

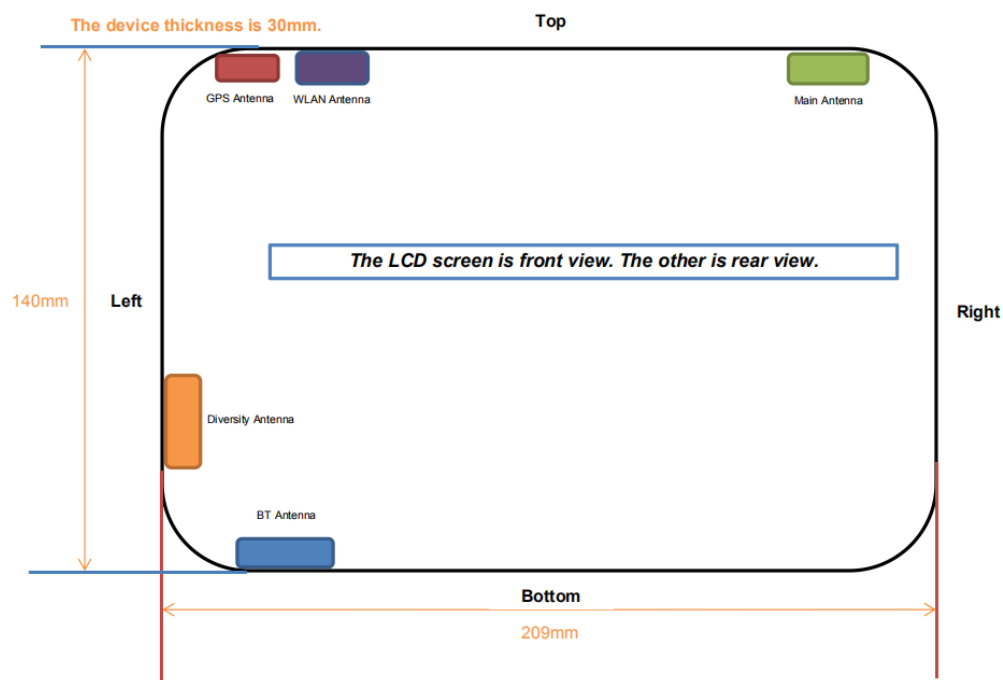
TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 64 of 126

6.3 Transmit Antennas Conditions



Antenna information:

Main Antenna	WCDMA/LTE TX/RX
LTE Diversity Antenna	Only RX
WLAN/BT Antenna	WLAN/BT TX/RX
WLAN Diversity Antenna	Only RX

Distance of the Antenna to the EUT surface and edge (mm)						
Antenna	Front	Back	Top	Bottom	Left	Right
Main Antenna	4.8	3.3	1.9	129.3	125	11.5
WLAN Antenna	4	3.8	2.2	128	38	136
BT Antenna	4.8	4.8	133	3	20.6	146

Note(s):

- Per KDB648474 D04, because the overall diagonal distance of this devices is 100mm<160mm, it is considered as "Mini Table" device.
- Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2 W/Kg.
- According to the KDB941225 D06 Hot Spot SAR v02, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.
- Referring to KDB 941225 D06 v02, When the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 65 of 126

6.4 SAR Test Exclusion Consideration Table

For FCC

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as below.

For IC

According with section 2.5.1 of RSS-102 Issue 5, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table.

Exemption Limits (mW)					
Frequency (MHz)	At separation distance of ≤ 5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤ 300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥ 50 mm
≤ 300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	315 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 66 of 126

SAR Test Exclusion Consideration Table:

Band	Mode	Max. Tune-up Power		Test Position Configurations					
		dBm	mW	Head	Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WCDMA Band 2	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	RMC	16.50	44.67	N/A	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	RMC	17.00	50.12	N/A	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	RMC	18.50	70.79	N/A	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	16.00	39.81	N/A	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	16.50	44.67	N/A	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	20.30	107.15	N/A	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	16.50	44.67	N/A	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	21.50	141.25	N/A	Yes	No	Yes	Yes	No
LTE Band 13	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	20.50	112.20	N/A	Yes	No	Yes	Yes	No
LTE Band 14	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	19.60	91.20	N/A	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	23.50	223.87	N/A	Yes	No	Yes	Yes	No
LTE Band 25	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	16.00	39.81	N/A	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	20.80	120.23	N/A	Yes	No	Yes	Yes	No
LTE Band 30	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	20.00	100.00	N/A	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	18.50	70.79	N/A	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			N/A	3.3mm	125mm	11.5mm	1.9mm	129.3mm
	QPSK	18.50	70.79	N/A	Yes	No	Yes	Yes	No
WLAN 2.4 G	Distance to User			N/A	3.8mm	38mm	136mm	2.2mm	128mm
	802.11b	15.00	31.62	N/A	Yes	Yes	No	Yes	No

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 67 of 126

	802.11g	14.80	30.20	N/A	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	N/A	No	No	No	No	No
	802.11n(HT40)	14.30	26.92	N/A	No	No	No	No	No
WLAN 5.2 G	Distance to User			N/A	3.8mm	38mm	136mm	2.2mm	128mm
	802.11a	14.00	25.12	N/A	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	N/A	Yes	Yes	No	Yes	No
	802.11ac(HT20)	14.30	26.92	N/A	No	No	No	No	No
	802.11n(HT40)	14.00	25.12	N/A	No	No	No	No	No
	802.11ac(HT40)	13.80	23.99	N/A	No	No	No	No	No
	802.11ac(HT80)	13.50	22.39	N/A	No	No	No	No	No
WLAN 5.8 G	Distance to User			N/A	3.8mm	38mm	136mm	2.2mm	128mm
	802.11a	13.50	22.39	N/A	Yes	Yes	No	Yes	No
	802.11n(HT20)	13.00	19.95	N/A	No	No	No	No	No
	802.11ac(HT20)	13.40	21.88	N/A	No	No	No	No	No
	802.11n(HT40)	13.00	19.95	N/A	No	No	No	No	No
	802.11ac(HT40)	12.50	19.05	N/A	No	No	No	No	No
	802.11ac(HT80)	12.50	17.78	N/A	No	No	No	No	No
Bluetooth	Distance to User			N/A	4.8mm	20.6mm	146mm	133mm	3mm
	BR/EDR	4	2.51	N/A	No	No	No	No	No
	BLE	3	2.00	N/A	No	No	No	No	No

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
- Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
- Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.
This formula is $[3.0] / [\sqrt{f(\text{GHz})}] \cdot [(\text{min. test separation distance, mm})] = \text{exclusion threshold of mW}$.
- Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 68 of 126

- b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
- a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
- b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
- a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
- b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

TEST REPORT

Report No.: SHE21100005-02XE

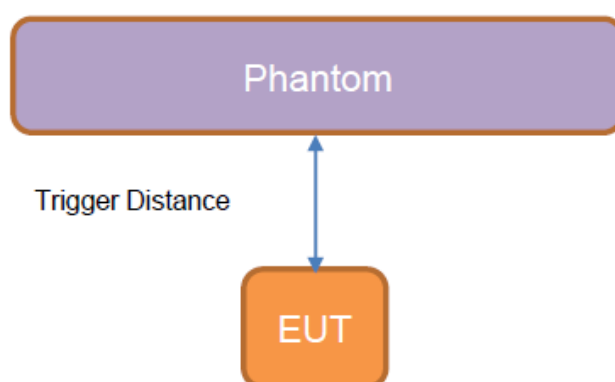
Date: 2022-01-22

Page 69 of 126

6.5 Proximity Sensor Triggering Test

Proximity sensor triggering distances

Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment.



Distance in mm	25	26	27	28	29	30	31	32	33
Back Side	Off	Off	Off	Off	Off	Off	Off	Off	Off
Left Side	Off	Off	Off	Off	Off	Off	Off	Off	Off
Right Side	Off	Off	Off	Off	Off	Off	Off	Off	Off
Top Side	Off	Off	Off	Off	On	On	On	On	Off
Bottom Side	Off	Off	Off	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for 2G/3G/4G.

Proximity sensor coverage

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

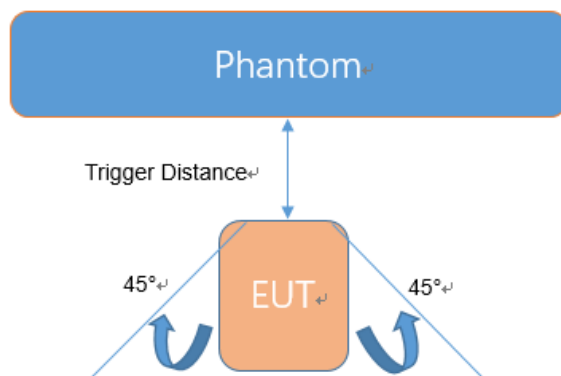
Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 70 of 126



For verification of compliance of power reduction scheme, additional SAR test with EUT transmitting at full RF power at a separation of “the triggering distance – 1 mm”

The Sensor Triggering Distance (mm)			
Position	Back	Right	Top
Required SAR Test	N/A	N/A	30

6.6 SAR Measurement Results

WCDMA Band II

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot												
RMC	on	Top Edge	0	9262	1852.4	-0.16	0.488	15.94	16.50	1.14	0.555	1#
	off	Top Edge	30	9538	1907.6	-0.17	0.100	22.90	23.50	1.15	0.115	
		Back Side	0	9262	1852.4	-0.14	0.758	22.56	23.50	1.24	0.941	2#
			0	9400	1880.0	-0.14	0.682	22.73	23.50	1.19	0.814	
			0	9538	1907.6	-0.14	0.670	22.90	23.50	1.15	0.769	

WCDMA Band IV

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot												

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 71 of 126

RMC	on	Top Edge	0	1513	1752.6	-0.18	0.555	16.85	17.50	1.16	0.645	3#
	off	Top Edge	30	1513	1752.6	-0.17	0.099	24.09	24.50	1.10	0.109	
		Back Side	0	1513	1752.6	-0.12	0.726	24.09	24.50	1.10	0.798	4#

WCDMA Band V

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot												
RMC	on	Top Edge	0	4233	846.6	-0.18	0.510	18.08	18.50	1.10	0.562	5#
	off	Top Edge	30	4233	846.6	-0.01	0.061	22.79	23.00	1.05	0.064	
		Back Side	0	4233	846.6	0.00	0.300	22.79	23.00	1.05	0.315	6#

Note(s):

- WCDMA mode in Body SAR was tested under RMC 12.2 kbps without HSPA inactive per KDB Publication 941225 D01v03. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

LTE Band 2 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	19100	1900	1	Low	-0.13	0.573	15.58	16.00	1.10	0.631	
				19100	1900	50	Low	-0.12	0.638	15.69	16.00	1.07	0.685	7#
	off	Top Edge	30	19100	1900	1	Low	-0.15	0.101	22.93	23.50	1.14	0.115	
				19100	1900	50	Low	-0.16	0.084	21.91	22.50	1.15	0.096	
		Back Side	0	18700	1860	1	High	-0.13	0.786	22.55	23.50	1.24	0.978	
				18900	1880	1	Low	-0.20	0.842	22.67	23.50	1.21	1.019	
				19100	1900	1	Low	-0.14	0.915	22.93	23.50	1.14	1.043	8#
				19100	1900	50	Low	-0.05	0.691	21.91	22.50	1.15	0.792	
				19100	1900	100	Low	-0.15	0.670	21.89	22.50	1.15	0.771	

LTE Band 4 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
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TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 72 of 126

Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	20300	1745.0	1	Low	-0.15	0.678	16.02	16.50	1.12	0.757	9#
				20300	1745.0	50	Low	-0.18	0.676	16.01	16.50	1.12	0.757	
	off	Top Edge	30	20175	1732.5	1	Low	-0.11	0.099	23.15	23.50	1.08	0.107	
				20175	1732.5	50	Low	-0.18	0.078	22.11	22.50	1.09	0.085	
		Back Side	0	20050	1720.0	1	High	-0.10	0.925	23.07	23.50	1.10	1.021	
				20175	1732.5	1	Low	-0.10	0.916	23.15	23.50	1.08	0.993	
				20300	1745.0	1	Low	-0.16	0.977	23.14	23.50	1.09	1.061	10#
				20050	1720.0	50	High	-0.10	0.734	22.08	22.50	1.10	0.809	
				20175	1732.5	50	Low	-0.07	0.749	22.11	22.50	1.09	0.819	
				20300	1745.0	50	Low	-0.10	0.789	22.06	22.50	1.11	0.873	
				20050	1720.0	100	Low	-0.12	0.659	22.05	22.50	1.11	0.731	
				20175	1732.5	100	Low	-0.05	0.744	22.05	22.50	1.11	0.825	
				20050	1745.0	100	Low	-0.12	0.617	21.96	22.50	1.13	0.699	

LTE Band 5 (10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	20600	844	1	High	-0.18	0.457	19.72	20.30	1.14	0.522	
				20600	844	25	Mid	-0.19	0.451	19.67	20.30	1.16	0.521	11#
	off	Top Edge	30	20450	829	1	Low	-0.13	0.061	22.98	23.50	1.13	0.069	
				20600	844	25	Mid	-0.14	0.046	21.92	22.50	1.14	0.053	
		Back Side	0	20450	829	1	Low	0.02	0.324	22.98	23.50	1.13	0.365	12#
				20600	844	25	Mid	0.05	0.252	21.92	22.50	1.14	0.288	

LTE Band 7 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	21350	2560	1	Low	-0.16	0.411	16.01	16.50	1.12	0.460	13#
				21350	2560	50	Low	-0.10	0.410	15.92	16.30	1.09	0.447	
	off	Top Edge	30	21350	2560	1	Low	-0.03	0.192	23.16	23.50	1.08	0.208	
				21350	2560	50	Low	-0.01	0.153	22.02	22.50	1.12	0.171	
		Back Side	0	21350	2560	1	Low	0.00	0.393	23.16	23.50	1.08	0.425	14#
				21350	2560	50	Low	-0.14	0.291	22.02	22.50	1.12	0.325	

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 73 of 126

LTE Band 12 (10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	23130	711.0	1	High	-0.12	0.652	20.84	21.50	1.16	0.759	15#
				23060	704.0	25	Low	-0.13	0.632	20.82	21.30	1.12	0.706	
	off	Top Edge	30	23130	711.0	1	Low	-0.01	0.056	22.96	23.50	1.13	0.063	
				23095	707.5	25	Low	-0.17	0.037	22.02	22.30	1.07	0.039	
		Back Side	0	23130	711.0	1	Low	0.03	0.294	22.96	23.50	1.13	0.333	16#
				23095	707.5	25	Low	0.03	0.210	22.02	22.30	1.07	0.224	

LTE Band 13 (10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	23230	782	1	Low	-0.16	0.596	19.79	20.50	1.18	0.702	
				23230	782	25	Low	-0.17	0.611	19.80	20.50	1.17	0.718	17#
	off	Top Edge	30	23230	782	1	Low	0.00	0.062	22.90	23.50	1.15	0.071	
				23230	782	25	Low	-0.02	0.049	21.86	22.30	1.11	0.054	
		Back Side	0	23230	782	1	Low	-0.12	0.386	22.90	23.50	1.15	0.443	18#
				23230	782	25	Low	-0.03	0.294	21.86	22.30	1.11	0.325	

LTE Band 14 (10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	23330	793	1	Low	-0.17	0.624	19.33	19.60	1.06	0.664	
				23330	793	25	Low	-0.17	0.631	18.29	18.60	1.07	0.678	19#
	off	Top Edge	30	23330	793	1	Low	0.04	0.061	23.49	24.00	1.12	0.069	
				23330	793	25	Low	-0.01	0.046	22.45	22.80	1.08	0.050	
		Back Side	0	23330	793	1	Low	-0.18	0.334	23.49	24.00	1.12	0.376	20#
				23330	793	25	Low	-0.01	0.257	22.45	22.80	1.08	0.279	

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 74 of 126

LTE Band 17 (10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	23800	711	1	High	-0.11	0.433	23.09	23.50	1.10	0.476	21#
				23800	711	25	Mid	-0.13	0.408	21.98	22.50	1.13	0.460	
	off	Top Edge	30	23800	711	1	High	-0.05	0.034	24.08	24.50	1.10	0.037	
				23780	709	25	Low	-0.14	0.024	23.07	23.50	1.10	0.026	
		Back Side	0	23800	711	1	High	-0.13	0.217	24.08	24.50	1.10	0.239	22#
				23780	709	25	Low	-0.15	0.156	23.07	23.50	1.10	0.172	

LTE Band 25 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	26590	1905.0	1	Low	-0.14	0.626	15.61	16.00	1.09	0.685	23#
				26365	1882.5	50	Low	-0.12	0.587	15.57	16.00	1.10	0.648	
	off	Top Edge	30	26590	1905.0	1	Low	-0.17	0.105	23.06	23.50	1.11	0.116	
				26590	1905.0	50	Low	-0.14	0.080	22.08	22.50	1.10	0.088	
		Back Side	0	26140	1860.0	1	Mid	-0.09	0.813	22.71	23.50	1.20	0.975	24#
				26365	1882.5	1	Low	-0.13	0.819	22.85	23.50	1.16	0.951	
				26590	1905.0	1	Low	-0.14	0.880	23.06	23.50	1.11	0.974	
				26590	1905.0	50	Mid	-0.13	0.675	22.08	22.50	1.10	0.744	
				26590	1905.0	100	Low	-0.12	0.660	21.94	22.50	1.14	0.751	

LTE Band 26 (15MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	26765	821.5	1	Low	-0.18	0.312	20.28	20.80	1.13	0.352	25#
				26765	821.5	36	Low	-0.19	0.294	19.96	20.50	1.13	0.333	
	off	Top Edge	30	26965	841.5	1	Low	-0.05	0.073	24.89	25.50	1.15	0.084	

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 75 of 126

				26865	831.5	36	Low	0.04	0.051	23.52	24.00	1.12	0.057	
		Back Side	0	26965	841.5	1	Low	-0.02	0.337	24.89	25.50	1.15	0.388	26#
				26865	831.5	36	Low	0.01	0.242	23.52	24.00	1.12	0.270	

LTE Band 30(10MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	27710	2310	1	Low	-0.02	0.571	19.48	20.00	1.13	0.644	27#
				27710	2310	25	Low	-0.01	0.565	18.46	19.00	1.13	0.640	
	off	Top Edge	30	27710	2310	1	Low	-0.01	0.150	23.30	23.50	1.05	0.157	
				27710	2310	25	Low	-0.08	0.118	22.28	22.50	1.05	0.124	
		Back Side	0	27710	2310	1	Low	-0.06	0.633	23.30	23.50	1.05	0.663	28#
				27710	2310	25	Low	-0.10	0.498	22.28	22.50	1.05	0.524	

LTE Band 41 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	40620	2593	1	Low	0.05	0.350	17.86	18.50	1.16	0.406	29#
				40620	2593	50	Low	0.15	0.311	17.70	18.30	1.15	0.357	
	off	Top Edge	30	40620	2593	1	Low	0.00	0.118	23.38	24.00	1.15	0.136	
				40620	2593	50	Low	-0.02	0.090	22.31	22.80	1.12	0.101	
		Back Side	0	40620	2593	1	Low	-0.16	0.223	23.38	24.00	1.15	0.257	30#
				40620	2593	50	Low	-0.14	0.163	22.31	22.80	1.12	0.182	

LTE Band 66 (20MHz Bandwidth)

Mode	SAR Power Back-off	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot														
QPSK	on	Top Edge	0	132572	1770.0	1	Low	-0.17	0.562	18.19	18.50	1.07	0.604	
				132572	1770.0	50	Low	-0.20	0.578	18.25	18.50	1.06	0.612	31#
	off	Top Edge	30	132572	1770.0	1	High	-0.12	0.170	24.99	25.50	1.12	0.191	
				132572	1770.0	50	High	-0.15	0.130	23.81	24.20	1.09	0.142	

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 76 of 126

				132072	1720.0	1	Low	-0.06	0.936	24.40	25.00	1.15	1.075	
				132322	1745.0	1	Low	-0.03	1.050	24.48	25.00	1.13	1.184	
				132572	1770.0	1	High	-0.14	1.170	24.99	25.50	1.12	1.316	32#
				132072	1720.0	50	Low	-0.04	0.752	23.40	24.20	1.20	0.904	
				132322	1745.0	50	Low	-0.06	0.834	23.54	24.20	1.16	0.971	
				132572	1770.0	50	High	-0.15	0.922	23.81	24.20	1.09	1.009	
				132072	1720.0	100	Low	0.17	0.684	23.34	24.20	1.22	0.834	
				132322	1745.0	100	Low	-0.19	0.724	23.47	24.20	1.18	0.857	
				132572	1770.0	100	Low	-0.08	0.912	23.76	24.20	1.11	1.009	

Note(s):

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r05.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results.

WLAN 2.4 GHz

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot													
802.11b	Top Edge	0	1	2412	0.14	0.105	14.52	15.00	1.12	98.43	1.016	0.117	33#

WLAN 5.2 GHz

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot													
802.11 n (HT20)	Top Edge	0	44	5220	-0.16	0.158	14.30	14.50	1.05	99.38	1.006	0.165	34#

WLAN 5.8 GHz

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR 1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	Report SAR 1 g (W/Kg)	Meas. No.
Body-worn Accessory & Hotspot													
802.11 ac(HT20)	Top Edge	0	149	5745	-0.18	0.169	13.26	13.50	1.06	99.28	1.007	0.179	35#

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 77 of 126

Note(s):

1. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
3. Per KDB 248227 D01 5G WLAN Subsequent Test Configuration Procedures
SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units.
 - a. When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
 - b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

General Note(s):

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 865664 D01v01r04 and FCC KDB Publication 447498 D01v06.
2. All modes of operation were investigated, and worst-case results are reported.
3. The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
5. Per FCC KDB Publication 648474 D04v01r03, body worn SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤ 1.2 W/kg, no additional body worn SAR evaluations using a headset cable were required.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than 0.8 W/kg.
7. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 78 of 126

such test configuration(s). When the maximum output power variation across the required test channels is >1/2 dB, instead of the middle channel, the highest output power channel must be used.

6.7 SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Frequency band	Test Position	Mode	Ch.	Original 1g SAR (W/kg)	1st Repeated 1g SAR (W/kg)	Largest to Smallest SAR Ratio
WCDMA II	Back	RMC	9262	0.758	0.728	1.041
WCDMA IV	Back	RMC	1513	0.726	0.730	1.006
LTE B2	Back	QPSK	19100	0.915	0.904	1.012
LTE B4	Back	QPSK	20300	0.977	0.977	1.000
LTE B25	Back	QPSK	26140	0.813	0.821	1.010
LTE B66	Back	QPSK	132572	1.170	1.160	1.009

Note(s):

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

6.8 Standalone SAR Test Exclusion Considerations and Estimated SAR

KDB 447498 D01v06 General RF Exposure Guidance v06, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 79 of 126

both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i < 0.04$$

For simultaneous transmission analysis, Bluetooth SAR estimated per KDB 447498 D01v06 based on the formula below:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$, for test separation distances $\leq 50 \text{ mm}$; where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is $> 50 \text{ mm}$.

Bluetooth Turn-up Power (dBm)	Frequency (GHz)	Exposure Position	Test Separation (mm)	Estimated 1g SAR (W/kg)
4	2.45	Body-Worn	5	0.167
4	2.45	Hotspot	5	0.167

6.9 Simultaneous Transmission SAR Considerations

Sum of the SAR for WCDMA + WLAN & Bluetooth

Condition	Simultaneous Transmission Scenario (W/Kg)				Max Σ 1-g SAR (W/Kg)	SPLSR (Yes/ No)
	WCDMA	WLAN DTS Band	WLAN UNII Band	Bluetooth		
Body-Worn	0.941	0.117	0.179	0.167	1.120	No
Hotspot	0.941	0.117	0.179	0.167	1.120	No

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is $< 1.6 \text{ W/kg}$ or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Sum of the SAR for LTE + WLAN & Bluetooth

Condition	Simultaneous Transmission Scenario (W/Kg)				Max Σ 1-g SAR (W/Kg)	SPLSR (Yes/ No)
	LTE	WLAN DTS Band	WLAN UNII Band	Bluetooth		
Body-Worn	1.316	0.117	0.179	0.167	1.495	No
Hotspot	1.316	0.117	0.179	0.167	1.495	No

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is $< 1.6 \text{ W/kg}$ or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

TEST REPORT

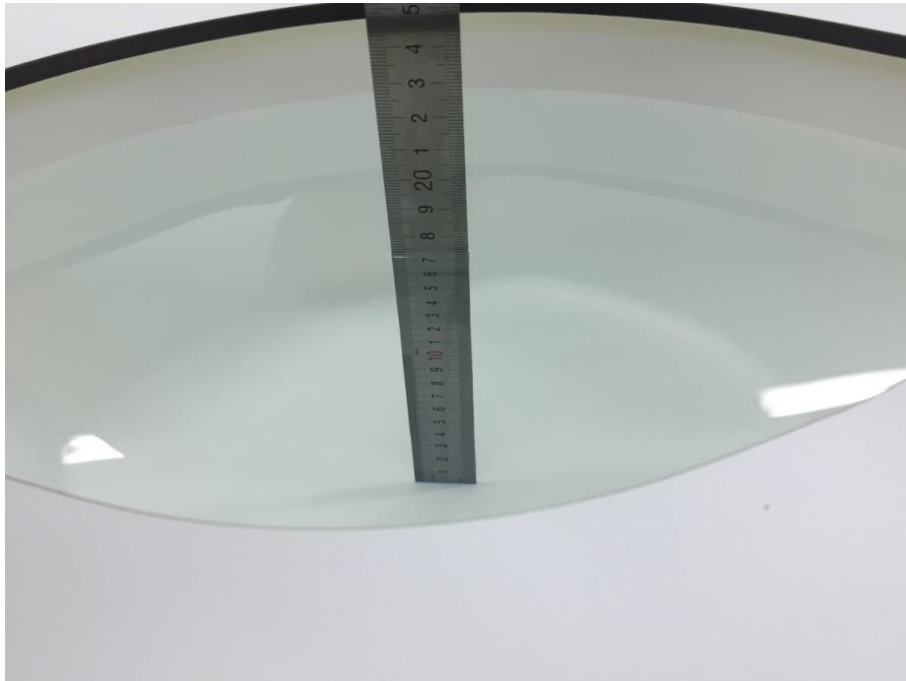
Report No.: SHE21100005-02XE

Date: 2022-01-22

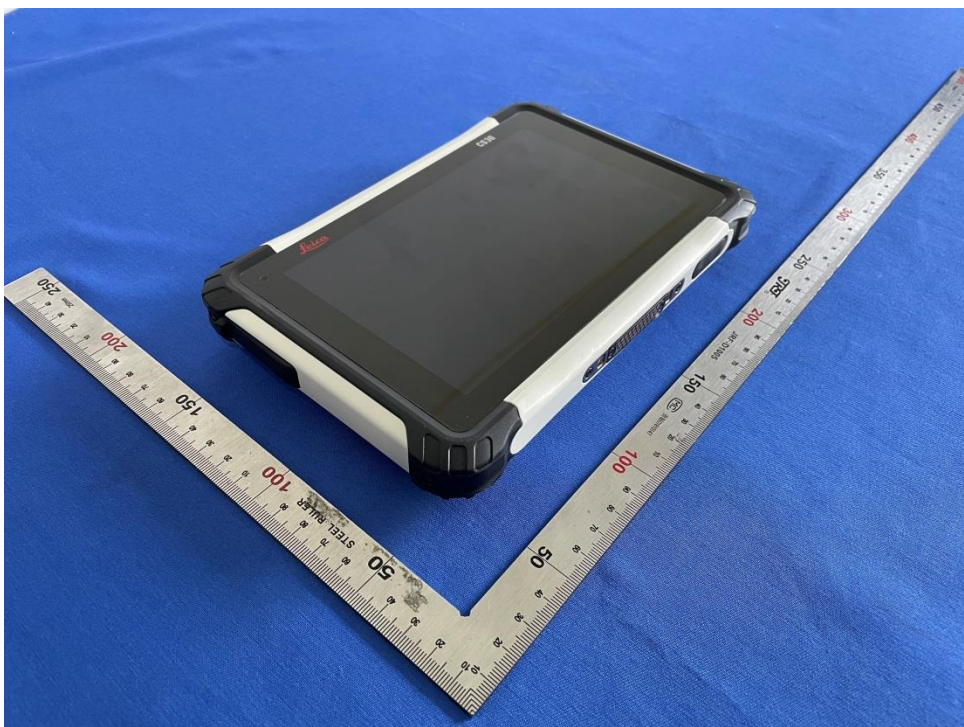
Page 80 of 126

7 Appendixes

7.1 Liquid depth



7.2 Sample and Set-up Photos



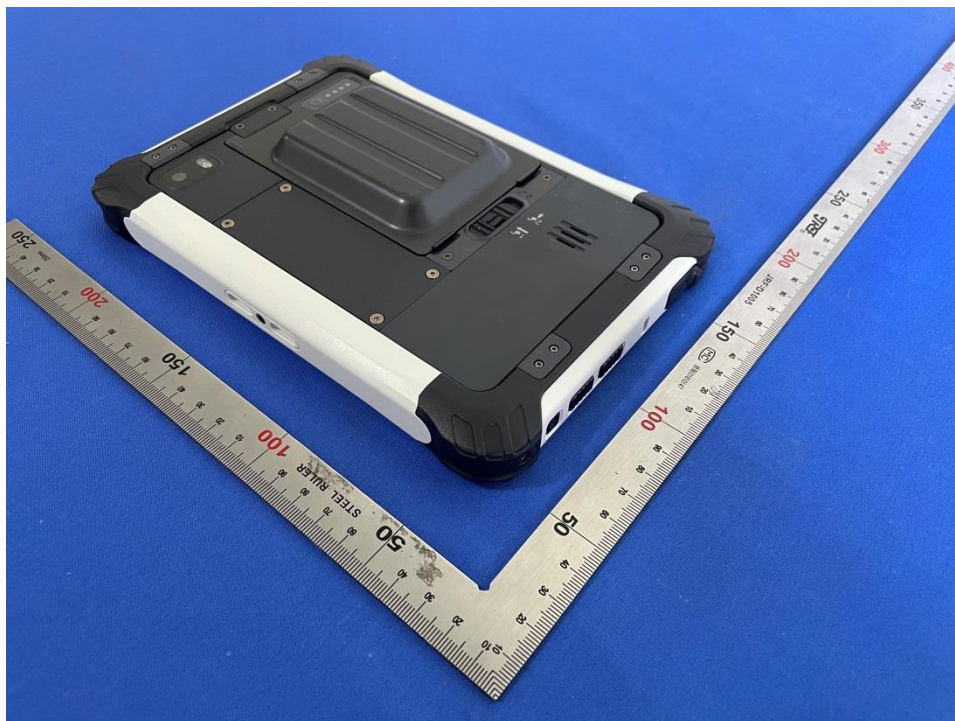
Front of the sample

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 81 of 126



Back of the sample



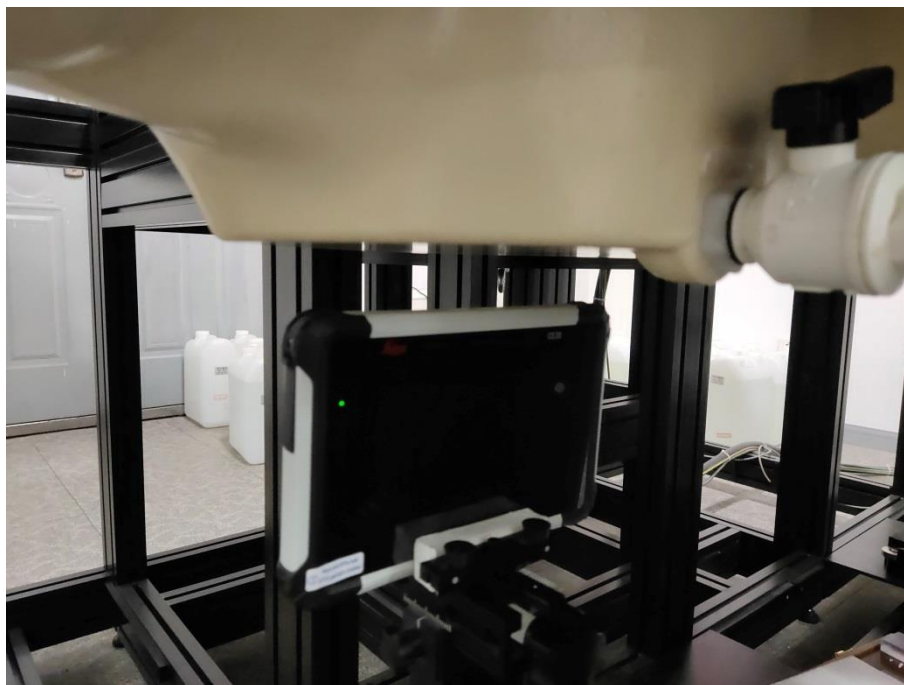
Top-0mm

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 82 of 126



Top-30mm



Back - 0mm

TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 83 of 126

7.3 System Verification Plots

System Validation for 750MHz Head _2021-07-12

Measurement Report for D750V2 SN1055, FRONT, D750, UID 0 -, Channel 50 (750.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D750V2 SN1055,	180.0 x 100.0 x 330.0	/	Phone

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	FRONT,	D750	CW,	750.0,	10.16	0.93		42.24
HSL	15.00		0--	50				

Hardware Setup

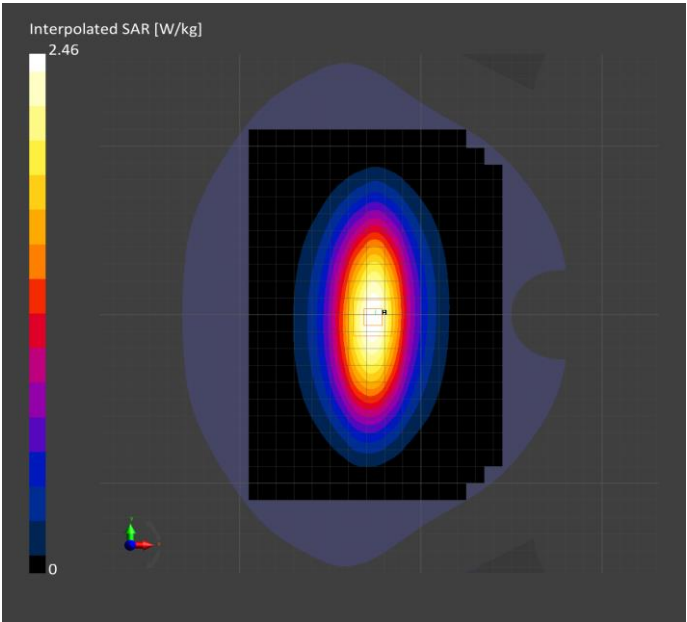
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 220.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.14	2.16
psSAR10g [W/Kg]	1.43	1.39
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		17.1
Dist 3dB Peak [mm]		62.7



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 84 of 126

System Validation for 835MHz Head _2021-07-13

Measurement Report for D835V2 SN4d061, FRONT, D835, UID 0 -, Channel 50 (835.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D835V2 SN4d061,	160.0 x 120.0 x 340.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	D835	CW, 0--	835.0, 50	9.79	0.94	41.69

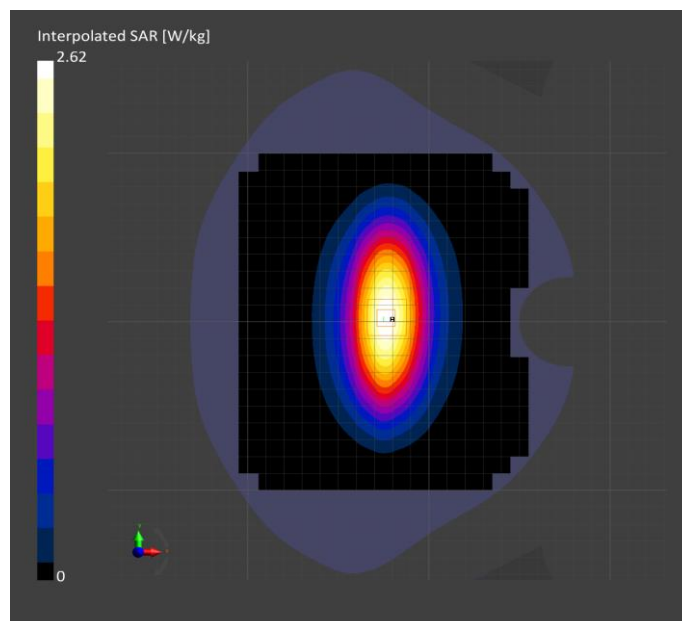
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	160.0 x 200.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	2.26	2.30
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	1.50	1.47
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.02	0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		16.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		62.8



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 85 of 126

System Validation for 1800MHz Head _2021-07-26

Measurement Report for D1800V2 SN1d148, FRONT, D1800, UID 0 -, Channel 50 (1800.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D1800V2 SN1d148,	100.0 x 74.0 x 300.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10 mm	D1800	CW, 0--	1800.0, 50	8.45	1.42	39.85

Hardware Setup

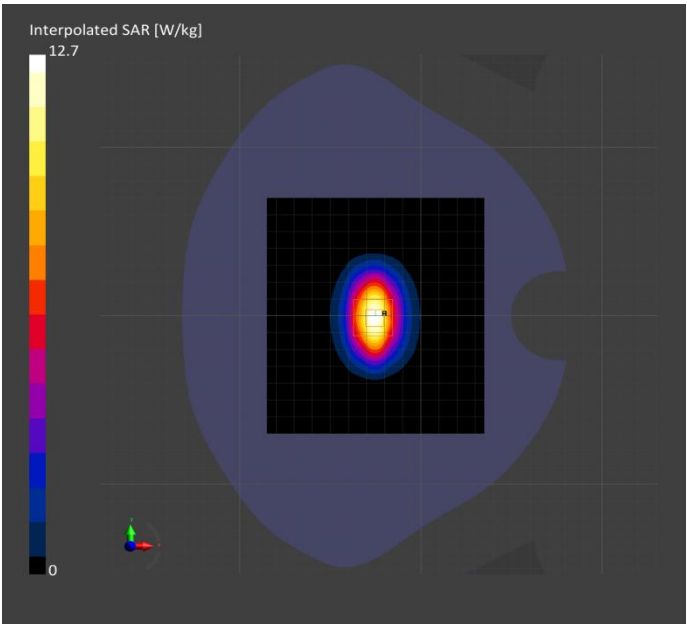
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 140.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	10.1	10.1
psSAR10g [W/Kg]	5.32	5.20
Power Drift [dB]	-0.01	-0.00
M2/M1 [%]		9.1
Dist 3dB Peak [mm]		52.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 86 of 126

System Validation for 1900MHz Head _2021-07-28

Measurement Report for D1900V2 SN5d092, FRONT, D1900, UID 0 -, Channel 50 (1900.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D1900V2 SN5d092,	100.0 x 68.0 x 300.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10 mm	D1900	CW, 0--	1900.0, 50	8.07	1.44	39.60

Hardware Setup

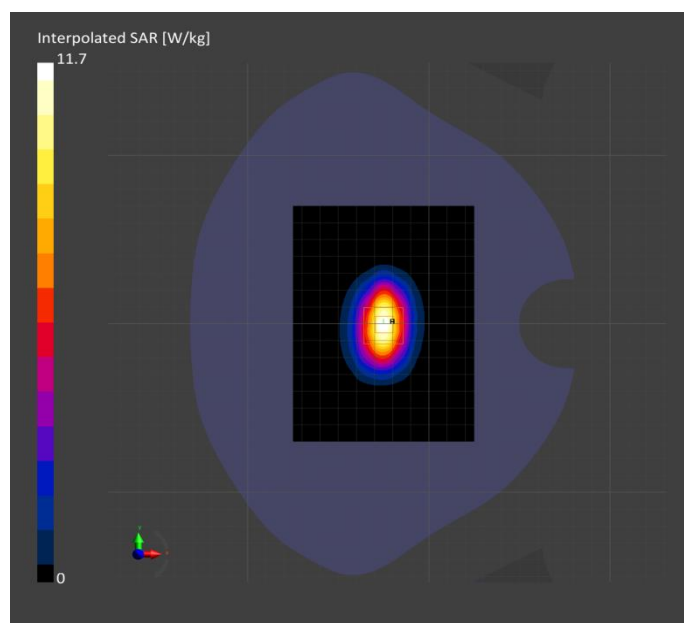
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	9.17	9.52
psSAR10g [W/Kg]	4.72	4.90
Power Drift [dB]	-0.12	-0.07
M2/M1 [%]		9.0
Dist 3dB Peak [mm]		53.8



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 87 of 126

System Validation for 2300MHz Head _2021-08-04

Measurement Report for D2300V2 SN1040, FRONT, D2300, UID 0 -, Channel 50 (2300.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D2300V2 SN1040,	100.0 x 56.0 x 290.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10 mm	D2300	CW, 0--	2300.0, 50	7.9	1.66	39.12

Hardware Setup

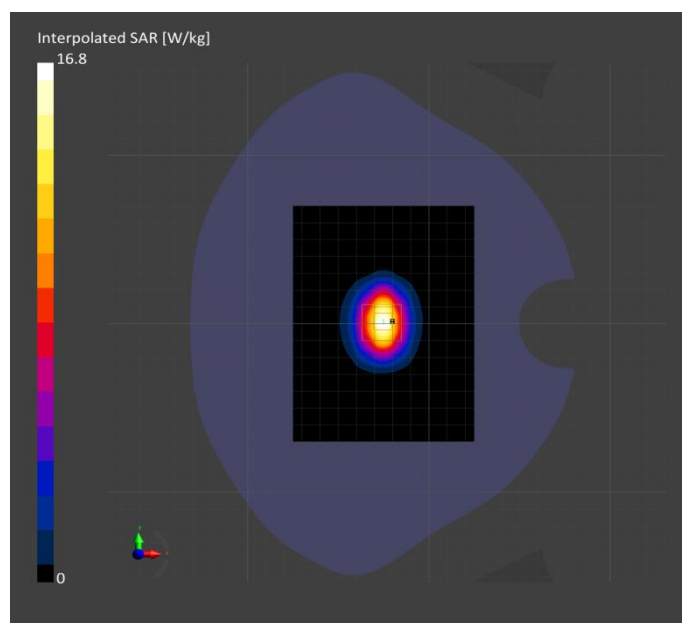
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	12.9	12.8
psSAR10g [W/Kg]	6.13	6.05
Power Drift [dB]	-0.05	0.00
M2/M1 [%]		9.0
Dist 3dB Peak [mm]		50.0



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 88 of 126

System Validation for 2450MHz Head _2021-08-03

Measurement Report for D2450V2 SN723, FRONT, D2450, UID 0 -, Channel 50 (2450.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D2450V2 SN723,	100.0 x 52.0 x 290.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	D2450	CW, 0--	2450.0, 50	7.65	1.75	39.13

Hardware Setup

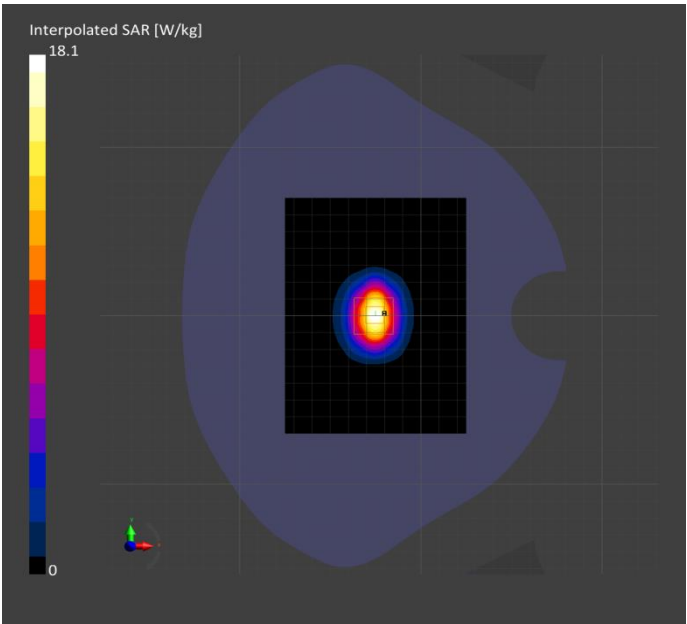
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	13.6	13.6
psSAR10g [W/Kg]	6.31	6.25
Power Drift [dB]	-0.03	-0.00
M2/M1 [%]		9.0
Dist 3dB Peak [mm]		48.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 89 of 126

System Validation for 2600MHz Head _2021-08-05

Measurement Report for D2600V2 SN1142, FRONT, D2600, UID 0 -, Channel 50 (2600.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D2600V2 SN1142,	100.0 x 50.0 x 290.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	D2600	CW, 0--	2600.0, 50	7.45	1.90	39.31

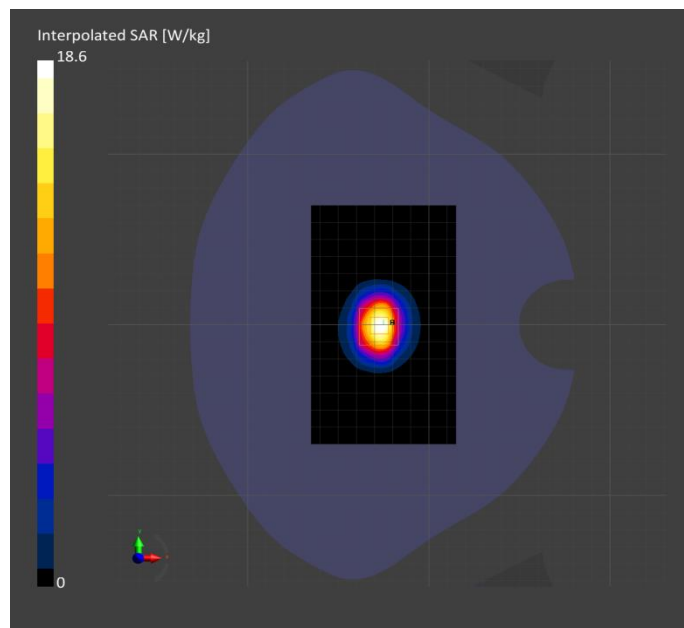
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	14.2	14.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	6.45	6.23
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.11	-0.00
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		47.1



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 90 of 126

System Validation for 5200MHz Head _2021-08-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 20 (5200.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D5GHzV2 SN1061,	80.0 x 20.0 x 300.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	D5GHz	CW, 0--	5200.0, 20	5.53	4.55	35.18

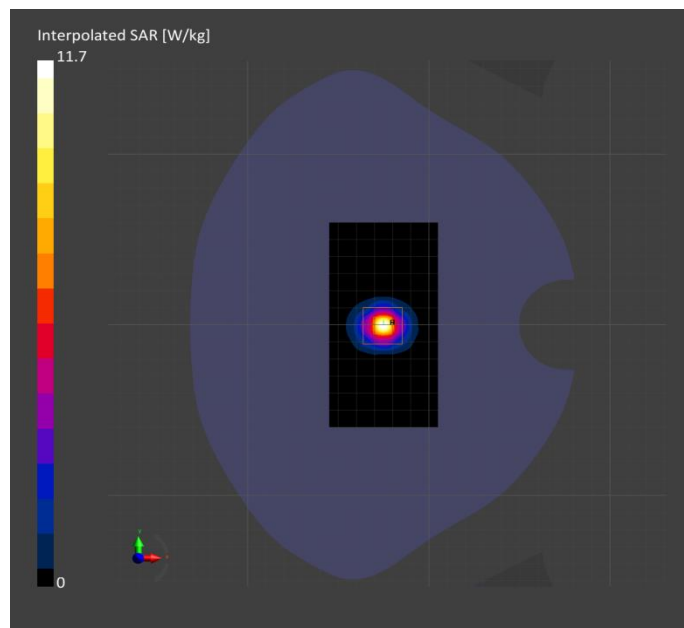
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0	psSAR1g [W/Kg]	7.03	7.42
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/Kg]	2.00	2.12
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	0.06	0.02
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		6.8
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		67.0



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 91 of 126

System Validation for 5800MHz Head _2021-08-04

Measurement Report for D5GHzV2 SN1061, FRONT, D5GHz, UID 0 -, Channel 80 (5800.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D5GHzV2 SN1061,	80.0 x 20.0 x 300.0	/	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	D5GHz	CW, 0--	5800.0, 80	4.75	5.19	35.21

Hardware Setup

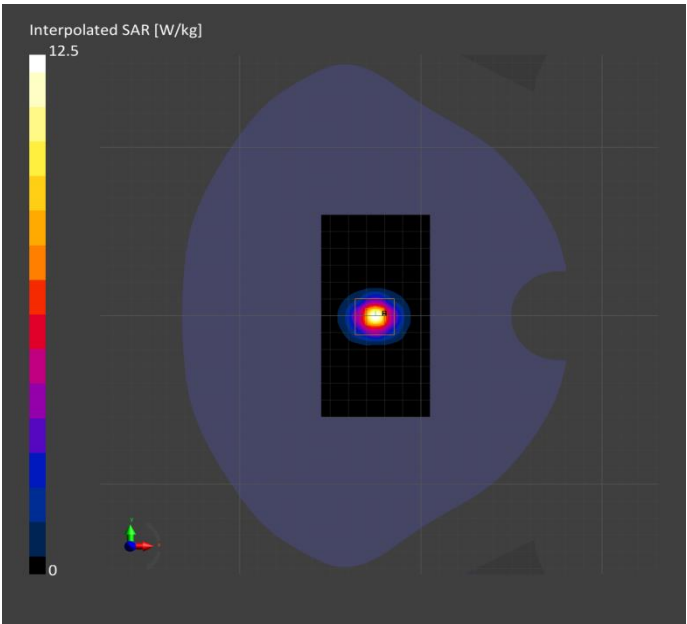
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	7.74	8.06
psSAR10g [W/Kg]	2.17	2.28
Power Drift [dB]	0.06	0.00
M2/M1 [%]		6.8
Dist 3dB Peak [mm]		63.4



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 92 of 126

7.4 Highest SAR Test Plots

Meas.1 Measurement Report for CS30 LTE, EDGE TOP, Band 2, UTRA/FDD, UID 10457 AAA, Channel 9262 (1852.4MHz) Sensor on

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 2, UTRA/FDD	WCDMA, 10457-AAA	1852.4, 9262	8.07	1.43	39.76

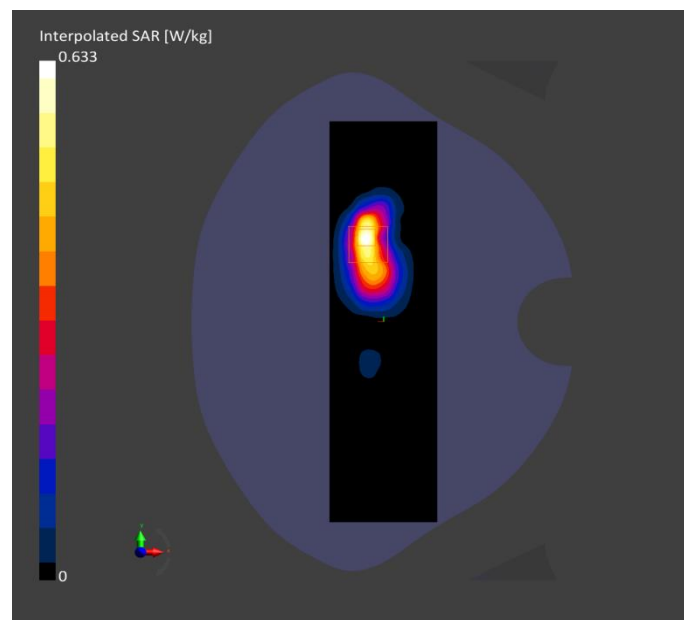
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.472	0.488
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.226	0.226
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.17	-0.16
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		7.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.9



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 93 of 126

Meas.2 Measurement Report for CS30 LTE, BACK, Band 2, UTRA/FDD, UID 10457 AAA, Channel 9262 (1852.4MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	2,	WCDMA,	1852.4,	8.07	1.43	39.76
HSL	0.00	UTRA/FDD	10457-AAA	9262				

Hardware Setup

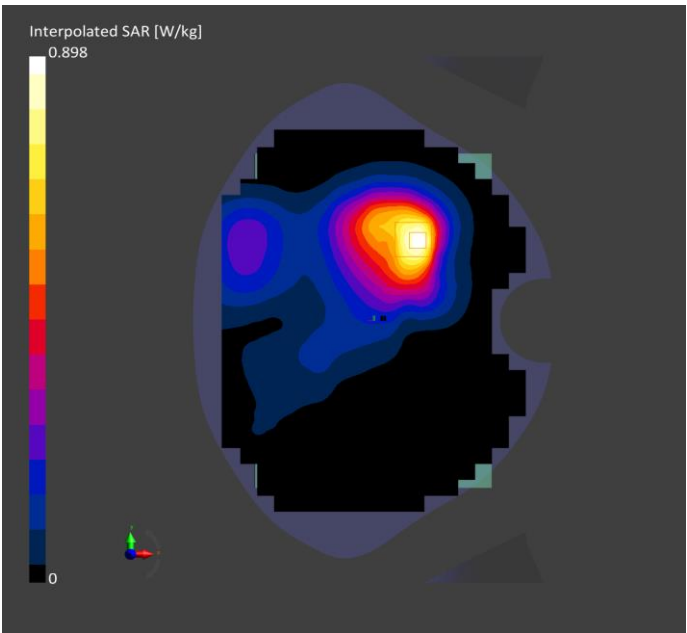
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.733	0.758
psSAR10g [W/Kg]	0.425	0.430
Power Drift [dB]	-0.14	-0.14
M2/M1 [%]		11.0
Dist 3dB Peak [mm]		58.4



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 94 of 126

Meas.3 Measurement Report for CS30 LTE, EDGE TOP, Band 4, UTRA/FDD, UID 10457 AAA, Channel 1513 (1752.6MHz) Sensor on

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	EDGE TOP,	Band	4,	WCDMA,	1752.6,	8.45	1.39	39.70
HSL	0.00	UTRA/FDD	10457-AAA	1513				

Hardware Setup

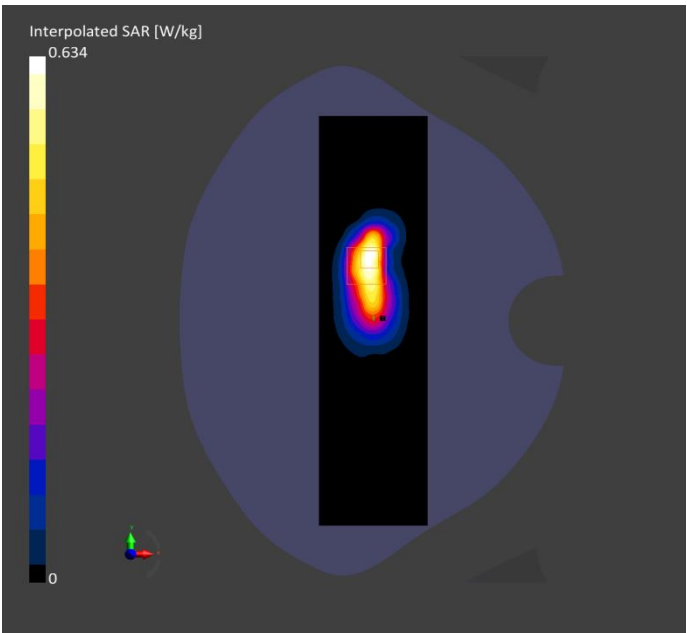
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.504	0.555
psSAR10g [W/Kg]	0.254	0.254
Power Drift [dB]	-0.07	-0.18
M2/M1 [%]		7.0
Dist 3dB Peak [mm]		45.5



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 95 of 126

Meas.4 Measurement Report for CS30 LTE, BACK, Band 4, UTRA/FDD, UID 10457 AAA, Channel 1513 (1752.6MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	4,	WCDMA,	1752.6,	8.45	1.39	39.70
HSL	0.00	UTRA/FDD	10457-AAA	1513				

Hardware Setup

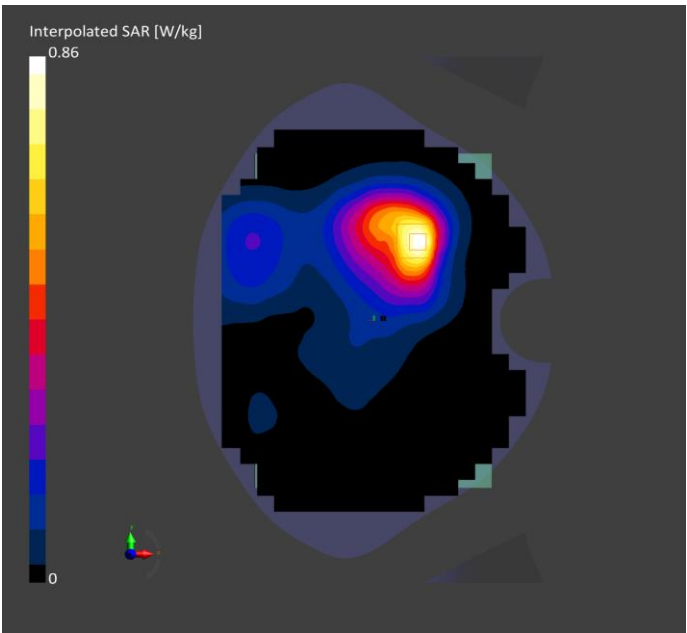
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.702	0.726
psSAR10g [W/Kg]	0.405	0.411
Power Drift [dB]	-0.10	-0.12
M2/M1 [%]		11.7
Dist 3dB Peak [mm]		58.2



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 96 of 126

Meas.5 Measurement Report for CS30 LTE, EDGE TOP, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4233 (846.6MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	EDGE TOP,	Band	5,	WCDMA,	846.6,	9.79	0.94	41.60
HSL	0.00	UTRA/FDD	10457-AAA	4233				

Hardware Setup

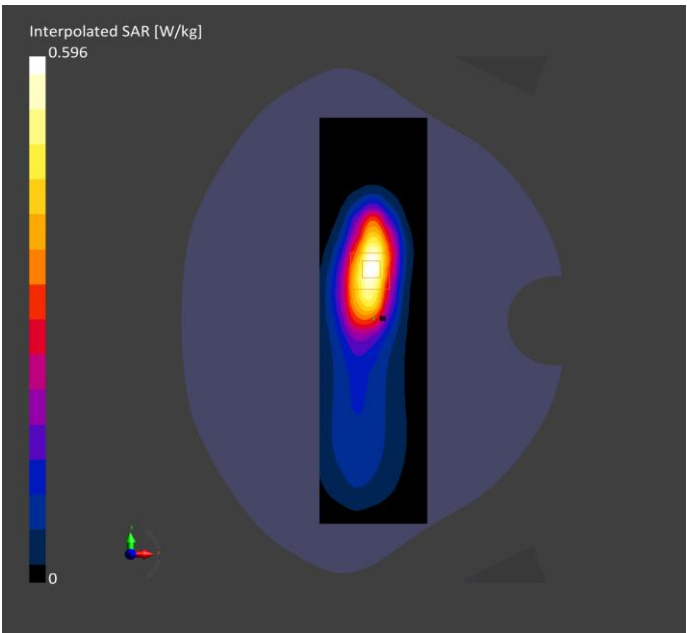
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.497	0.510
psSAR10g [W/Kg]	0.300	0.288
Power Drift [dB]	-0.17	-0.18
M2/M1 [%]		10.0
Dist 3dB Peak [mm]		54.7



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 97 of 126

Meas.6 Measurement Report for CS30 LTE, BACK, Band 5, UTRA/FDD, UID 10457 AAA, Channel 4233 (846.6MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	5,	WCDMA,	846.6,	9.79	0.94	41.60
HSL	0.00	UTRA/FDD	10457-AAA	4233				

Hardware Setup

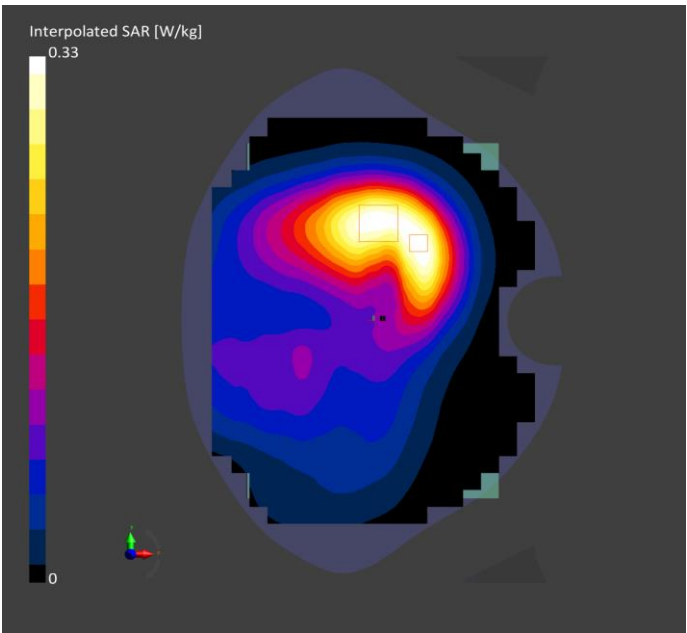
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.288	0.300
psSAR10g [W/Kg]	0.195	0.192
Power Drift [dB]	0.01	0.00
M2/M1 [%]		16.8
Dist 3dB Peak [mm]		63.9



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 98 of 126

Meas.7 Measurement Report for CS30 LTE, EDGE TOP, Band 2, E-UTRA/FDD, UID 10297 AAD, Channel 19100 (1900.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 2, E-UTRA/FDD	LTE-FDD, 10297-AAD	1900.0, 19100	8.07	1.44	39.60

Hardware Setup

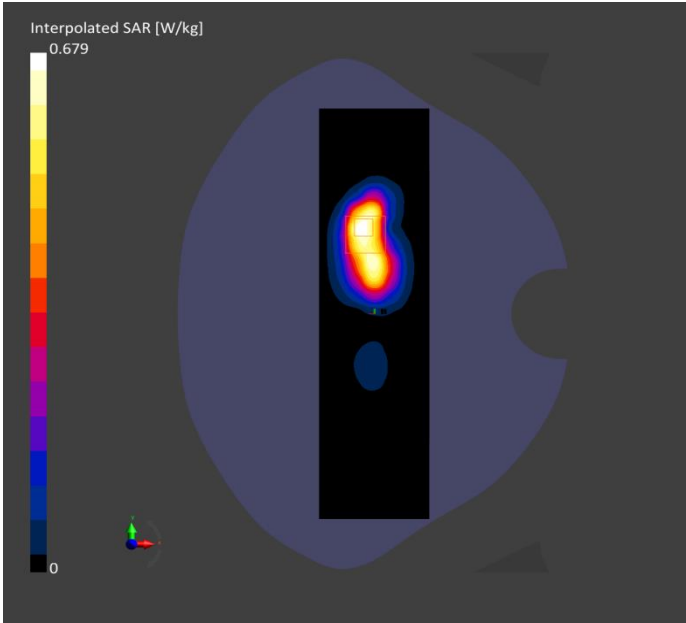
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.543	0.638
psSAR10g [W/Kg]	0.281	0.294
Power Drift [dB]	-0.13	-0.12
M2/M1 [%]		7.0
Dist 3dB Peak [mm]		46.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 99 of 126

Meas.8 Measurement Report for CS30 LTE, BACK, Band 2, E-UTRA/FDD, UID 10169 CAE, Channel 19100 (1900.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1900.0, 19100	8.07	1.44	39.60

Hardware Setup

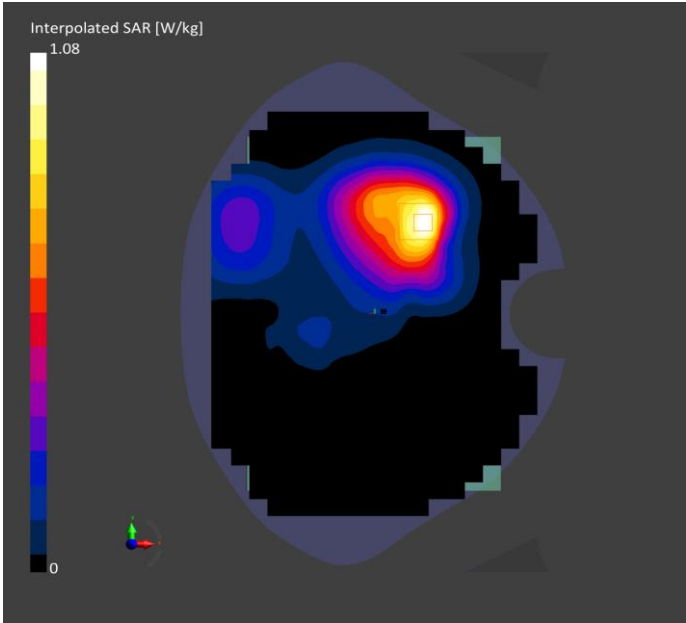
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.885	0.915
psSAR10g [W/Kg]	0.504	0.510
Power Drift [dB]	-0.10	-0.14
M2/M1 [%]		11.0
Dist 3dB Peak [mm]		57.2



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 100 of 126

Meas.9 Measurement Report for CS30 LTE, EDGE TOP, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20300 (1745.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 4, E-UTRA/FDD	LTE-FDD, 10169-CAE	1745.0, 20300	8.45	1.39	39.70

Hardware Setup

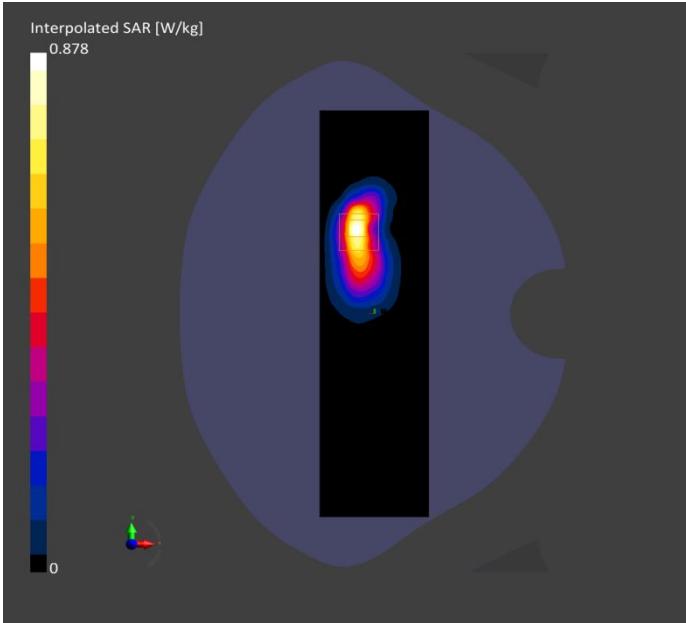
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.652	0.678
psSAR10g [W/Kg]	0.309	0.308
Power Drift [dB]	-0.18	-0.15
M2/M1 [%]		6.0
Dist 3dB Peak [mm]		48.9



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 101 of 126

Meas.10 Measurement Report for CS30 LTE, BACK, Band 4, E-UTRA/FDD, UID 10169 CAE, Channel 20300 (1745.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 4, E-UTRA/FD D	LTE-FDD, 10169-CAE	1745.0, 20300	8.45	1.39	39.70

Hardware Setup

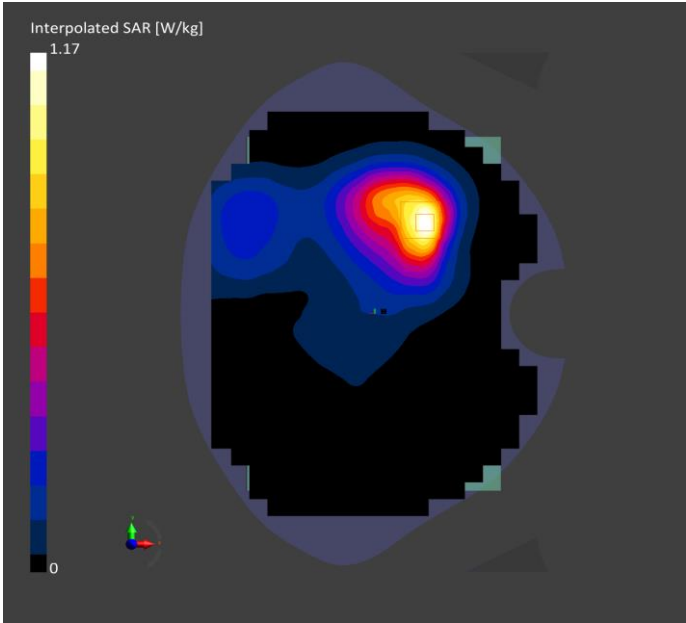
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.953	0.977
psSAR10g [W/Kg]	0.544	0.547
Power Drift [dB]	-0.08	-0.16
M2/M1 [%]		10.2
Dist 3dB Peak [mm]		57.6



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 102 of 126

Meas.11 Measurement Report for CS30 LTE, EDGE TOP, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20600 (844.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 5, E-UTRA/FDD	LTE-FDD, 10175-CAG	844.0, 20600	9.79	0.94	41.60

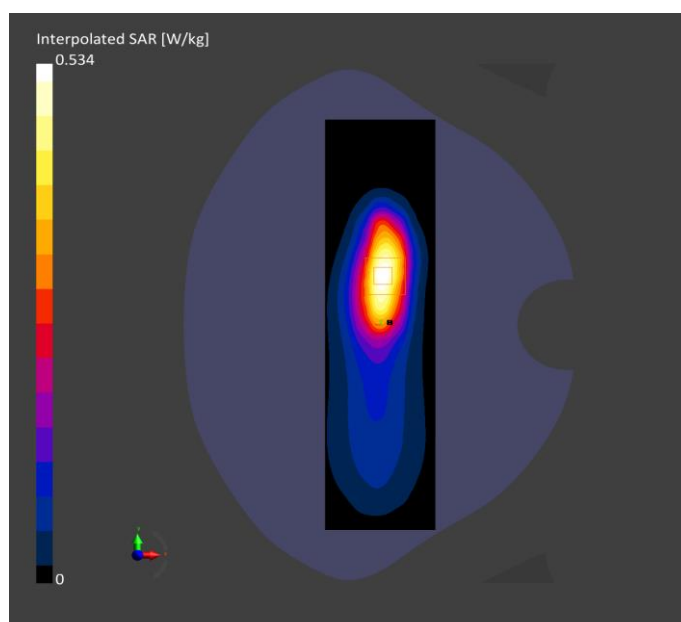
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.450	0.457
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.271	0.256
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.20	-0.18
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		8.1
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		53.8

Measurement Results



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 103 of 126

Meas.12 Measurement Report for CS30 LTEL, BACK, Band 5, E-UTRA/FDD, UID 10175 CAG, Channel 20450 (829.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	5, LTE-FDD,	829.0,	9.79	0.92		41.65
HSL	0.00	E-UTRA/FD	10175-CAG	20450				
		D						

Hardware Setup

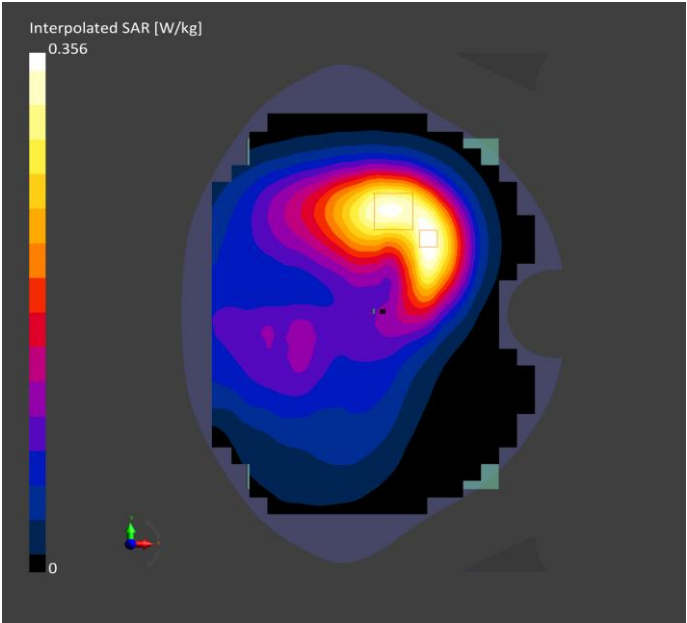
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.308	0.324
psSAR10g [W/Kg]	0.204	0.206
Power Drift [dB]	0.04	0.02
M2/M1 [%]		17.2
Dist 3dB Peak [mm]		61.4



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 104 of 126

Meas.13 Measurement Report for CS30 LTE, EDGE TOP, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21350 (2560.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2560.0, 21350	7.45	1.86	39.18

Hardware Setup

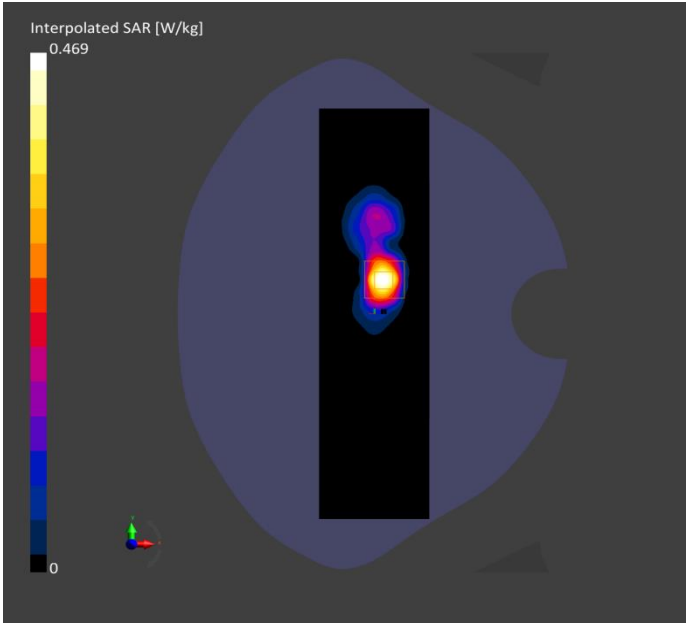
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.364	0.411
psSAR10g [W/Kg]	0.146	0.146
Power Drift [dB]	-0.09	-0.16
M2/M1 [%]		6.0
Dist 3dB Peak [mm]		43.1



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 105 of 126

Meas.14 Measurement Report for CS30 LTE, BACK, Band 7, E-UTRA/FDD, UID 10169 CAE, Channel 21350 (2560.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2560.0, 21350	7.45	1.86	39.18
		D					

Hardware Setup

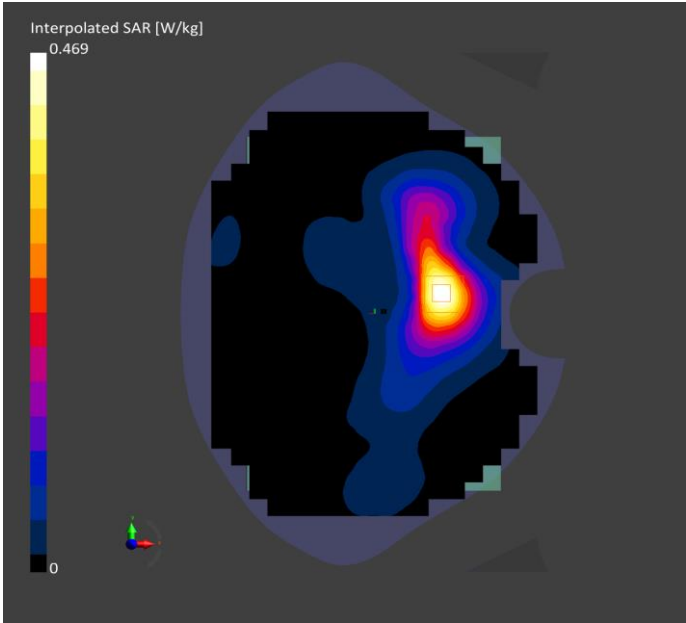
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.378	0.393
psSAR10g [W/Kg]	0.197	0.206
Power Drift [dB]	0.06	-0.00
M2/M1 [%]		12.0
Dist 3dB Peak [mm]		55.1



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 106 of 126

Meas.15 Measurement Report for CS30 LTE, EDGE TOP, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23130 (711.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	711.0, 23130	10.16	0.92	42.10

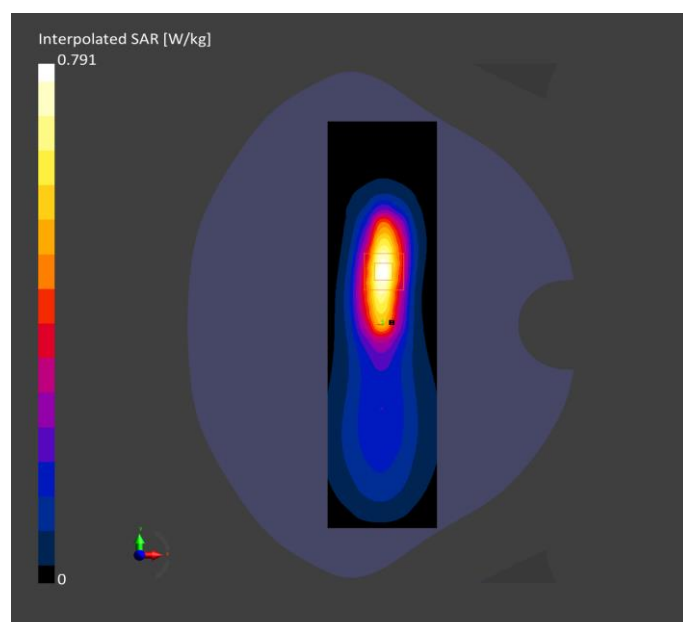
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0	psSAR1g [W/Kg]	0.652	0.652
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0	psSAR10g [W/Kg]	0.382	0.349
Sensor Surface [mm]	3.0	1.4	Power Drift [dB]	-0.09	-0.12
Surface Detection	VMS + 6p	VMS + 6p	M2/M1 [%]		9.0
Scan Method	Measured	Measured	Dist 3dB Peak [mm]		49.5

Measurement Results



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 107 of 126

Meas.16 Measurement Report for CS30 LTE, BACK, Band 12, E-UTRA/FDD, UID 10175 CAG, Channel 23130 (711.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band 12,	LTE-FDD,	711.0,	10.16	0.92		42.10
HSL	0.00	E-UTRA/FD	10175-CAG	23130				
		D						

Hardware Setup

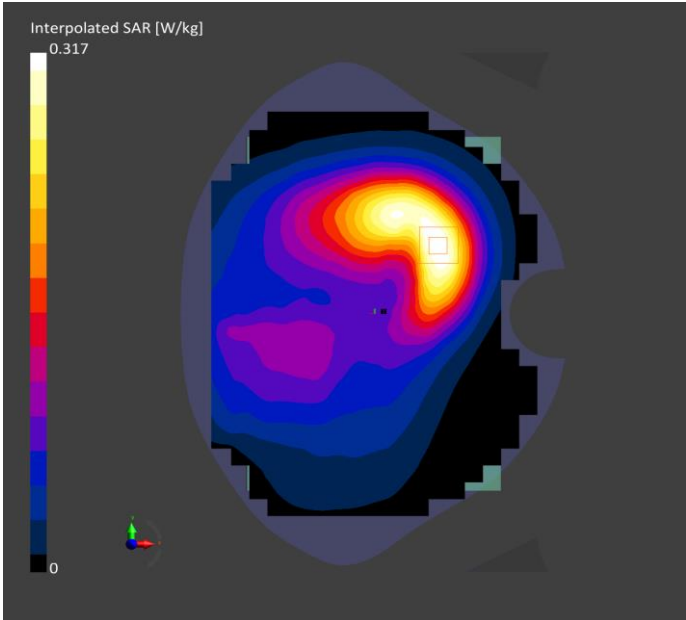
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.279	0.294
psSAR10g [W/Kg]	0.189	0.186
Power Drift [dB]	0.10	0.03
M2/M1 [%]		15.5
Dist 3dB Peak [mm]		62.8



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 108 of 126

Meas.17 Measurement Report for CS30 LTE, EDGE TOP, Band 13, E-UTRA/FDD, UID 10154 CAG, Channel 23230 (782.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Test Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 13, E-UTRA/FDD	LTE-FDD, 10154-CAG	782.0, 23230	10.16	0.93	41.80

Hardware Setup

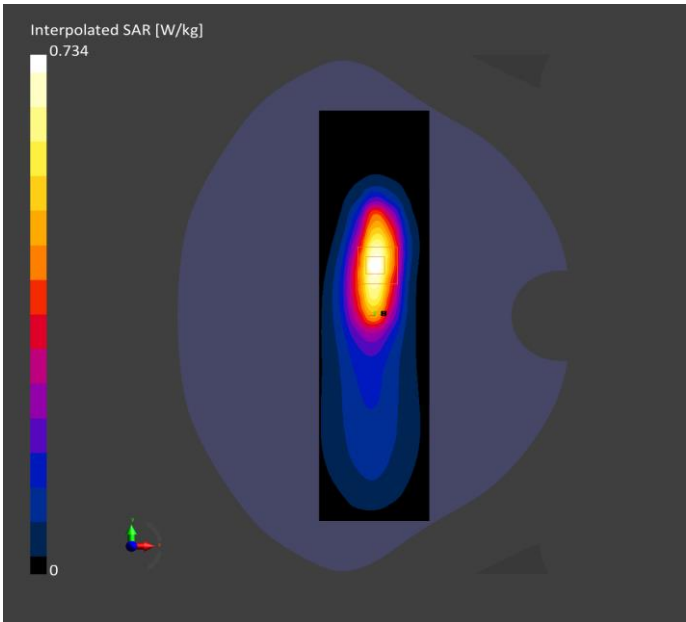
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.610	0.611
psSAR10g [W/Kg]	0.362	0.338
Power Drift [dB]	-0.18	-0.17
M2/M1 [%]		9.0
Dist 3dB Peak [mm]		52.5



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 109 of 126

Meas.18 Measurement Report for CS30 LTE, BACK, Band 13, E-UTRA/FDD, UID 10175 CAG, Channel 23230 (782.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	13,	LTE-FDD,	782.0,	10.16	0.93	41.80
HSL	0.00	E-UTRA/FD	10175-CAG	23230				
		D						

Hardware Setup

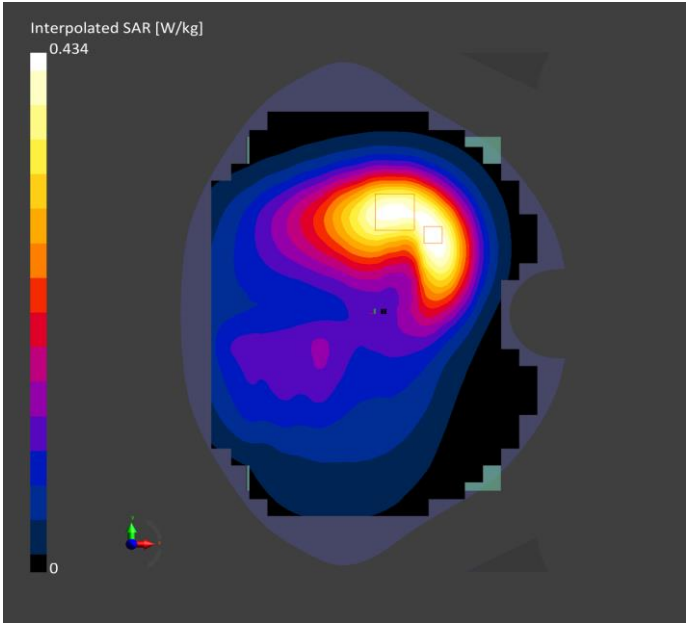
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.380	0.386
psSAR10g [W/Kg]	0.255	0.246
Power Drift [dB]	-0.00	-0.12
M2/M1 [%]		17.0
Dist 3dB Peak [mm]		63.2



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 110 of 126

Meas.19 Measurement Report for CS30 LTE, EDGE TOP, Band 14, E-UTRA/FDD, UID 10154 CAG, Channel 23330 (793.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 14, E-UTRA/FDD	LTE-FDD, 10154-CAG	793.0, 23330	10.16	0.93	41.70

Hardware Setup

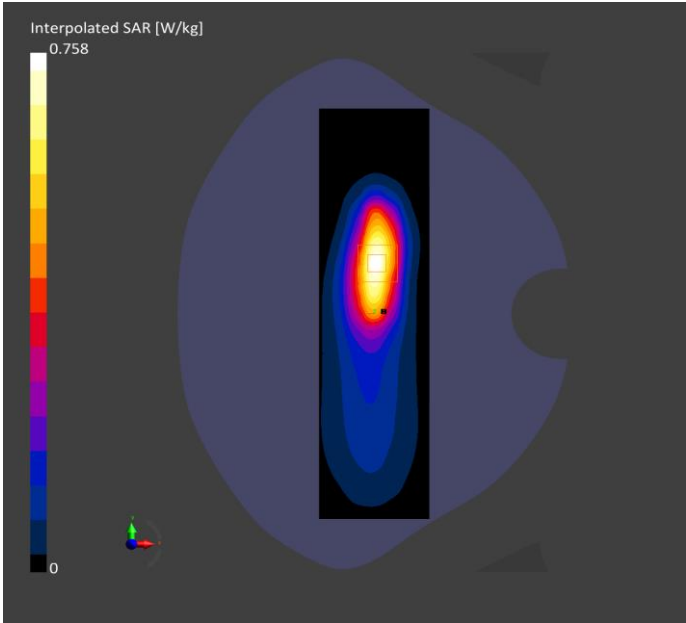
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.631	0.631
psSAR10g [W/Kg]	0.376	0.350
Power Drift [dB]	-0.18	-0.17
M2/M1 [%]		10.0
Dist 3dB Peak [mm]		53.0



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 111 of 126

Meas.20 Measurement Report for CS30 LTE, BACK, Band 14, E-UTRA/FDD, UID 10175 CAG, Channel 23330 (793.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	14,	LTE-FDD,	793.0,	10.16	0.93	41.70
HSL	0.00	E-UTRA/FD	10175-CAG	23330				
		D						

Hardware Setup

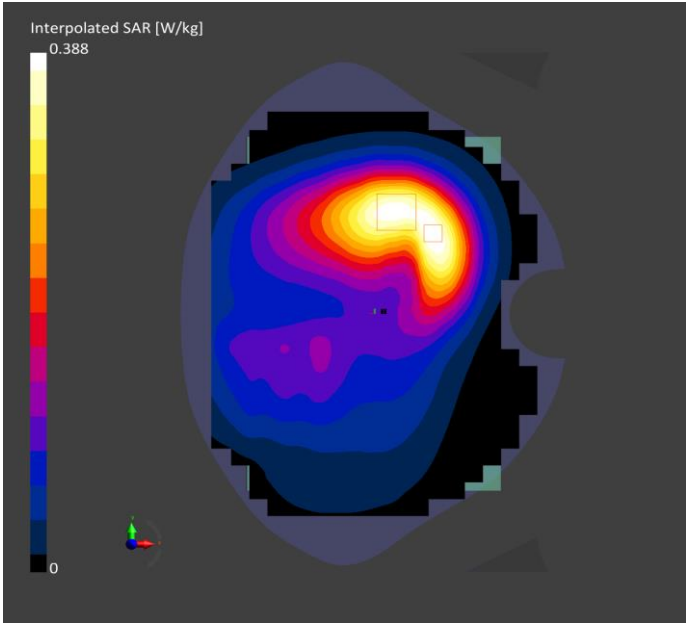
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.338	0.334
psSAR10g [W/Kg]	0.229	0.214
Power Drift [dB]	-0.03	-0.18
M2/M1 [%]		17.2
Dist 3dB Peak [mm]		63.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 112 of 126

Meas.21 Measurement Report for CS30 LTE, EDGE TOP, Band 17, E-UTRA/FDD, UID 10175 CAG, Channel 23800 (711.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 17, E-UTRA/FDD	LTE-FDD, 10175-CAG	711.0, 23800	10.16	0.92	42.10

Hardware Setup

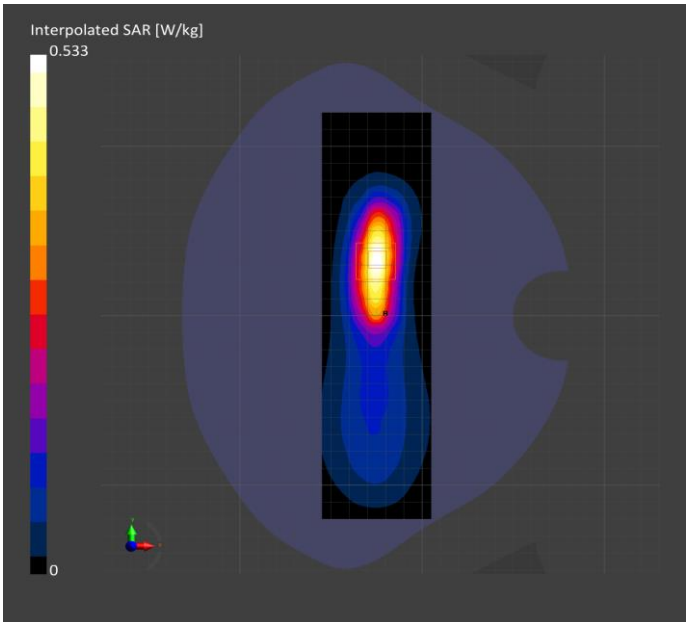
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.439	0.433
psSAR10g [W/Kg]	0.253	0.230
Power Drift [dB]	-0.13	-0.11
M2/M1 [%]		8.5
Dist 3dB Peak [mm]		49.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 113 of 126

Meas.22 Measurement Report for CS30 LTE, BACK, Band 17, E-UTRA/FDD, UID 10175 CAG, Channel 23800 (711.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	17,	LTE-FDD,	711.0,	10.16	0.92	42.10
HSL	0.00	E-UTRA/FD	10175-CAG	23800				
		D						

Hardware Setup

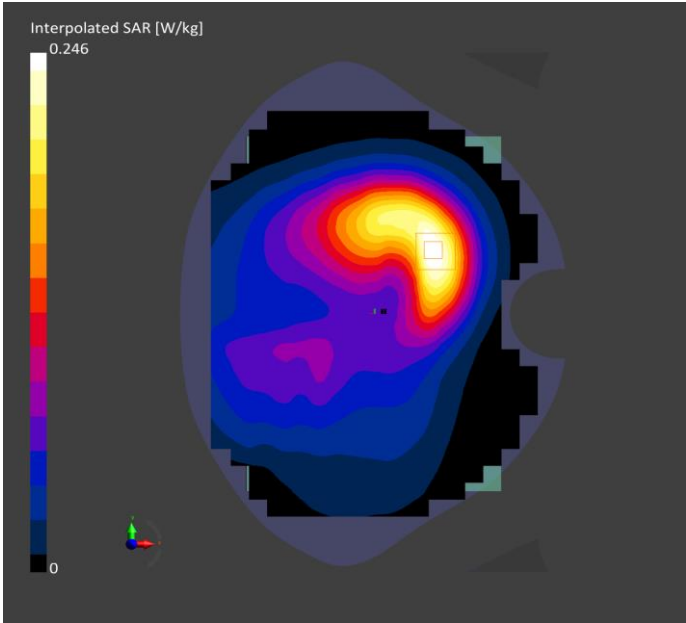
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.215	0.217
psSAR10g [W/Kg]	0.143	0.138
Power Drift [dB]	-0.08	-0.13
M2/M1 [%]		14.3
Dist 3dB Peak [mm]		62.8



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 114 of 126

Meas.23 Measurement Report for CS30 LTE, EDGE TOP, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26590 (1905.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 25, E-UTRA/FDD	LTE-FDD, 10169-CAE	1905.0, 26590	8.07	1.44	39.60

Hardware Setup

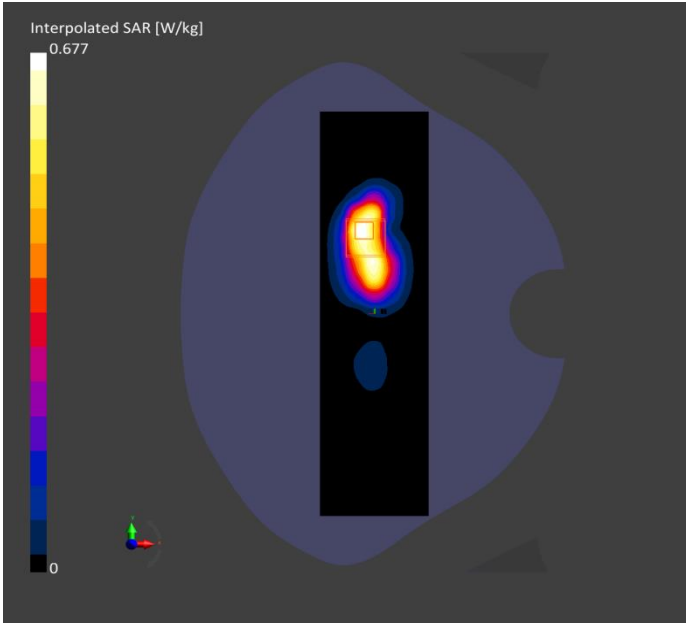
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.538	0.626
psSAR10g [W/Kg]	0.280	0.289
Power Drift [dB]	-0.19	-0.14
M2/M1 [%]		7.0
Dist 3dB Peak [mm]		46.3



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 115 of 126

Meas.24 Measurement Report for CS30 LTE, BACK, Band 25, E-UTRA/FDD, UID 10169 CAE, Channel 26140 (1860.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 25, E-UTRA/FD D	LTE-FDD, 10169-CAE	1860.0, 26140	8.07	1.43	39.70

Hardware Setup

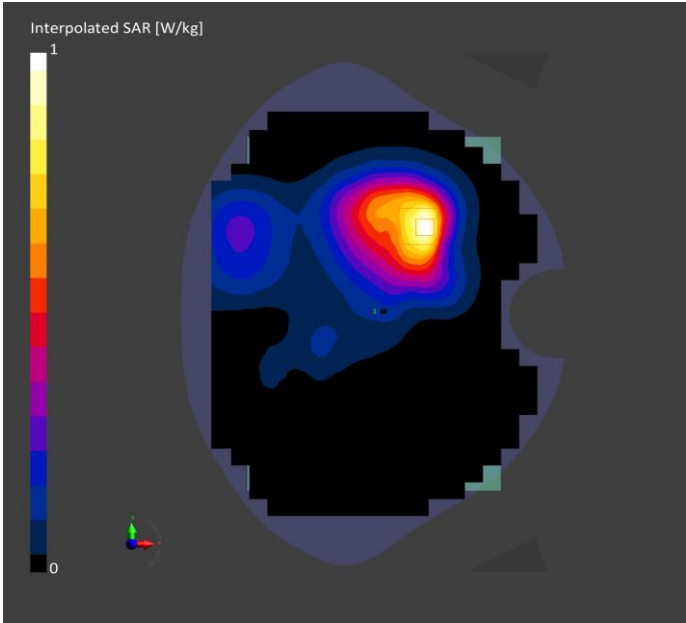
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.798	0.813
psSAR10g [W/Kg]	0.452	0.442
Power Drift [dB]	-0.15	-0.09
M2/M1 [%]		18.0
Dist 3dB Peak [mm]		58.1



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 116 of 126

Meas.25 Measurement Report for CS30 LTE, EDGE TOP, Band 26 E-UTRA/FDD, UID 10181 CAE, Channel 26765 (821.5MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	821.5, 26765	9.79	0.93	41.64

Hardware Setup

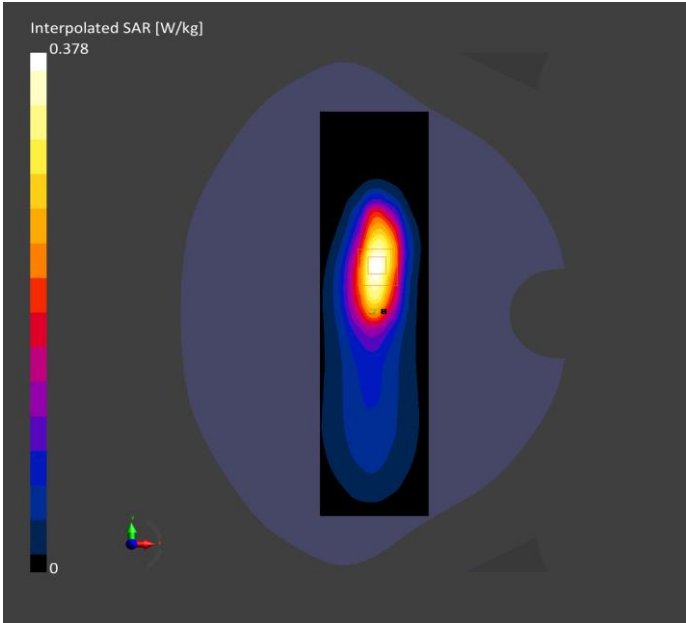
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.317	0.312
psSAR10g [W/Kg]	0.190	0.180
Power Drift [dB]	-0.17	-0.18
M2/M1 [%]		9.0
Dist 3dB Peak [mm]		53.2



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 117 of 126

Meas.26 Measurement Report for CS30 LTE, BACK, Band 26 E-UTRA/FDD, UID 10181 CAE, Channel 26965 (841.5MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 26 E-UTRA/FD D	LTE-FDD, 10181-CAE	841.5, 26965	9.79	0.94	41.60

Hardware Setup

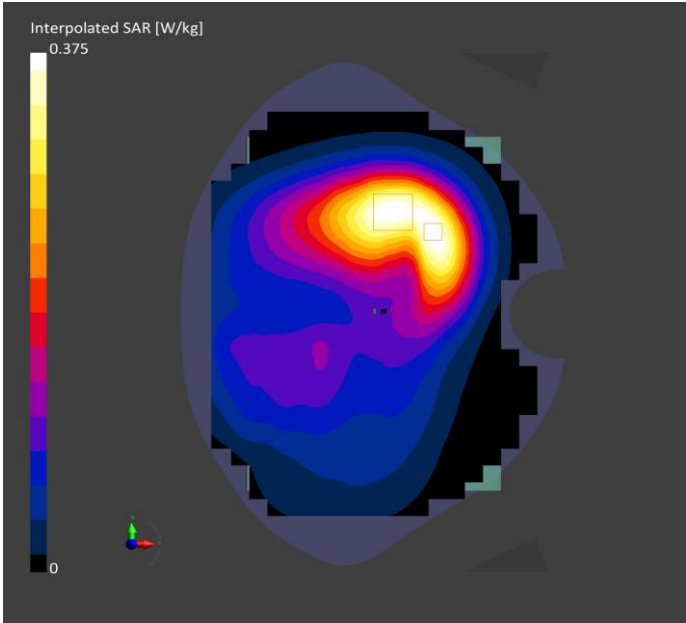
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.326	0.337
psSAR10g [W/Kg]	0.223	0.216
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		17.7
Dist 3dB Peak [mm]		63.4



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 118 of 126

Meas.27 Measurement Report for CS30 LTE, EDGE TOP, Band 30, E-UTRA/FDD, UID 10175 CAG, Channel 27710 (2310.0MHz) Sensor on

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	EDGE TOP,	Band	30,	LTE-FDD,	2310.0,	7.9	1.67	39.30
HSL	0.00	E-UTRA/FD	10175-CAG	27710				
		D						

Hardware Setup

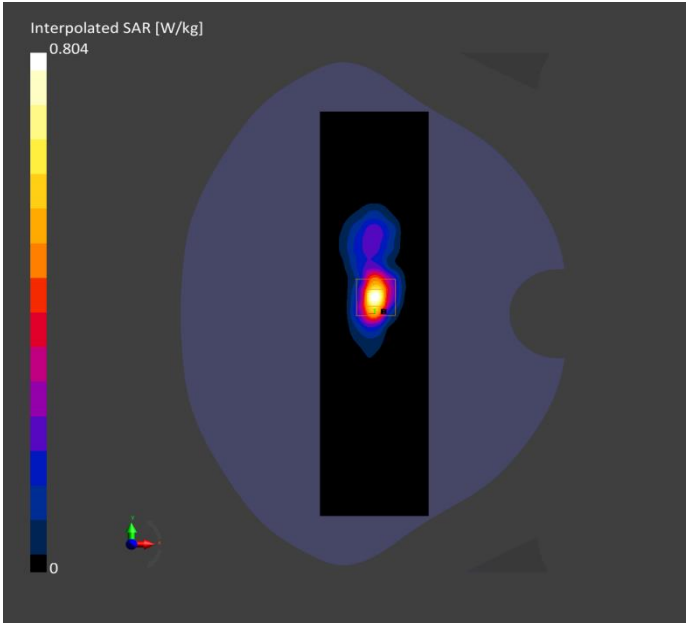
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.565	0.571
psSAR10g [W/Kg]	0.226	0.229
Power Drift [dB]	-0.15	-0.02
M2/M1 [%]		6.3
Dist 3dB Peak [mm]		46.7



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 119 of 126

Meas.28 Measurement Report for CS30 LTE, BACK, Band 30, E-UTRA/FDD, UID 10175 CAG, Channel 27710 (2310.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 30, E-UTRA/FD D	30, LTE-FDD, 10175-CAG	2310.0, 27710	7.9	1.67	39.30

Hardware Setup

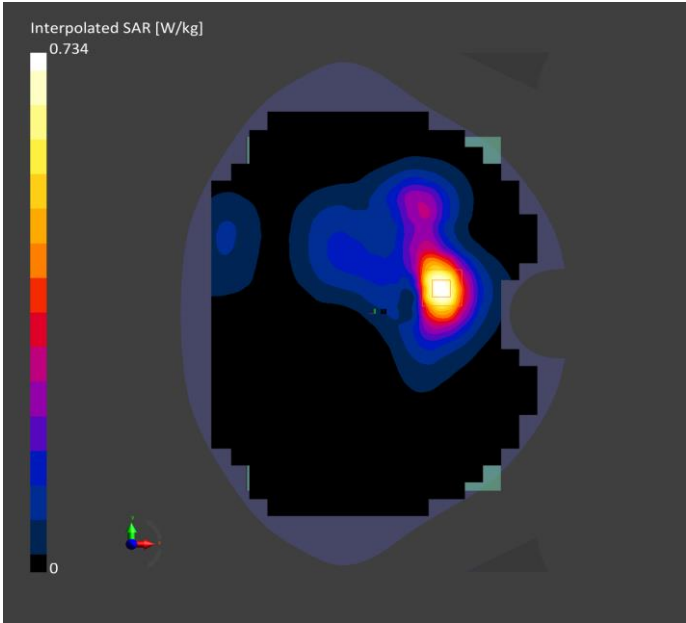
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.597	0.633
psSAR10g [W/Kg]	0.305	0.317
Power Drift [dB]	-0.08	-0.06
M2/M1 [%]		8.5
Dist 3dB Peak [mm]		56.6



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 120 of 126

Meas.29 Measurement Report for CS30 LTE, EDGE TOP, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 40620 (2593.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	EDGE TOP,	Band 41,	LTE-TDD,	2593.0,	7.45	1.89		39.23
HSL	0.00	E-UTRA/TD	10172-CAG	40620				
		D						

Hardware Setup

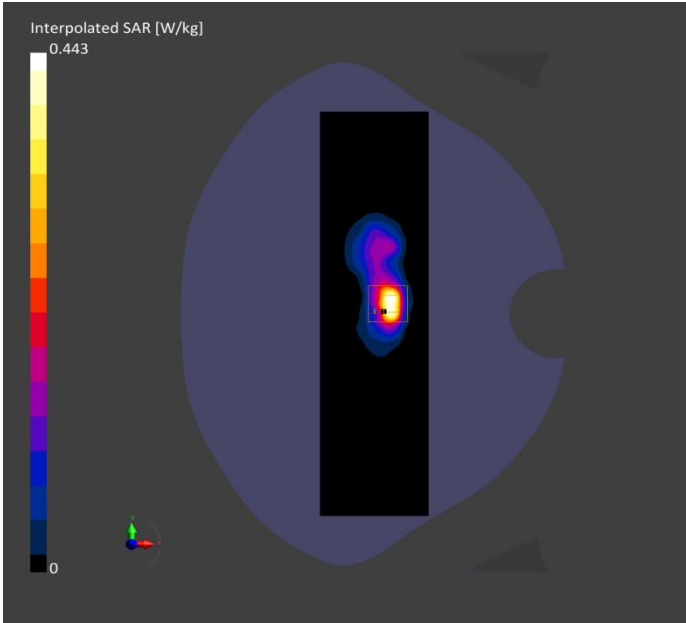
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.319	0.350
psSAR10g [W/Kg]	0.118	0.121
Power Drift [dB]	0.11	0.05
M2/M1 [%]		5.0
Dist 3dB Peak [mm]		44.4



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 121 of 126

Meas.30 Measurement Report for CS30 LTE, BACK, Band 41, E-UTRA/TDD, UID 10172 CAG, Channel 40620 (2593.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	BACK,	Band	41,	LTE-TDD,	2593.0,	7.45	1.89	39.23
HSL	0.00	E-UTRA/TD	10172-CAG	40620				
		D						

Hardware Setup

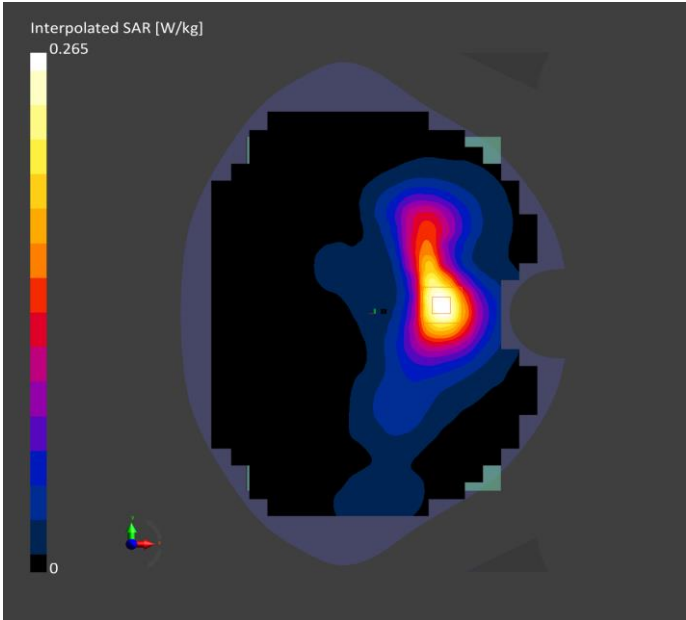
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.214	0.223
psSAR10g [W/Kg]	0.113	0.118
Power Drift [dB]	-0.02	-0.16
M2/M1 [%]		12.0
Dist 3dB Peak [mm]		53.9



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 122 of 126

Meas.31 Measurement Report for CS30 LTE, EDGE TOP, Band 66, E-UTRA/FDD, UID 10297 AAD, Channel 132572 (1770.0MHz) Sensor on Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Test Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	Band 66, E-UTRA/FDD	LTE-FDD, 10297-AAD	1770.0, 132572	8.45	1.40	39.70
D							

Hardware Setup

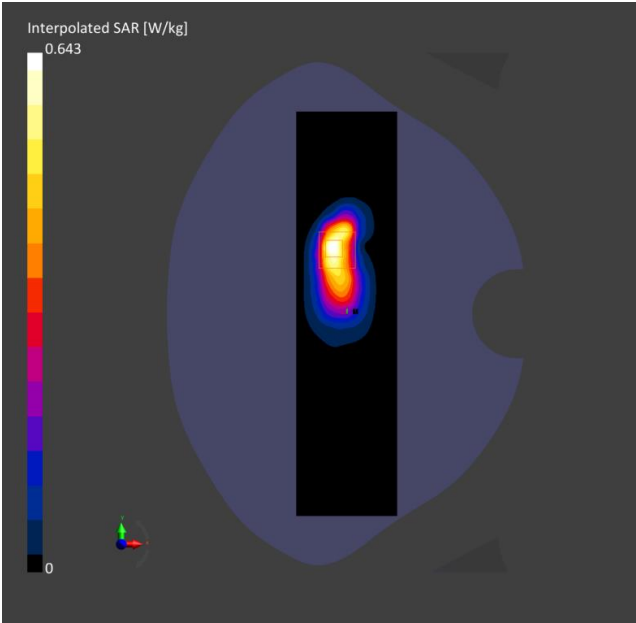
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.497	0.578
psSAR10g [W/Kg]	0.252	0.258
Power Drift [dB]	-0.12	-0.20
M2/M1 [%]		6.0
Dist 3dB Peak [mm]		48.2



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 123 of 126

Meas.32 Measurement Report for CS30 LTE, BACK, Band 66, E-UTRA/FDD, UID 10169 CAE, Channel 132572 (1770.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	210.0 x 140.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band 66, E-UTRA/FD D	LTE-FDD, 10169-CAE	1770.0, 132572	8.45	1.40	39.70

Hardware Setup

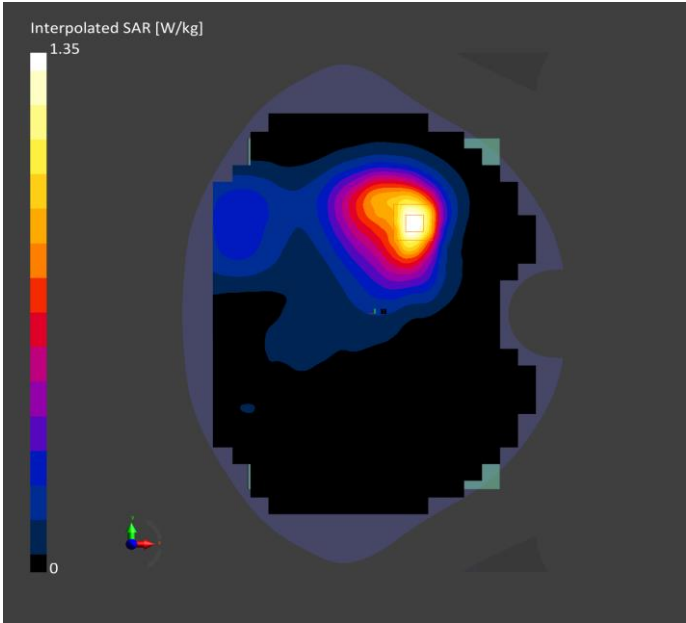
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.12	1.17
psSAR10g [W/Kg]	0.640	0.646
Power Drift [dB]	-0.15	-0.14
M2/M1 [%]		10.8
Dist 3dB Peak [mm]		57.0



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 124 of 126

Meas.33 Measurement Report for CS30 LTE, EDGE TOP, WLAN 2.4GHz, UID 10516 AAA, Channel 1 (2412.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL [S/m]	Conductivity	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	WLAN 2.4GHz	WLAN, 10516-AAA	2412.0, 1	7.65	1.73		39.08

Hardware Setup

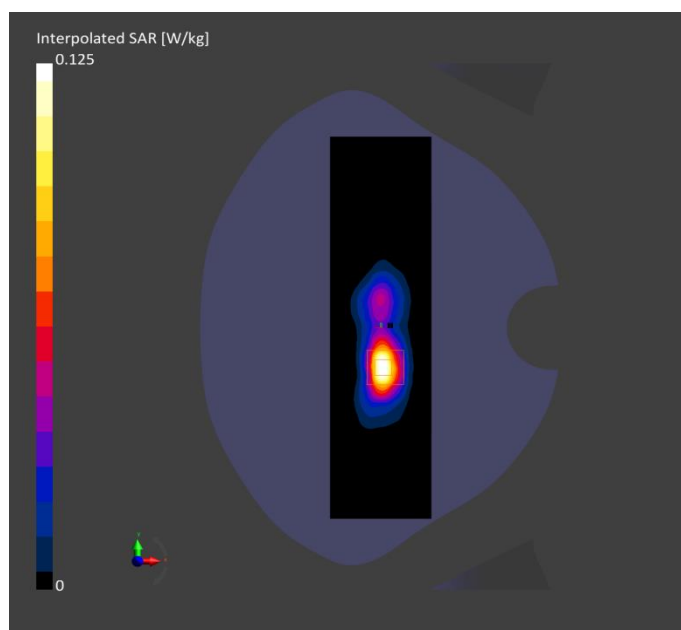
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2021-07-22, 09:06	2021-07-22, 09:13
psSAR1g [W/Kg]	0.097	0.105
psSAR10g [W/Kg]	0.045	0.047
Power Drift [dB]	-0.11	0.14
M2/M1 [%]		7.0
Dist 3dB Peak [mm]		43.0



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 125 of 126

Meas.34 Measurement Report for CS30 LTE, EDGE TOP, WLAN 5GHz, UID 10524 AAB, Channel 44 (5220.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom	Position, Test	Band	Group,	Frequency [MHz],	Conversion	TSL	Conductivity	TSL
Section, TSL	Distance [mm]		UID	Channel Number	Factor	[S/m]		Permittivity
Flat,	EDGE TOP,	WLAN 5GHz	WLAN,	5220.0,	5.53	4.58		35.26
HSL	0.00		10524-AAB	44				

Hardware Setup

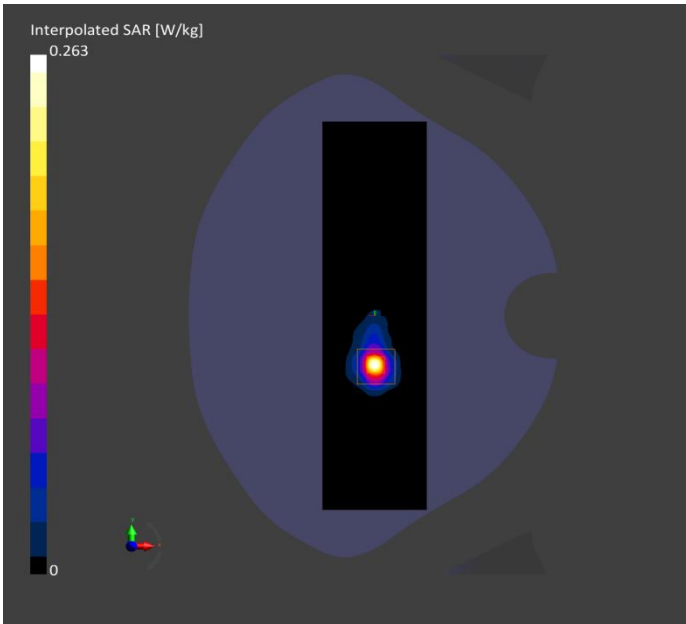
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.151	0.156
psSAR10g [W/Kg]	0.040	0.047
Power Drift [dB]	-0.04	-0.16
M2/M1 [%]		5.7
Dist 3dB Peak [mm]		65.8



TEST REPORT

Report No.: SHE21100005-02XE

Date: 2022-01-22

Page 126 of 126

Meas.35 Measurement Report for CS30 LTE, EDGE TOP, WLAN 5GHz, UID 10533 AAB, Channel 149 (5745.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
CS30 LTE,	140.0 x 210.0 x 30.0	/	Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	WLAN 5GHz	WLAN, 10533-AAB	5745.0, 149	4.75	5.17	35.18

Hardware Setup

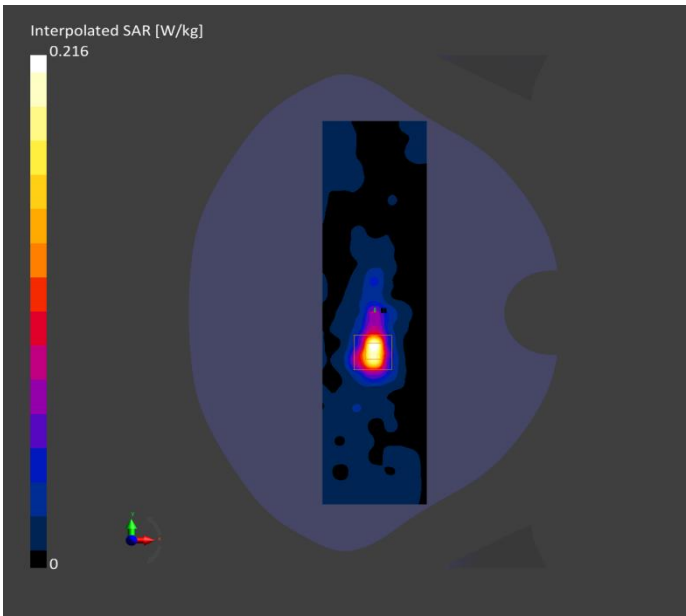
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 1461	HBBL-600-10000 Charge:xxxx, --	EX3DV4 - SN7475, 2020-10-29	DAE4 Sn787, 2020-09-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 240.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.147	0.169
psSAR10g [W/Kg]	0.045	0.055
Power Drift [dB]	-0.14	-0.18
M2/M1 [%]		5.7
Dist 3dB Peak [mm]		64.3



End of the report