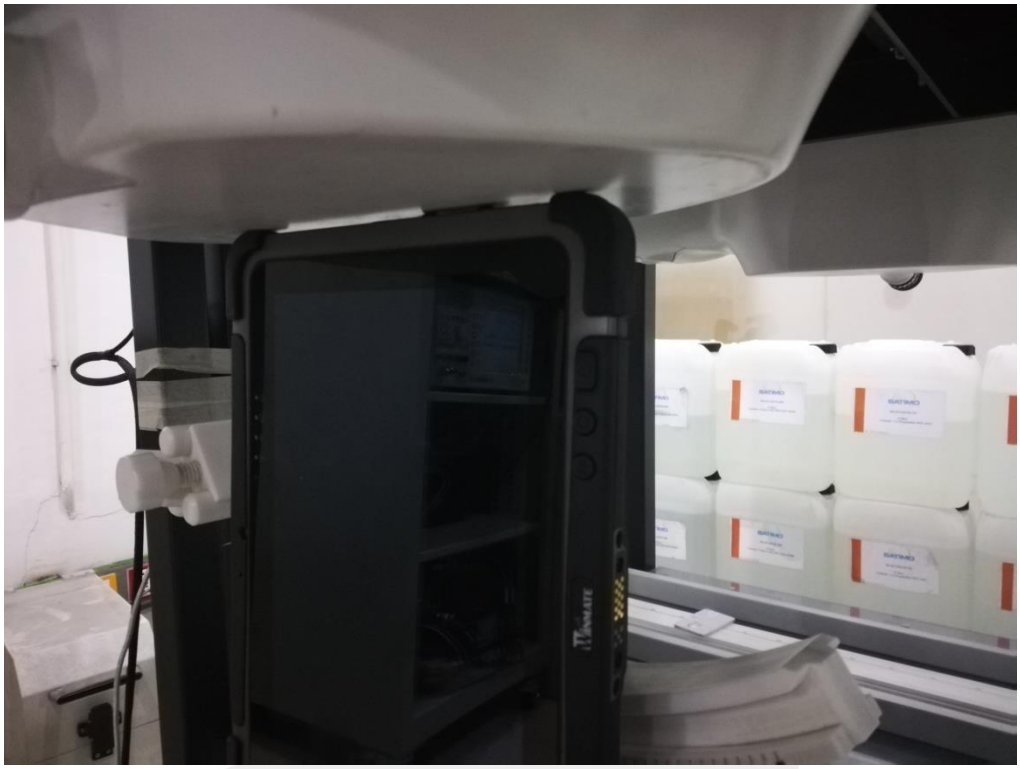
11.2 Setup Photo

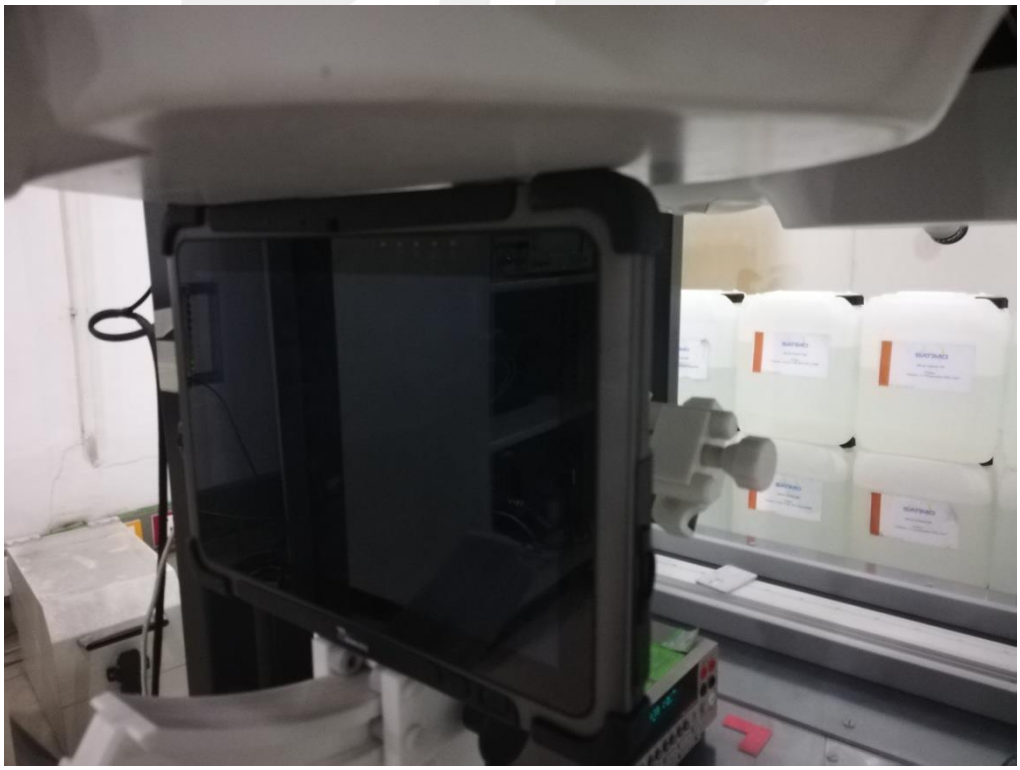
Body Back side(separation distance is 0mm)

Body left side(separation distance is 0mm)

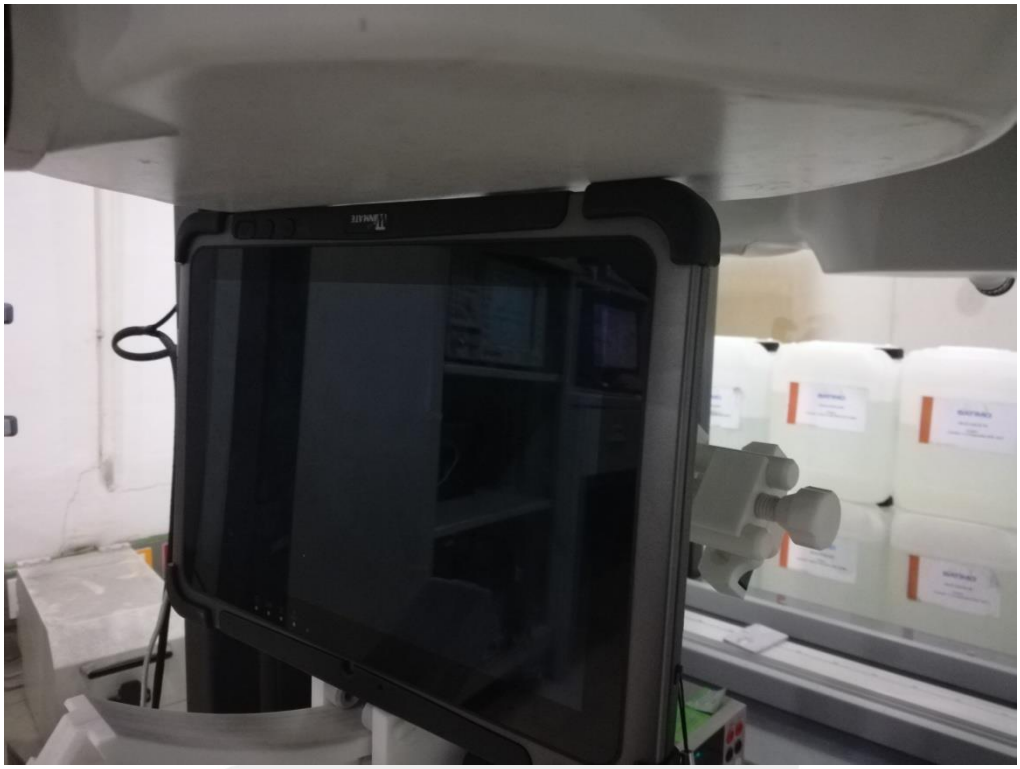
Body right side(separation distance is 0mm)



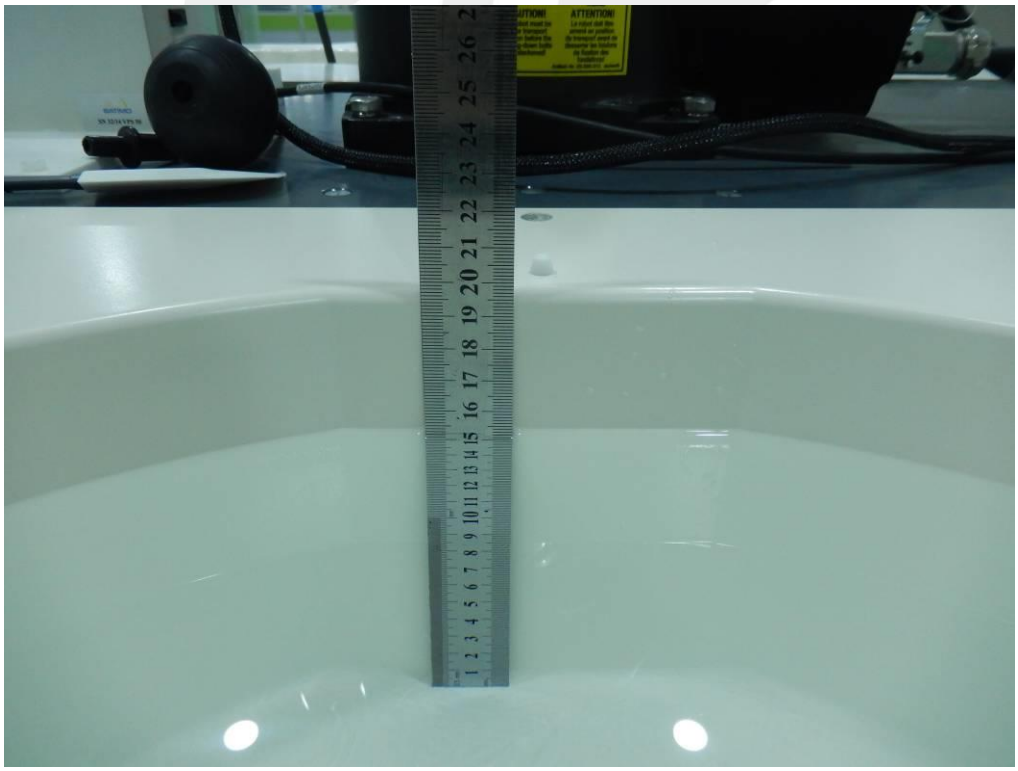
Body top side(separation distance is 0mm)



Body Bottom side(separation distance is 0mm)



Liquid depth (15 cm)



12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
WCDMA II	RMC	Back side	9262	0.607	-1.95	24	23.52	**0.678**	1
		Left side	9262	0.411	-1.49	24	23.52	0.459	/
		Bottom side	9262	0.109	1.01	24	23.52	0.122	/
WCDMA IV	RMC	Back side	1413	0.509	-1.10	24	23.45	**0.578**	2
		Left side	1413	0.397	-3.37	24	23.45	0.451	/
		Bottom side	1413	0.116	2.27	24	23.45	0.132	/
WCDMA V	RMC	Back side	4233	0.037	-1.21	24	23.51	**0.041**	3
		Left side	4233	0.025	-3.76	24	23.51	0.028	/
		Bottom side	4233	0.009	-3.37	24	23.51	0.010	/

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	A	Back side	7	0.257	-1.88	21.4	21.06	100	**0.278**	4
			Left side	7	0.135	-1.08	21.4	21.06	100	0.146	/
		B	Back side	7	0.051	-2.39	22	21.15	100	**0.062**	5
			Right side	7	0.028	2.54	22	21.15	100	0.034	/
			Top side	7	0.015	3.95	22	21.15	100	0.018	/
	802.11n	A	Back side	7	0.246	3.22	21	20.67	100	**0.265**	6
			Left side	7	0.109	1.04	21	20.67	100	0.118	/
		B	Back side	7	0.024	-3.19	22	21.10	100	**0.030**	7
			Right side	7	0.012	-0.01	22	21.10	100	0.015	/
			Top side	7	0.008	2.77	22	21.10	100	0.010	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- 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. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.271 W/Kg for Body)
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

Band	Mod.	RB Size	RB offset	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 4	QPSK	1	0	Back Side	20175	0.574	-3.31	24	23.97	0.578	/
		1	0	Left Side	20050	1.124	1.24	24	23.40	1.291	/
		1	0	Left Side	20175	1.422	-0.16	24	23.97	**1.432**	8
		1	0	Left Side	20300	1.296	2.96	24	23.71	1.385	/
		100	0	Left Side	20050	1.159	1.96	23	22.56	1.283	/
		1	0	Bottom Side	20175	0.105	1.68	24	23.97	0.106	/
LTE Band 7	QPSK	1	0	Back Side	21100	0.466	0.54	23	22.93	**0.474**	9
		1	0	Left Side	21100	0.411	2.88	23	22.93	0.418	/
		1	0	Bottom Side	21100	0.206	1.84	23	22.93	0.209	/
LTE Band 12	QPSK	1	0	Back Side	23017	0.231	-3.18	24	23.99	**0.232**	10
		1	0	Left Side	23017	0.143	-1.22	24	23.99	0.143	/
		1	0	Top Side	23017	0.072	1.00	24	23.99	0.072	/
		1	0	Bottom Side	23017	0.103	-0.49	24	23.99	0.103	/
LTE Band 13	QPSK	1	25	Back Side	23230	0.137	-2.35	24	23.93	**0.139**	11
		1	25	Left Side	23230	0.109	-2.44	24	23.93	0.111	/
		1	25	Top Side	23230	0.048	-1.45	24	23.93	0.049	/
		1	25	Bottom Side	23230	0.057	-0.74	24	23.93	0.058	/
LTE Band 25	QPSK	1	0	Back Side	26590	0.207	-0.81	24	23.99	**0.207**	12
		1	0	Left Side	26590	0.175	2.09	24	23.99	0.175	/
		1	0	Bottom Side	26590	0.083	-2.85	24	23.99	0.083	/
LTE Band 26	QPSK	1	0	Back Side	26865	0.024	-0.85	24	23.98	**0.024**	13
		1	0	Left Side	26865	0.018	3.96	24	23.98	0.018	/
		1	0	Top Side	26865	0.006	1.58	24	23.98	0.006	/
		1	0	Bottom Side	26865	0.009	-0.40	24	23.98	0.009	/
LTE Band 30	QPSK	1	13	Back Side	27710	0.251	1.69	23	22.95	**0.254**	14
		1	13	Left Side	27710	0.207	-1.34	23	22.95	0.209	/
		1	13	Bottom Side	27710	0.111	3.40	23	22.95	0.112	/
LTE Band 41	QPSK	1	50	Back Side	41690	0.912	-1.03	20	19.94	0.925	/
		1	50	Back Side	42590	0.803	2.19	22	21.30	0.943	/
		1	50	Back Side	43490	0.975	-0.03	22	21.53	**1.086**	15
		100	0	Back Side	43490	0.868	3.97	21	20.39	0.999	/
		1	50	Left Side	43490	0.158	-3.42	22	21.53	0.176	/

LTE BAND 2

SAR for LTE Band 2 (Frequency range: 1850-1910 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth

LTE BAND 5

SAR for LTE Band 5 (Frequency range: 824-849 MHz) is covered by LTE Band 26 (Frequency range: 814-849 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
5.2G WLAN	802.11a	A	Back side	48	0.071	0.42	22	21.06	**0.088**	16
			Left side	48	0.036	-3.37	22	21.06	0.045	/
		B	Back side	48	0.162	-2.11	22	21.23	**0.193**	17
			Right side	48	0.082	-0.95	22	21.23	0.098	
			Top side	48	0.037	-1.45	22	21.23	0.044	
	802.11n	A	Back side	48	0.034	3.39	22	21.18	**0.041**	18
			Left side	48	0.019	-3.46	22	21.18	0.023	
		B	Back side	48	0.031	2.37	22	21.05	**0.039**	19
			Right side	48	0.023	1.98	22	21.05	0.029	
			Top side	48	0.012	2.58	22	21.05	0.015	

Band	Mode	Test Position	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
Bluetooth	GFSK	Back side	0.045	2.01	10	9.95	**0.046**	20
		Left side	0.024	1.16	10	9.95	0.024	/

Band	Mode	Scaled SAR (W/Kg)		A+B
WLAN 2.4G	802.11n	Antenna A	0.265	**0.295**
	802.11n	Antenna B	0.030	
WLAN 5.2G	802.11n	Antenna A	0.041	0.080
	802.11n	Antenna B	0.039	

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01v05r01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

Repeated SAR

Band	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 41	Back Side	43490	0.951	-1.62	22	21.53	1.060	/
LTE Band 4	Left Side	20175	1.407	3.01	24	23.97	1.417	/

12.2 repeated SAR measurement

Band	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
LTE Band 41	Back Side	43490	0.975	0.951	1.03	-	-	-
LTE Band 4	Left Side	20175	1.422	1.407	1.01	-	-	-

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is≥0.8W/Kg.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is≤1.2and the measured SAR＜1.45W/Kg, only one repeated measurement is required.
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 ≥ 1.45W/Kg
4. The ratio is the difference in percentage between original and repeated measured SAR.

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

RF Exposure Condition	Item	Capable Transmit Configurations		
Standalone	1	WWAN OFF	+ Antenna B Wi-Fi 2.4 GHz	+Bluetooth
	2		+ Antenna B Wi-Fi 5.2 GHz	+Bluetooth
	3	WCDMA WWAN ON	+ Antenna A Wi-Fi 2.4 GHz	
	4		+ Antenna B Wi-Fi 2.4 GHz	
	5		+ Antenna A+B Wi-Fi 2.4 GHz	
	6		+ Antenna B Wi-Fi 2.4 GHz	+Bluetooth
	7			+Bluetooth
	8		+ Antenna A Wi-Fi 5.2 GHz	
	9		+ Antenna B Wi-Fi 5.2 GHz	
	10		+ Antenna A+B Wi-Fi 5.2 GHz	
	11		+ Antenna B Wi-Fi 5.2 GHz	+ Bluetooth
	12	LTE WWAN ON	+ Antenna B Wi-Fi 2.4 GHz	+Bluetooth
	13		+ Antenna B Wi-Fi 5.2 GHz	+Bluetooth
	14		+ Antenna A Wi-Fi 2.4 GHz	
	15		+ Antenna B Wi-Fi 2.4 GHz	
	16		+ Antenna A+B Wi-Fi 2.4 GHz	
	17		+ Antenna B Wi-Fi 2.4 GHz	+Bluetooth
	18			+Bluetooth
	19		+ Antenna A Wi-Fi 5.2 GHz	
	20		+ Antenna B Wi-Fi 5.2 GHz	

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01, BT SAR is excluded as below table.
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. For minimum test separation distance≦50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) ·[√f (GHz) /x] ≦3.0 for 1-g SAR and ≦7.5 for 10-g extremity SAR
6. The reported SAR summation is calculated based on the same configuration and test position.
7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
   a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 mm;
   Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
   b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Sum of the SAR for Wi-Fi and BT

Test Position	Standalone SAR (W/ kg)		
	A	B	C
	2.4G WLAN Ant B	5.2G WLAN Ant B	Bluetooth
Back side	0.062	0.039	0.046
Left side	0	0	0.024
Right side	0.034	0.029	0
Top side	0.018	0.015	0
Bottom side	0	0	0

Test Position	Σ 1-g SAR (W/ kg)	
	A+C	B+C
Back side	0.108	0.085
Left side	0.024	0.024
Right side	0.034	0.029
Top side	0.018	0.015
Bottom side	0	0

Sum of the SAR for WCDMA,WIFI and BT

Test Position	Standalone SAR (W/ kg)							
	A	B	C	D	E	F	G	H
	WCDMA	2.4G WLAN Ant A	2.4G WLAN Ant B	2.4G WLAN Ant A+B	5.2G WLAN Ant A	5.2G WLAN Ant B	5.2G WLAN Ant A+B	Bluetooth
Back side	0.678	0.278	0.062	0.295	0.088	0.039	0.080	0.046
Left side	0.459	0.146	0	0.118	0.045	0	0.023	0.024
Right side	0	0	0.034	0.015	0	0.029	0.029	0
Top side	0	0	0.018	0.010	0	0.015	0.015	0
Bottom side	0.132	0	0	0	0	0	0	0

Test Position	Σ 1-g SAR (W/ kg)								
	A+B	A+C	A+D	A+C+H	A+H	A+E	A+F	A+G	A+F+H
Back side	0.956	0.740	0.973	0.786	0.724	0.766	0.717	0.758	0.763
Left side	0.605	0.459	0.577	0.483	0.483	0.504	0.459	0.482	0.483
Right side	0	0.034	0.015	0.034	0	0	0.029	0.029	0.029
Top side	0	0.018	0.010	0.018	0	0	0.015	0.015	0.015
Bottom side	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132

Sum of the SAR for LTE,WIFI and BT

Test Position	Standalone SAR (W/ kg)							
	A	B	C	D	E	F	G	H
	LTE	2.4G WLAN Ant A	2.4G WLAN Ant B	2.4G WLAN Ant A+B	5.2G WLAN Ant A	5.2G WLAN Ant B	5.2G WLAN Ant A+B	Bluetooth
Back side	1.086	0.278	0.062	0.295	0.088	0.039	0.080	0.046
Left side	1.432	0.146	0	0.118	0.045	0	0.023	0.024
Right side	0	0	0.034	0.015	0	0.029	0.029	0
Top side	0.072	0	0.018	0.010	0	0.015	0.015	0
Bottom side	0.209	0	0	0	0	0	0	0

Test Position	∑ 1-g SAR (W/ kg)								
	A+B	A+C	A+D	A+C+H	A+H	A+E	A+F	A+G	A+F+H
Back side	1.364	1.148	1.381	1.194	1.132	1.174	1.125	1.166	1.171
Left side	**1.578**	1.432	1.550	1.456	1.456	1.477	1.432	1.455	1.456
Right side	0	0.034	0.015	0.034	0	0	0.029	0.029	0.029
Top side	0.072	0.09	0.082	0.09	0.072	0.072	0.087	0.087	0.087
Bottom side	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2017.08.15	2020.08.14
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2017.08.15	2020.08.14
1800MHz Dipole	MVG	SID1800	SN 30/14 DIP1G800-329	2017.08.15	2020.08.14
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2017.08.15	2020.08.14
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2017.08.15	2020.08.14
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2017.08.15	2020.08.14
Waveguide	SATIMO	SWG5500	SN 13/14 WGA32	2017.08.15	2020.08.14
E-Field Probe	MVG	SSE2	SN 45/15 EPGO281	2018.04.10	2019.04.09
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2018.04.10	2019.04.09
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	2014.09.01	N/A
Phantom2	MVG	SAM	SN 32/14 SAM116	2014.09.01	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	2014.09.01	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	2014.09.01	N/A
Network Analyzer	Agilent	8753ES	US38432810	2018.03.08	2019.03.07
Multi Meter	Keithley	Multi Meter 2000	4050073	2018.10.13	2019.10.12
Signal Generator	Agilent	N5182A	MY50140530	2018.10.16	2019.10.15
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2018.10.16	2019.10.15
Wireless Communication Test Set	R&S	CMW500	117239	2018.10.13	2019.10.12
Power Amplifier	DESAY	ZHL-42W	9638	2018.10.13	2019.10.12
Power Meter	R&S	NRP	100510	2018.10.26	2019.10.25
Power Meter	Agilent	E4418B	GB43312526	2018.10.26	2019.10.25
Power Sensor	R&S	NRP-Z11	101919	2018.10.13	2019.10.12
Power Sensor	Agilent	E9301A	MY41497725	2018.10.13	2019.10.12
9dB Attenuator	Agilent	99899	DC-18GHz	2018.05.09	2019.05.08
11dB Attenuator	Agilent	8494B	DC-18GHz	2018.05.09	2019.05.08
110dB Attenuator	Agilent	8494B	DC-18GHz	2018.05.09	2019.05.08
Directional coupler	Narda	4226-20	3305	2018.05.09	2019.05.08
hygrothermograph	MiEO	HH660	N/A	2018.10.11	2019.10.10
Thermograph	Elitech	RC-4	S/N EF7176501537	2018.10.15	2019.10.14

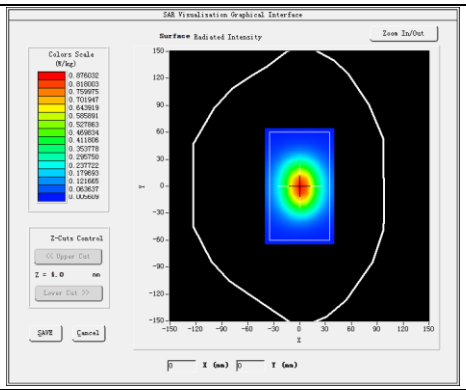
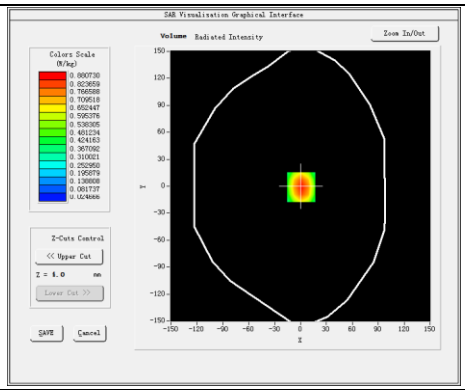
Appendix A. System Validation Plots

System Performance Check Data (750MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-11-30
Measurement duration: 14 minutes 12 seconds

Experimental conditions.

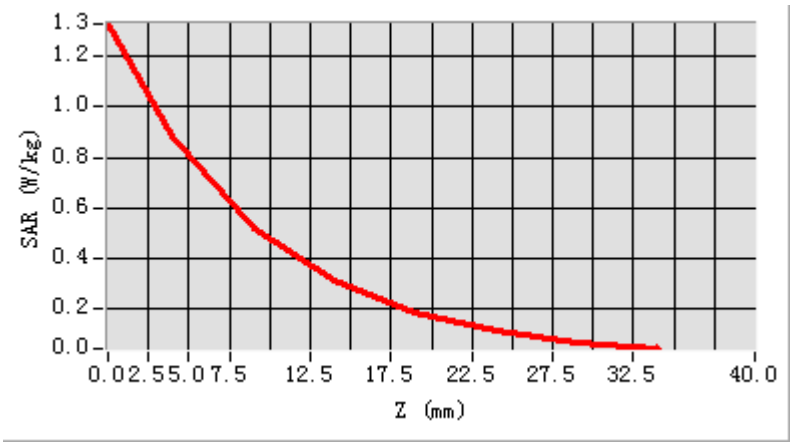
Probe	
Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	55.13
Conductivity (S/m)	0.96
Power drift (%)	1.44
Probe	SN 45/15 EPGO281
ConvF:	1.59
Crest factor:	1:1

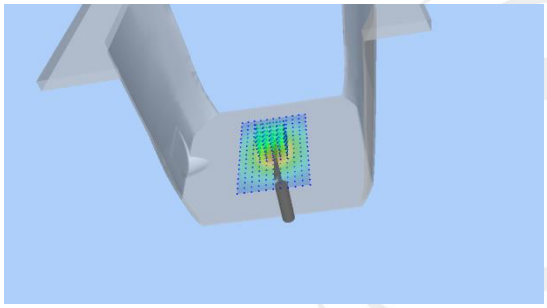
SURFACE SAR	VOLUME SAR
	

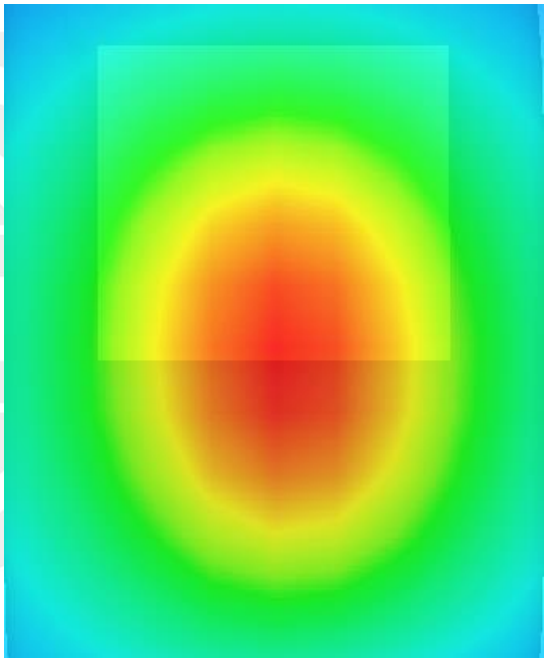
Maximum location: X=1.00, Y=-1.00

SAR 10g (W/Kg)	0.518932
SAR 1g (W/Kg)	0.868120

Z Axis Scan


SAR (W/kg)
1.3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



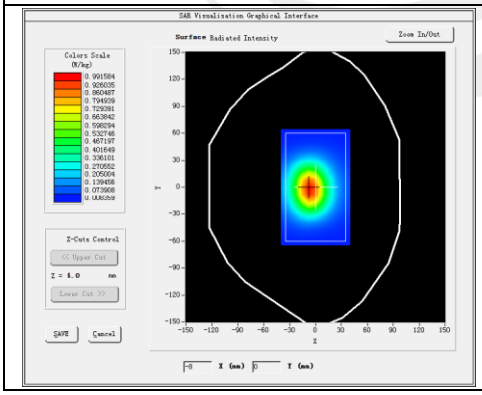
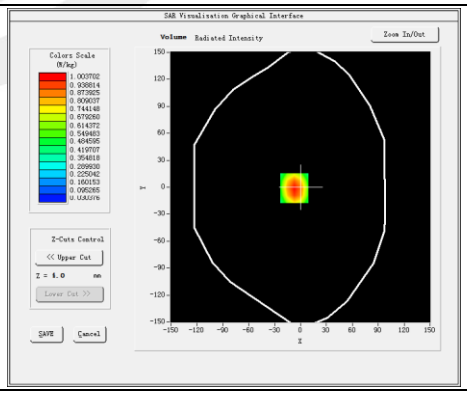


System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-11-13
Measurement duration: 14 minutes 13 seconds

Experimental conditions.

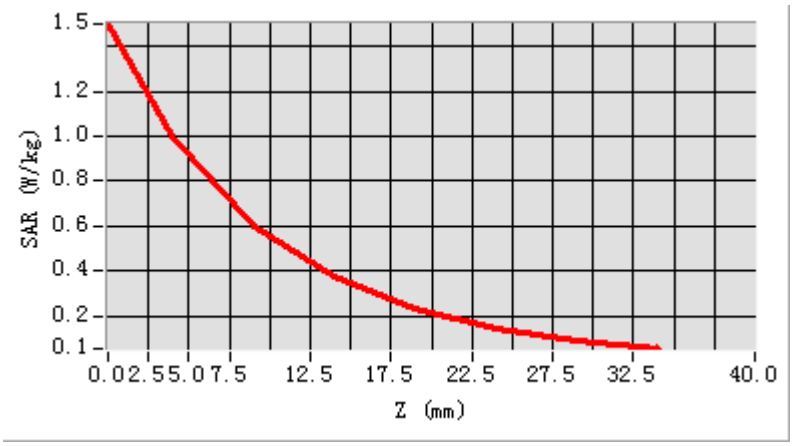
Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	55.95
Conductivity (S/m)	0.95
Power drift (%)	-0.37
Probe	SN 45/15 EPGO281
ConvF:	1.85
Crest factor:	1:1

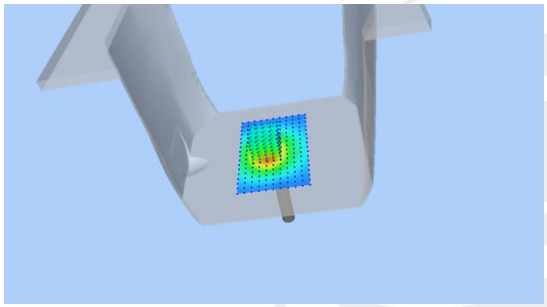
SURFACE SAR	VOLUME SAR
	

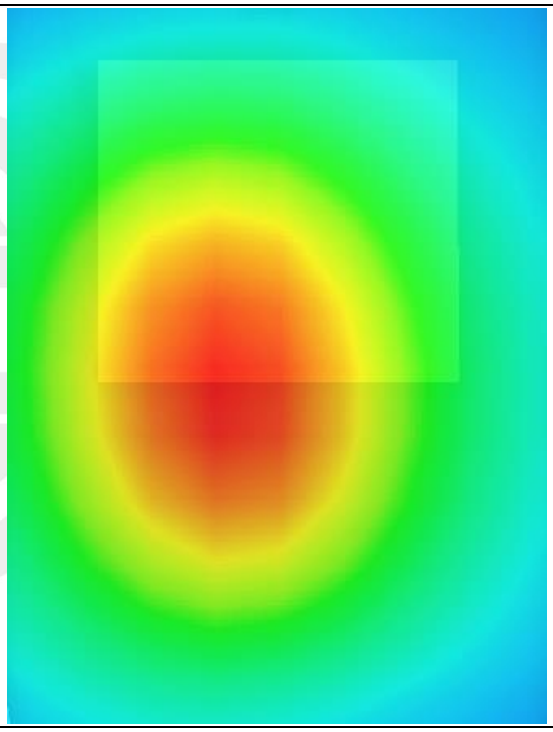
Maximum location: X=-7.00, Y=-1.00

SAR 10g (W/Kg)	0.535701
SAR 1g (W/Kg)	1.011291

Z Axis Scan


1.5
1.2
1.0
0.8
0.6
0.4
0.2
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



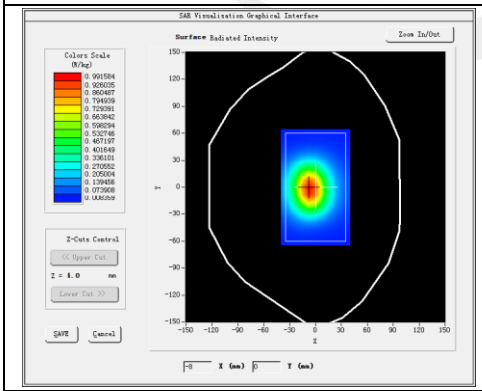
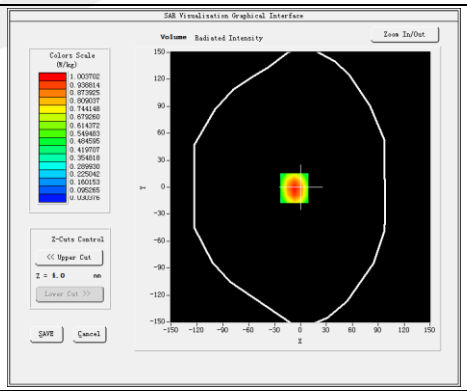


System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-12-01
Measurement duration: 14 minutes 13 seconds

Experimental conditions.

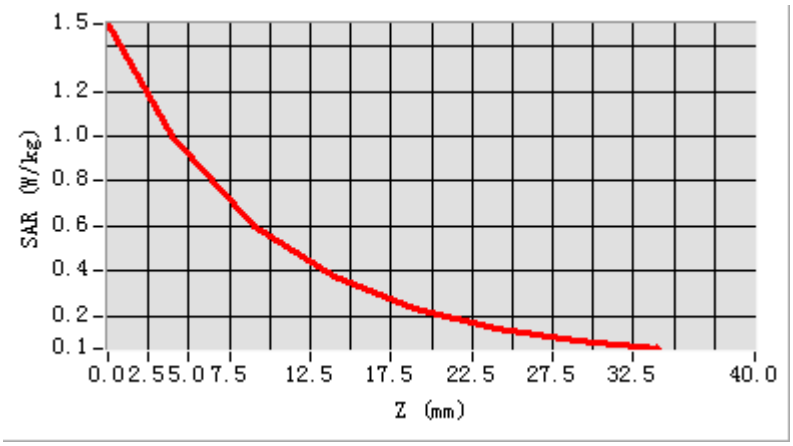
Probe	
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	54.50
Conductivity (S/m)	0.95
Power drift (%)	-0.44
Probe	SN 45/15 EPGO281
ConvF:	1.85
Crest factor:	1:1

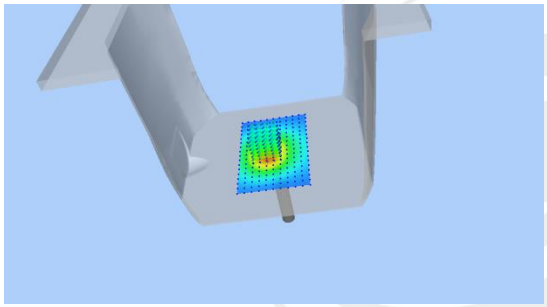
SURFACE SAR	VOLUME SAR
	

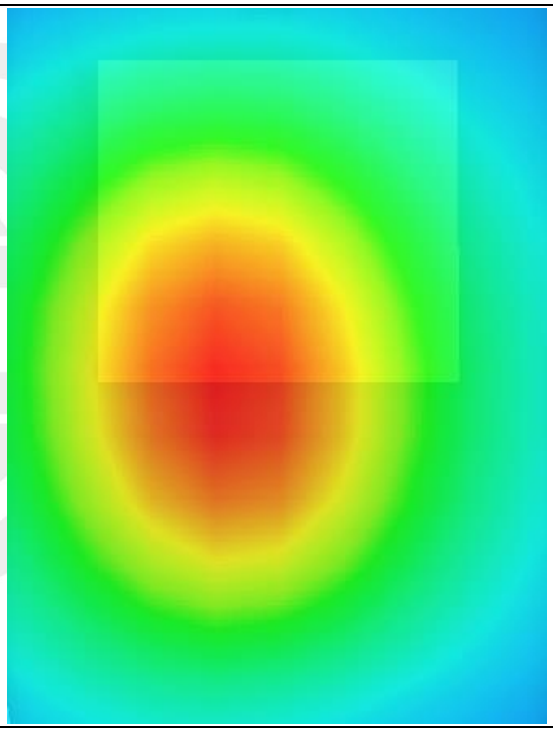
Maximum location: X=-7.00, Y=-1.00

SAR 10g (W/Kg)	0.521548
SAR 1g (W/Kg)	0.962429

Z Axis Scan


1.5
1.2
1.0
0.8
0.6
0.4
0.2
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



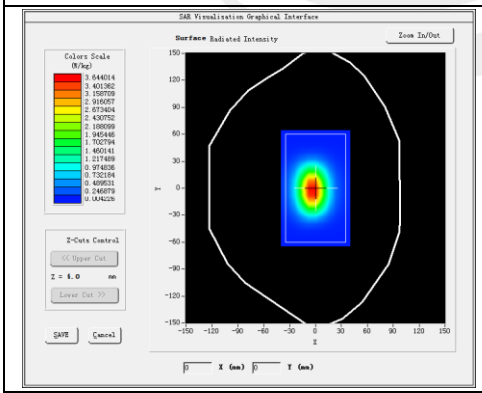
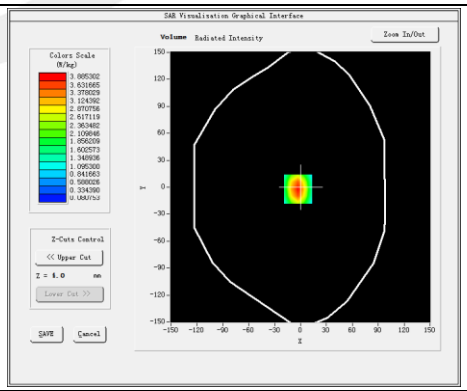


System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-11-15

Experimental conditions.

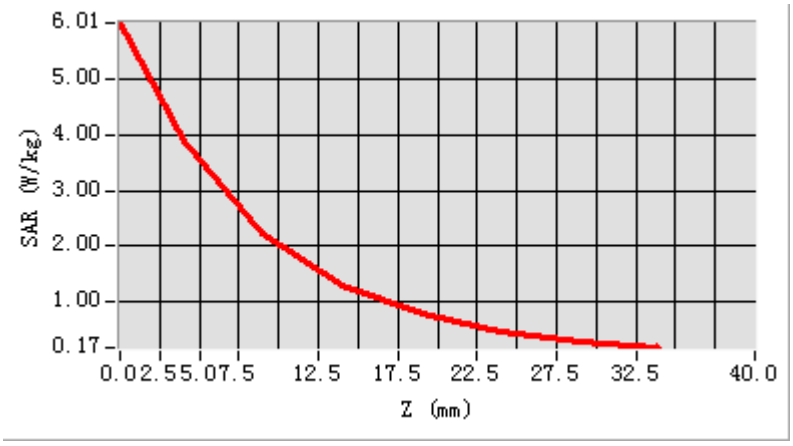
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	53.96
Conductivity (S/m)	1.50
Power drift (%)	-0.28
Probe	SN 45/15 EPGO281
ConvF	1.87
Crest factor:	1:1

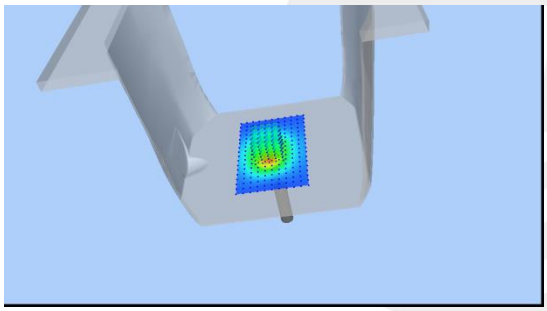
SURFACE SAR	VOLUME SAR
	

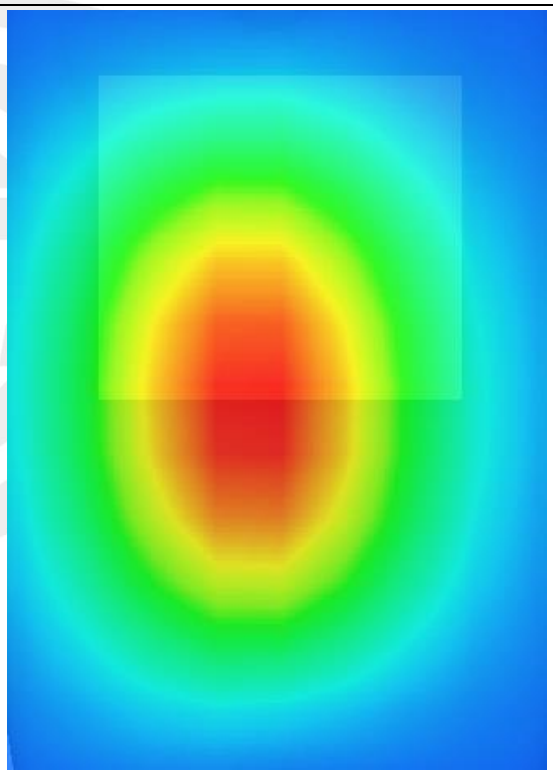
Maximum location: X=-3.00, Y=-2.00

SAR 10g (W/Kg)	2.158147
SAR 1g (W/Kg)	3.758104

Z Axis Scan


6.01
5.00
4.00
3.00
2.00
1.00
0.17
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



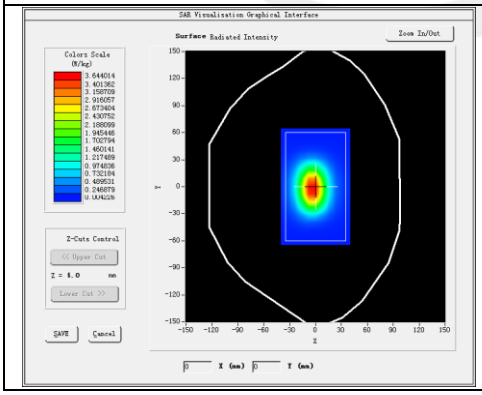
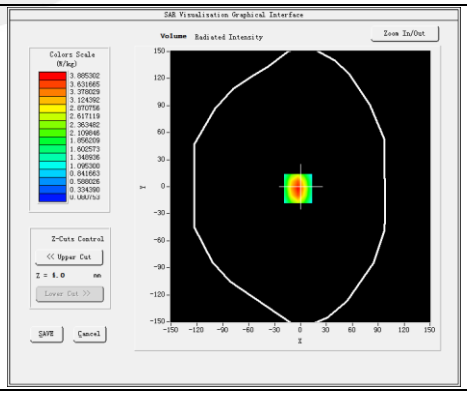


System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-12-02

Experimental conditions.

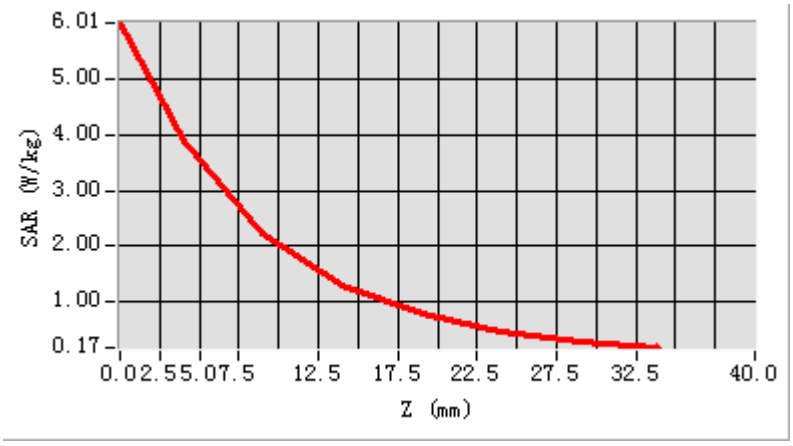
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	53.22
Conductivity (S/m)	1.52
Power drift (%)	-1.08
Probe	SN 45/15 EPGO281
ConvF	1.87
Crest factor:	1:1

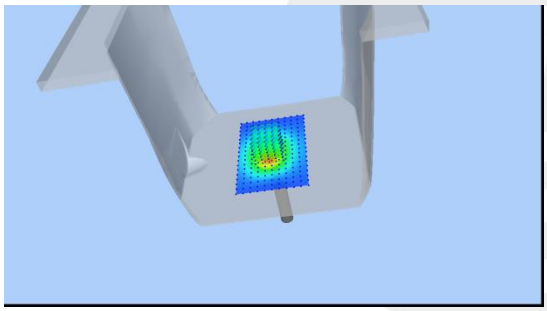
SURFACE SAR	VOLUME SAR
	

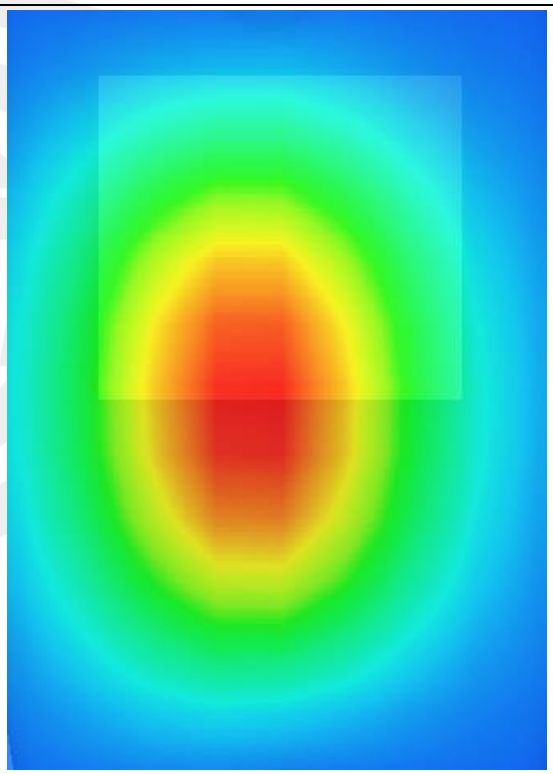
Maximum location: X=-3.00, Y=-2.00

SAR 10g (W/Kg)	2.125486
SAR 1g (W/Kg)	3.824932

Z Axis Scan


6.01
5.00
4.00
3.00
2.00
1.00
0.17
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



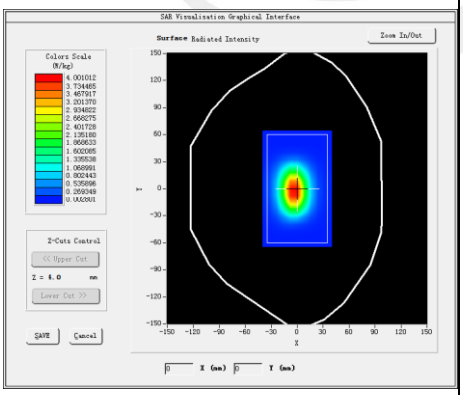
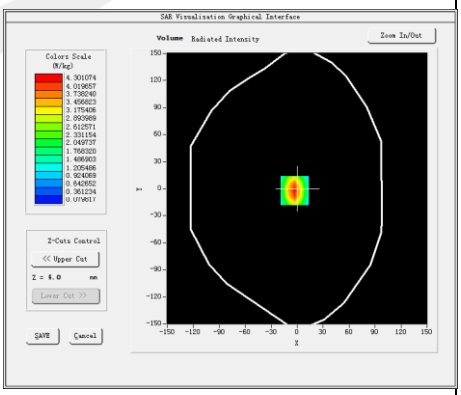


System Performance Check Data (1900MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-11-17
Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	53.76
Conductivity (S/m)	1.50
Power drift (%)	-0.31
Probe	SN 45/15 EPGO281
ConvF:	1.57
Crest factor:	1:1

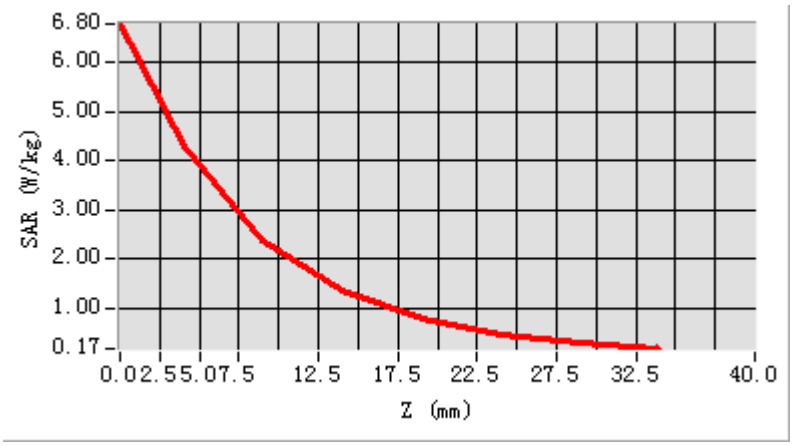
SURFACE SAR	VOLUME SAR
	

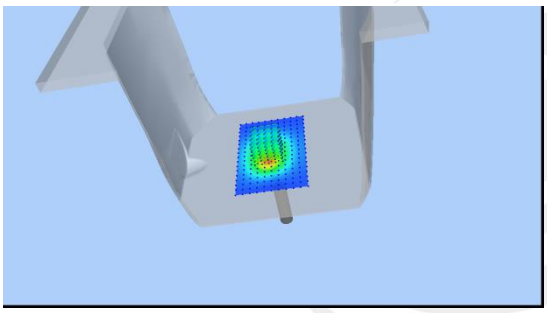
Maximum location: X=-3.00, Y=-2.00

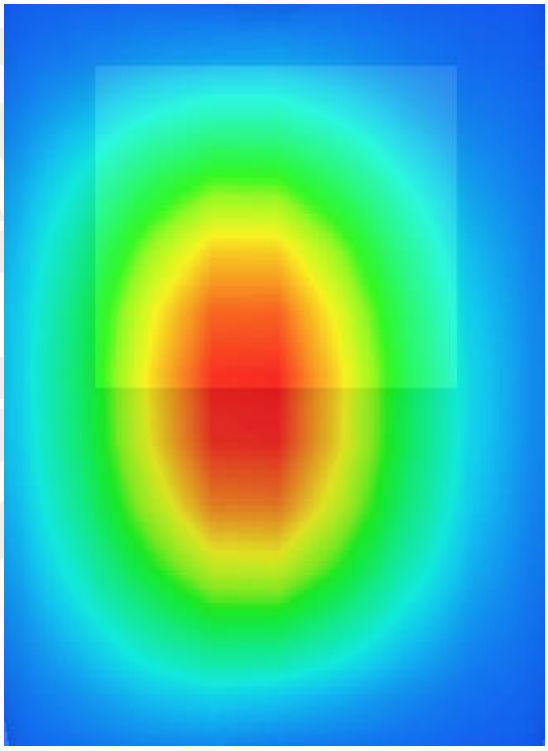
SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	2.158147
SAR 1g (W/Kg)	3.758104

Z Axis Scan


6.80
6.00
5.00
4.00
3.00
2.00
1.00
0.17
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



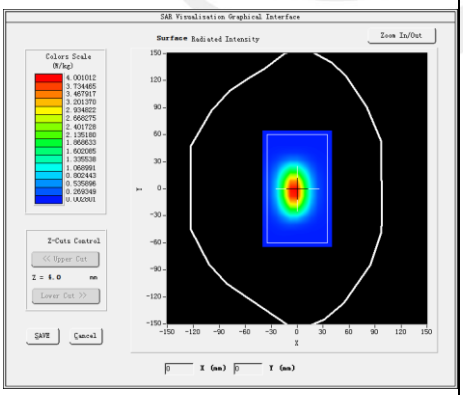
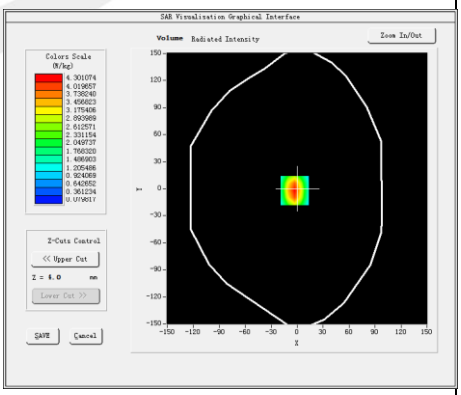


System Performance Check Data (1900MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2018-12-04
Measurement duration: 14 minutes 46 seconds

Experimental conditions.

Device Position	-
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	53.05
Conductivity (S/m)	1.53
Power drift (%)	0.82
Probe	SN 45/15 EPGO281
ConvF:	1.57
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-3.00, Y=-2.00

SAR Peak: 5.27 W/kg

SAR 10g (W/Kg)	2.254856
SAR 1g (W/Kg)	4.111457