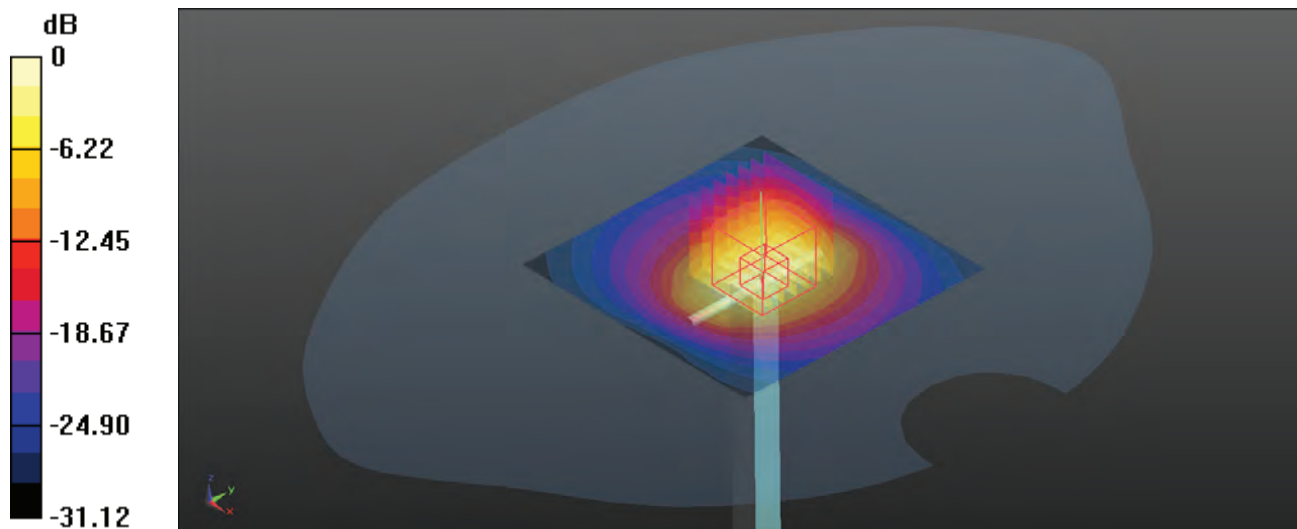
Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.65 W/kg; SAR(10 g) = 5.76 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg

System Check_HSL2450_240421

DUT: Dipole 2450 MHz; Type: D2450V2

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450_0421 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.875$ S/m; $\epsilon_r = 39.563$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2450 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 15.1 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.38 V/m; Power Drift = -0.02 dB

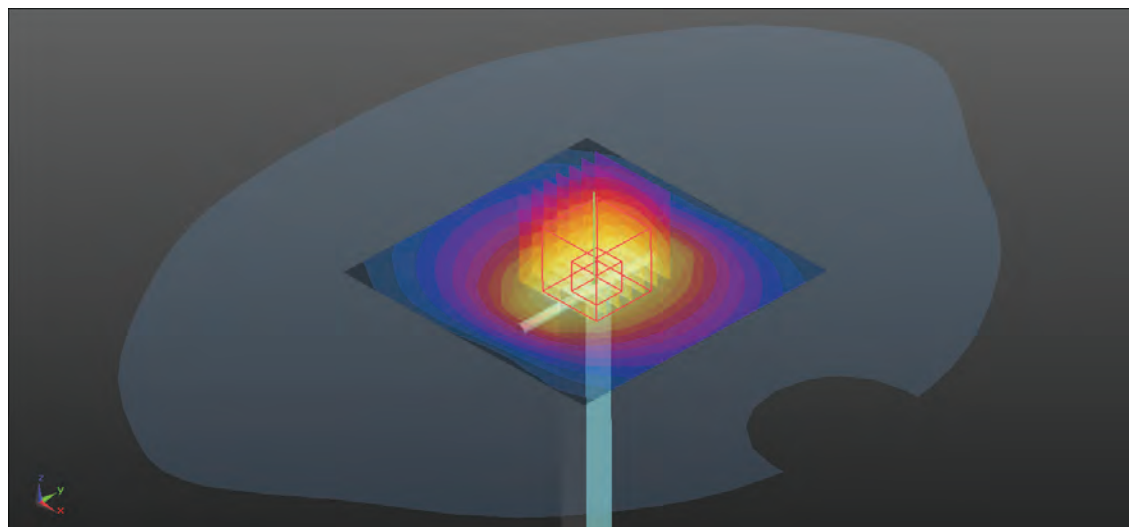
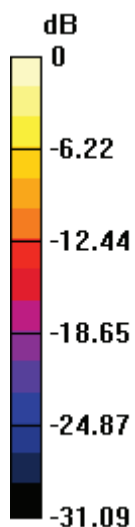
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.1 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg

System Check_HSL2600_240502

DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0502 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 39.321$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.94 V/m; Power Drift = -0.09 dB

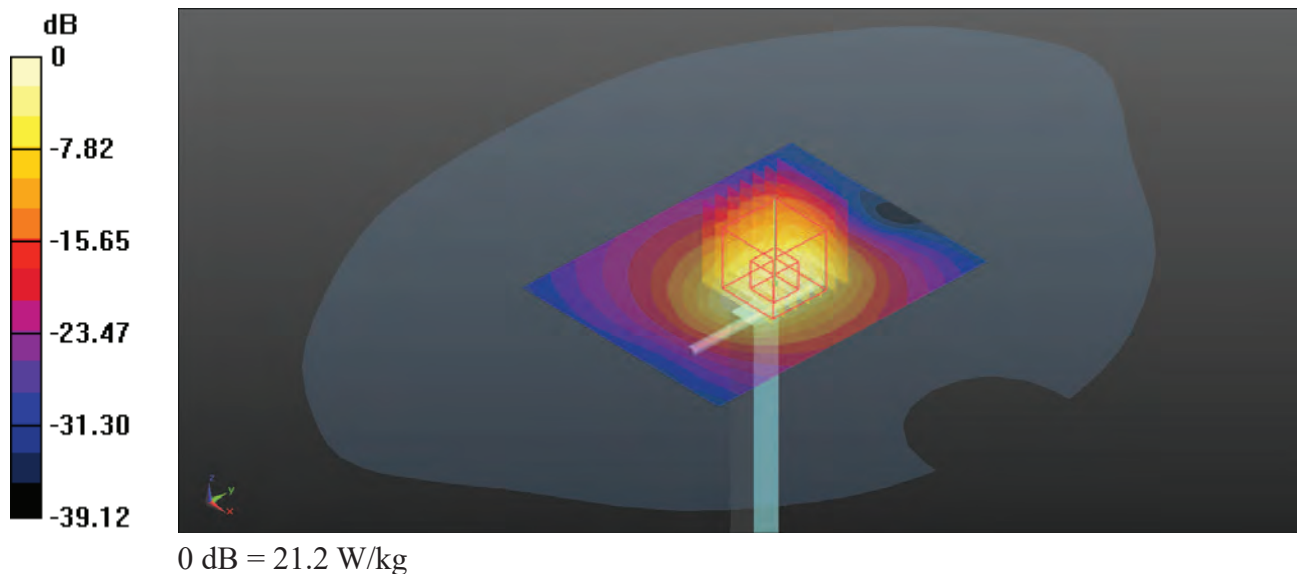
Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.31 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 48.8%

Maximum value of SAR (measured) = 21.2 W/kg



System Check_HSL2600_240503

DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0503 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.023$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.7 W/kg

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

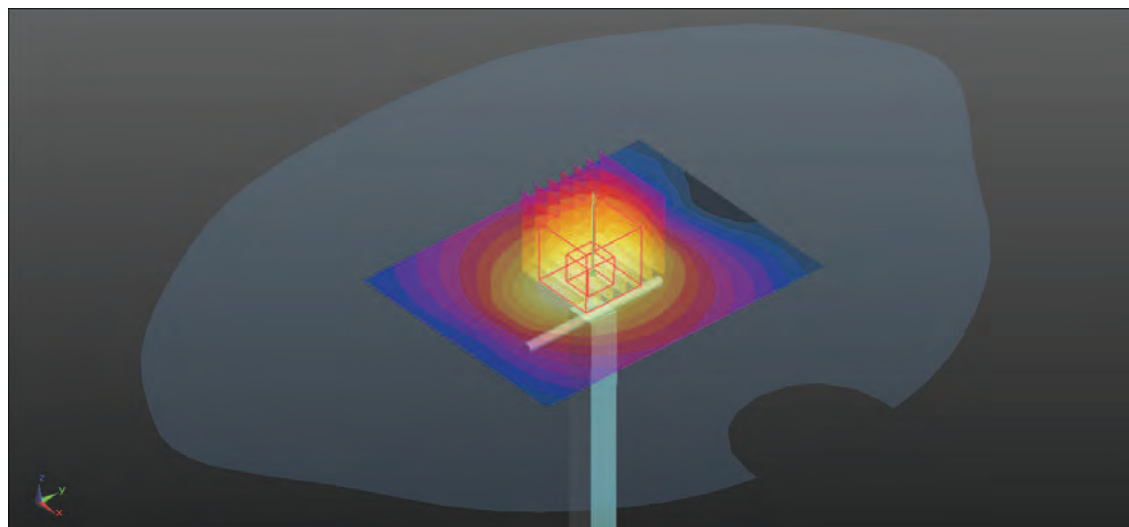
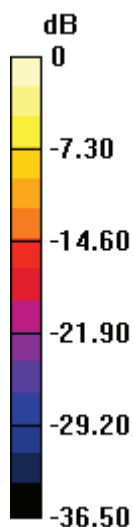
Peak SAR (extrapolated) = 25.0 W/kg

SAR(1 g) = 14.35 W/kg; SAR(10 g) = 6.38 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg

System Check_HSL2600_240504

DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0504 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.037$ S/m; $\epsilon_r = 37.628$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.75 V/m; Power Drift = 0.09 dB

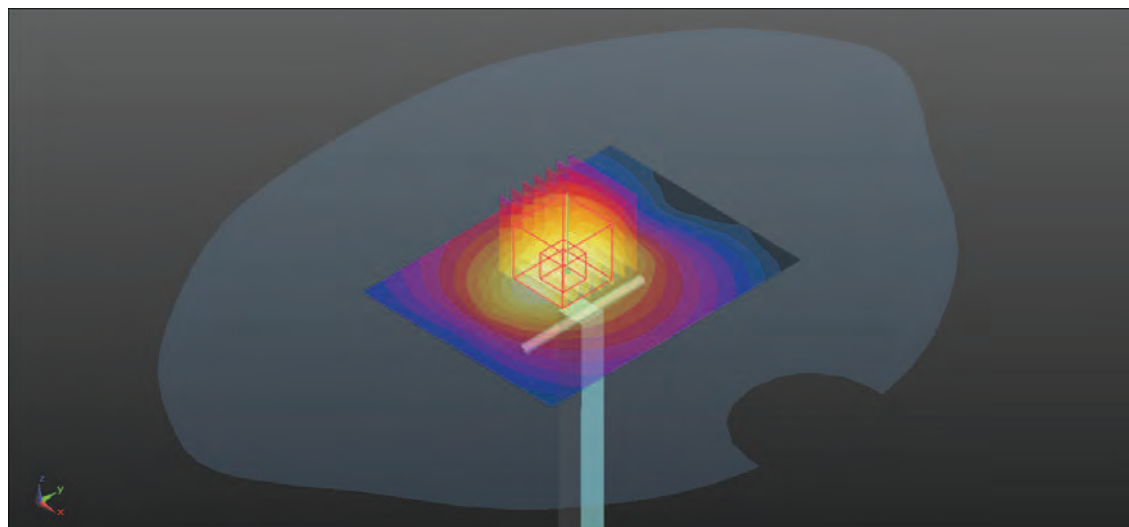
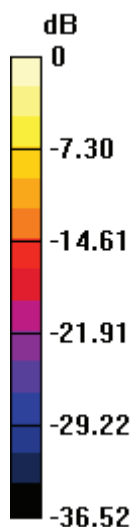
Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.39 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg

System Check_HSL2600_240505

DUT: Dipole 2600 MHz; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_0505 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.005$ S/m; $\epsilon_r = 39.319$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.25 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.75 V/m; Power Drift = 0.09 dB

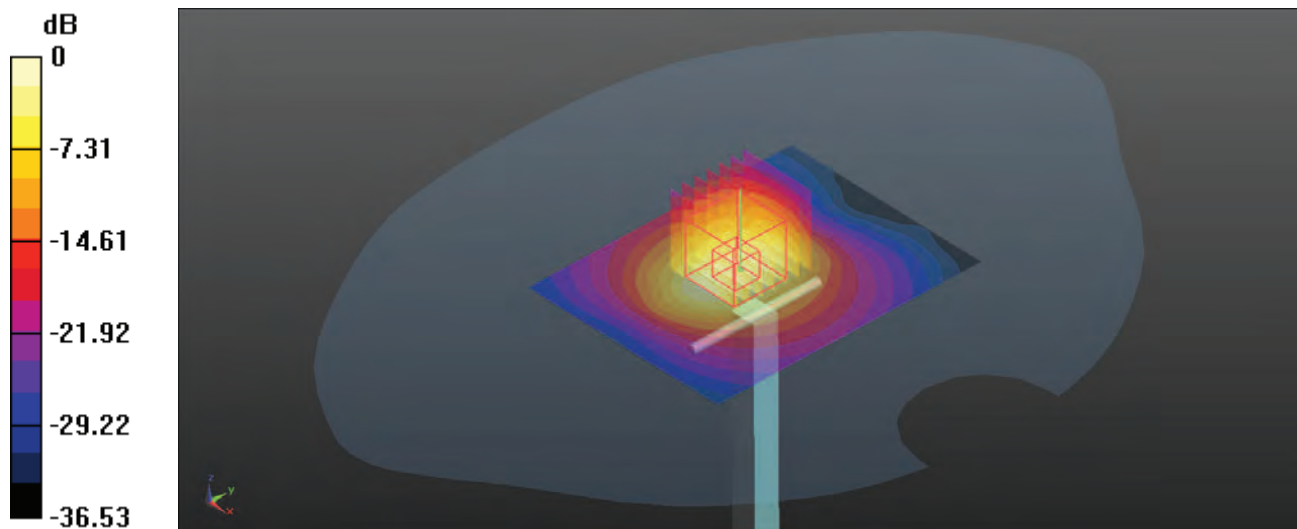
Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 14.27 W/kg; SAR(10 g) = 6.28 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 21.24 W/kg



0 dB = 21.24 W/kg

System Check_HSL3500_240511

DUT: Dipole 3500 MHz; Type: D3500V2

Communication System: CW; Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL3500_0511 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.821$ S/m; $\epsilon_r = 39.687$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.7, 6.61, 6.72) @ 3500 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (41x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.15 W/kg

Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.01 V/m; Power Drift = 0.03 dB

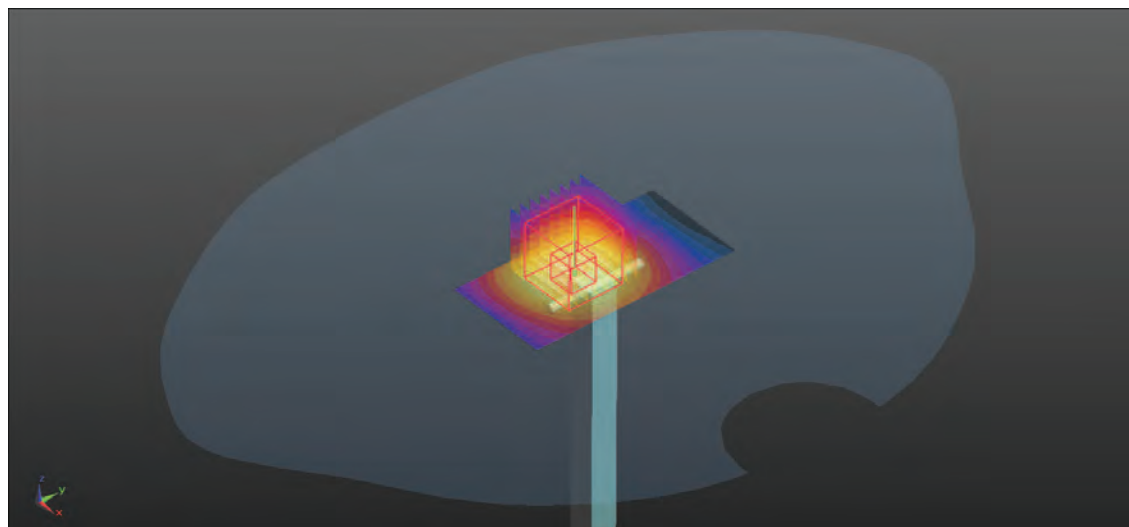
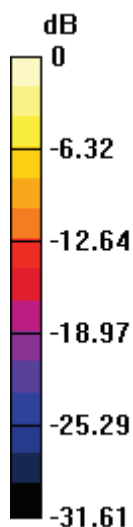
Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 6.58 W/kg; SAR(10 g) = 2.42 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 76.8%

Maximum value of SAR (measured) = 8.43 W/kg



0 dB = 8.43 W/kg

System Check_HSL3700_240512

DUT: Dipole 3700 MHz; Type: D3700V2

Communication System: CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: HSL3700_0512 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.09$ S/m; $\epsilon_r = 39.366$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.61, 6.52, 6.63) @ 3700 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 46.23 V/m; Power Drift = 0.01 dB

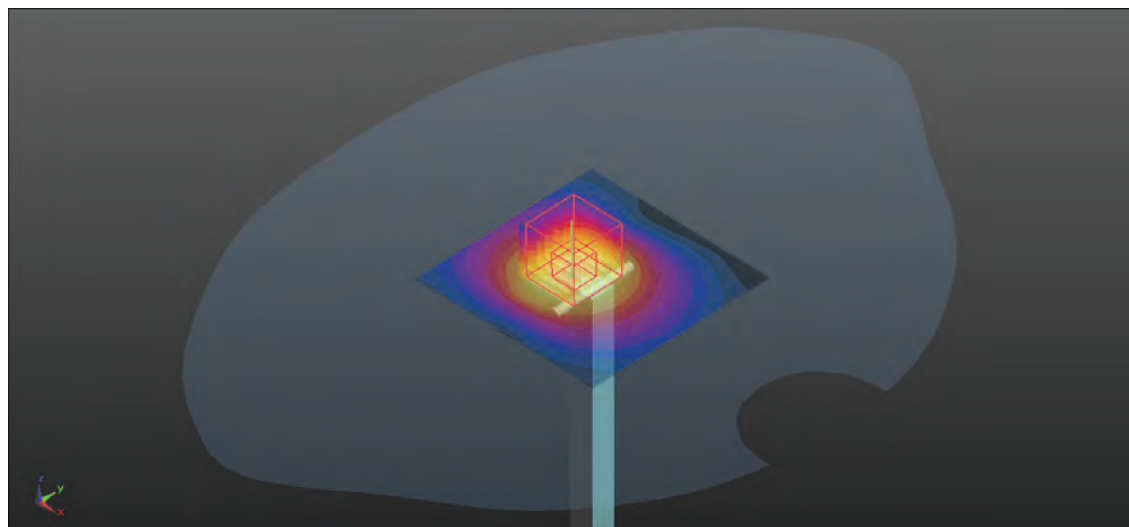
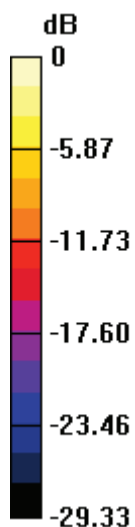
Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 6.57 W/kg; SAR(10 g) = 2.46 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

System Check_HSL3900_240513

DUT: Dipole 3900 MHz; Type: D5GHzV2

Communication System: CW; Frequency: 3900 MHz; Duty Cycle: 1:1

Medium: HSL3900_0513 Medium parameters used: $f = 3900$ MHz; $\sigma = 3.213$ S/m; $\epsilon_r = 39.07$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.5, 6.41, 6.52) @ 3900 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 43.88 V/m; Power Drift = 0.13 dB

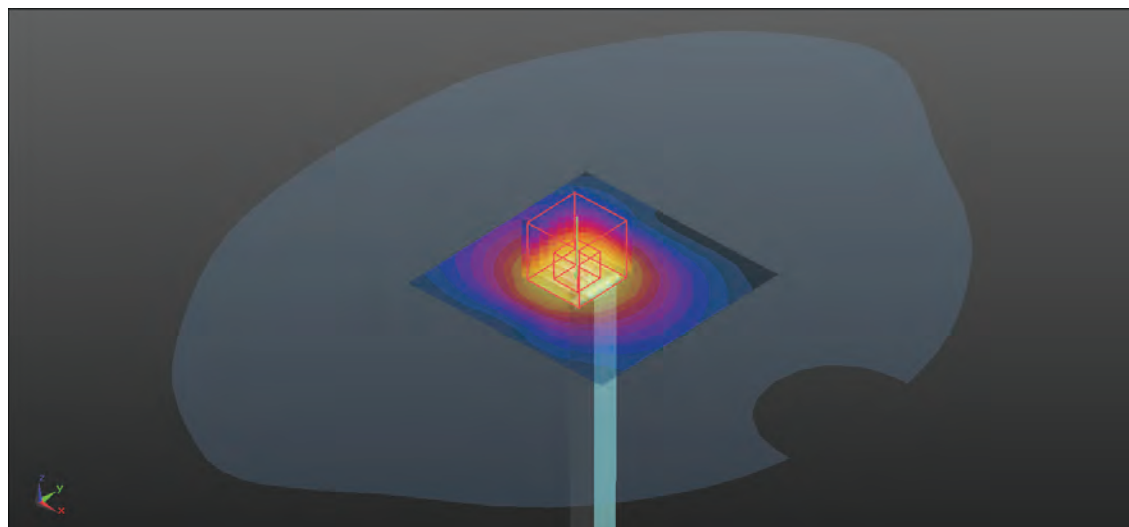
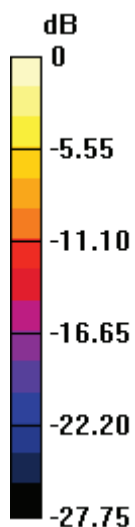
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 6.67 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg

System Check_HSL5250_240422

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G_0422 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.63$ S/m; $\epsilon_r = 36.196$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 5250 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.9 W/kg

Pin=100mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 36.06 V/m; Power Drift = 0.03 dB

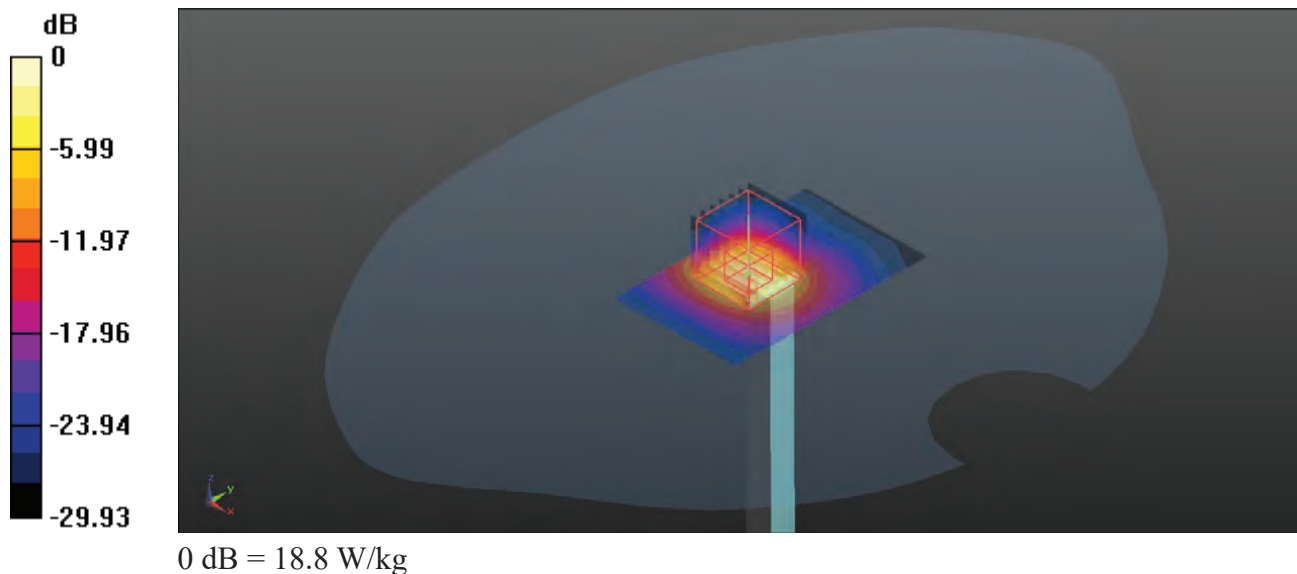
Peak SAR (extrapolated) = 31.5 W/kg

SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 18.8 W/kg



System Check_HSL5250_240423

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G_0423 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.564$ S/m; $\epsilon_r = 36.353$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 5250 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.1 W/kg

Pin=100mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 35.12 V/m; Power Drift = 0.09 dB

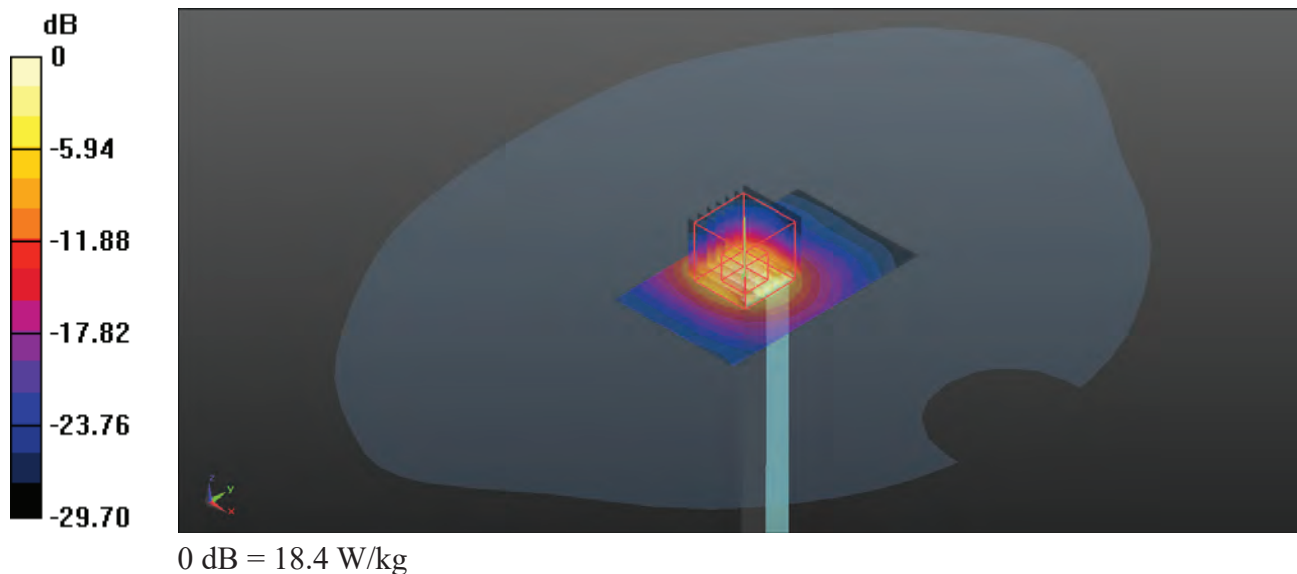
Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.23 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 18.4 W/kg



System Check_HSL5600_240425

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G_0425 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.91$ S/m; $\epsilon_r = 34.587$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.65, 4.62, 4.65) @ 5600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.6 W/kg

Pin=100mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 32.57 V/m; Power Drift = 0.06 dB

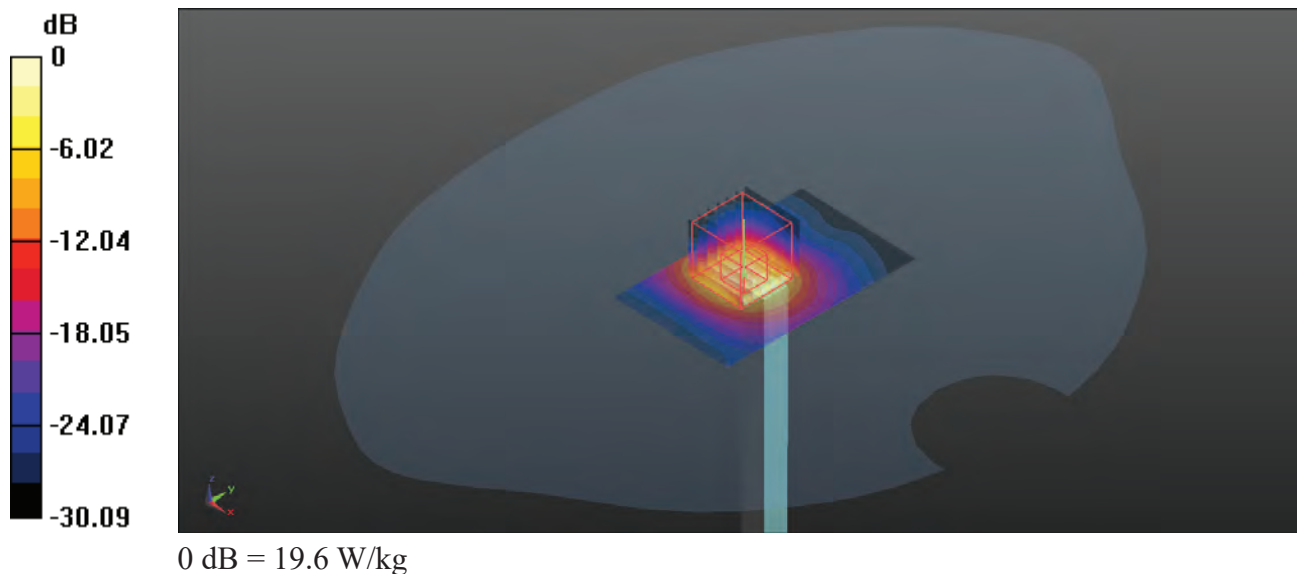
Peak SAR (extrapolated) = 32.2 W/kg

SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 19.6 W/kg



System Check_HSL5600_240426

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G_0426 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.016$ S/m; $\epsilon_r = 35.686$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.65, 4.62, 4.65) @ 5600 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 21.2 W/kg

Pin=100mW/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 33.01 V/m; Power Drift = 0.11 dB

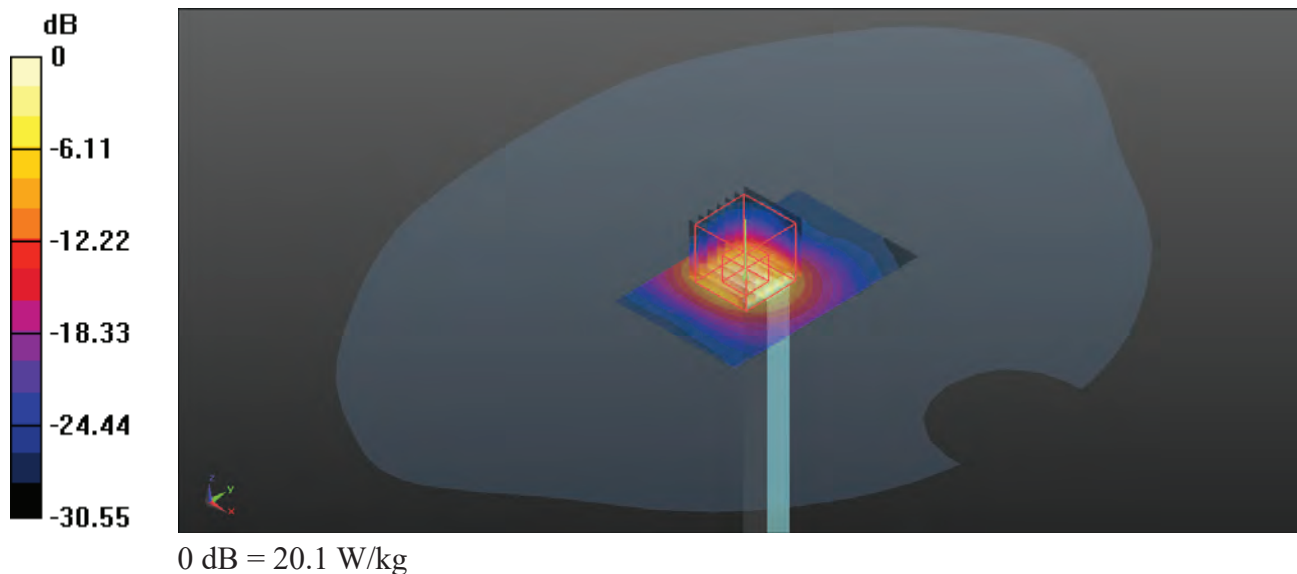
Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 20.1 W/kg



System Check_HSL5750_240428

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G_0428 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.094$ S/m; $\epsilon_r = 34.213$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.59, 4.56, 4.63) @ 5750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 32.21 V/m; Power Drift = 0.05 dB

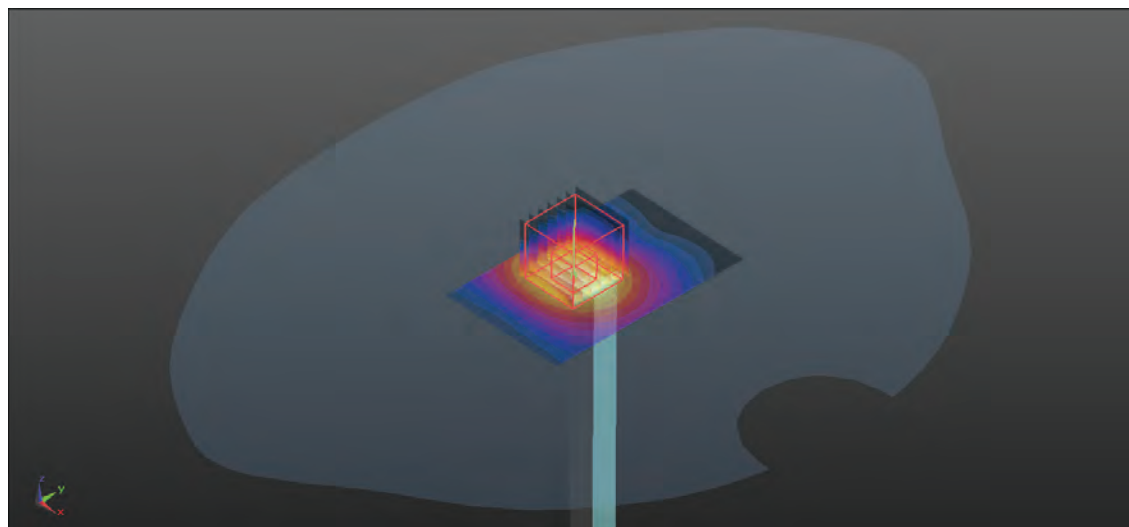
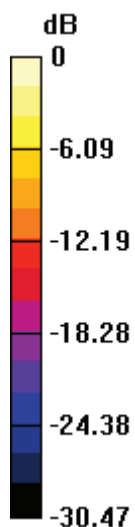
Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 7.39 W/kg; SAR(10 g) = 2.11 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg

System Check_HSL5750_240429

DUT: Dipole 5GHz; Type: D5GHzV2

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G_0429 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.256$ S/m; $\epsilon_r = 36.344$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.59, 4.56, 4.63) @ 5750 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (51x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 22.1 W/kg

Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 33.22 V/m; Power Drift = 0.12 dB

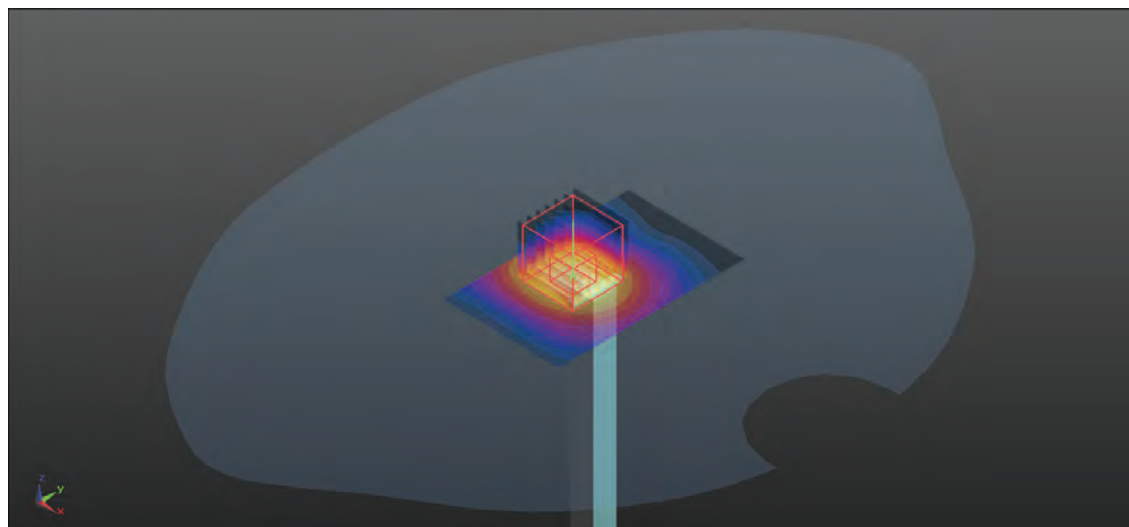
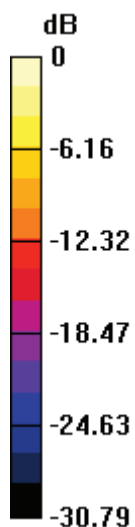
Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 7.55 W/kg; SAR(10 g) = 2.15 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg



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Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 LTE 2_QPSK20M_Right Cheek_Ch18700_1RB_OS99_Ant2

Communication System: LTE_FDD; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.643$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.14 W/kg

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

Reference Value = 3.375 V/m; Power Drift = 0.16 dB

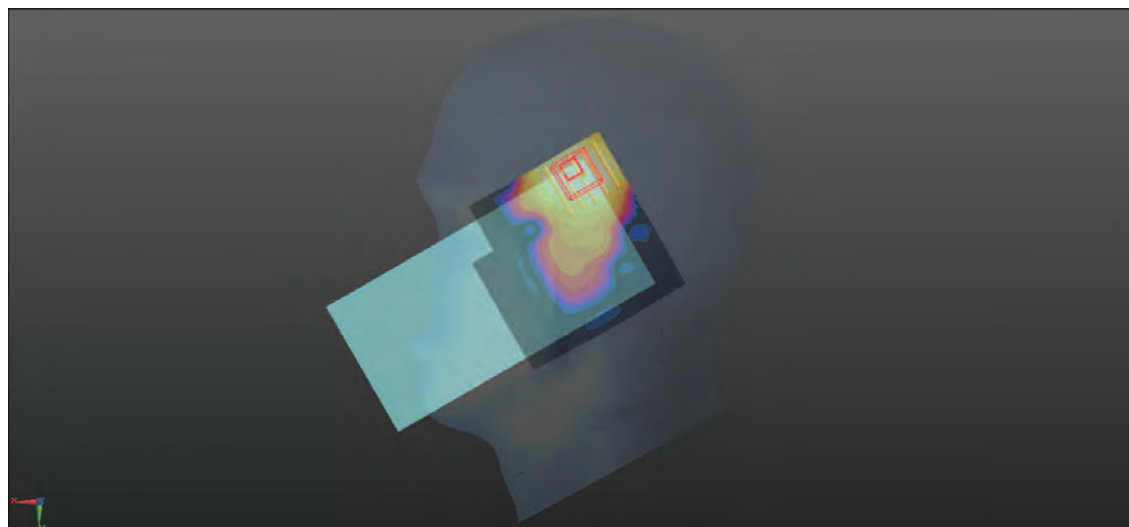
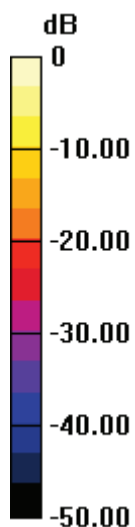
Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.356 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.2%

Maximum value of SAR (measured) = 0.949 W/kg



0 dB = 0.949 W/kg

P02 LTE 5_QPSK10M_Right Cheek_Ch20600_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.93 \text{ S/m}$; $\epsilon_r = 41.986$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6°C ; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 844 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.203 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.729 V/m ; Power Drift = -0.06 dB

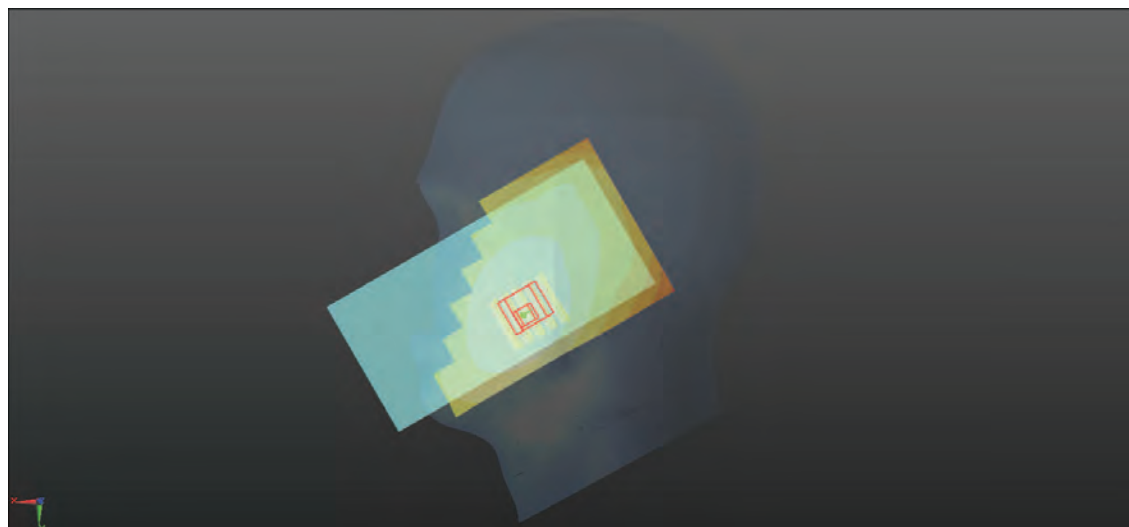
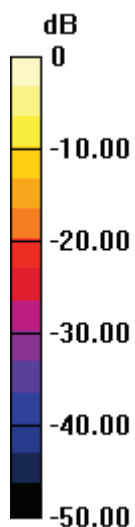
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.185 W/kg ; SAR(10 g) = 0.141 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 79.2%

Maximum value of SAR (measured) = 0.203 W/kg



0 dB = 0.203 W/kg

P03 LTE 7_QPSK20M_Right Cheek_Ch20850_1RB_OS50_Ant2

Communication System: LTE_FDD; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0502 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.929$ S/m; $\epsilon_r = 39.532$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2510 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 4.080 V/m; Power Drift = -0.04 dB

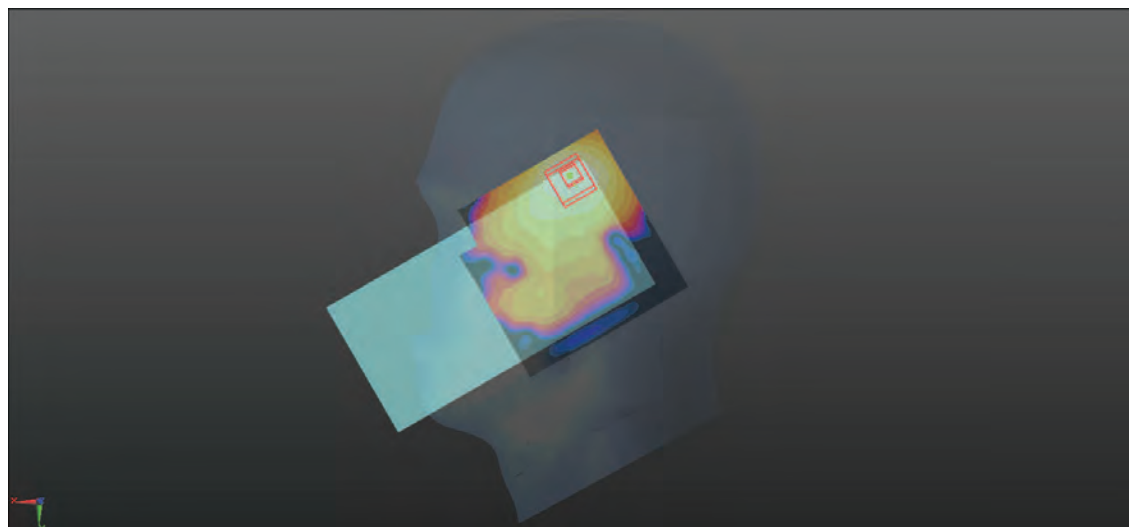
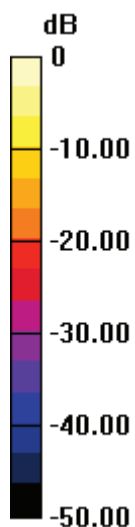
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.406 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

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



0 dB = 1.48 W/kg

P04 LTE 12_QPSK10M_Right Cheek_Ch23130_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.896 \text{ S/m}$; $\epsilon_r = 42.959$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 711 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.130 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.828 V/m; Power Drift = 0.03 dB

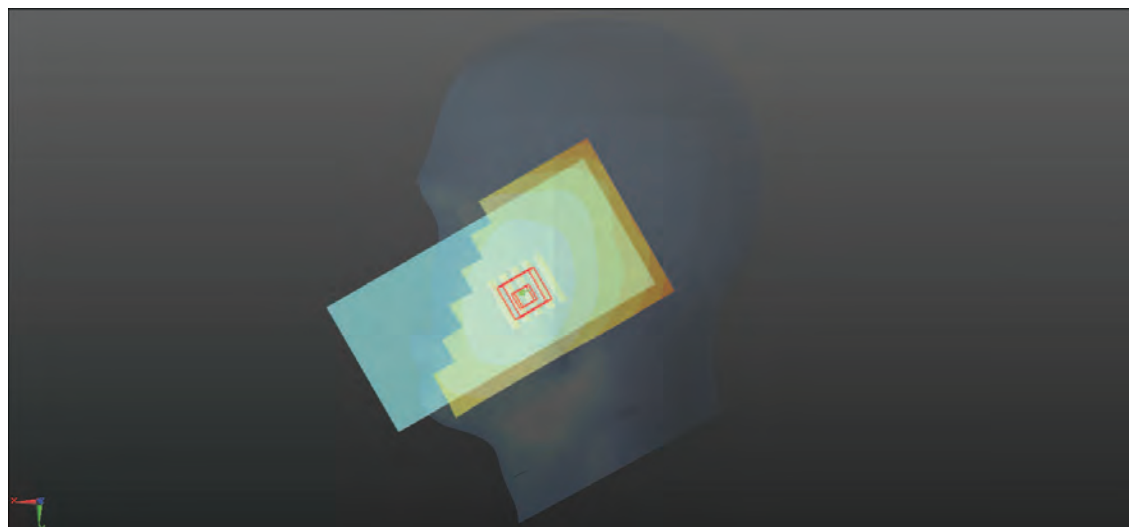
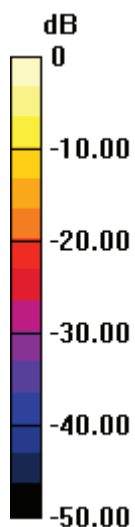
Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.096 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 83%

Maximum value of SAR (measured) = 0.133 W/kg



0 dB = 0.133 W/kg

P05 LTE 13_QPSK10M_Right Cheek_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 42.729$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.214 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.368 V/m; Power Drift = 0.12 dB

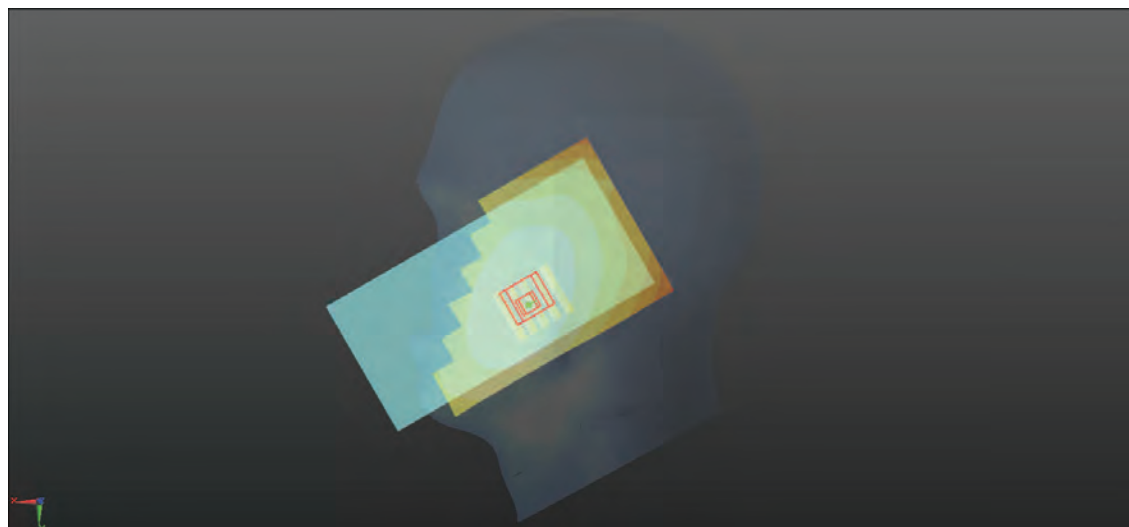
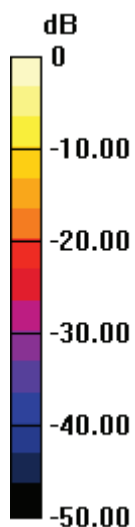
Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.149 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 80.6%

Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg

P06 LTE 14_QPSK10M_Right Cheek_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: HSL750_0325 Medium parameters used: $f = 793$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 43.26$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.222 W/kg

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

Reference Value = 4.382 V/m; Power Drift = 0.03 dB

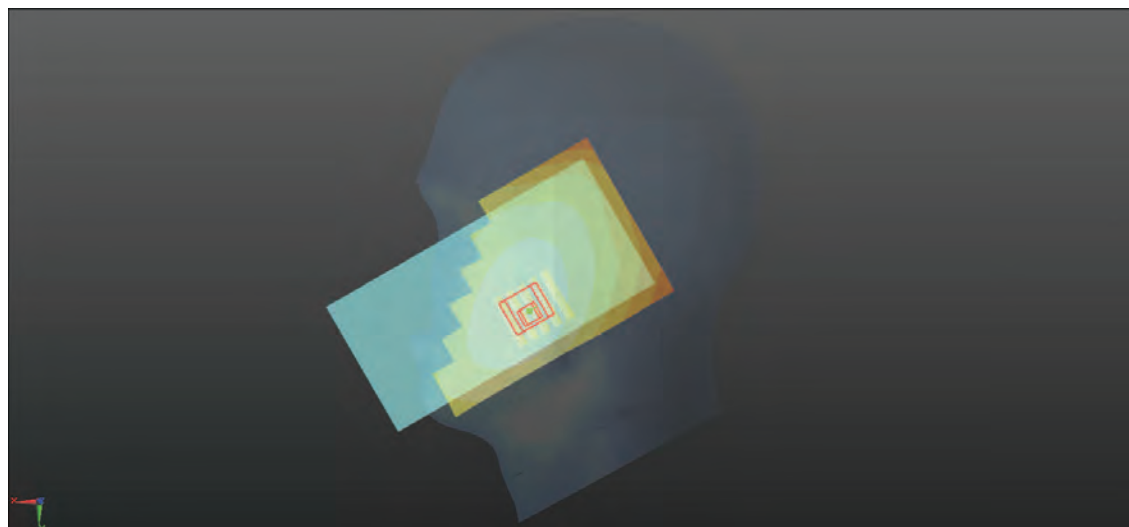
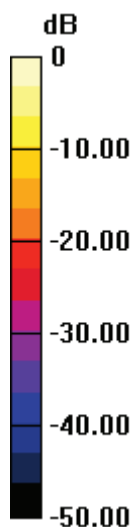
Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.145 W/kg

Smallest distance from peaks to all points 3 dB below = 19.8 mm

Ratio of SAR at M2 to SAR at M1 = 78.8%

Maximum value of SAR (measured) = 0.217 W/kg



0 dB = 0.217 W/kg

P07 LTE 25_QPSK20M_Left Cheek_Ch26590_1RB_OS50_Ant0

Communication System: LTE_FDD; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 39.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 1905 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.471 W/kg

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

Reference Value = 5.122 V/m; Power Drift = -0.11 dB

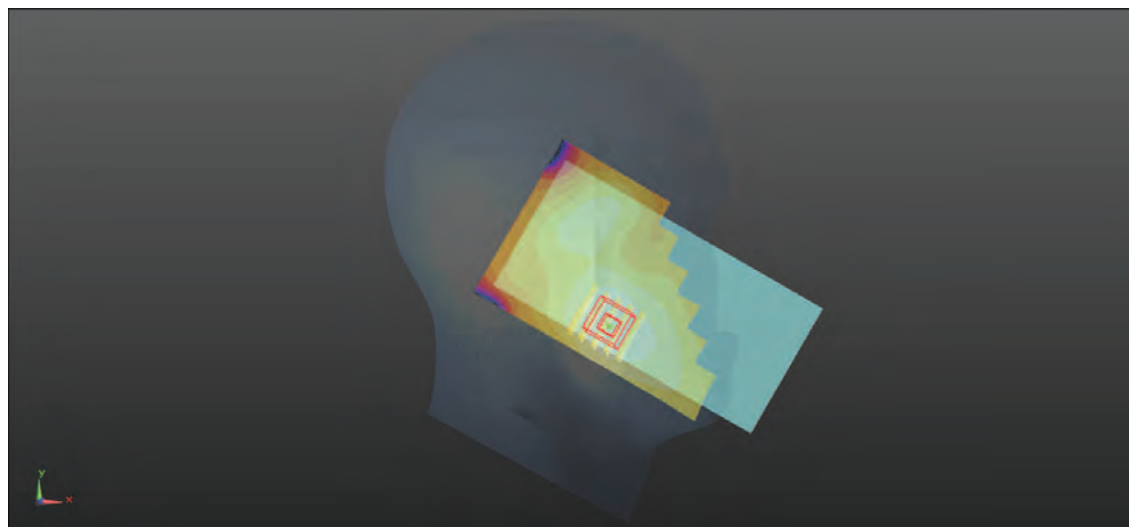
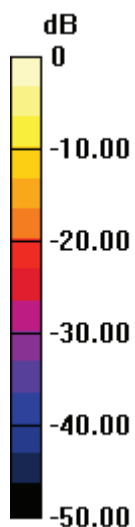
Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.243 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg

P08 LTE 26_QPSK15M_Right Cheek_Ch26965_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0505 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 43.441$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 841.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.210 W/kg

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

Reference Value = 5.458 V/m; Power Drift = 0.08 dB

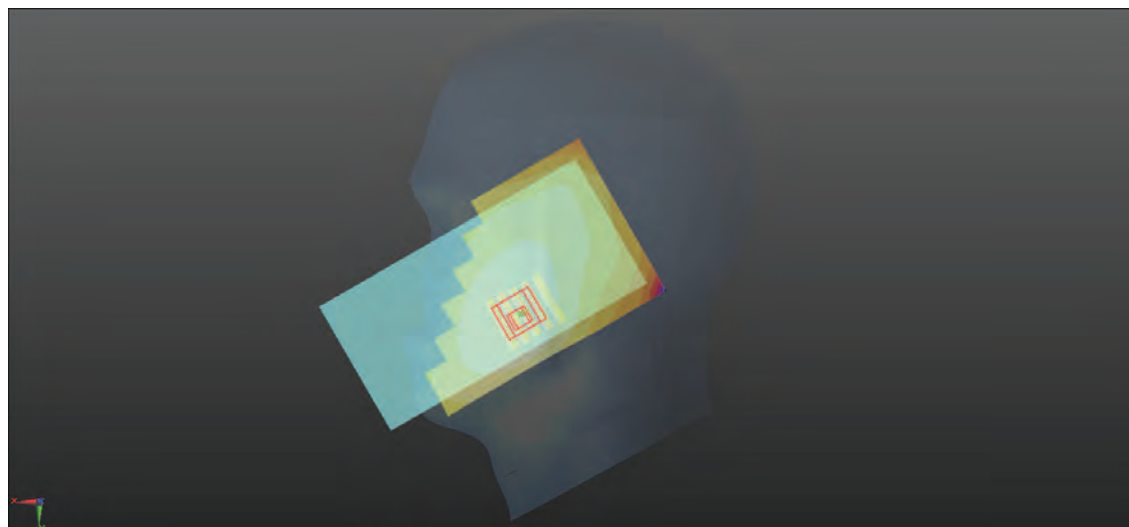
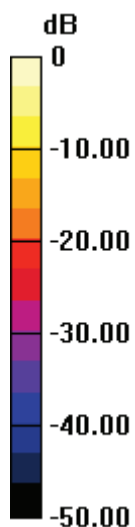
Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.149 W/kg

Smallest distance from peaks to all points 3 dB below = 22.1 mm

Ratio of SAR at M2 to SAR at M1 = 79.3%

Maximum value of SAR (measured) = 0.208 W/kg



0 dB = 0.208 W/kg

P09 LTE 30_QPSK10M_Right Cheek_Ch27710_1RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL2300_0519 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.736$ S/m; $\epsilon_r = 39.806$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 3.625 V/m; Power Drift = -0.03 dB

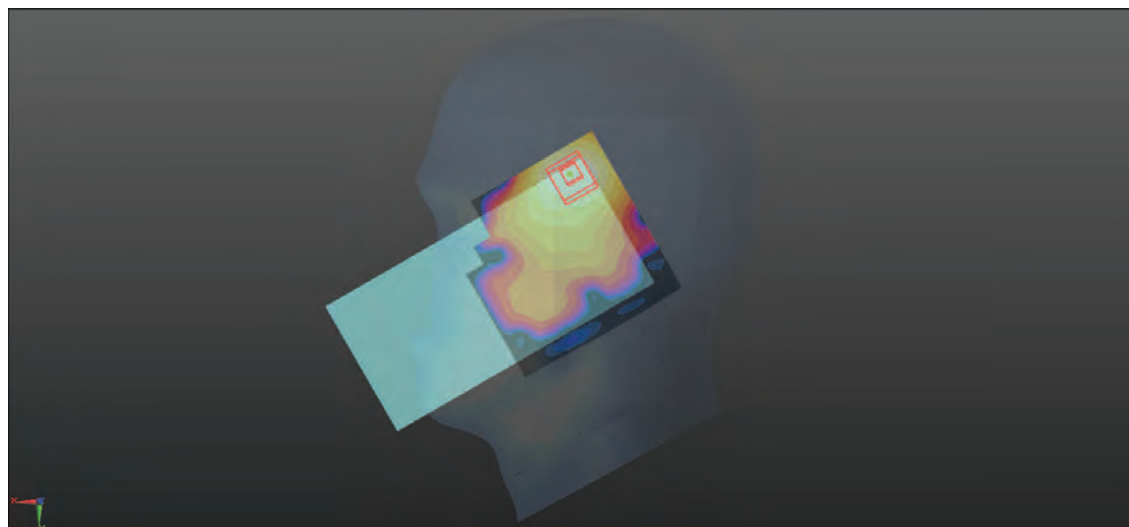
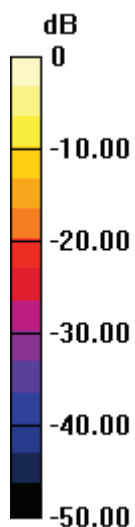
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.904 W/kg; SAR(10 g) = 0.438 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg

P10 LTE 41_QPSK20M_Left Cheek_Ch41055_1RB_OS0_Ant0

Communication System: LTE_TDD; Frequency: 2636.5 MHz; Duty Cycle: 1:2.33

Medium: HSL2600_0503 Medium parameters used: $f = 2636.5$ MHz; $\sigma = 1.952$ S/m; $\epsilon_r = 38.95$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2636.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.321 W/kg

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

Reference Value = 3.135 V/m; Power Drift = 0.05 dB

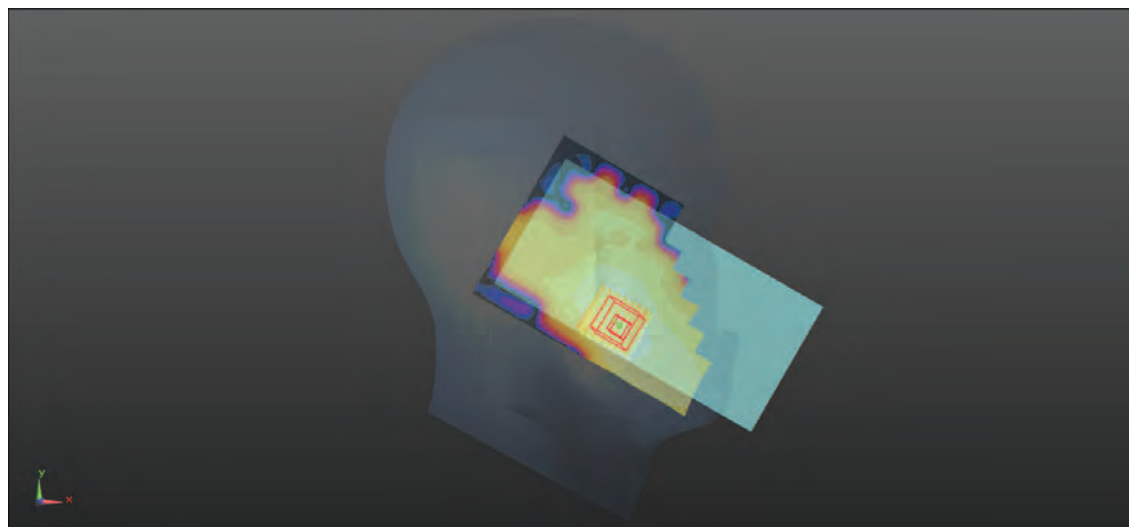
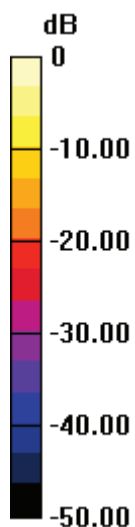
Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg

P11 LTE 66_QPSK20M_Right Cheek_Ch132572_50RB_OS25_Ant2

Communication System: LTE_FDD; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_0515 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.789$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.1) @ 1770 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.966 W/kg

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

Reference Value = 4.542 V/m; Power Drift = -0.09 dB

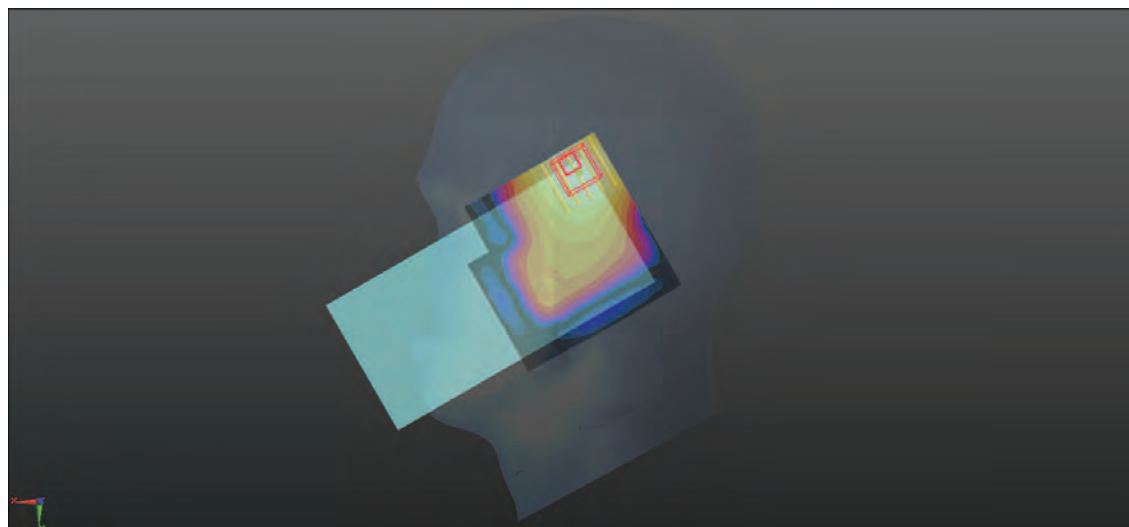
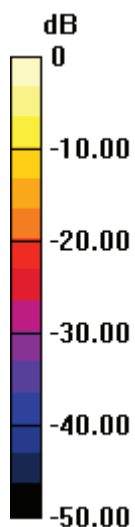
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.329 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 44.8%

Maximum value of SAR (measured) = 0.919 W/kg



0 dB = 0.919 W/kg

P12 LTE 71_QPSK20M_Left Cheek_Ch133222_1RB_OS99_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 43.045$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.143 W/kg

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

Reference Value = 3.332 V/m; Power Drift = 0.06 dB

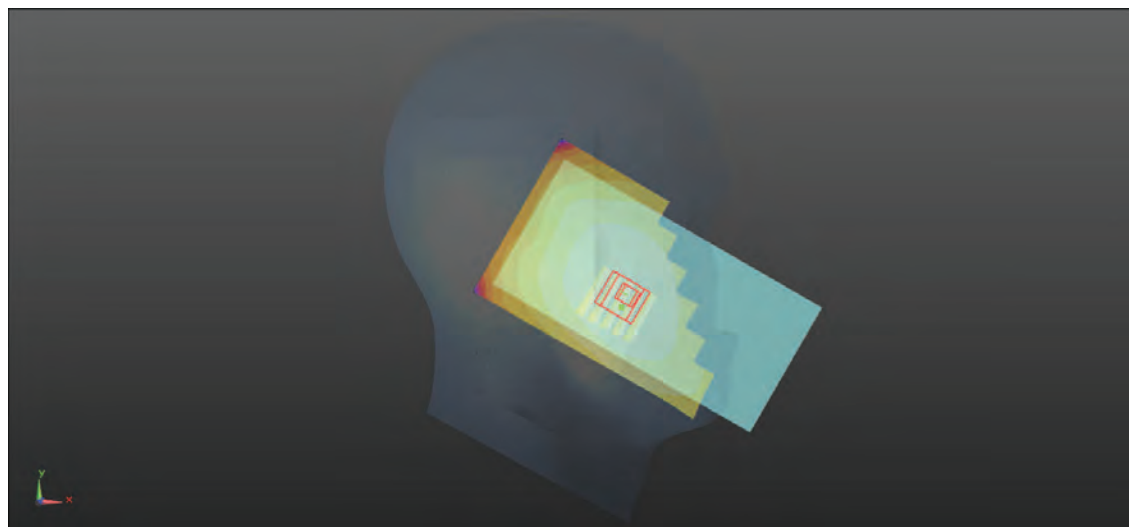
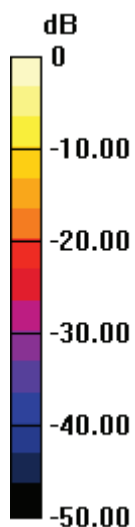
Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.103 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 83.7%

Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.149 W/kg

P13 N2_QPSK20M SCS15KHz_Right Cheek_Ch372000_50RB_OS28_Ant2

Communication System: NR; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.645$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.05 W/kg

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

Reference Value = 3.345 V/m; Power Drift = 0.01 dB

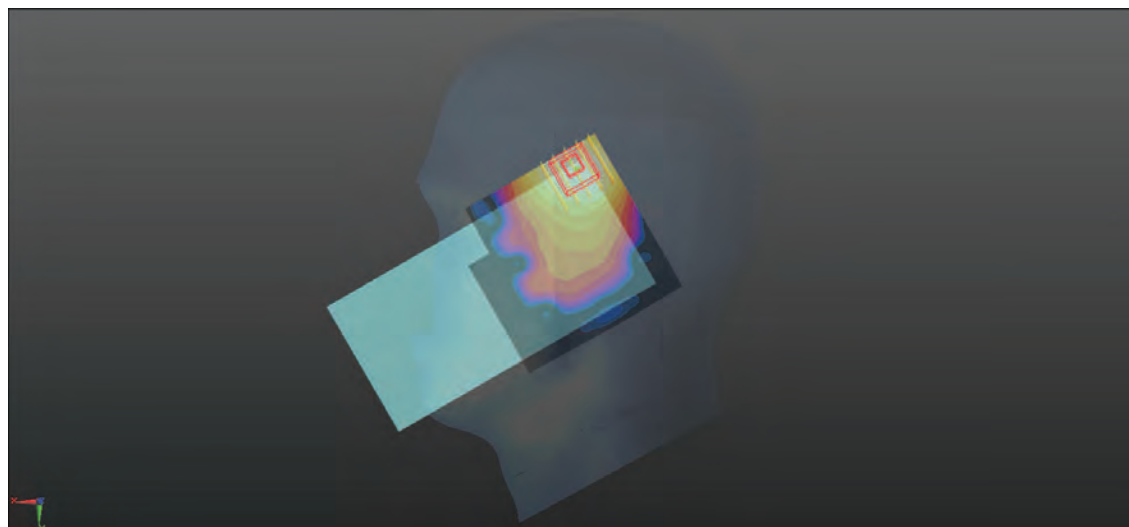
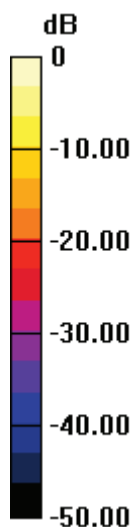
Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.366 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.886 W/kg



0 dB = 0.886 W/kg

P14 N5_QPSK20M SCS15KHz_Right Cheek_Ch167300_1RB_OS1_Ant0

Communication System: NR; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 42.027$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 836.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.166 W/kg

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

Reference Value = 5.874 V/m; Power Drift = 0.12 dB

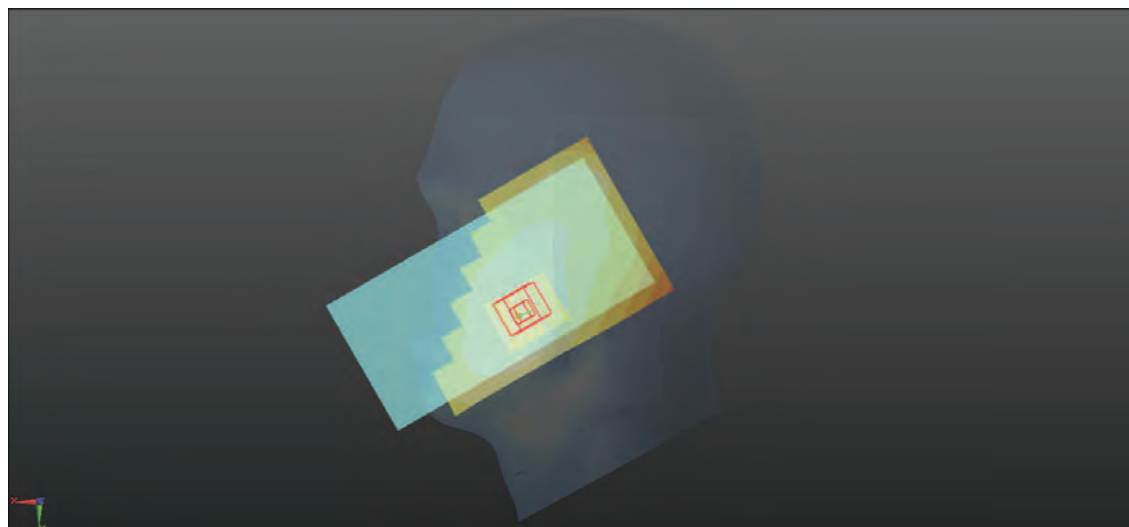
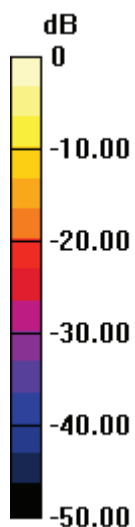
Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.115 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 80.2%

Maximum value of SAR (measured) = 0.166 W/kg



0 dB = 0.166 W/kg

P15 N25_QPSK20M SCS15KHz_Left Cheek_Ch376500_1RB_OS1_Ant0

Communication System: NR; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 39.608$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1882.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.351 W/kg

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

Reference Value = 3.759 V/m; Power Drift = 0.02 dB

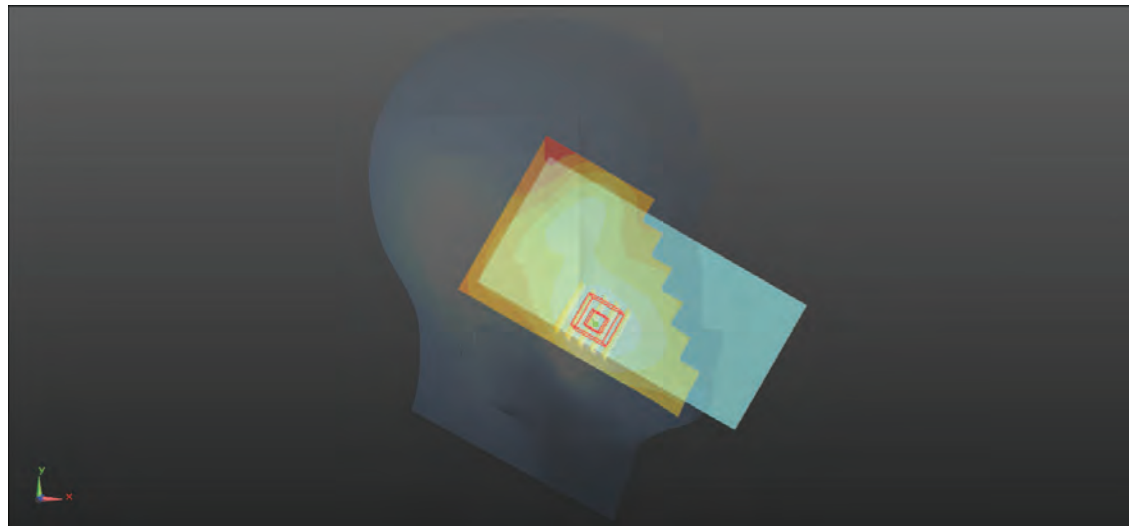
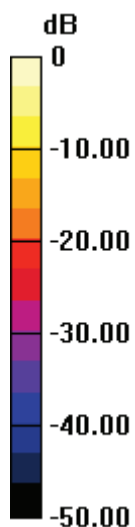
Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.181 W/kg

Smallest distance from peaks to all points 3 dB below = 14.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 0.342 W/kg



0 dB = 0.342 W/kg

P16 N41_QPSK100M SCS30KHz_Right Cheek_Ch509202_137RB_OS68_Ant0+2

Communication System: NR; Frequency: 2546.01 MHz; Duty Cycle: 1:0.5

Medium: HSL2600_0504 Medium parameters used: $f = 2546.01$ MHz; $\sigma = 1.96$ S/m; $\epsilon_r = 39.443$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2546.01 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

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

Reference Value = 3.790 V/m; Power Drift = -0.05 dB

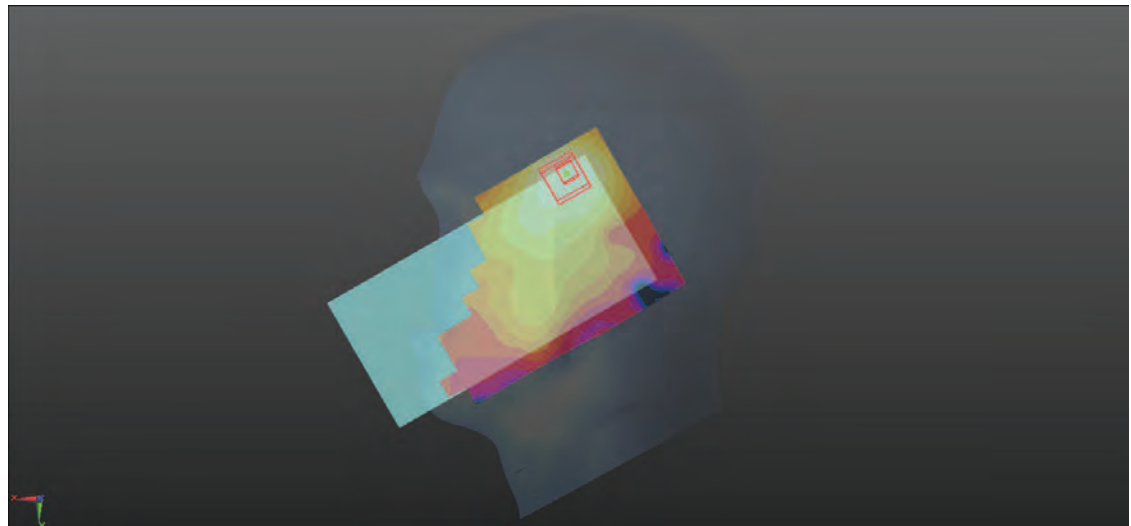
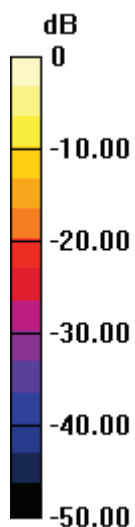
Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.384 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 0.981 W/kg



0 dB = 0.981 W/kg

P17 N66_QPSK30M SCS15KHz_Right Cheek_Ch353000_80RB_OS0_Ant2

Communication System: NR; Frequency: 1765 MHz; Duty Cycle: 1:1

Medium: HSL1750_0516 Medium parameters used: $f = 1765$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 39.805$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1765 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.907 W/kg

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

Reference Value = 4.951 V/m; Power Drift = 0.03 dB

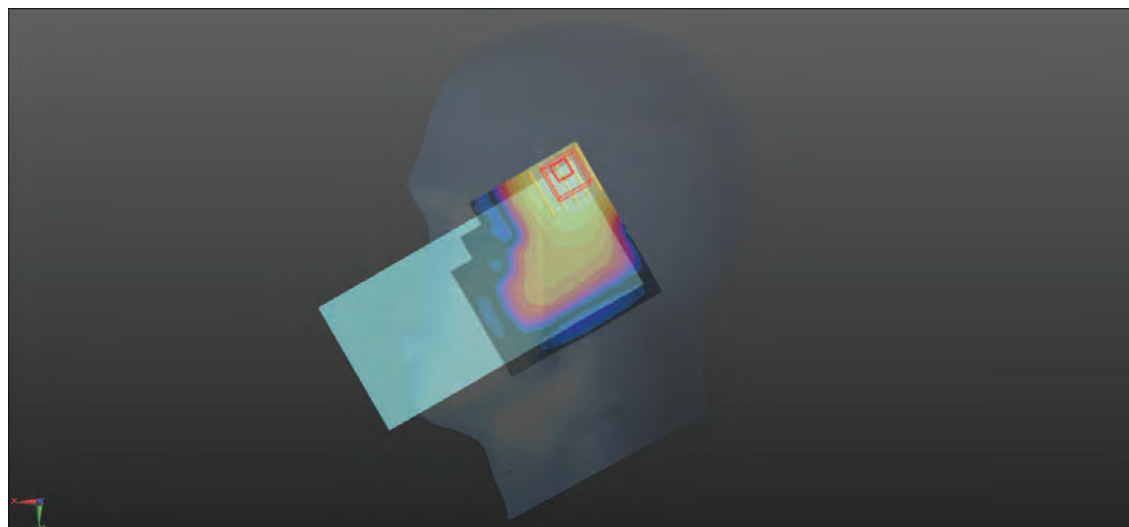
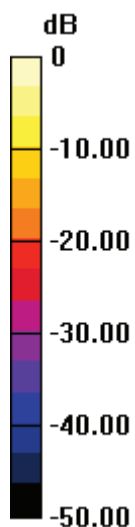
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.724 W/kg; SAR(10 g) = 0.357 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 45.3%

Maximum value of SAR (measured) = 0.971 W/kg



0 dB = 0.971 W/kg

P18 N71_QPSK20M SCS15KHz_Left Cheek_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673 \text{ MHz}$; $\sigma = 0.875 \text{ S/m}$; $\epsilon_r = 43.115$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.135 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.723 V/m; Power Drift = 0.06 dB

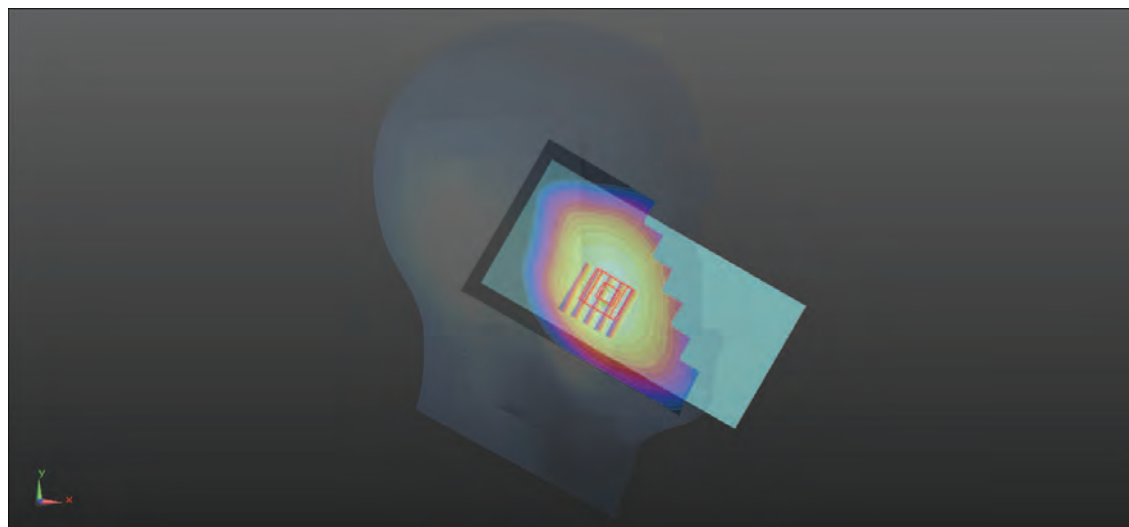
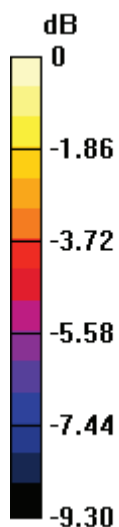
Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.093 W/kg

Smallest distance from peaks to all points 3 dB below = 25.7 mm

Ratio of SAR at M2 to SAR at M1 = 81.4%

Maximum value of SAR (measured) = 0.131 W/kg



0 dB = 0.131 W/kg

P19 N77_QPSK100M SCS30KHz_Right Cheek_Ch656000_1RB_OS1_Ant7

Communication System: NR; Frequency: 3840 MHz; Duty Cycle: 1:0.5

Medium: HSL3900_0513 Medium parameters used: $f = 3840$ MHz; $\sigma = 3.151$ S/m; $\epsilon_r = 39.131$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.5, 6.41, 6.52) @ 3840 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.64 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 2.758 V/m; Power Drift = 0.05 dB

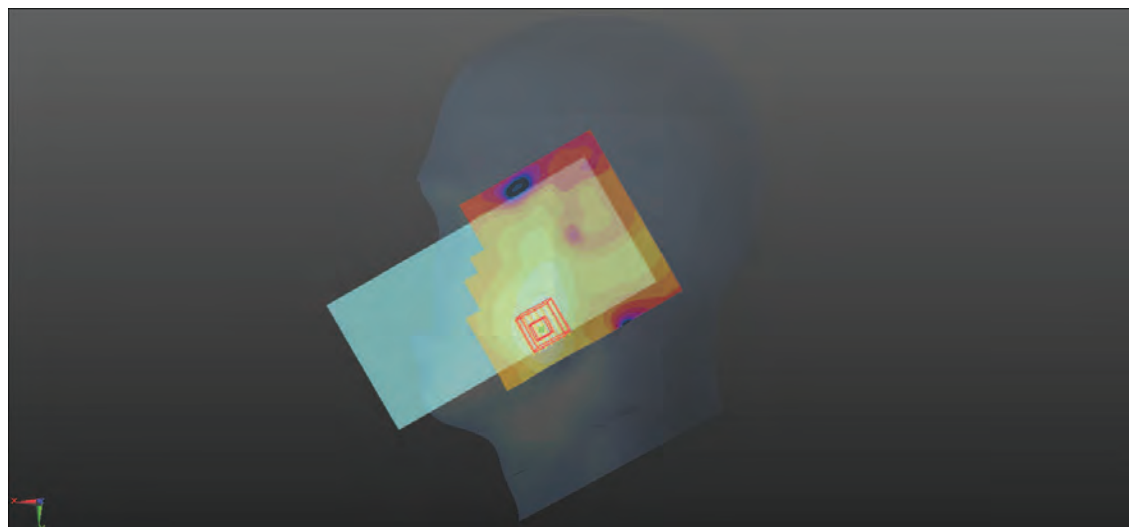
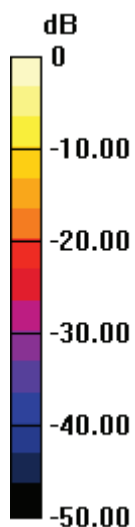
Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.404 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 69.3%

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg

P20 WLAN2.4G_802.11b_Left Cheek_Ch6_Ant6+8

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1.001

Medium: HSL2450_0421 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.588$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2437 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.368 W/kg

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

Reference Value = 6.313 V/m; Power Drift = -0.09 dB

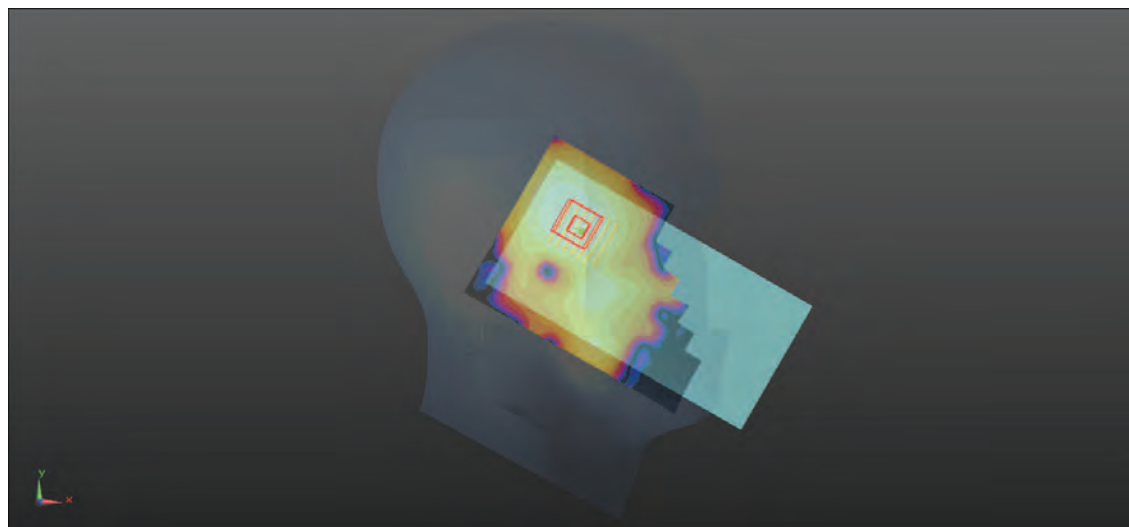
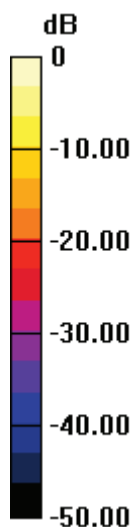
Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.172 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg

P21 WLAN5.3G_802.11ax_HE40_Left Cheek_Ch62_Ant6

Communication System: 802.11ax_HE40; Frequency: 5300 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0422 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.662$ S/m; $\epsilon_r = 36.086$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 5300 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.406 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.328 V/m; Power Drift = -0.01 dB

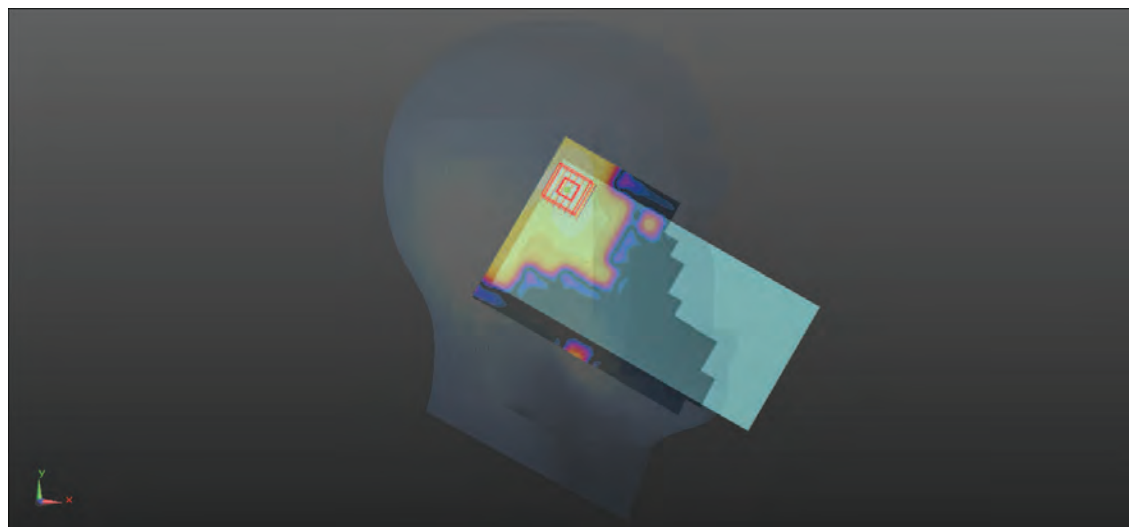
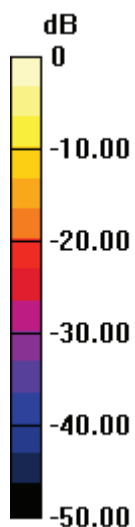
Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.074 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.386 W/kg



0 dB = 0.386 W/kg

P22 WLAN5.5G_802.11ax_HE40_Left Cheek_Ch102_Ant6

Communication System: 802.11ax_HE40; Frequency: 5510 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0425 Medium parameters used: $f = 5510$ MHz; $\sigma = 4.868$ S/m; $\epsilon_r = 34.765$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.65, 4.62, 4.65) @ 5510 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.637 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.783 V/m; Power Drift = 0.01 dB

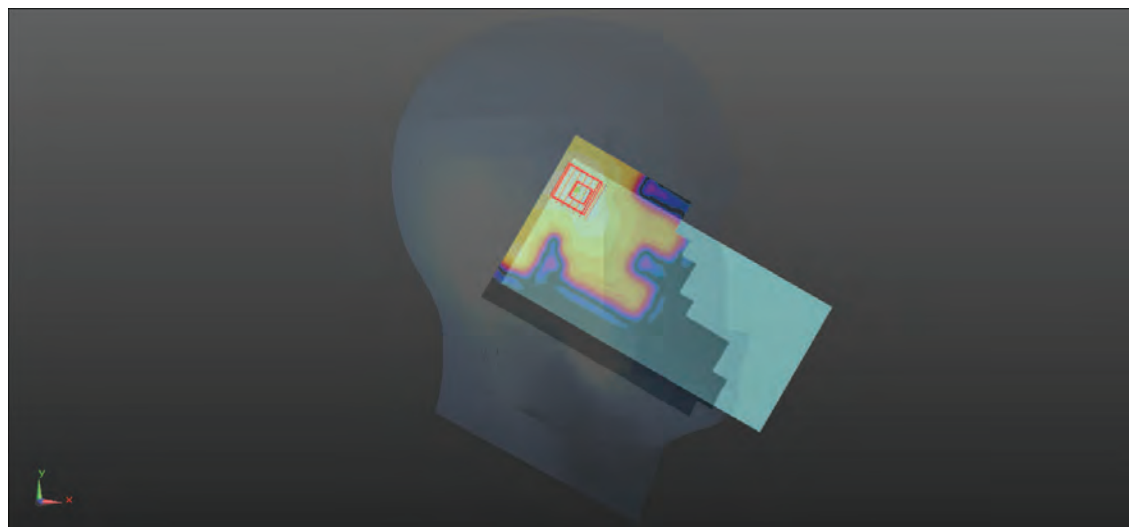
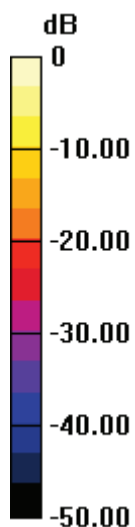
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.117 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg

P23 WLAN5.8G_802.11ax_HE40_Left Cheek_Ch159_Ant6

Communication System: 802.11ax_HE40; Frequency: 5795 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0428 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.117$ S/m; $\epsilon_r = 34.184$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.59, 4.56, 4.63) @ 5795 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x111x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.442 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.720 V/m; Power Drift = -0.04 dB

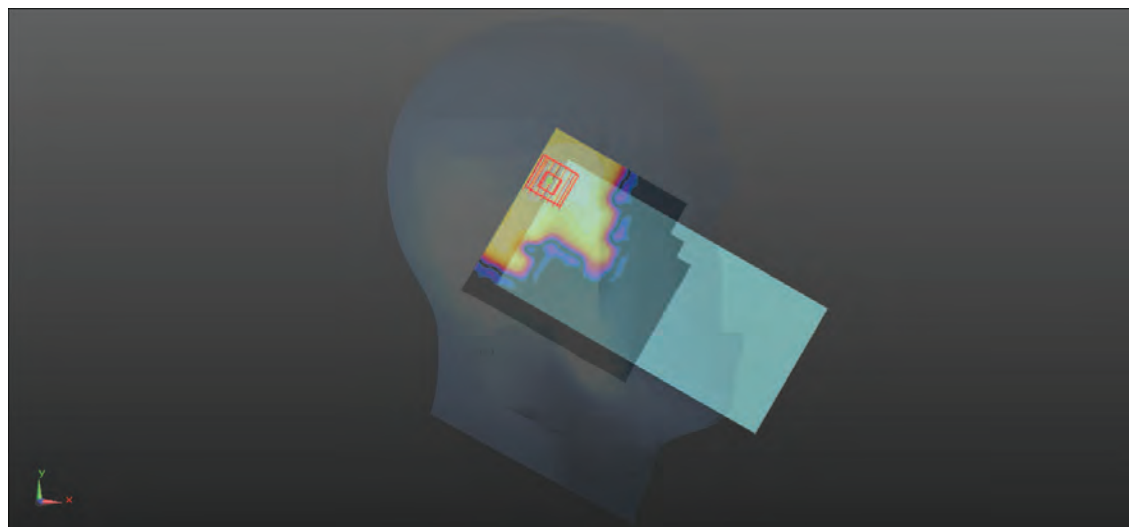
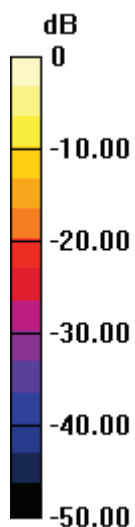
Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

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



0 dB = 0.470 W/kg

P24 BT_GFSK_Left Cheek_Ch39_Ant6

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.287

Medium: HSL2450_0325 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.774$ S/m; $\epsilon_r = 39.621$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2441 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0336 W/kg

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

Reference Value = 0.4600 V/m; Power Drift = 0.08 dB

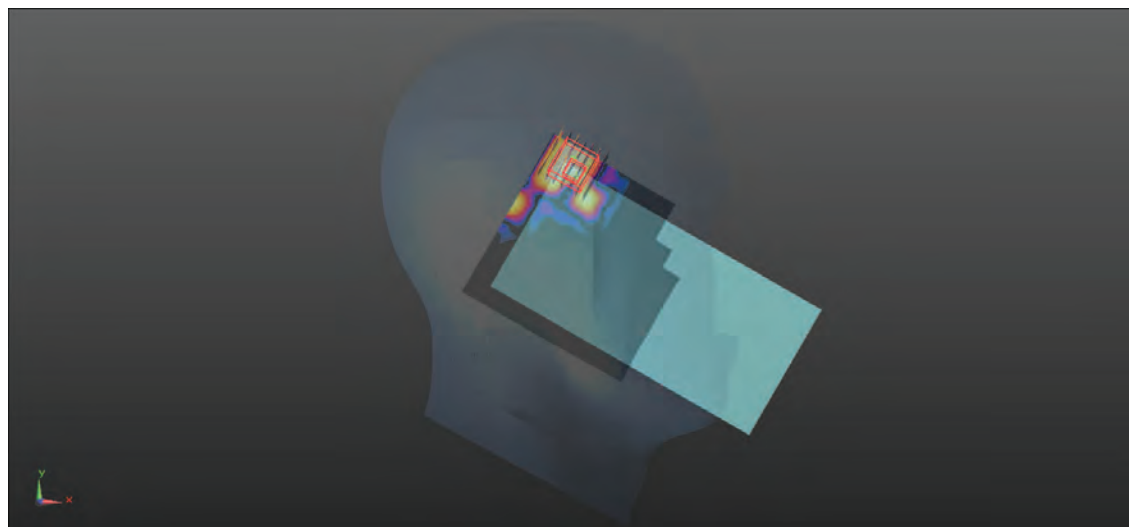
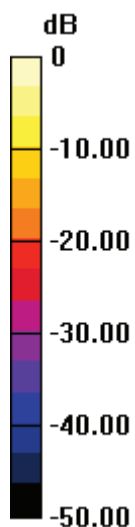
Peak SAR (extrapolated) = 0.0560 W/kg

SAR(1 g) = 0.01 W/kg; SAR(10 g) = 0.004 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 33.5%

Maximum value of SAR (measured) = 0.0139 W/kg



0 dB = 0.0139 W/kg

P25 LTE 2_QPSK20M_Front Face_1cm_Ch18900_1RB_OS99_Ant2

Communication System: LTE_FDD; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.608$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.538 W/kg

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

Reference Value = 0.7770 V/m; Power Drift = 0.06 dB

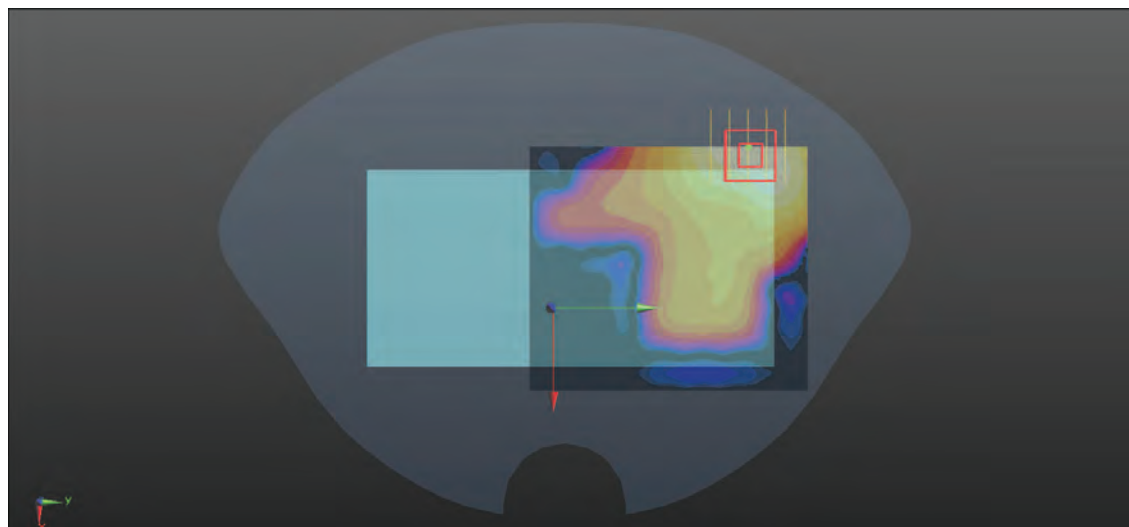
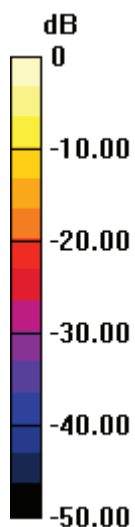
Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.219 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.521 W/kg



0 dB = 0.521 W/kg

P26 LTE 5_QPSK10M_Front Face_1cm_Ch20600_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 844$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 41.986$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 844 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.433 W/kg

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

Reference Value = 13.13 V/m; Power Drift = -0.11 dB

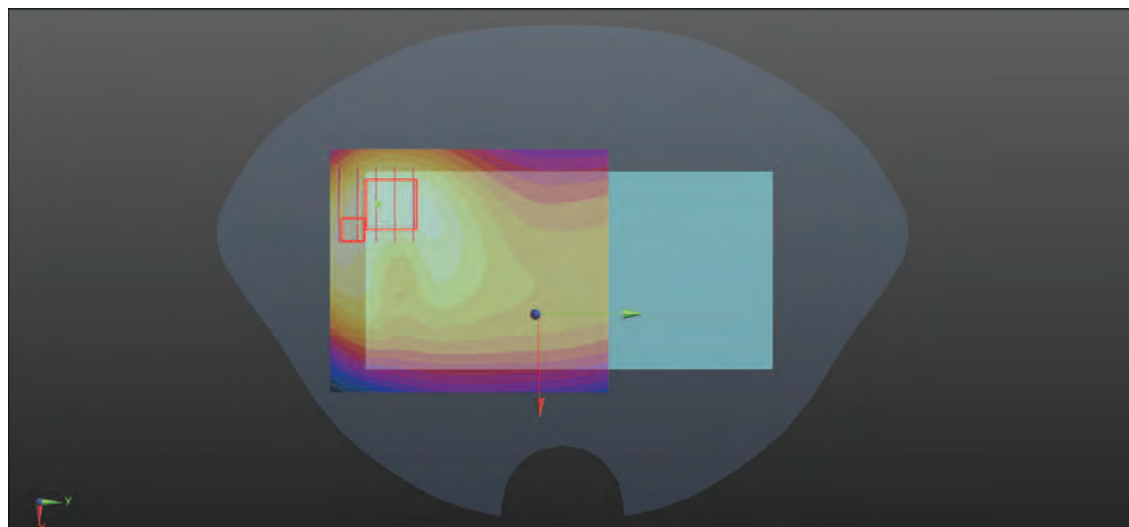
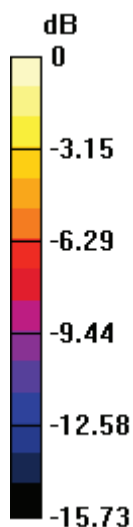
Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.219 W/kg

Smallest distance from peaks to all points 3 dB below = 21 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.430 W/kg



0 dB = 0.430 W/kg

P27 LTE 7_QPSK20M_Front Face_1cm_Ch20850_1RB_OS50_Ant2

Communication System: LTE_FDD; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0502 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.929$ S/m; $\epsilon_r = 39.532$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2510 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.801 W/kg

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

Reference Value = 6.002 V/m; Power Drift = -0.02 dB

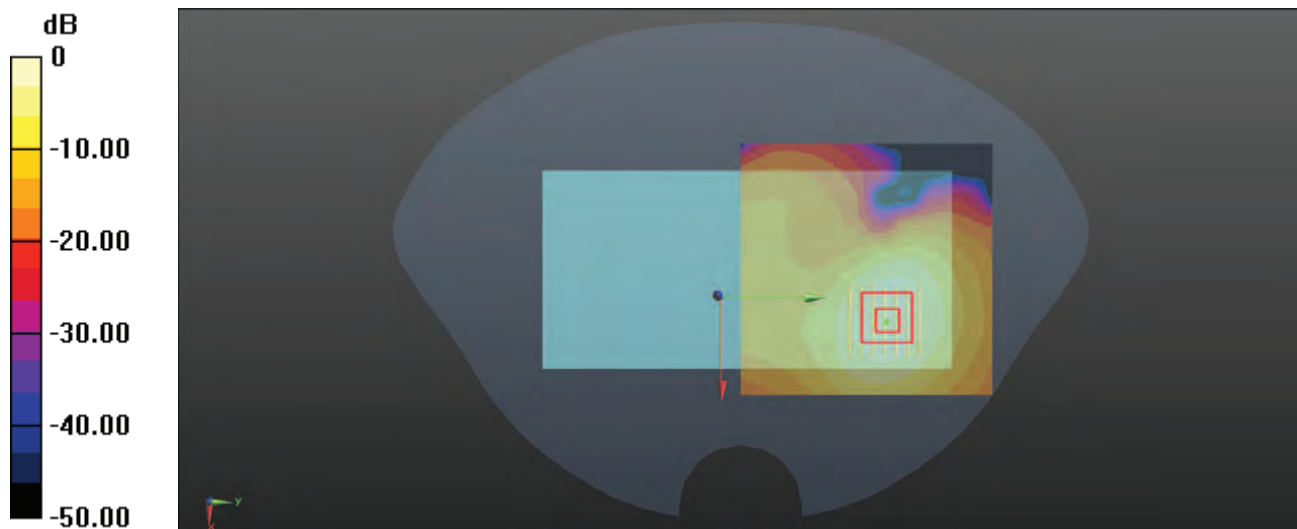
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.295 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.816 W/kg



P28 LTE 12_QPSK10M_Rear Face_1cm_Ch23130_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.896 \text{ S/m}$; $\epsilon_r = 42.959$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 711 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.196 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.76 V/m; Power Drift = 0.03 dB

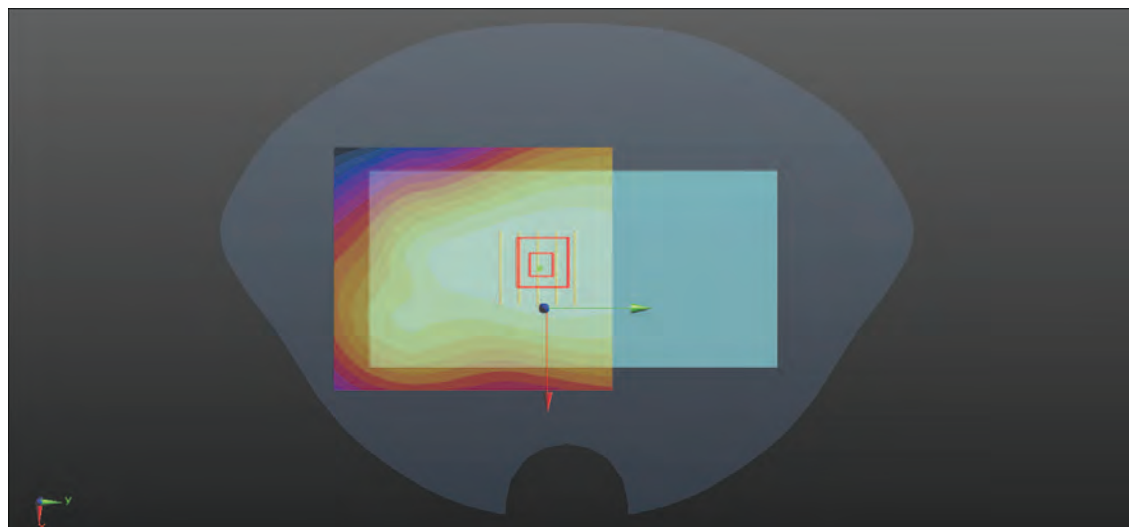
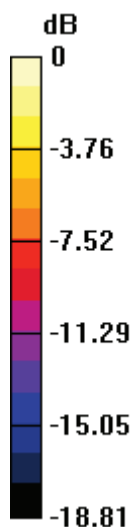
Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 79.5%

Maximum value of SAR (measured) = 0.196 W/kg



0 dB = 0.196 W/kg

P29 LTE 13_QPSK10M_Front Face_1cm_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 42.729$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.434 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.56 V/m; Power Drift = -0.01 dB

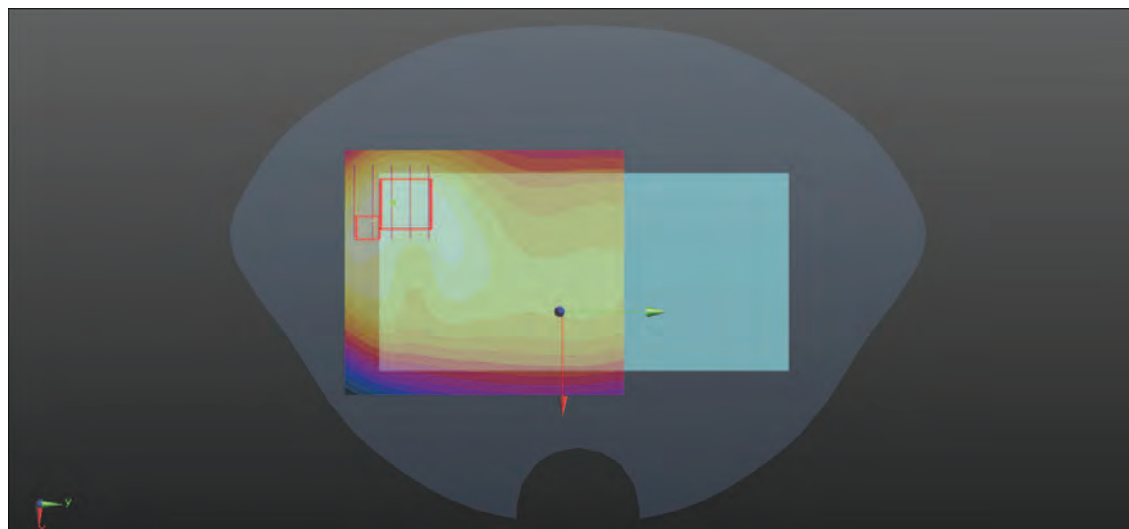
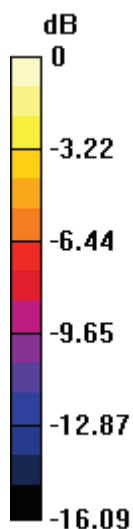
Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.218 W/kg

Smallest distance from peaks to all points 3 dB below = 22.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg

P30 LTE 14_QPSK10M_Front Face_1cm_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: HSL750_0325 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 43.26$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.423 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.26 V/m; Power Drift = -0.06 dB

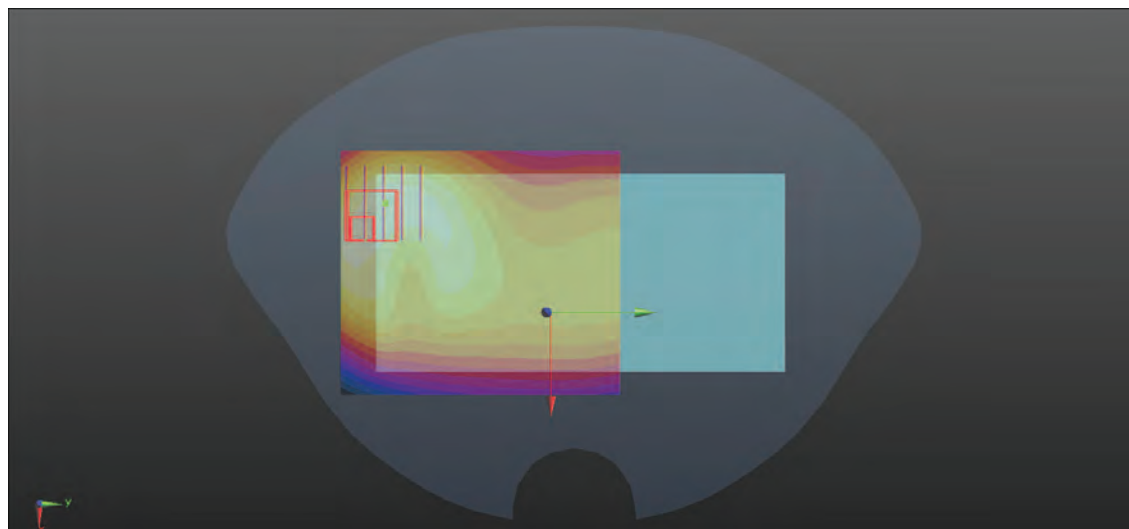
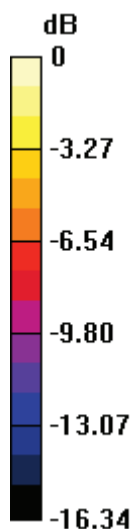
Peak SAR (extrapolated) = 0.634 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.215 W/kg

Smallest distance from peaks to all points 3 dB below = 22.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 0.441 W/kg



0 dB = 0.441 W/kg

P31 LTE 25_QPSK20M_Front Face_1cm_Ch26590_1RB_OS50_Ant0

Communication System: LTE_FDD; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 39.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1905 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.502 W/kg

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

Reference Value = 8.572 V/m; Power Drift = 0.09 dB

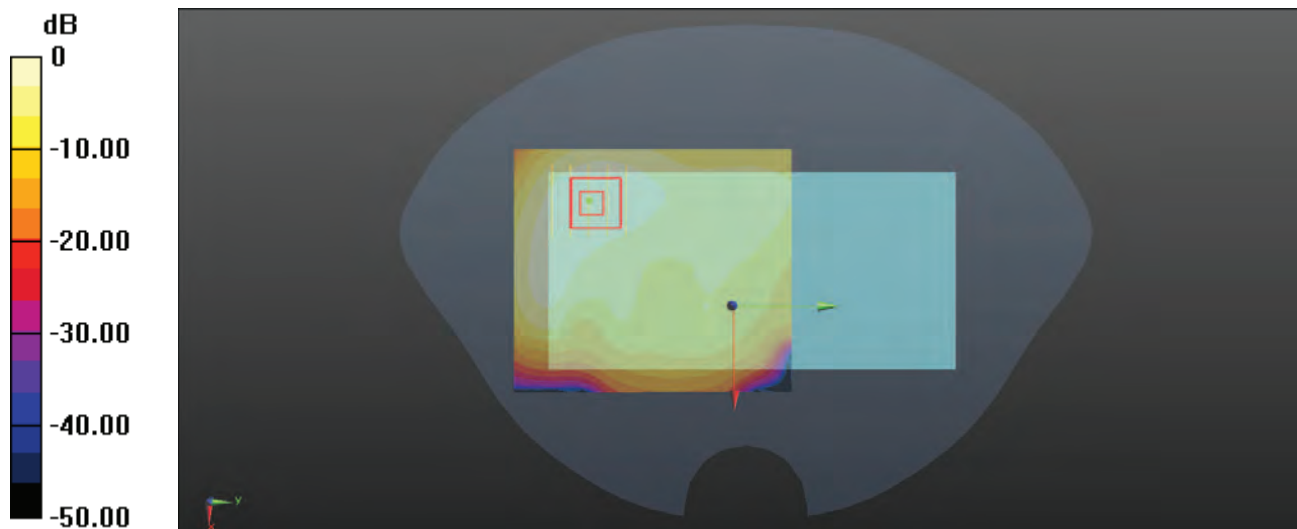
Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.245 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 0.509 W/kg



0 dB = 0.509 W/kg

P32 LTE 26_QPSK15M_Front Face_1cm_Ch26965_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0505 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 43.441$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 841.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.448 W/kg

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

Reference Value = 12.53 V/m; Power Drift = -0.17 dB

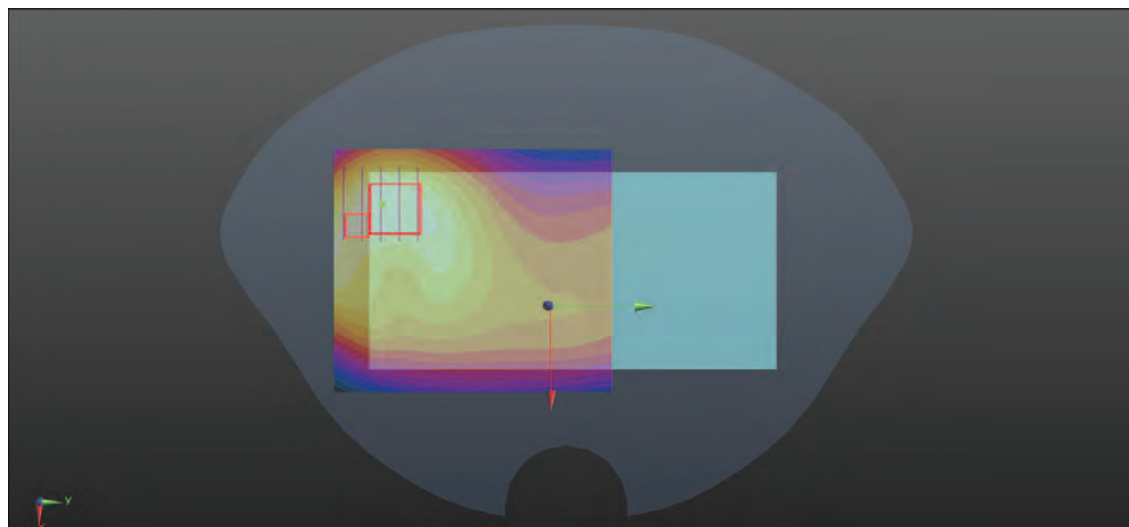
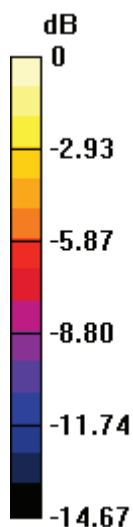
Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.37 W/kg; SAR(10 g) = 0.231 W/kg

Smallest distance from peaks to all points 3 dB below = 24 mm

Ratio of SAR at M2 to SAR at M1 = 60.6%

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



0 dB = 0.450 W/kg

P33 LTE 30_QPSK10M_Front Face_1cm_Ch27710_25RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL2300_0519 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.736$ S/m; $\epsilon_r = 39.806$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.778 W/kg

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

Reference Value = 4.760 V/m; Power Drift = 0.04 dB

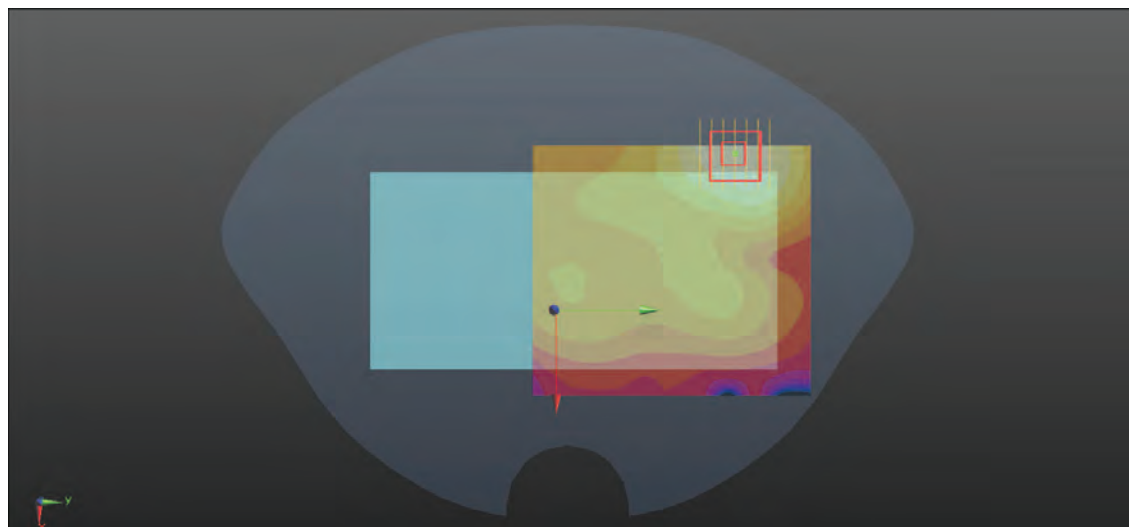
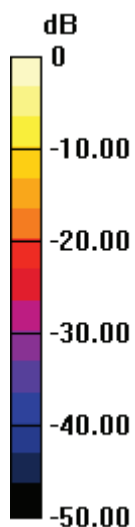
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.56 W/kg; SAR(10 g) = 0.313 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg

P34 LTE 41_QPSK20M_Front Face_1cm_Ch40185_1RB_OS0_Ant0

Communication System: LTE_TDD; Frequency: 2549.5 MHz; Duty Cycle: 1:2.33

Medium: HSL2600_0503 Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.882$ S/m; $\epsilon_r = 39.087$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2549.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.575 W/kg

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

Reference Value = 7.447 V/m; Power Drift = 0.17 dB

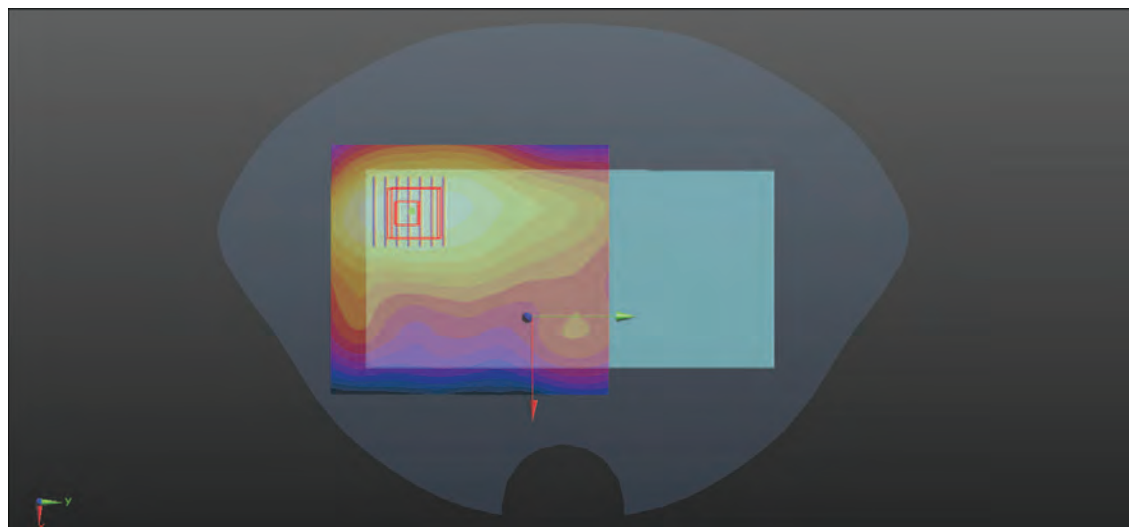
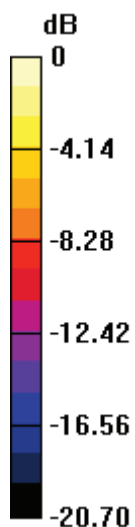
Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.237 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg

P35 LTE 66_QPSK20M_Front Face_1cm_Ch132572_1RB_OS50_Ant2

Communication System: LTE_FDD; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_0515 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.789$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1770 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.669 W/kg

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

Reference Value = 3.567 V/m; Power Drift = 0.06 dB

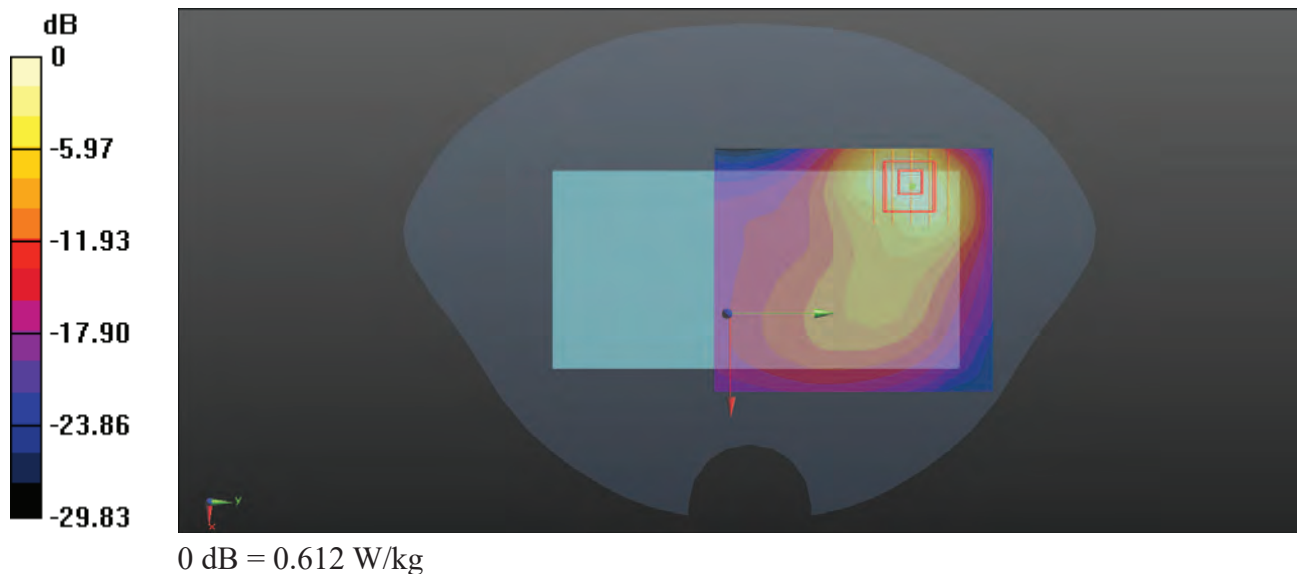
Peak SAR (extrapolated) = 0.986 W/kg

SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.234 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.612 W/kg



P36 LTE 71_QPSK20M_Front Face_1cm_Ch133222_1RB_OS99_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 42.995$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.193 W/kg

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

Reference Value = 12.05 V/m; Power Drift = 0.09 dB

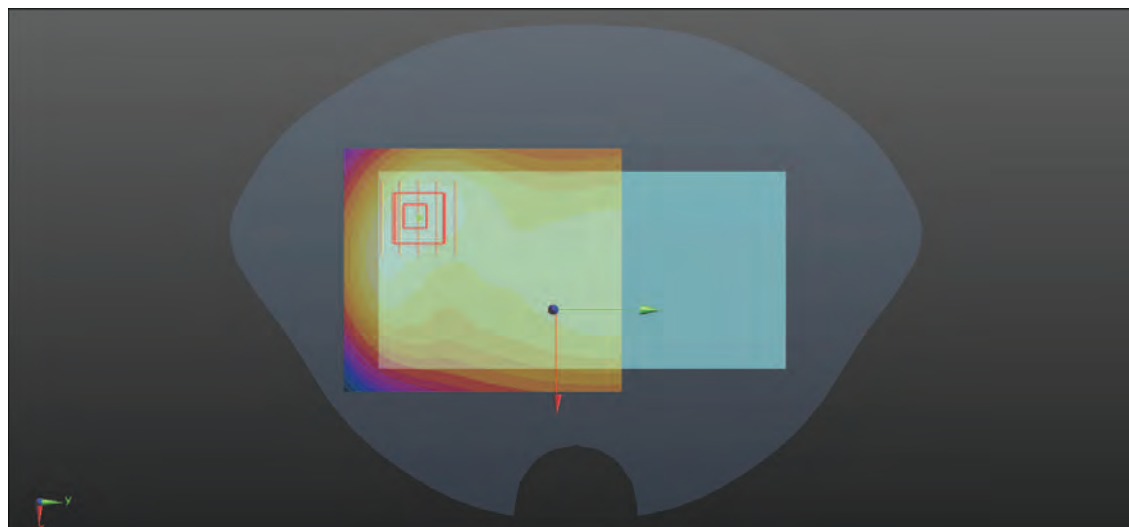
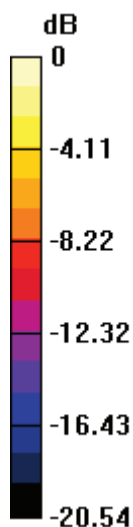
Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.124 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.8%

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg

P37 N2_QPSK20M SCS15KHz_Front Face_1cm_Ch372000_50RB_OS28_Ant2

Communication System: NR; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.645$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.717 W/kg

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

Reference Value = 2.396 V/m; Power Drift = 0.03 dB

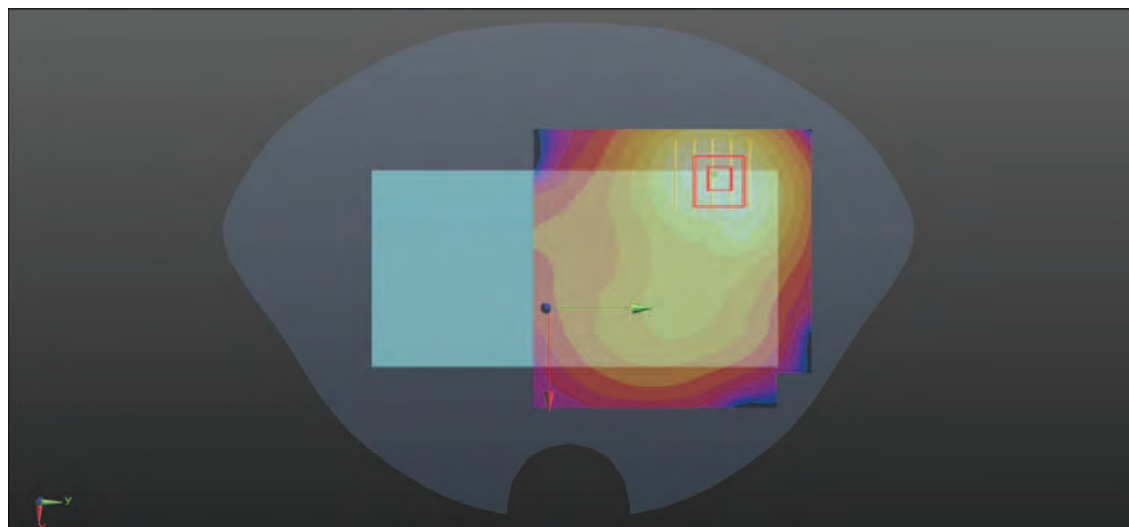
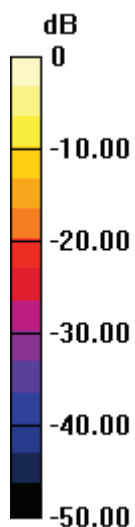
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.752 W/kg



0 dB = 0.752 W/kg

P38 N5_QPSK20M SCS15KHz_Front Face_1cm_Ch167800_1RB_OS1_Ant0

Communication System: NR; Frequency: 839 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 839$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 42.014$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 839 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.384 W/kg

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

Reference Value = 11.42 V/m; Power Drift = 0.03 dB

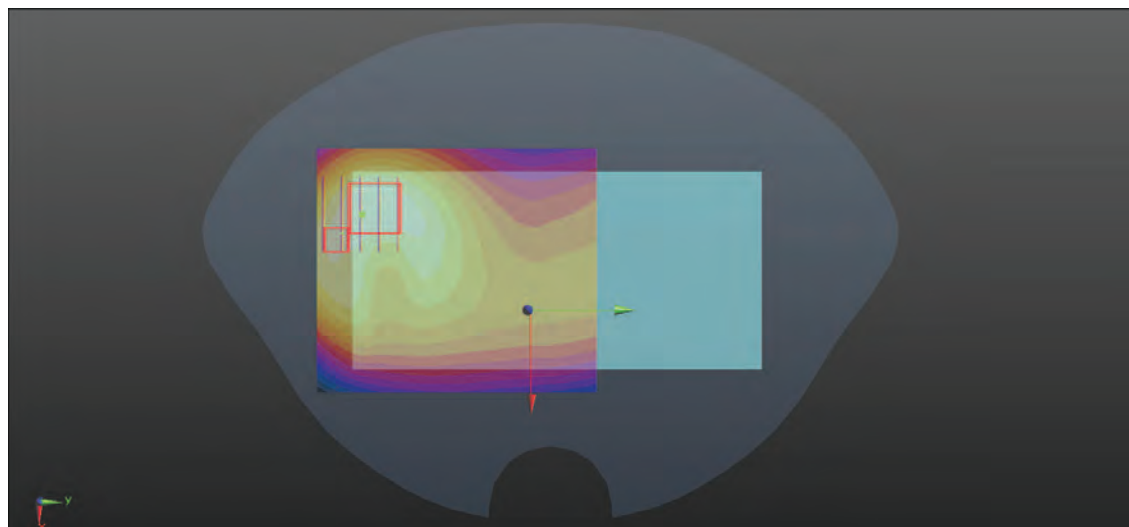
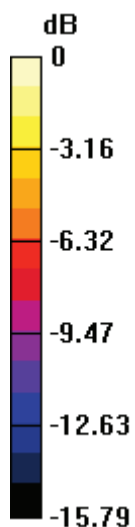
Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.19 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.380 W/kg



0 dB = 0.380 W/kg

P39 N25_QPSK20M SCS15KHz_Front Face_1cm_Ch381000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 39.586$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1905 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.724 W/kg

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

Reference Value = 8.760 V/m; Power Drift = 0.10 dB

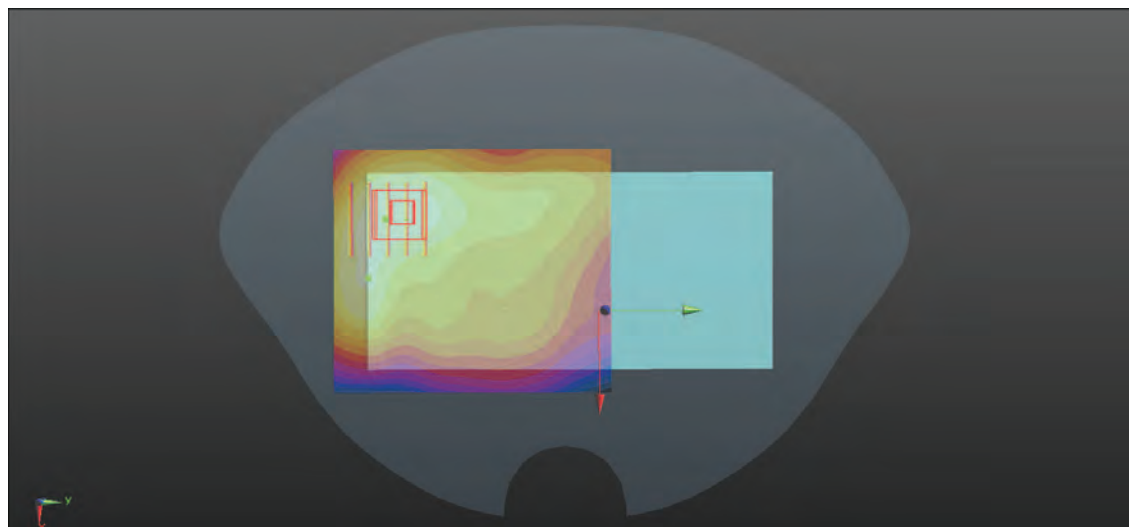
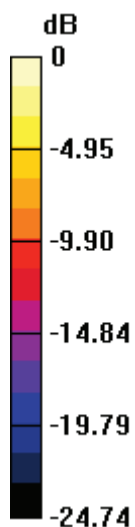
Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.701 W/kg

P40 N41_QPSK100M SCS30KHz_Front Face_1cm_Ch518598_1RB_OS1_Ant0

Communication System: NR; Frequency: 2592.99 MHz; Duty Cycle: 1:0.5

Medium: HSL2600_0504 Medium parameters used: $f = 2593$ MHz; $\sigma = 2$ S/m; $\epsilon_r = 39.331$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2592.99 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

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

Reference Value = 6.777 V/m; Power Drift = -0.07 dB

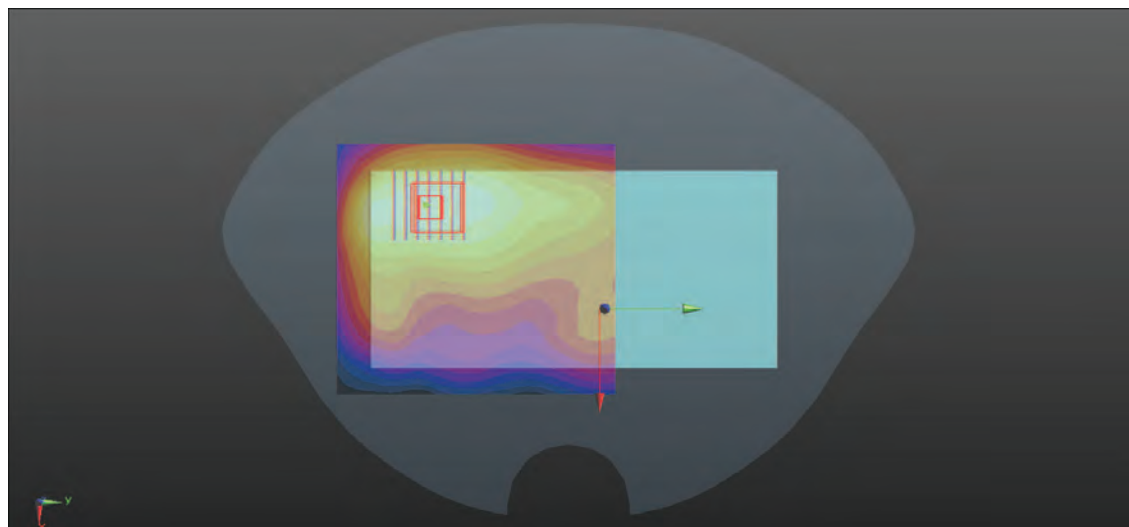
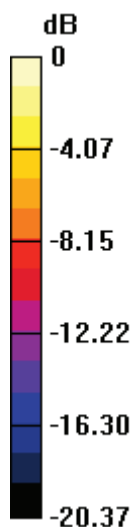
Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.231 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

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



0 dB = 0.500 W/kg

P41 N66_QPSK30M SCS15KHz_Front Face_1cm_Ch353000_80RB_OS0_Ant2

Communication System: NR; Frequency: 1765 MHz; Duty Cycle: 1:1

Medium: HSL1750_0516 Medium parameters used: $f = 1765$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 39.805$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1765 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.690 W/kg

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

Reference Value = 4.783 V/m; Power Drift = 0.04 dB

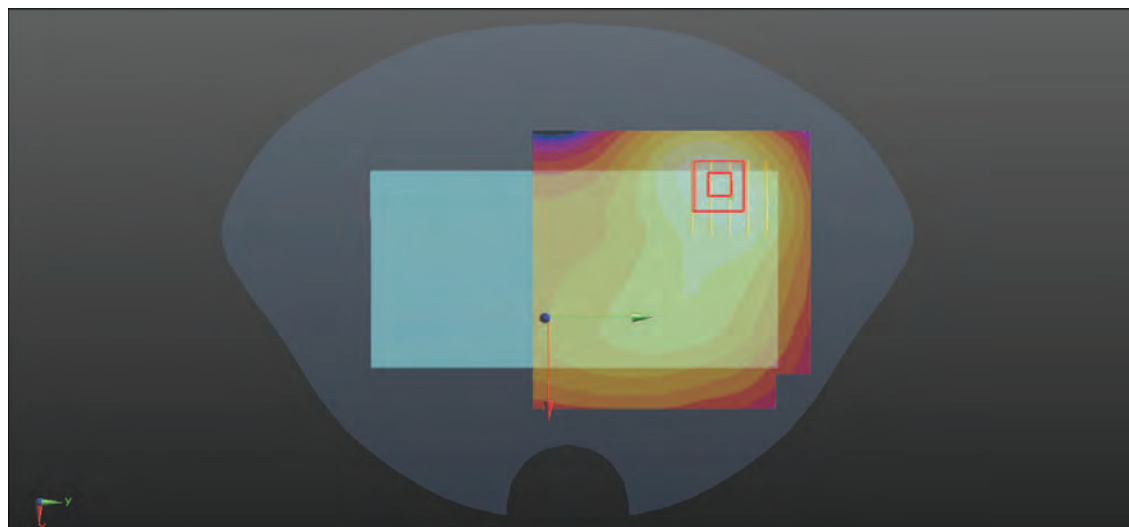
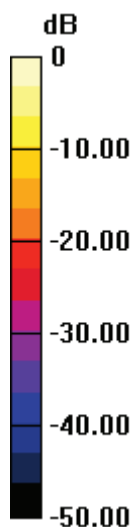
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.290 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.710 W/kg



0 dB = 0.710 W/kg

P42 N71_QPSK20M SCS15KHz_Rear Face_1cm_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 43.045$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.219 W/kg

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

Reference Value = 15.13 V/m; Power Drift = 0.01 dB

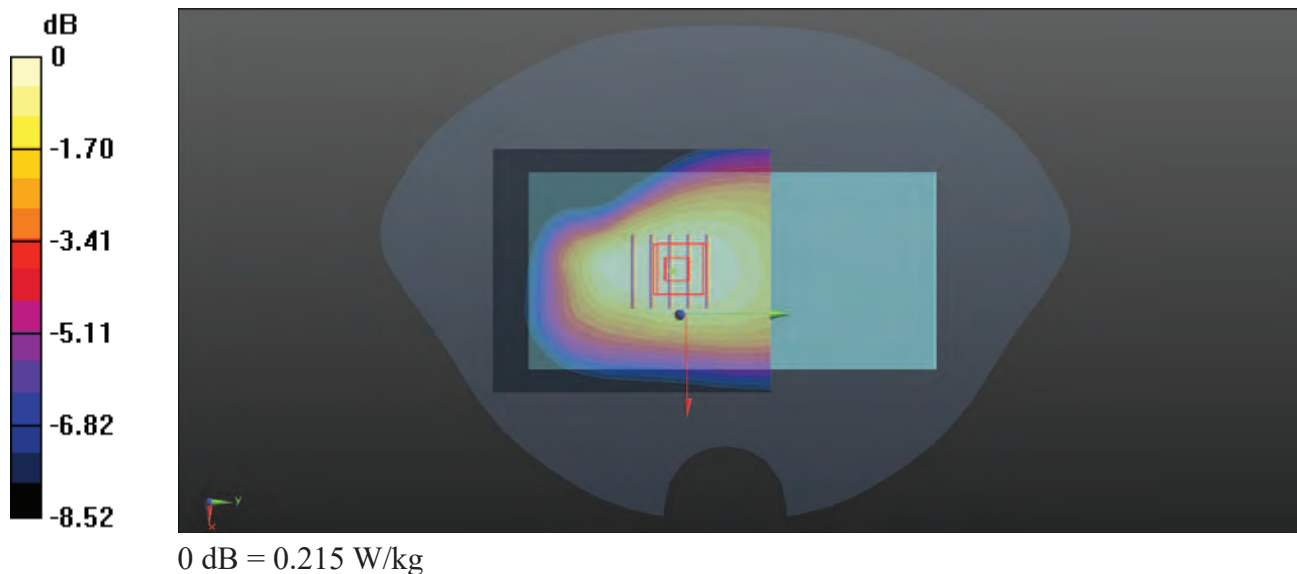
Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.150 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 79%

Maximum value of SAR (measured) = 0.215 W/kg



P43 N77_QPSK100M SCS30KHz_Rear Face_1cm_Ch656000_1RB_OS1_Ant7

Communication System: NR; Frequency: 3840 MHz; Duty Cycle: 1:0.5

Medium: HSL3900_0513 Medium parameters used: $f = 3840$ MHz; $\sigma = 3.151$ S/m; $\epsilon_r = 39.131$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.5, 6.41, 6.52) @ 3840 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (111x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.855 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.748 V/m; Power Drift = -0.15 dB

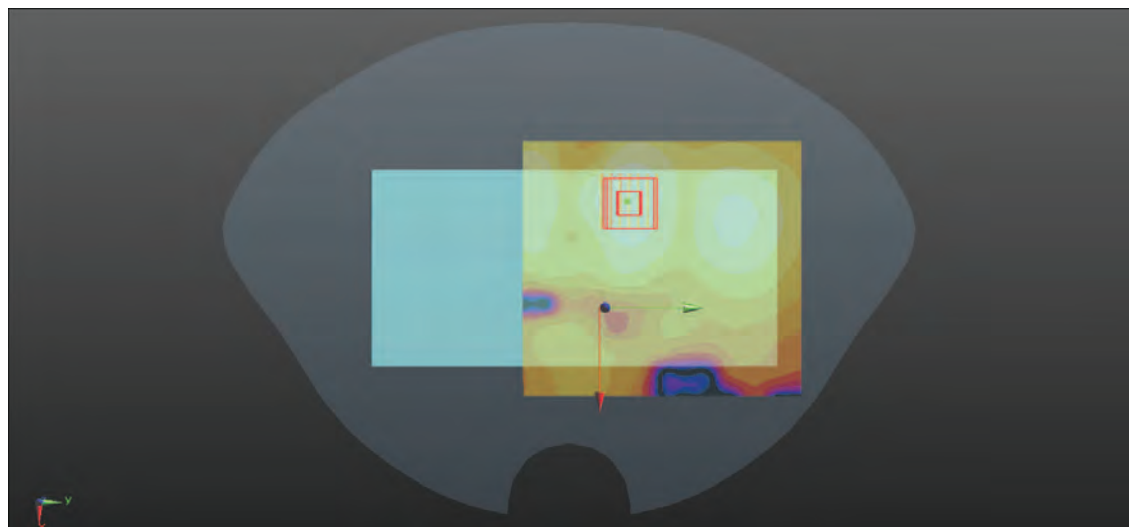
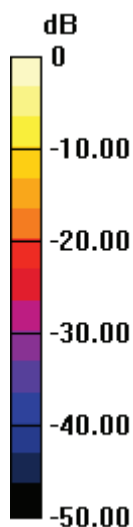
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.276 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 69.8%

Maximum value of SAR (measured) = 0.810 W/kg



0 dB = 0.810 W/kg

P44 WLAN2.4G_802.11b_Rear Face_1cm_Ch6_Ant6+8

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1.001

Medium: HSL2450_0421 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.588$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 2437 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0887 W/kg

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

Reference Value = 5.031 V/m; Power Drift = -0.01 dB

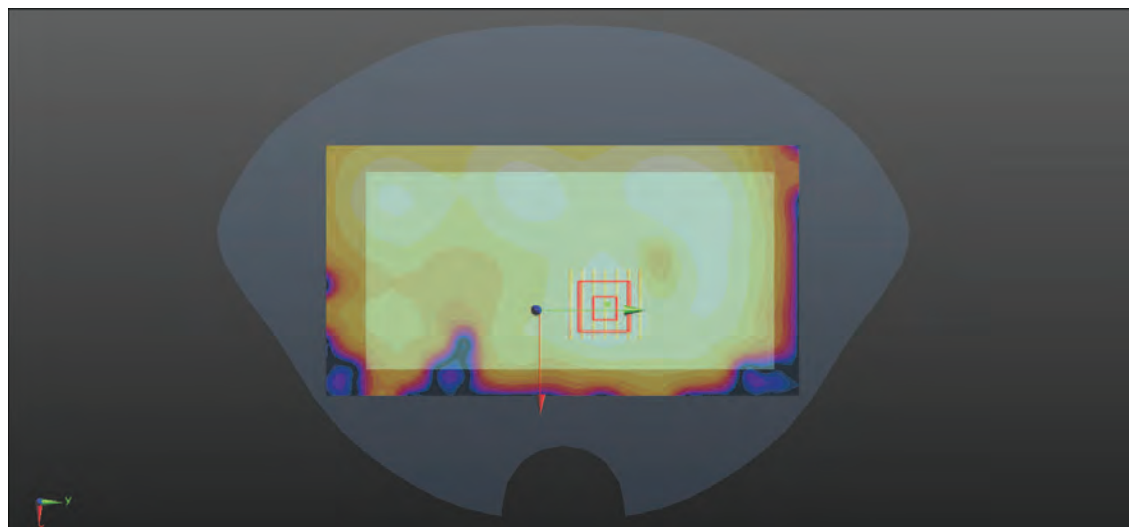
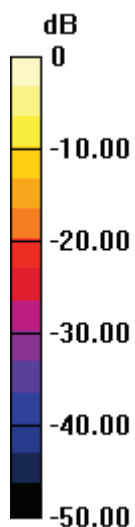
Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.038 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.0875 W/kg



0 dB = 0.0875 W/kg

P45 WLAN5.3G_802.11ax_HE40_Rear Face_1cm_Ch54_Ant8

Communication System: 802.11ax_HE40; Frequency: 5270 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0422 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.652$ S/m; $\epsilon_r = 36.182$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 5270 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.588 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.411 V/m; Power Drift = -0.02 dB

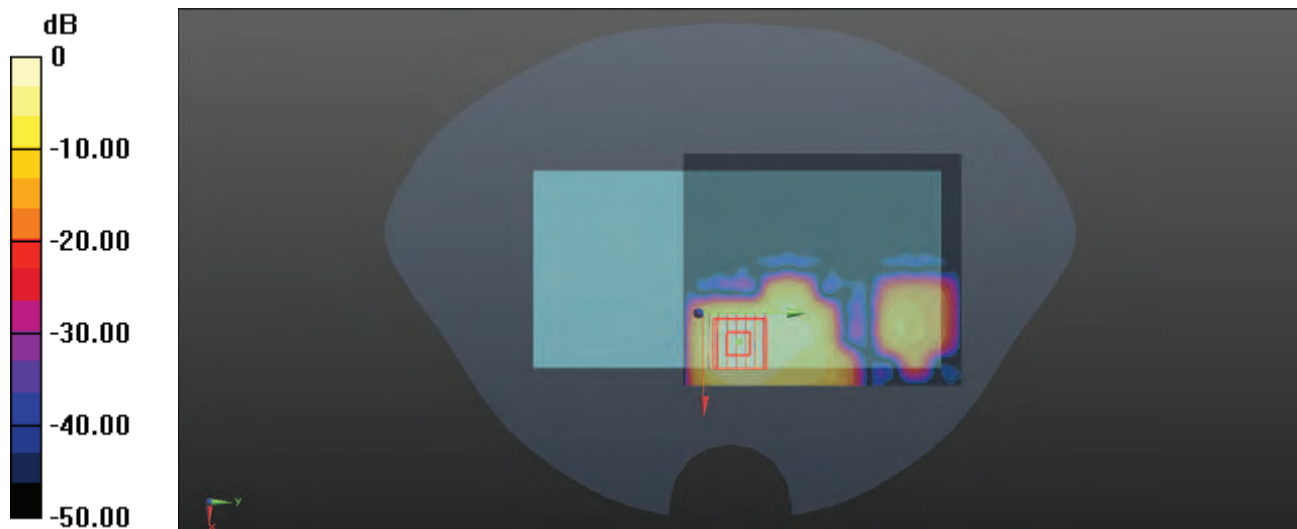
Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.098 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 0.529 W/kg



P46 WLAN5.5G_802.11ax_HE40_Rear Face_1cm_Ch110_Ant6+8

Communication System: 802.11ax_HE40; Frequency: 5550 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0426 Medium parameters used: $f = 5550$ MHz; $\sigma = 4.939$ S/m; $\epsilon_r = 35.783$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.65, 4.62, 4.65) @ 5550 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.432 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

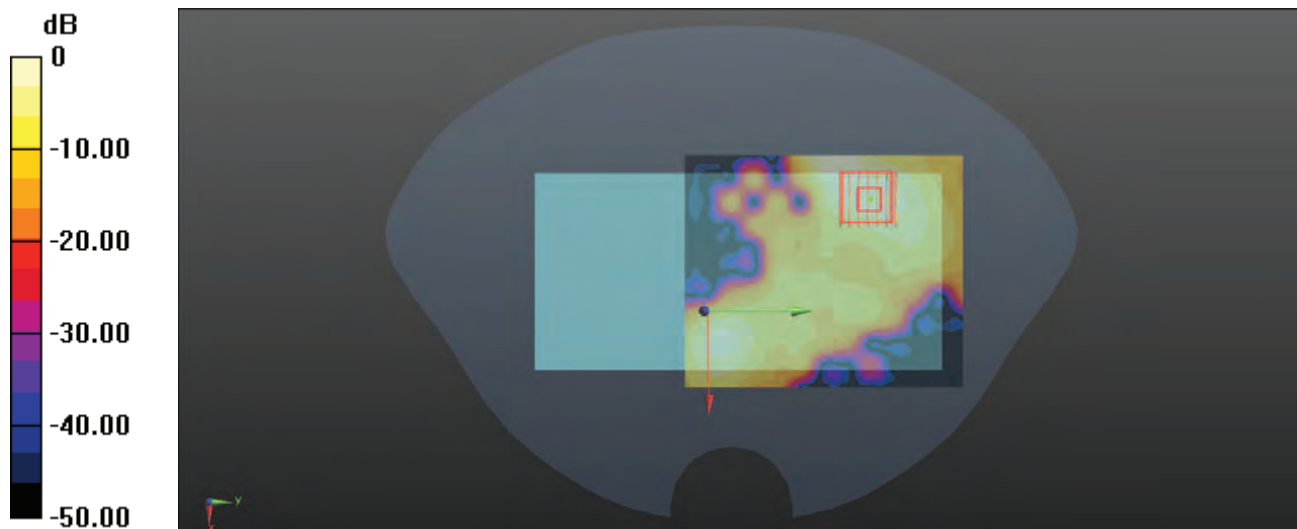
Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.077 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.424 W/kg



0 dB = 0.424 W/kg

P47 WLAN5.8G_802.11ax_HE40_Rear Face_1cm_Ch159_Ant8

Communication System: 802.11ax_HE40; Frequency: 5795 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0428 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.117$ S/m; $\epsilon_r = 34.184$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.59, 4.56, 4.63) @ 5795 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.489 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.186 V/m; Power Drift = 0.02 dB

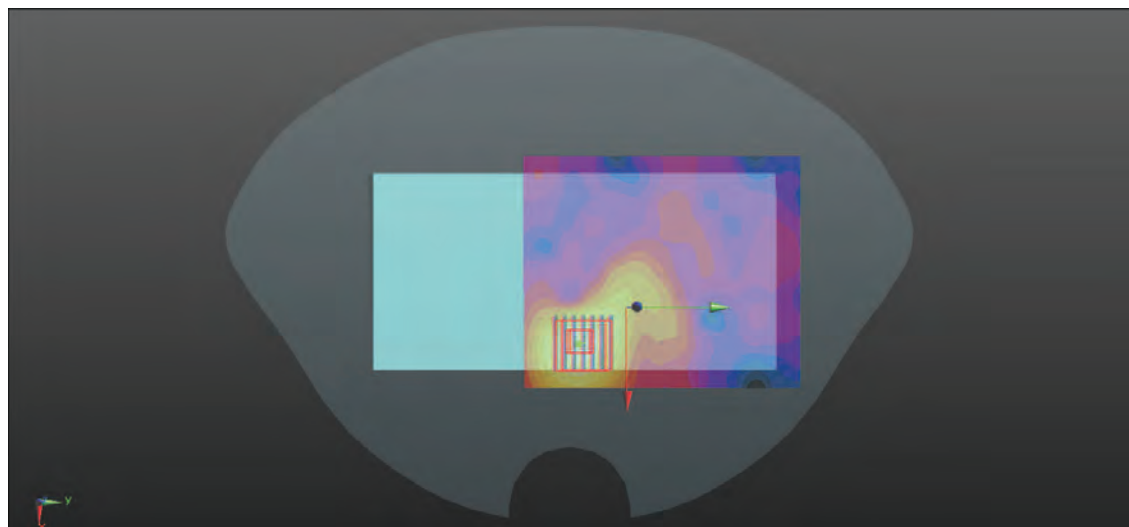
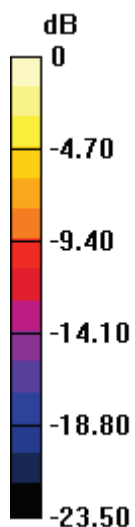
Peak SAR (extrapolated) = 0.904 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.082 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.483 W/kg



0 dB = 0.483 W/kg

P48 BT_GFSK_Rear Face_1cm_Ch39_Ant6

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.287

Medium: HSL2450_0325 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.774$ S/m; $\epsilon_r = 39.621$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2441 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0547 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.01 dB

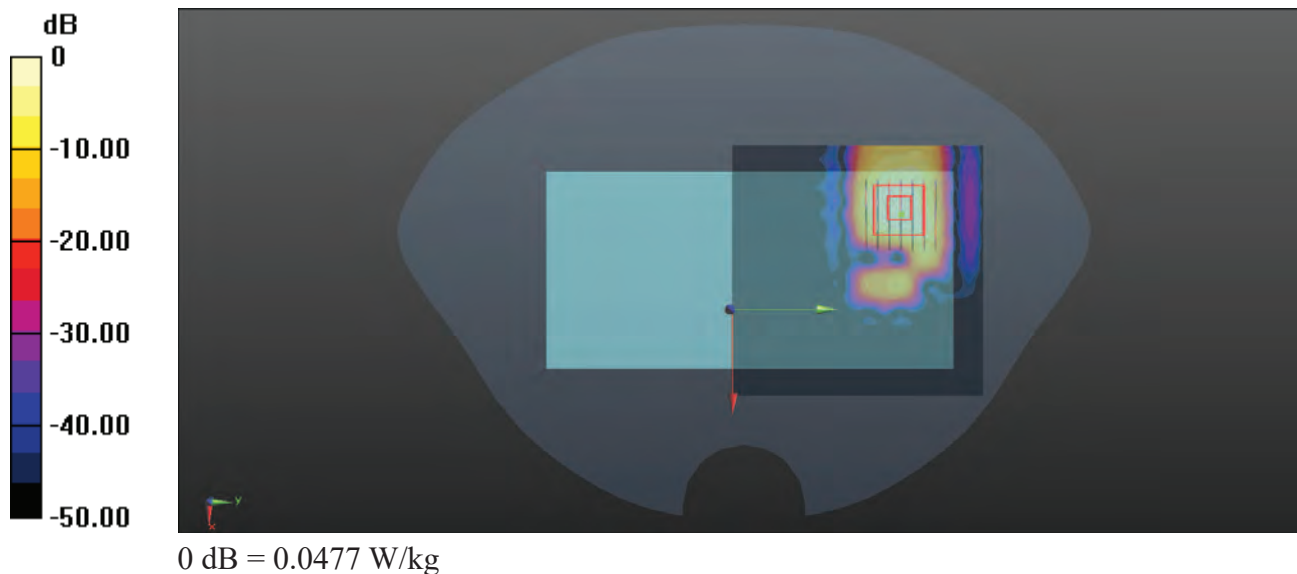
Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.010 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 33.4%

Maximum value of SAR (measured) = 0.0477 W/kg



P49 LTE 2_QPSK20M_Front Face_1cm_Ch18900_1RB_OS99_Ant2

Communication System: LTE_FDD; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.608$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1880 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.538 W/kg

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

Reference Value = 0.7770 V/m; Power Drift = 0.06 dB

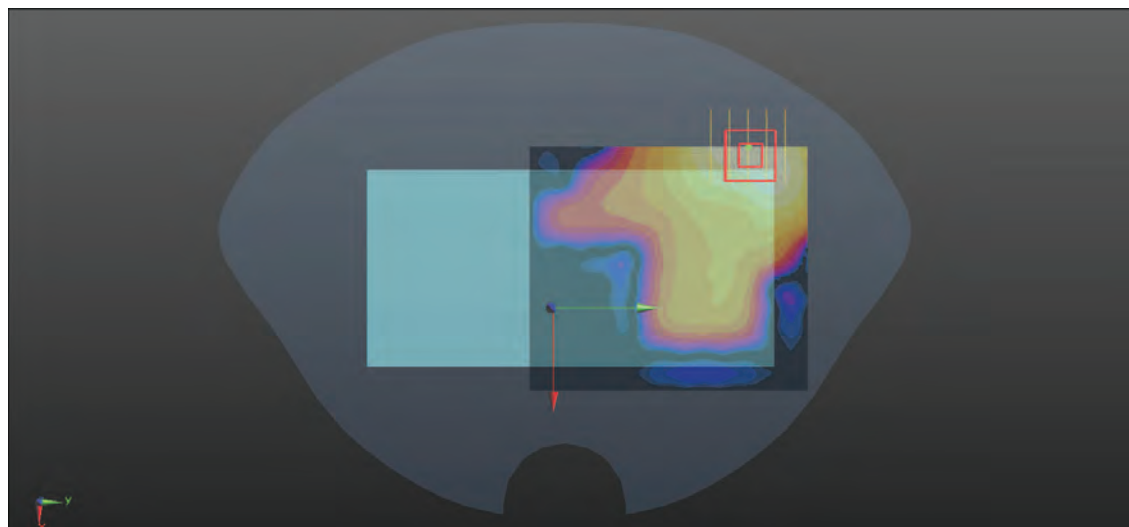
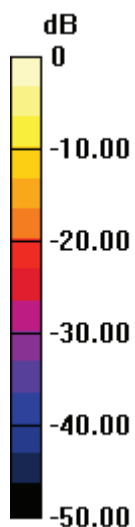
Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.219 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.521 W/kg



0 dB = 0.521 W/kg

P50 LTE 5_QPSK10M_Front Face_1cm_Ch20600_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 844 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.93 \text{ S/m}$; $\epsilon_r = 41.986$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 844 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.433 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.13 V/m; Power Drift = -0.11 dB

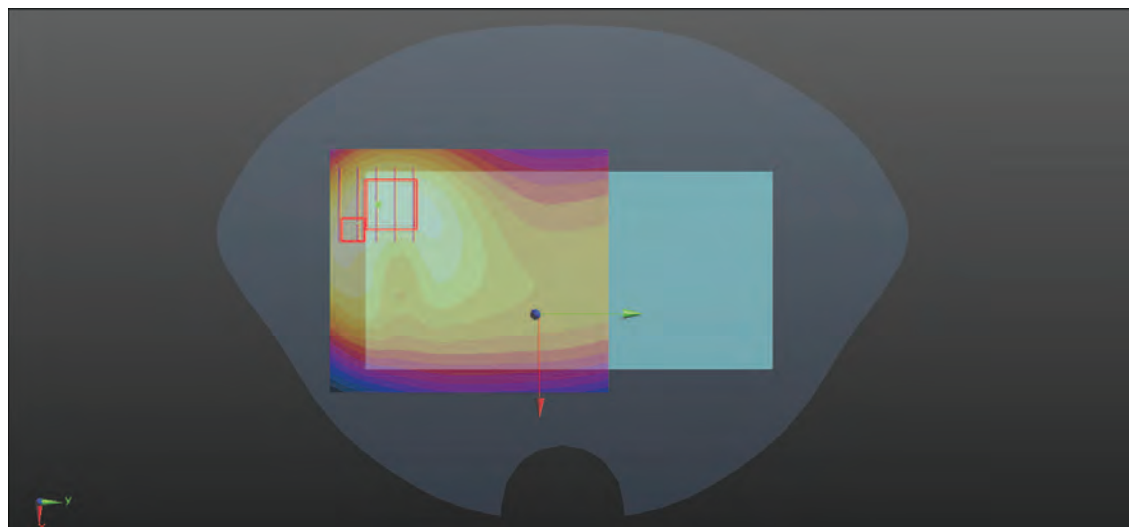
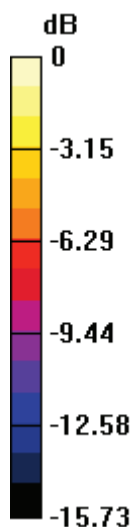
Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.219 W/kg

Smallest distance from peaks to all points 3 dB below = 21 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.430 W/kg



0 dB = 0.430 W/kg

P51 LTE 7_QPSK20M_Front Face_1cm_Ch20850_1RB_OS50_Ant2

Communication System: LTE_FDD; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600_0502 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.929$ S/m; $\epsilon_r = 39.532$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2510 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.801 W/kg

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

Reference Value = 6.002 V/m; Power Drift = -0.02 dB

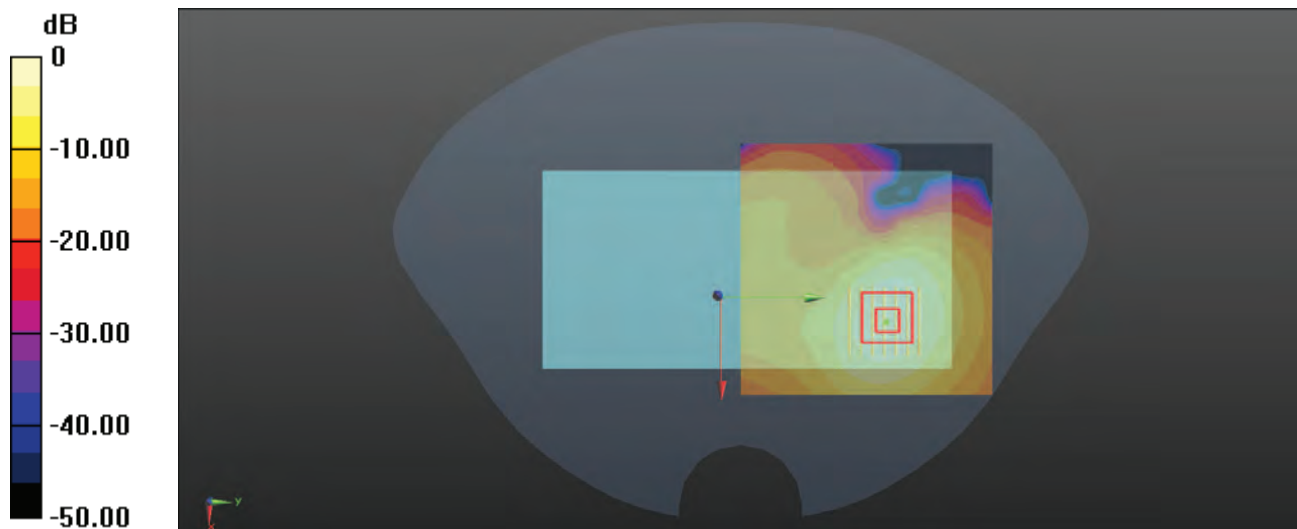
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.295 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.816 W/kg



P52 LTE 12_QPSK10M_Rear Face_1cm_Ch23130_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 711$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 42.959$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 711 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.196 W/kg

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

Reference Value = 14.76 V/m; Power Drift = 0.03 dB

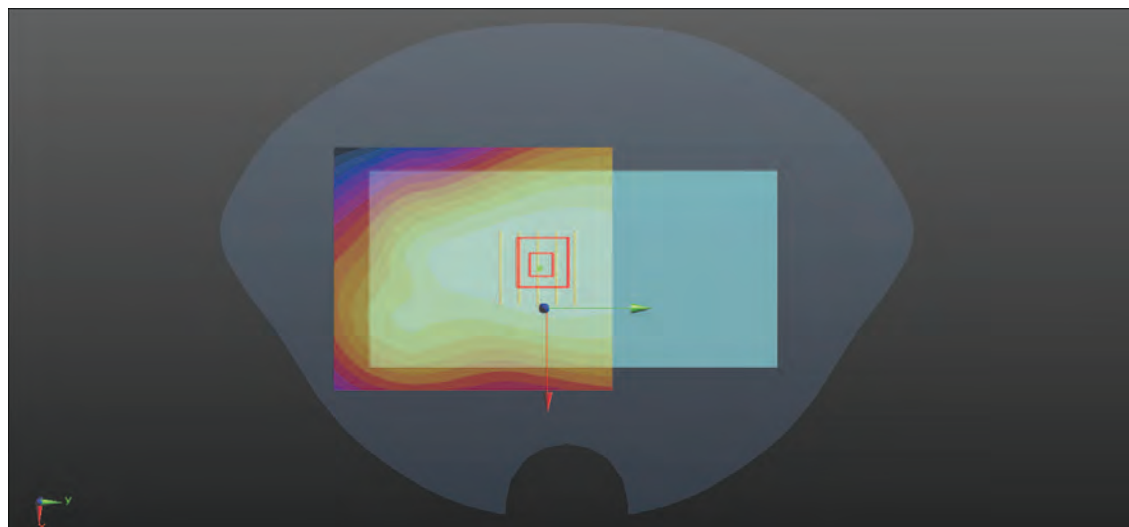
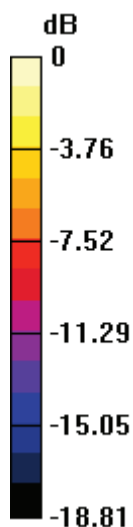
Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 79.5%

Maximum value of SAR (measured) = 0.196 W/kg



0 dB = 0.196 W/kg

P53 LTE 13_QPSK10M_Front Face_1cm_Ch23230_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_0324 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 42.729$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C ; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 782 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.434 W/kg

-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.56 V/m ; Power Drift = -0.01 dB

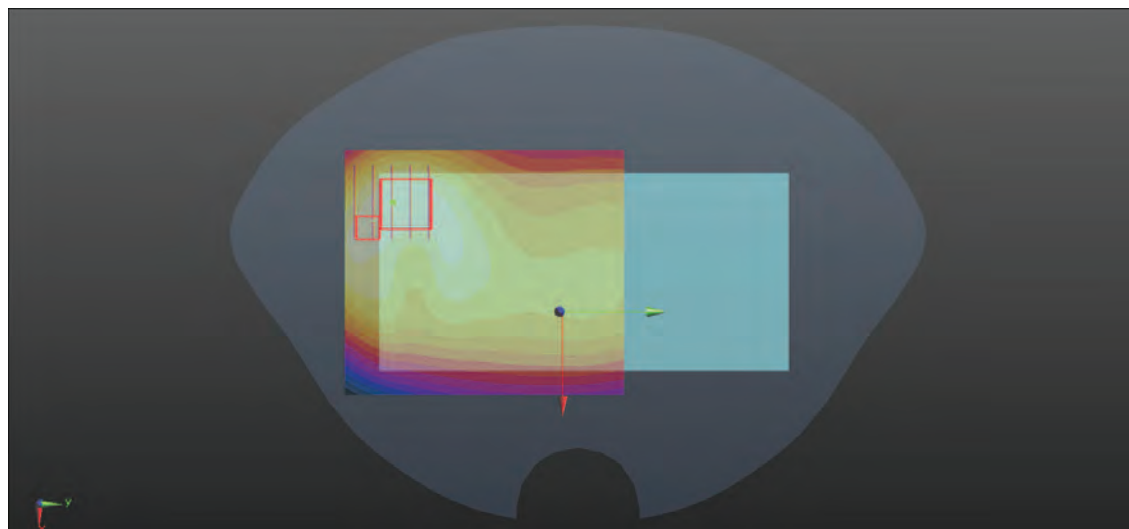
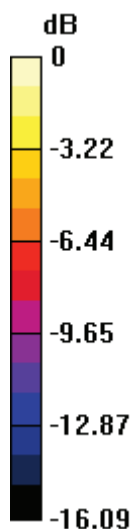
Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.363 W/kg ; SAR(10 g) = 0.218 W/kg

Smallest distance from peaks to all points 3 dB below = 22.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg

P54 LTE 14_QPSK10M_Front Face_1cm_Ch23330_1RB_OS24_Ant0

Communication System: LTE_FDD; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: HSL750_0325 Medium parameters used: $f = 793$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 43.26$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 793 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.423 W/kg

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

Reference Value = 14.26 V/m; Power Drift = -0.06 dB

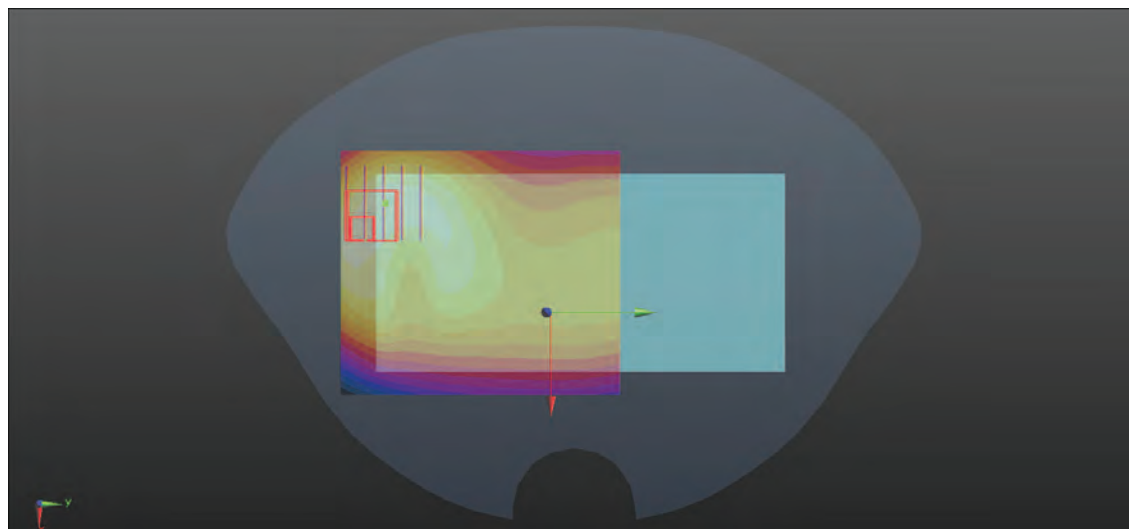
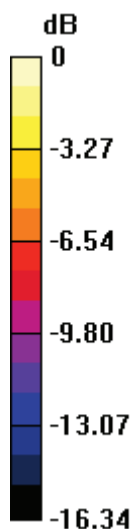
Peak SAR (extrapolated) = 0.634 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.215 W/kg

Smallest distance from peaks to all points 3 dB below = 22.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 0.441 W/kg



0 dB = 0.441 W/kg

P55 LTE 25_QPSK20M_Front Face_1cm_Ch26590_1RB_OS50_Ant0

Communication System: LTE_FDD; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL1900_0517 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 39.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1905 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.502 W/kg

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

Reference Value = 8.572 V/m; Power Drift = 0.09 dB

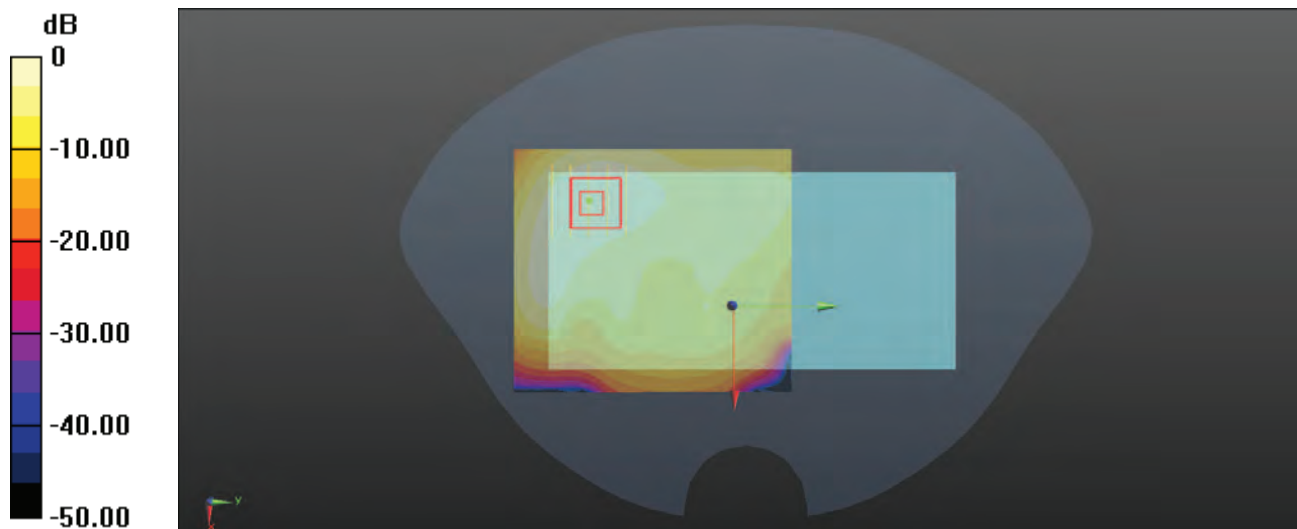
Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.245 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 0.509 W/kg



0 dB = 0.509 W/kg

P56 LTE 26_QPSK15M_Front Face_1cm_Ch26965_1RB_OS0_Ant0

Communication System: LTE_FDD; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0505 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 43.441$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 841.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.448 W/kg

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

Reference Value = 12.53 V/m; Power Drift = -0.17 dB

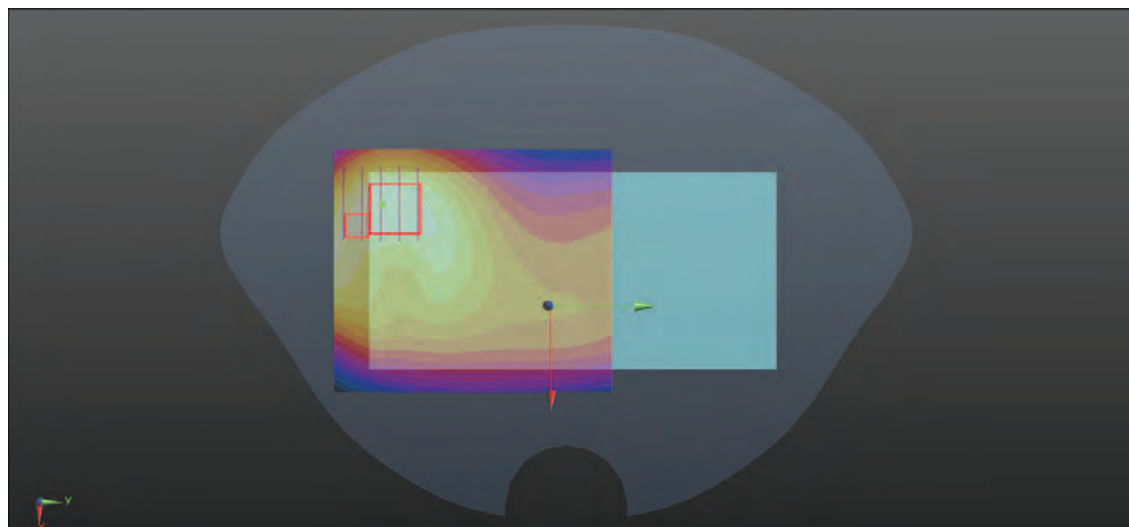
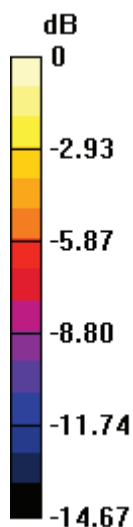
Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.37 W/kg; SAR(10 g) = 0.231 W/kg

Smallest distance from peaks to all points 3 dB below = 24 mm

Ratio of SAR at M2 to SAR at M1 = 60.6%

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



0 dB = 0.450 W/kg

P57 LTE 30_QPSK10M_Front Face_1cm_Ch27710_25RB_OS0_Ant2

Communication System: LTE_FDD; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL2300_0519 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.736$ S/m; $\epsilon_r = 39.806$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.64, 7.67, 7.54) @ 2310 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.778 W/kg

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

Reference Value = 4.760 V/m; Power Drift = 0.04 dB

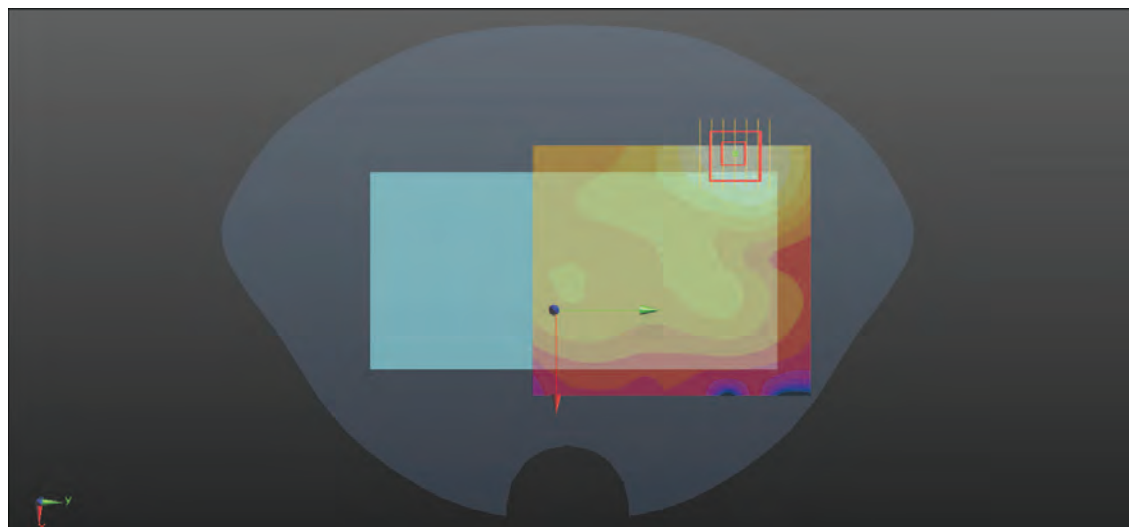
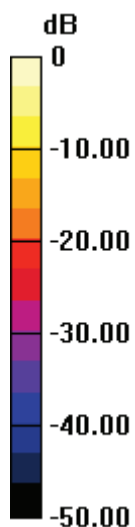
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.56 W/kg; SAR(10 g) = 0.313 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg

P58 LTE 41_QPSK20M_Front Face_1cm_Ch40185_1RB_OS0_Ant0

Communication System: LTE_TDD; Frequency: 2549.5 MHz; Duty Cycle: 1:2.33

Medium: HSL2600_0503 Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.882$ S/m; $\epsilon_r = 39.087$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2549.5 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.575 W/kg

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

Reference Value = 7.447 V/m; Power Drift = 0.17 dB

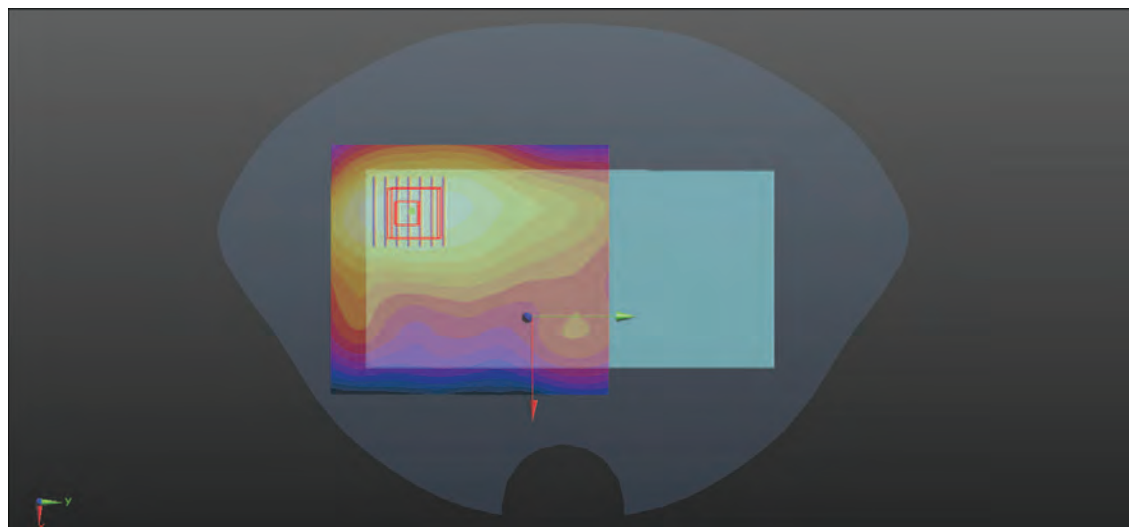
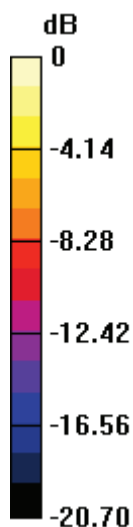
Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.237 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg

P59 LTE 66_QPSK20M_Front Face_1cm_Ch132572_1RB_OS50_Ant2

Communication System: LTE_FDD; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_0515 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.789$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1770 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.669 W/kg

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

Reference Value = 3.567 V/m; Power Drift = 0.06 dB

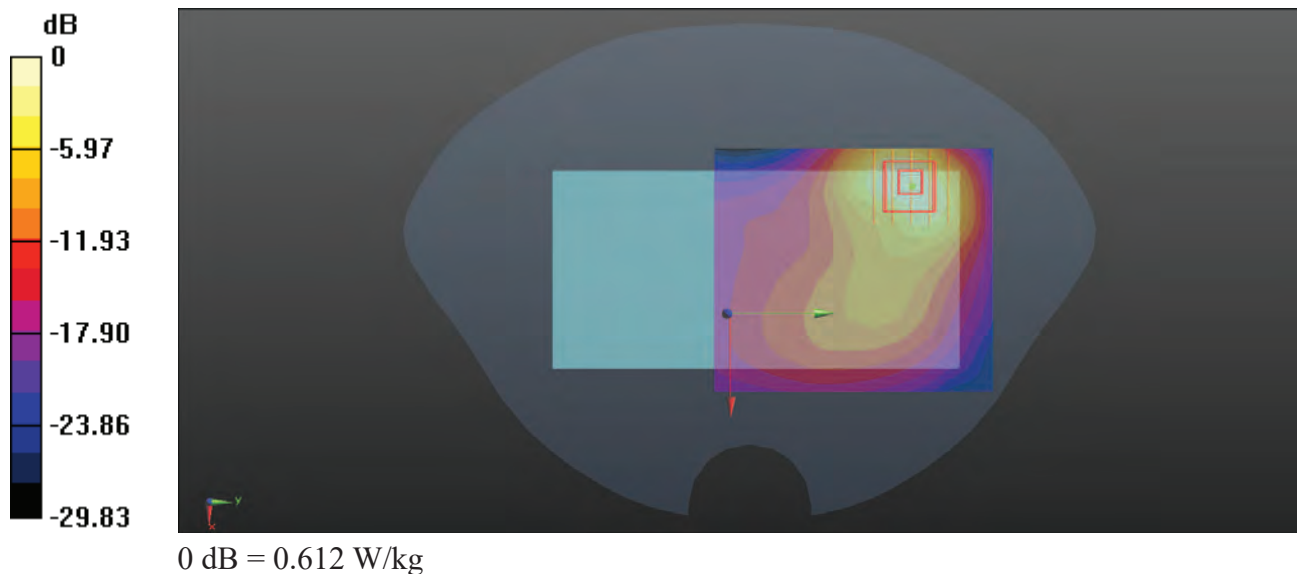
Peak SAR (extrapolated) = 0.986 W/kg

SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.234 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.612 W/kg



P60 LTE 71_QPSK20M_Front Face_1cm_Ch133222_1RB_OS99_Ant0

Communication System: LTE_FDD; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 42.995$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.193 W/kg

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

Reference Value = 12.05 V/m; Power Drift = 0.09 dB

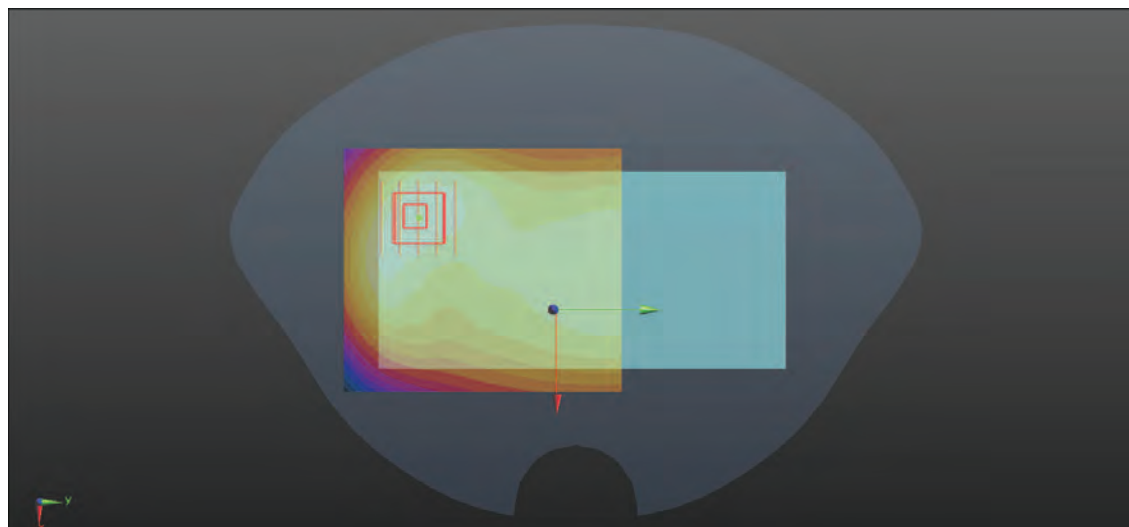
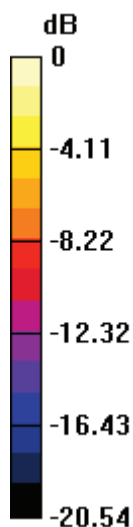
Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.124 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.8%

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg

P61 N2_QPSK20M SCS15KHz_Front Face_1cm_Ch372000_50RB_OS28_Ant2

Communication System: NR; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.645$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1860 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.717 W/kg

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

Reference Value = 2.396 V/m; Power Drift = 0.03 dB

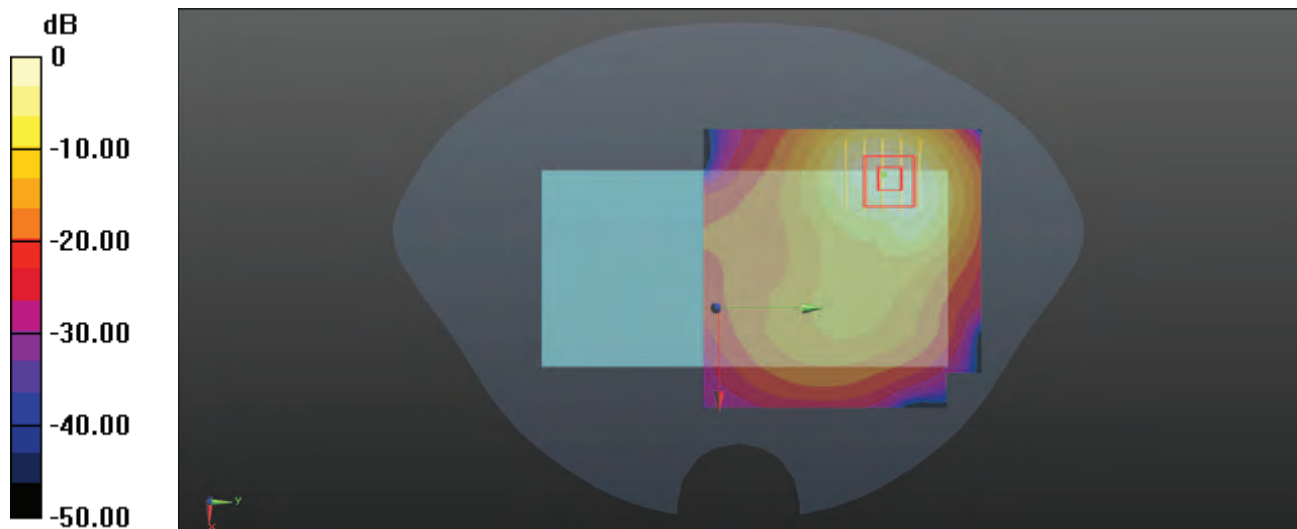
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.752 W/kg



P62 N5_QPSK20M SCS15KHz_Front Face_1cm_Ch167800_1RB_OS1_Ant0

Communication System: NR; Frequency: 839 MHz; Duty Cycle: 1:1

Medium: HSL835_0514 Medium parameters used: $f = 839$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 42.014$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.94, 9.14, 8.98) @ 839 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.384 W/kg

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

Reference Value = 11.42 V/m; Power Drift = 0.03 dB

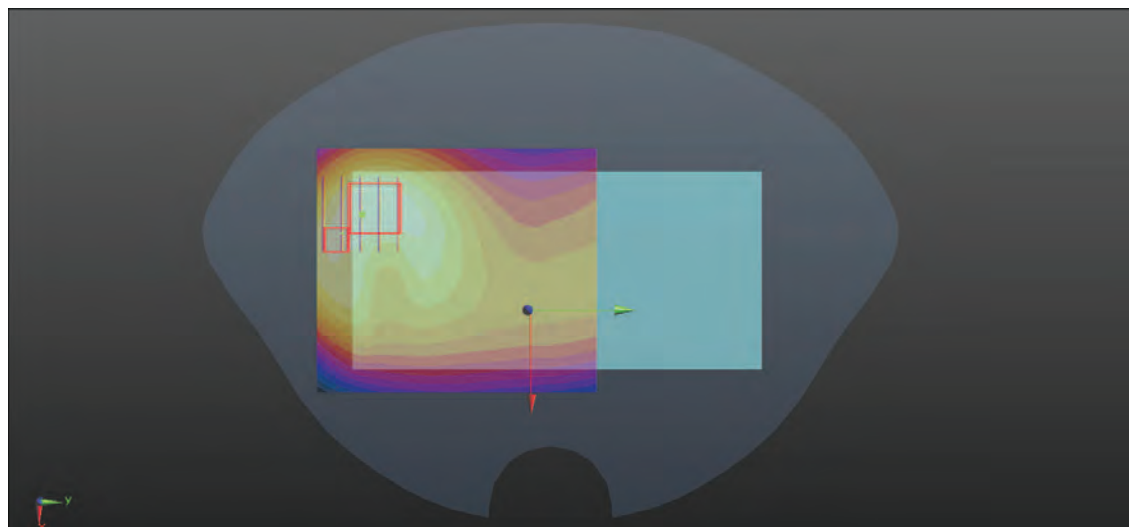
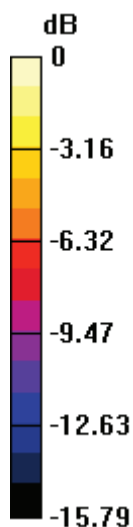
Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.19 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.380 W/kg



0 dB = 0.380 W/kg

P63 N25_QPSK20M SCS15KHz_Front Face_1cm_Ch381000_1RB_OS1_Ant0

Communication System: NR; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL1900_0518 Medium parameters used: $f = 1905$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 39.586$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.76, 7.82, 7.71) @ 1905 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.724 W/kg

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

Reference Value = 8.760 V/m; Power Drift = 0.10 dB

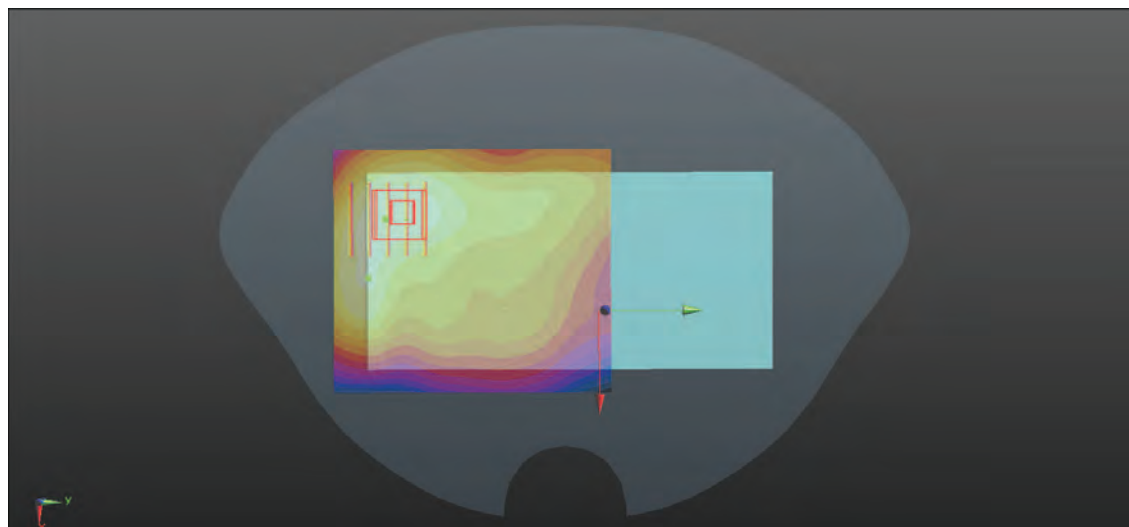
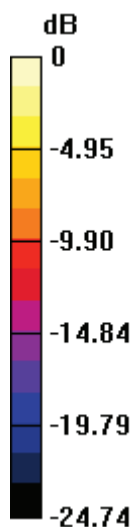
Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.701 W/kg

P64 N41_QPSK100M SCS30KHz_Front Face_1cm_Ch518598_1RB_OS1_Ant0

Communication System: NR; Frequency: 2592.99 MHz; Duty Cycle: 1:0.5

Medium: HSL2600_0504 Medium parameters used: $f = 2593$ MHz; $\sigma = 2$ S/m; $\epsilon_r = 39.331$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.52, 7.57, 7.43) @ 2592.99 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

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

Reference Value = 6.777 V/m; Power Drift = -0.07 dB

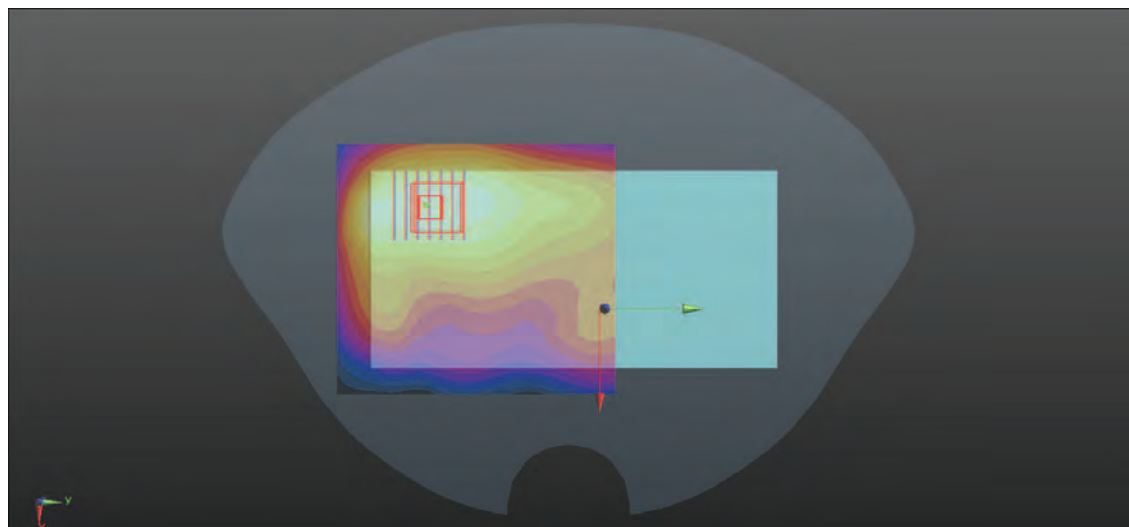
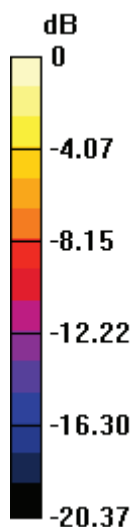
Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.231 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

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



0 dB = 0.500 W/kg

P65 N66_QPSK30M SCS15KHz_Front Face_1cm_Ch353000_80RB_OS0_Ant2

Communication System: NR; Frequency: 1765 MHz; Duty Cycle: 1:1

Medium: HSL1750_0516 Medium parameters used: $f = 1765$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 39.805$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(8.12, 8.17, 8.10) @ 1765 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.690 W/kg

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

Reference Value = 4.783 V/m; Power Drift = 0.04 dB

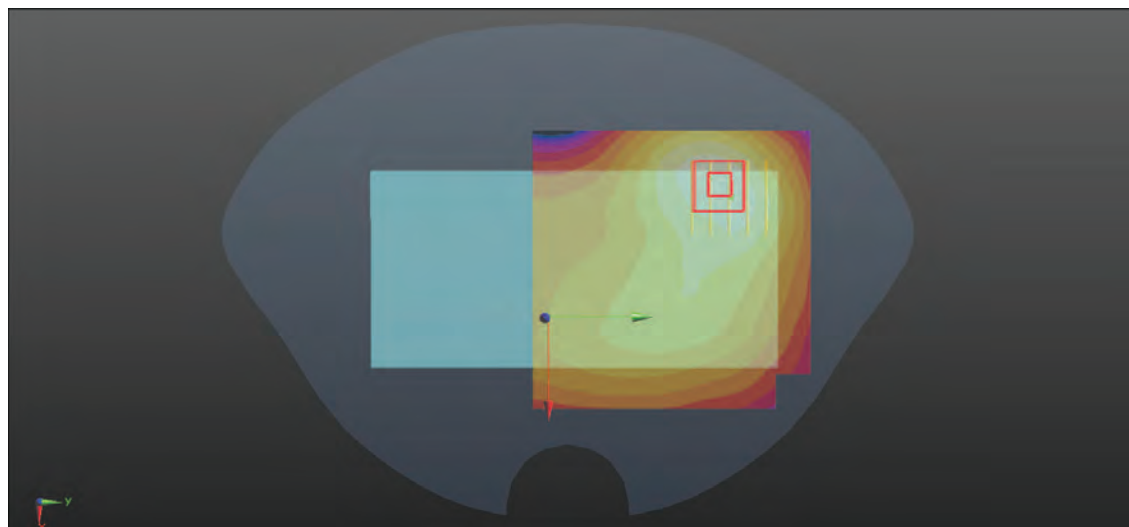
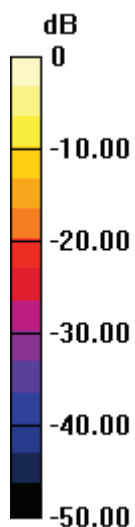
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.290 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.710 W/kg



0 dB = 0.710 W/kg

P66 N71_QPSK20M SCS15KHz_Rear Face_1cm_Ch134600_1RB_OS1_Ant0

Communication System: NR; Frequency: 673 MHz; Duty Cycle: 1:1

Medium: HSL750_0326 Medium parameters used: $f = 673$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 43.045$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(9.34, 8.97, 9.88) @ 673 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.219 W/kg

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

Reference Value = 15.13 V/m; Power Drift = 0.01 dB

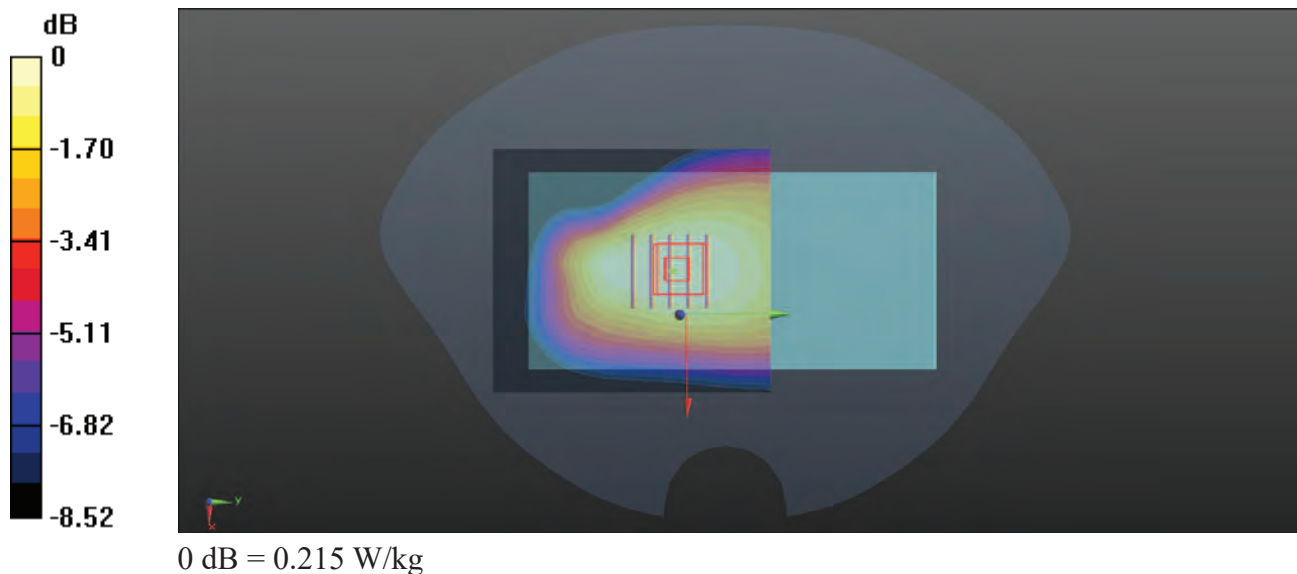
Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.150 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 79%

Maximum value of SAR (measured) = 0.215 W/kg



P67 N77_QPSK100M SCS30KHz_Right Side_1cm_Ch656000_1RB_OS1_Ant7

Communication System: NR; Frequency: 3840 MHz; Duty Cycle: 1:0.5

Medium: HSL3900_0513 Medium parameters used: $f = 3840$ MHz; $\sigma = 3.151$ S/m; $\epsilon_r = 39.131$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(6.5, 6.41, 6.52) @ 3840 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.910 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.67 V/m; Power Drift = -0.13 dB

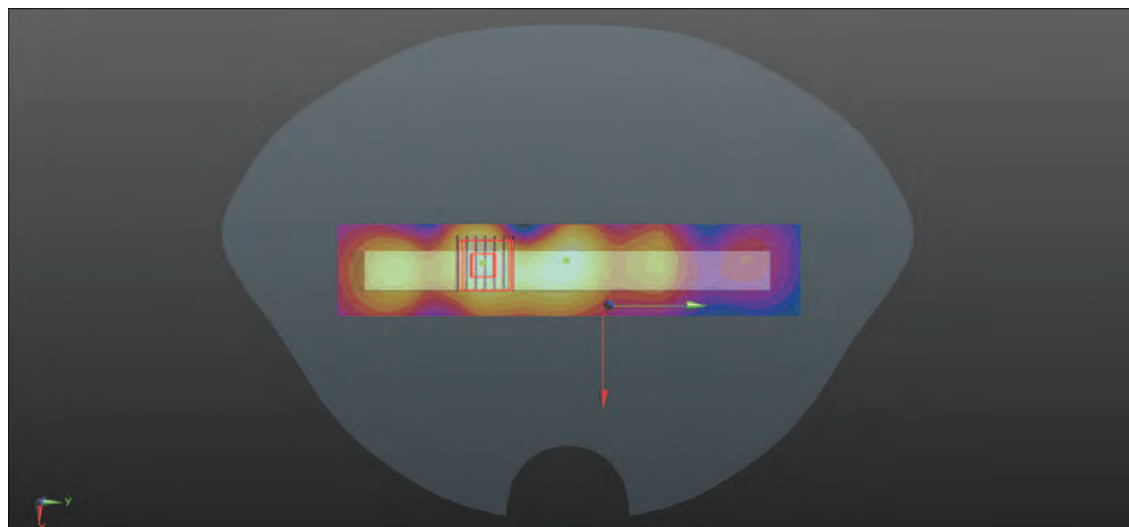
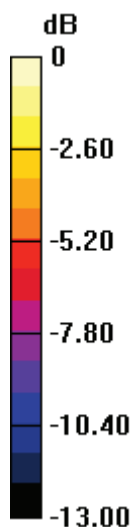
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.291 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 70.4%

Maximum value of SAR (measured) = 0.862 W/kg



0 dB = 0.862 W/kg

P68 WLAN2.4G_802.11b_Rear Face_1cm_Ch6_Ant6+8

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1.001

Medium: HSL2450_0421 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.865$ S/m; $\epsilon_r = 39.588$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 2437 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0887 W/kg

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

Reference Value = 5.031 V/m; Power Drift = -0.01 dB

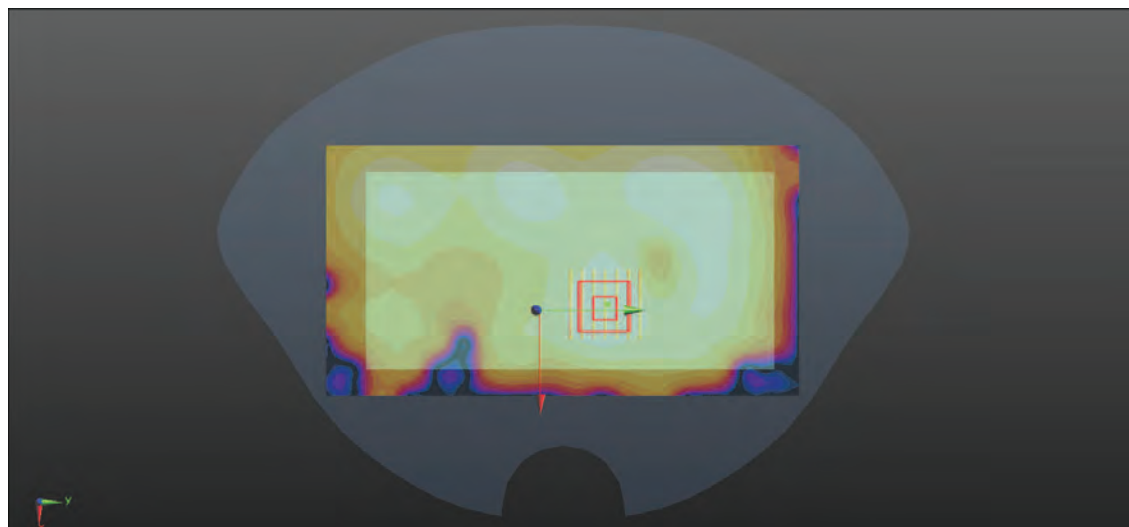
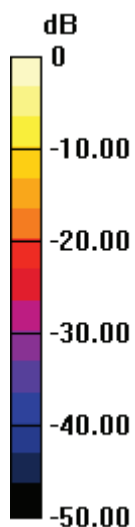
Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.038 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.0875 W/kg



0 dB = 0.0875 W/kg

P69 BT_GFSK_Rear Face_1cm_Ch39_Ant6

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.287

Medium: HSL2450_0325 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.774$ S/m; $\epsilon_r = 39.621$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(7.62, 7.65, 7.52) @ 2441 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0547 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.01 dB

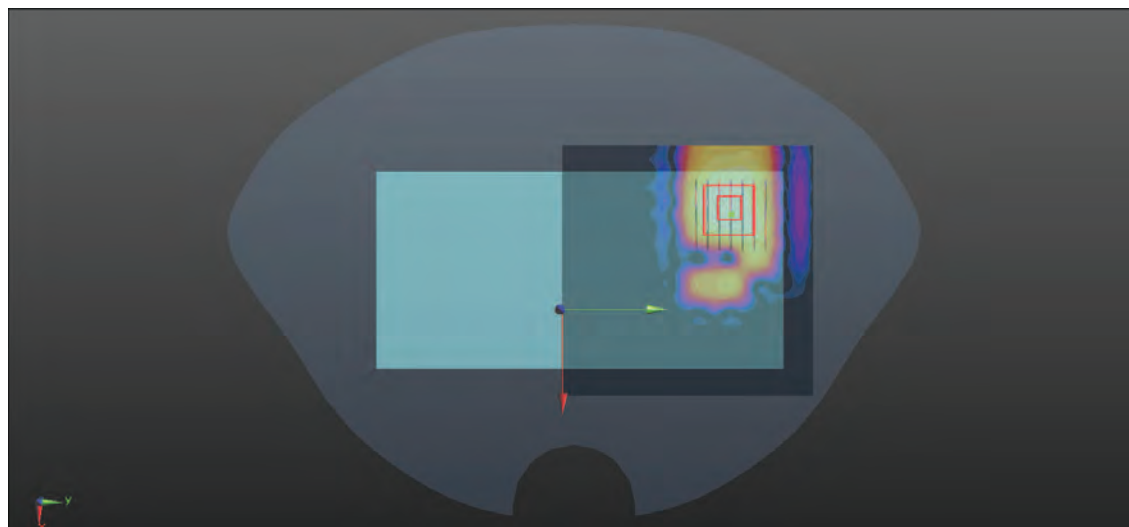
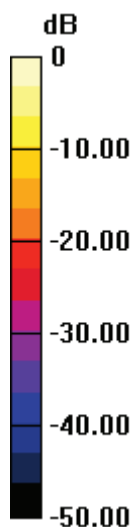
Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.010 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 33.4%

Maximum value of SAR (measured) = 0.0477 W/kg



0 dB = 0.0477 W/kg

P70 WLAN5.3G_802.11ax_HE40_Left Side_0cm_Ch54_Ant8

Communication System: 802.11ax_HE40; Frequency: 5270 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0422 Medium parameters used: $f = 5270$ MHz; $\sigma = 4.652$ S/m; $\epsilon_r = 36.182$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.4°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(5.05, 4.95, 5.04) @ 5270 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (41x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 5.10 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 2.870 V/m; Power Drift = 0.08 dB

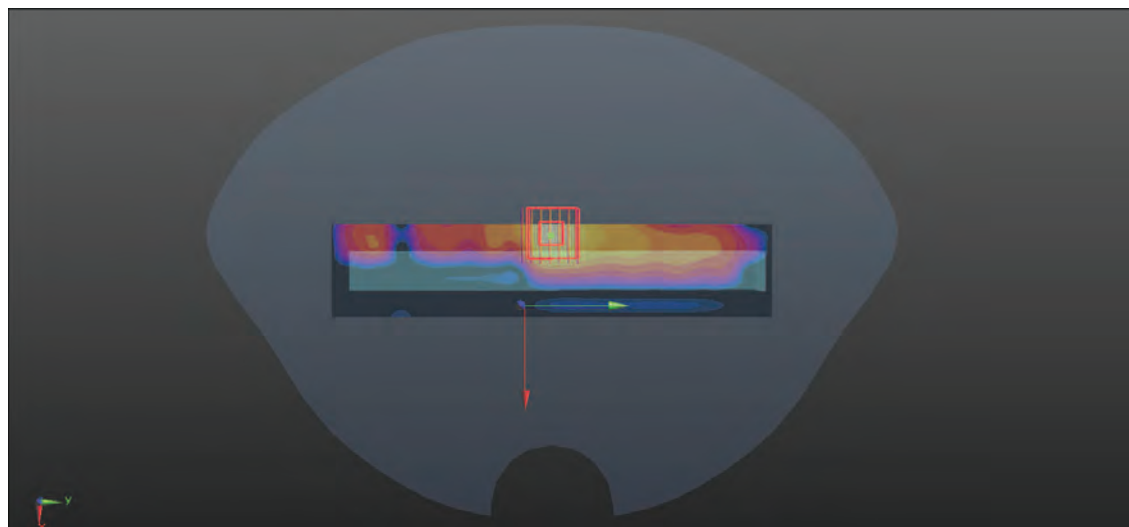
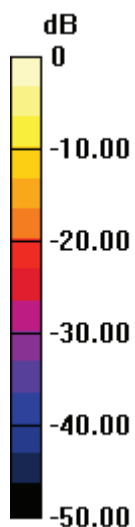
Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 0.47 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 5.56 W/kg



0 dB = 5.56 W/kg

P71 WLAN5.5G_802.11ax_HE40_Rear Face_0cm_Ch110_Ant6

Communication System: 802.11ax_HE40; Frequency: 5550 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0425 Medium parameters used: $f = 5550$ MHz; $\sigma = 4.879$ S/m; $\epsilon_r = 34.736$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.65, 4.62, 4.65) @ 5550 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.76 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

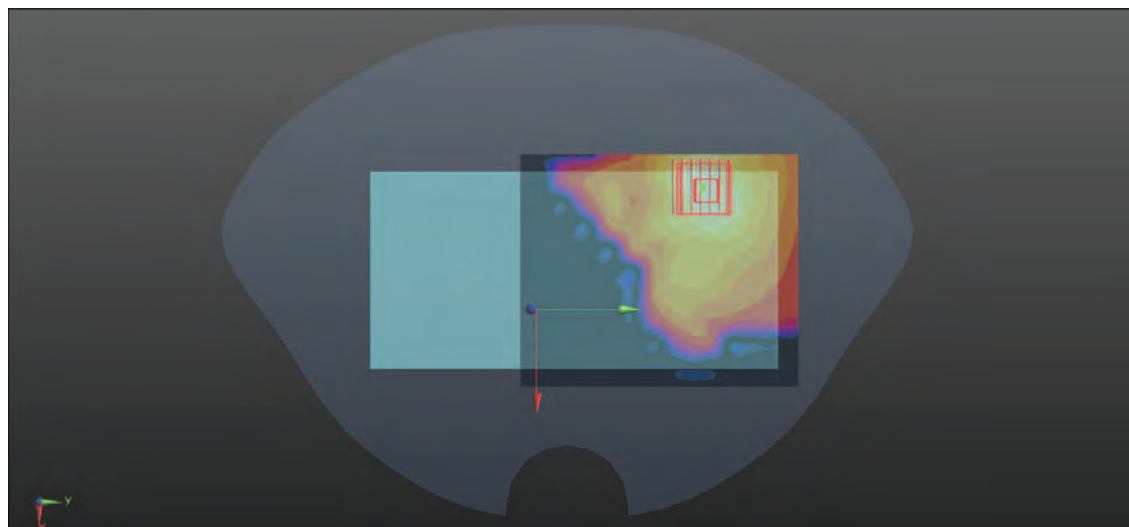
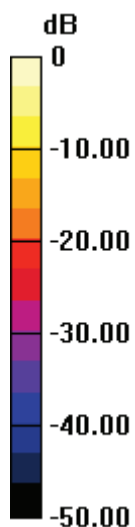
Peak SAR (extrapolated) = 6.67 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.480 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg

P72 WLAN5.8G_802.11ax_HE40_Rear Face_0cm_Ch159_Ant6

Communication System: 802.11ax_HE40; Frequency: 5795 MHz; Duty Cycle: 1:1.004

Medium: HSL5G_0428 Medium parameters used: $f = 5795$ MHz; $\sigma = 5.117$ S/m; $\epsilon_r = 34.184$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV4 - SN3873; ConvF(4.59, 4.56, 4.63) @ 5795 MHz; Calibrated: 2023/08/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2023/11/03
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:1611
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

-Area Scan (101x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.33 W/kg

-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.05 dB

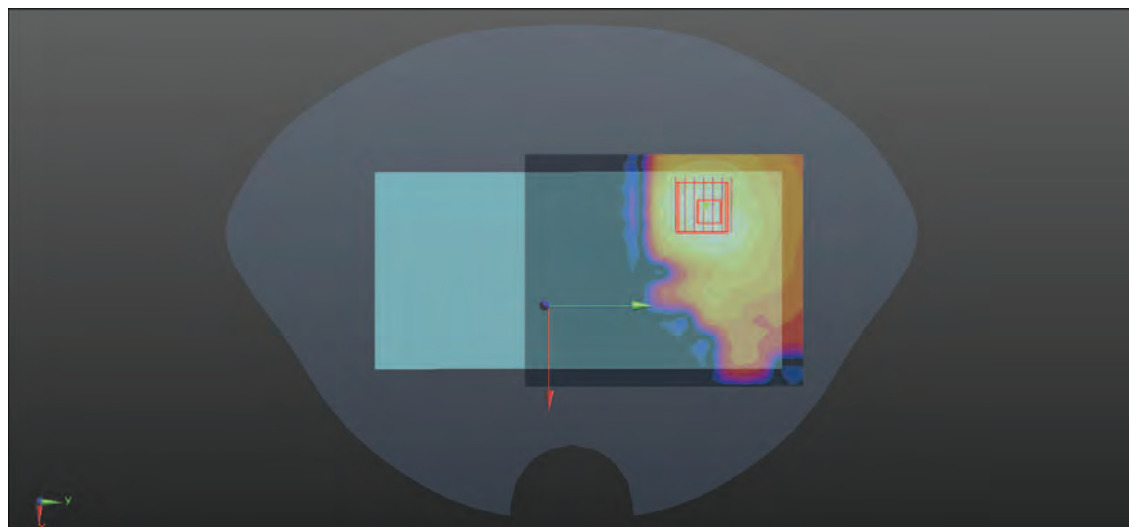
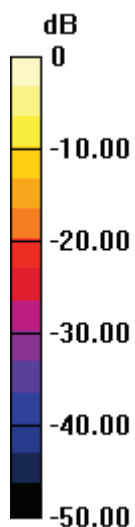
Peak SAR (extrapolated) = 5.59 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.392 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

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



0 dB = 2.45 W/kg



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Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



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中国认可
国际互认
校准
CALIBRATION
CNAS L0570

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E-mail: cttl@chinattl.com http://www.chinattl.cn

Client

7layers

Certificate No: Z21-60420

CALIBRATION CERTIFICATE

Object D750V3 - SN: 1200

Calibration Procedure(s) FF-Z11-003-01
Calibration Procedures for dipole validation kits

Calibration date: October 27, 2021

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 #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Reference Probe EX3DV4	SN 7517	03-Feb-21(CTTL-SPEAG,No.Z21-60001)	Feb-22
DAE4	SN 1556	15-Jan-21(SPEAG,No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	01-Feb-21 (CTTL, No.J21X00593)	Jan-22
NetworkAnalyzer E5071C	MY46110673	14-Jan-21 (CTTL, No.J21X00232)	Jan-22

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: October 31, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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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
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- 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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	42.0	0.90 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	40.9 $\pm$ 6 %	0.88 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.45 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.39 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.57 W/kg $\pm$ 18.7 % (k=2)



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$56.0\Omega + 0.47j\Omega$
Return Loss	- 24.9dB

General Antenna Parameters and Design

Electrical Delay (one direction)	0.946 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

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DASY5 Validation Report for Head TSL

Date: 10.27.2021

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1200

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 40.92$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(9.81, 9.81, 9.81) @ 750 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Reference Value = 55.88 V/m; Power Drift = -0.03 dB

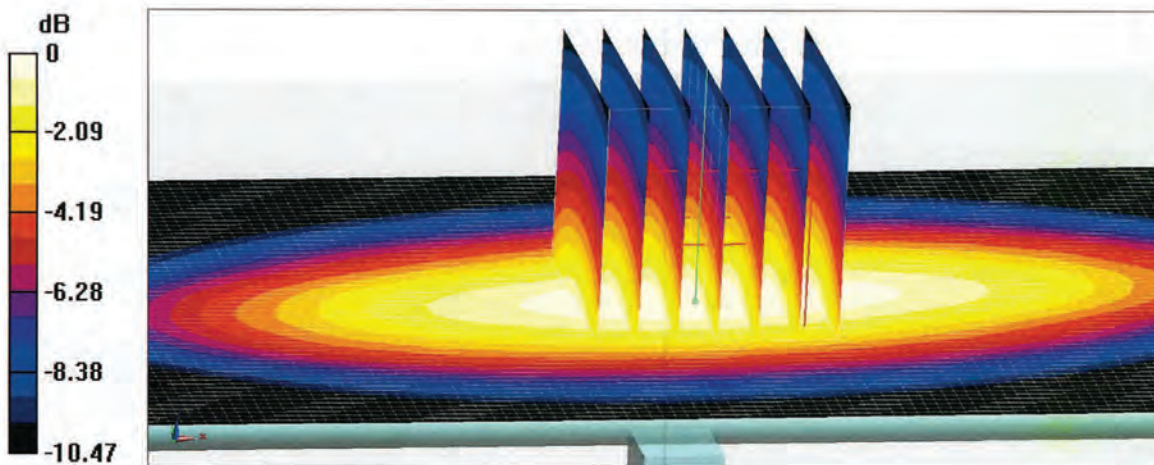
Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.39 W/kg

Smallest distance from peaks to all points 3 dB below = 20.6 mm

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 2.86 W/kg

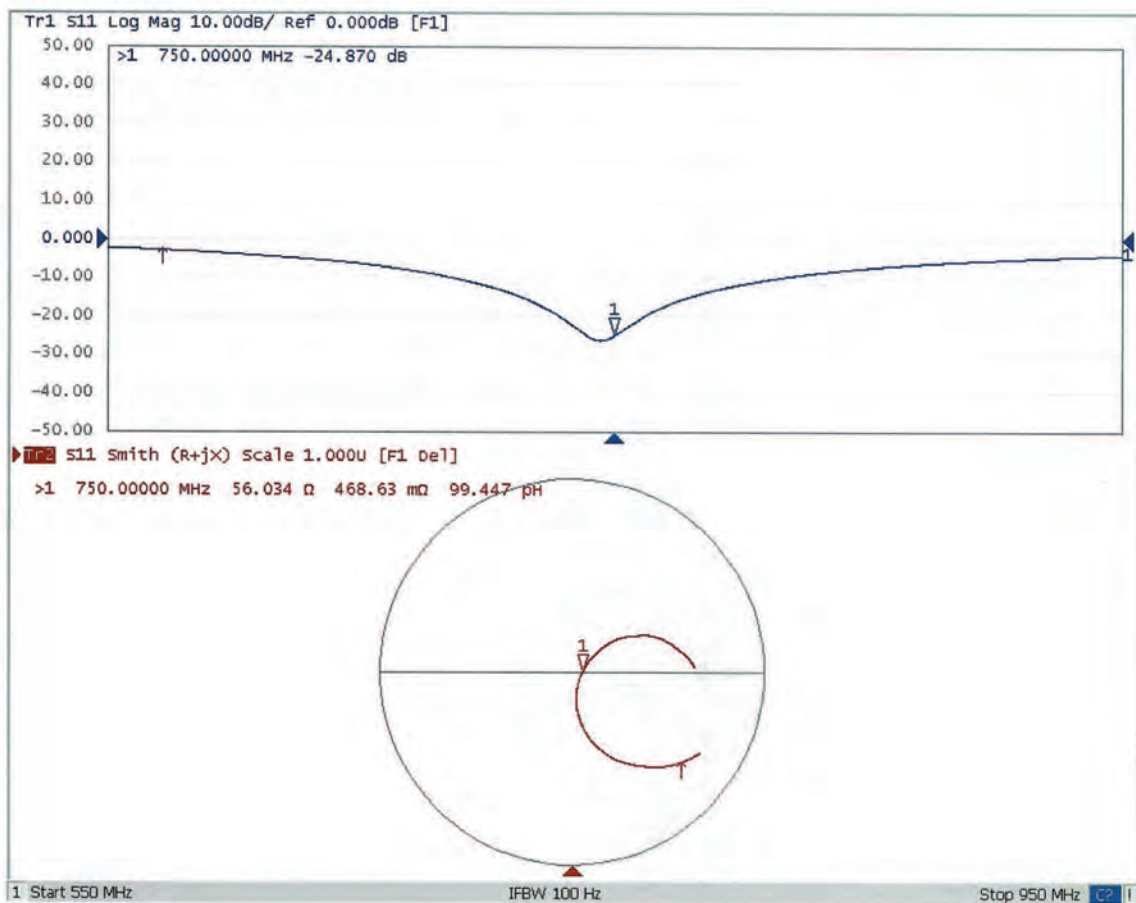


0 dB = 2.86 W/kg = 4.56 dBW/kg



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Impedance Measurement Plot for Head TSL



D750V3 - SN: 1200 Extended Dipole Calibrations

Referring to IEC 62209-1, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

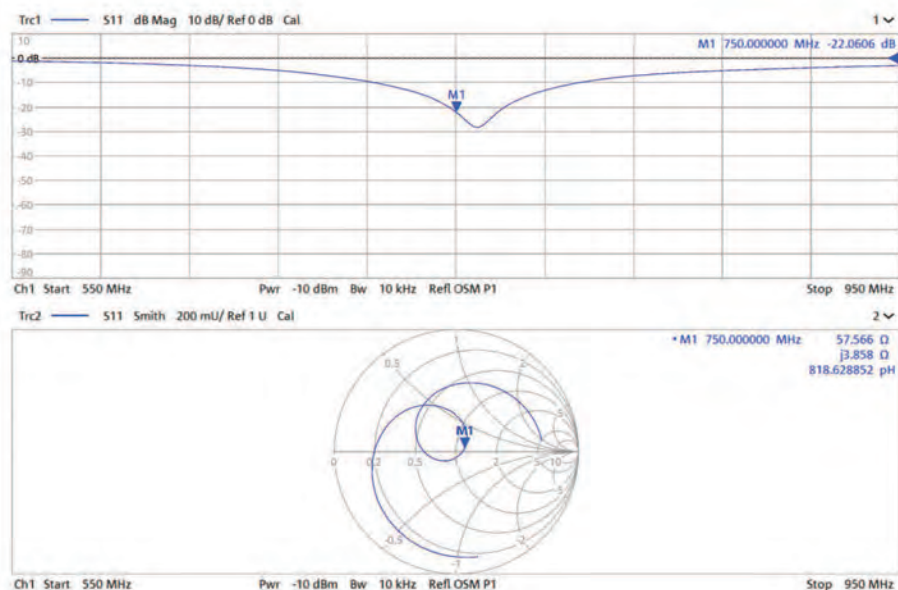
D750V3 - SN: 1200						
750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.27.2021	-24.9		56		0.47	
10.26.2022	-22.06	-11.40	57.57	1.57	3.86	3.39
10.25.2023	-22.57	-9.37	57.69	1.69	2.52	2.05

<Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

<Dipole Verification Data>

Head 750MHz _2022.10.26



<Dipole Verification Data>

Head 750MHz _2023.10.25

