

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/0 May15,2023

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CA 12A-66A	Yes	CA 12A-66A-66A	Yes				
CA_13A-48A	Yes	CA 13A-48A-66A	Yes	CA 13A-48A-66B	No		
				CA 13A-48A-66C	No		
		CA 13A-48C	Yes	CA 13A-48D	Yes	CA 13A-48D-66A	No
CA_13A-66A	Yes					CA 13A-48E	No
		CA 13A-66A-66A	No				
		CA 13A-66B	No				
		CA 13A-66C	No				
CA 14A-30A	Yes	CA 14A-30A-66A	Yes	CA 14A-30A-66A-66A	No		
CA 14A-66A	Yes	CA 14A-66A-66A	Yes				
CA 30A-66A	Yes	CA 30A-66A-66A	No				
CA 48A-48A	Yes	CA 48A-48C	Yes	CA 48A-48D	Yes		
CA_48A-66A	Yes	CA 48A-66A-66A	No				
		CA 48A-66B	No				
		CA 48A-66C	No				
CA_48C	Yes			CA 48C-48C	Yes		
		CA 48C-66A	Yes	CA 48C-66A-66A	No		
				CA 48C-66B	No		
				CA 48C-66C	No		
		CA 48D	Yes	CA 48D-66A	Yes		
				CA 48E	Yes	CA 48E-66A	No
CA 66A-66A	Yes	CA 66A-66A-66A	No				
CA 66B	Yes						
CA 66C	Yes						

Downlink LTE CA Power

DL LTE CA Class	PCC							SCC1		SCC2		SCC3		SCC4		Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
CA_2A-12A-30A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 12	10M	Band 30	10M	/	/	/	/	22.43	22.44
CA_2A-4A-13A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 4	20M	Band 13	10M	/	/	/	/	22.37	22.44
CA_2A-5A-30A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 5	20M	Band 30	10M	/	/	/	/	22.30	22.44
CA_4A-12A-30A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 12	10M	Band 30	10M	/	/	/	/	22.76	22.80
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 12	10M	/	/	/	/	22.72	22.80
CA_4A-4A-13A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 13	10M	/	/	/	/	22.79	22.80
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 5	10M	/	/	/	/	22.76	22.80
CA_4A-5A-30A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 30	10M	/	/	/	/	22.74	22.80
CA_13A-66A-66A	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.95	24.08
CA_13A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.93	24.08
CA_13A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	24.07	24.08
CA_13A-66C	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	24.08	24.08
CA_30A-66A-66A	Band 30	10M	2310	27710	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.05	23.05
CA_48A-66A-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.36	23.51
CA_48A-66B	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.50	23.51
CA_48A-66C	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.48	23.51
CA_66A-66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	22.87	23.00
CA_2A-2A-12A-30A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 12	10M	Band 30	10M	/	/	22.36	22.44
CA_2A-2A-30A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 30	10M	Band 66	20M	/	/	22.34	22.44
CA_2A-2A-4A-4A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 4	20M	Band 4	20M	/	/	22.34	22.44
CA_2A-2A-4A-5A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 4	20M	Band 5	10M	/	/	22.32	22.44
CA_2A-2A-5A-30A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 5	10M	Band 30	10M	/	/	22.30	22.44
CA_2A-30A-66A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	22.38	22.44
CA_2A-4A-4A-5A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 4	20M	Band 4	20M	Band 5	10M	/	/	22.30	22.44
CA_2A-5A-48C	Band 2	20M	1880	1890Q	QPSK	1	0	Band 5	10M	Band 48	20M	Band 48	20M	/	/	22.43	22.44
CA_2A-66A-66A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 66	20M	Band 66	20M	Band 66	20M	/	/	22.42	22.44
CA_5A-30A-66A-66A	Band 5	10M	835.6	20525	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	23.07	23.18
CA_5A-48D	Band 5	10M	835.6	20525	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	/	/	23.07	23.18
CA_5A-48C-66A	Band 5	10M	835.6	20525	QPSK	1	0	Band 48	20M	Band 48	20M	Band 66	20M	/	/	23.03	23.18
CA_12A-30A-66A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	24.17	24.28
CA_13A-48A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.93	24.08
CA_13A-48A-66C	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.96	24.08
CA_14A-30A-66A-66A	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	24.01	24.15
CA_48C-66A-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.48	23.51
CA_48C-66B	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.37	23.51
CA_48C-66C	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.37	23.51
CA_2A-13A-48D	Band 2	20M	1880	1890Q	QPSK	1	0	Band 13	10M	Band 48	20M	Band 48	20M	Band 48	20M	22.33	22.44
CA_2A-2A-12A-66A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 12	10M	Band 66	20M	Band 66	20M	22.44	22.44
CA_2A-2A-13A-66A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 13	10M	Band 66	20M	Band 66	20M	22.44	22.44
CA_2A-2A-14A-66A-66A	Band 2	20M	1880	1890Q	QPSK	1	0	Band 2	20M	Band 14	10M	Band 66	20M	Band 66	20M	22.35	22.44



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CA_2A-2A-5A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.43	22.44
CA_2A-2A-5A-66B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.29	22.44
CA_2A-2A-5A-66C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.39	22.44
CA_2A-48D-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	22.38	22.44
CA_2A-48E	Band 2	20M	1880	18900	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	22.36	22.44
CA_4A-48E	Band 4	20M	1732.5	20175	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	22.74	22.80
CA_13A-48D-66A	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	24.05	24.08
CA_13A-48E	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	24.00	24.08
CA_48E-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	23.46	23.51

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2)SAR for UL CA is required in each exposure condition and frequency band combination

3)For this device , as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the

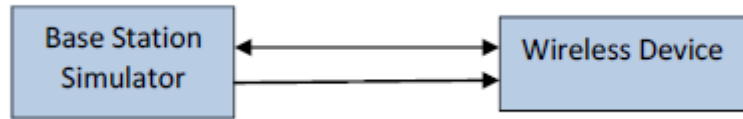


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respective component carrier.



DL CA Power Measurement Setup

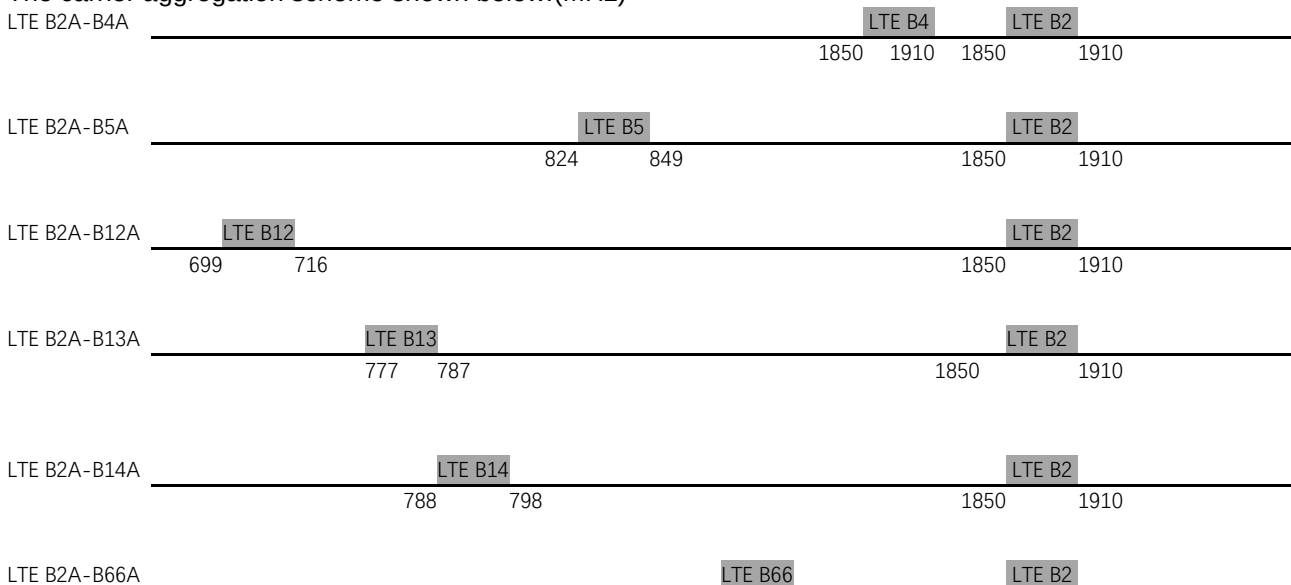
c) Inter-band carrier aggregation requirements for uplink.

1. For Inter-band uplink CA mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from another 4G(LTE). Smart Transmit algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B4	B5	B12	B13	B14	B30	B66	
		Ant5	Ant1	Ant1	Ant1	Ant1	Ant2	Ant2	Ant5
B2	Ant2	√	√	√	√	√			√
B4	Ant2		√	√	√				
B5	Ant1						√	√	
B12	Ant1						√	√	
B13	Ant1							√	
B14	Ant1						√	√	

The carrier aggregation scheme shown below.(MHz)



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		1710	1780	1850	1910
LTE B4A-B5A		LTE B5		LTE B4	
		824	849	1850	1910
LTE B4A-B12A	LTE B12			LTE B4	
	699	716		1850	1910
LTE B4A-B13A		LTE B13		LTE B4	
		777	787	1850	1910
LTE B5A-B30A		LTE B5			LTE B30
		824	849		2305 2315
LTE B5A-B66A		LTE B5	LTE B66		
		824	849 1710 1780		
LTE B12A-B30A	LTE B12				LTE B30
	699	716			2305 2315
LTE B12A-B66A	LTE B12		LTE B66		
	699	716	1710 1780		
LTE B13A-B66A		LTE B13	LTE B66		
		777 787	1710 1780		
LTE B14A-B30A		LTE B14			LTE B30
		788 798			2305 2315
LTE B14A-B66A		LTE B14	LTE B66		
		788 798	1710 1780		



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8.2.5 NR Band Test Configuration

- NR Band n2/n5/n7/n14/n25/n26/n30/n38/n41/n66/n70/n71/n77/n78 support SA mode and n2/n5/n66/n77 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2		LTE Band 5	LTE Band 13	LTE Band 48	LTE Band 66	
		Ant2	Ant5	Ant1	Ant1	Ant3	Ant2	Ant5
n2	Ant2			√	√			√
n5	Ant1	√				√	√	
n66	Ant2	√		√	√	√		
n77	Ant3	√					√	
	Ant7			√	√			



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2. The general information supported by the NR band is as following table:

Band		n2	n5	n7	n14	n25	n26	n30	n38	
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		NSA	Yes	Yes	No	No	No	No	No	
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	

Band		n41	n48	n66	n70	n71	n77	n78	
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes	
		NSA	No	No	Yes	No	No	Yes	No
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	



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Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n14	15 kHz	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n25	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n30	15 kHz	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n48	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n70	15 kHz	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n71	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is $> \text{not } \frac{1}{2} \text{ dB}$ higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is $\leq 1.45 \text{ W/kg}$; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8 \text{ W/kg}$. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $> 1.45 \text{ W/kg}$, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg , PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leq 1.45 \text{ W/kg}$, smaller bandwidth SAR testing is not required for this device



4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed regulatory limit.



9 Test Result

9.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8).

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band



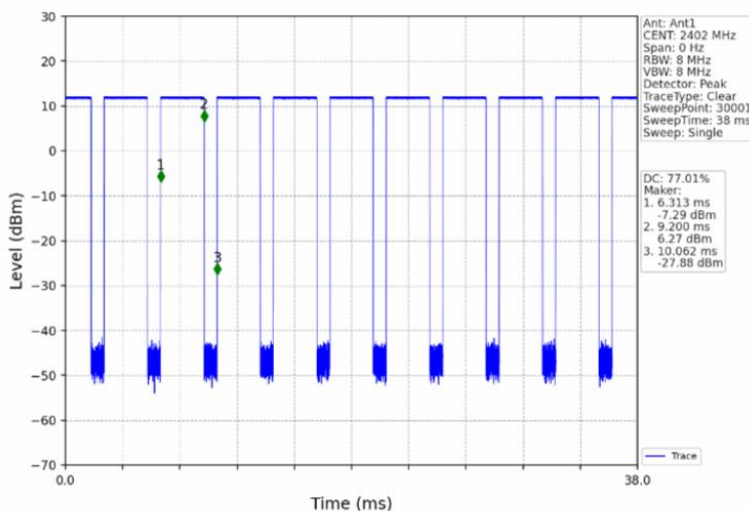
channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.

BT DH5 Duty Cycle=77.01%



9.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) 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. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

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9.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DS14											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.613	0.370	-0.01	27.75	29.00	1.334	0.817	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.545	0.308	0.13	27.75	29.00	1.334	0.727	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.885	0.515	-0.06	27.75	29.00	1.334	1.180	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.567	0.345	-0.10	27.75	29.00	1.334	0.756	22.4
Left cheek	GPRS 2TS	128/824.2	1:4.15	0.636	0.375	-0.14	27.95	29.00	1.274	0.810	22.4
Left cheek	GPRS 2TS	251/848.8	1:4.15	0.650	0.439	-0.01	27.88	29.00	1.294	0.841	22.4
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.627	0.371	-0.04	27.95	29.00	1.274	0.798	22.4
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.784	0.504	-0.03	27.88	29.00	1.294	1.015	22.4
Right cheek-repeat	GPRS 2TS	190/836.6	1:4.15	0.882	0.505	-0.06	27.75	29.00	1.334	1.177	22.4
Head Test Data DS15											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.613	0.370	-0.01	27.75	27.00	0.841	0.516	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.545	0.308	0.13	27.75	27.00	0.841	0.459	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.885	0.515	-0.06	27.75	27.00	0.841	0.745	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.567	0.345	-0.10	27.75	27.00	0.841	0.477	22.4
Left cheek	GPRS 2TS	128/824.2	1:4.15	0.636	0.375	-0.14	27.95	27.00	0.804	0.511	22.4
Left cheek	GPRS 2TS	251/848.8	1:4.15	0.650	0.439	-0.01	27.88	27.00	0.817	0.531	22.4
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.627	0.371	-0.04	27.95	27.00	0.804	0.504	22.4
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.784	0.504	-0.03	27.88	27.00	0.817	0.640	22.4
Body worn&Hotspot Test data(Separate 10mm) DS10											
Front side	GPRS 2TS	190/836.6	1:4.15	0.399	0.249	-0.09	29.36	31.00	1.459	0.582	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.392	0.239	0.01	29.36	31.00	1.459	0.572	22.2
Left side	GPRS 2TS	190/836.6	1:4.15	0.059	0.034	-0.01	29.36	31.00	1.459	0.086	22.2
Right side	GPRS 2TS	190/836.6	1:4.15	0.154	0.104	-0.05	29.36	31.00	1.459	0.225	22.2
Top side	GPRS 2TS	190/836.6	1:4.15	0.290	0.148	0.02	29.36	31.00	1.459	0.423	22.2

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	190/836.6	0.885	0.882	1.00

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GSM850 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.858	0.496	-0.16	27.75	29.00	1.334	1.144	22.3
Right cheek-repeated	GPRS 2TS	190/836.6	1:4.15	0.849	0.489	-0.05	27.75	29.00	1.334	1.132	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio
Right cheek	190/836.6	0.858	0.849	1.011

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9.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.368	0.242	0.19	21.34	22.00	1.164	0.428	22.4
Left tilted	GPRS 4TS	661/1880	1:2.075	0.405	0.240	0.05	21.34	22.00	1.164	0.471	22.4
Right cheek	GPRS 4TS	661/1880	1:2.075	0.699	0.401	0.07	21.34	22.00	1.164	0.814	22.4
Right tilted	GPRS 4TS	661/1880	1:2.075	0.460	0.270	0.09	21.34	22.00	1.164	0.535	22.4
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.763	0.408	-0.03	21.24	22.00	1.191	0.909	22.5
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.666	0.376	-0.11	21.22	22.00	1.197	0.797	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	GPRS 4TS	661/1880	1:2.075	0.493	0.301	-0.03	25.15	26.00	1.216	0.600	22.4
Back side	GPRS 4TS	661/1880	1:2.075	0.402	0.241	0.16	25.15	26.00	1.216	0.489	22.4
Left side	GPRS 4TS	661/1880	1:2.075	0.278	0.149	-0.07	25.15	26.00	1.216	0.338	22.4
Top side	GPRS 4TS	661/1880	1:2.075	0.603	0.347	-0.11	25.15	26.00	1.216	0.733	22.5

(for original report SZCR240300076714)

GSM1900 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Top side	GPRS 4TS	661/1880	1:2.075	0.576	0.347	-0.08	25.15	26.00	1.216	0.701	22.1

(for new report SZCR250500221411)



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9.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	9400/1880	1:1	0.365	0.240	0.17	17.09	18.00	1.233	0.450	22.4
Left tilted	RMC	9400/1880	1:1	0.358	0.214	-0.08	17.09	18.00	1.233	0.441	22.4
Right cheek	RMC	9400/1880	1:1	0.694	0.399	-0.05	17.09	18.00	1.233	0.856	22.4
Right tilted	RMC	9400/1880	1:1	0.461	0.271	-0.16	17.09	18.00	1.233	0.568	22.4
Right cheek	RMC	9262/1852.4	1:1	0.742	0.399	0.18	17.11	18.00	1.227	0.911	22.5
Right cheek	RMC	9538/1907.6	1:1	0.633	0.358	0.11	17.03	18.00	1.250	0.791	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	RMC	9400/1880	1:1	0.577	0.355	-0.05	22.62	23.50	1.225	0.707	22.1
Back side	RMC	9400/1880	1:1	0.533	0.325	-0.07	22.62	23.50	1.225	0.653	22.1
Left side	RMC	9400/1880	1:1	0.395	0.223	-0.08	22.62	23.50	1.225	0.484	22.1
Top side	RMC	9400/1880	1:1	0.658	0.369	-0.16	22.62	23.50	1.225	0.806	22.1
Top side	RMC	9262/1852.4	1:1	0.742	0.422	0.01	22.58	23.50	1.236	0.917	22.5
Top side	RMC	9538/1907.6	1:1	0.548	0.310	0.04	22.49	23.50	1.262	0.691	22.1

(for original report SZCR240300076714)

WB2 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Top side	RMC	9262/1852.4	1:1	0.590	0.339	-0.07	22.58	23.50	1.236	0.729	22.3

(for new report SZCR250500221411)



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9.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	1412/1732.4	1:1	0.404	0.266	-0.07	17.42	18.50	1.282	0.518	22.4
Left tilted	RMC	1412/1732.4	1:1	0.340	0.210	0.01	17.42	18.50	1.282	0.436	22.4
Right cheek	RMC	1412/1732.4	1:1	0.785	0.421	-0.13	17.42	18.50	1.282	1.007	22.4
Right tilted	RMC	1412/1732.4	1:1	0.459	0.270	-0.17	17.42	18.50	1.282	0.589	22.4
Right cheek	RMC	1312/1712.4	1:1	0.795	0.435	-0.01	17.36	18.50	1.300	1.034	22.5
Right cheek	RMC	1513/1752.6	1:1	0.795	0.431	0.07	17.47	18.50	1.268	1.008	22.4
Body worn&Hotspot Test data(Separate 10mm) Sensor on DSI1											
Front side	RMC	1412/1732.4	1:1	0.642	0.380	-0.05	22.97	24.00	1.268	0.814	22.1
Back side	RMC	1412/1732.4	1:1	0.643	0.369	0.17	22.97	24.00	1.268	0.815	22.1
Left side	RMC	1412/1732.4	1:1	0.435	0.236	-0.16	22.97	24.00	1.268	0.551	22.1
Top side	RMC	1412/1732.4	1:1	0.658	0.359	0.01	22.97	24.00	1.268	0.834	22.1
Front side	RMC	1312/1712.4	1:1	0.569	0.338	0.11	22.91	24.00	1.285	0.731	22.1
Front side	RMC	1513/1752.6	1:1	0.692	0.412	0.06	22.93	24.00	1.279	0.885	22.1
Back side	RMC	1312/1712.4	1:1	0.583	0.331	0.17	22.91	24.00	1.285	0.749	22.1
Back side	RMC	1513/1752.6	1:1	0.698	0.399	0.05	22.93	24.00	1.279	0.893	22.1
Top side	RMC	1312/1712.4	1:1	0.556	0.305	-0.09	22.91	24.00	1.285	0.715	22.1
Top side	RMC	1513/1752.6	1:1	0.536	0.368	0.17	23.51	24.50	1.256	0.673	22.5
Body worn&Hotspot Test data Sensor off DSI0											
Front side with 15mm	RMC	1412/1732.4	1:1	0.339	0.207	-0.14	23.43	24.50	1.279	0.434	22
Back side with 15mm	RMC	1412/1732.4	1:1	0.413	0.242	0.09	23.43	24.50	1.279	0.528	22
Left side with 19mm	RMC	1412/1732.4	1:1	0.142	0.086	-0.14	23.43	24.50	1.279	0.182	22
Top side with 10mm	RMC	1412/1732.4	1:1	0.698	0.405	0.04	23.43	24.50	1.279	0.893	22
Top side with 10mm	RMC	1312/1712.4	1:1	0.624	0.344	-0.12	23.29	24.50	1.321	0.824	22
Top side with 10mm	RMC	1513/1752.6	1:1	0.712	0.406	0.18	23.51	24.50	1.256	0.894	22.5
Body worn&Hotspot Test data(Separate 10mm) Sensor on DSI3											
Front side	RMC	1412/1732.4	1:1	0.642	0.380	-0.05	22.97	23.00	1.007	0.646	22.1
Back side	RMC	1412/1732.4	1:1	0.643	0.369	0.17	22.97	23.00	1.007	0.647	22.1
Left side	RMC	1412/1732.4	1:1	0.435	0.236	-0.16	22.97	23.00	1.007	0.438	22.1
Top side	RMC	1412/1732.4	1:1	0.658	0.359	0.01	22.97	23.00	1.007	0.663	22.1
Front side	RMC	1312/1712.4	1:1	0.569	0.338	0.11	22.91	23.00	1.021	0.581	22.1
Front side	RMC	1513/1752.6	1:1	0.692	0.412	0.06	22.93	23.00	1.016	0.703	22.1
Back side	RMC	1312/1712.4	1:1	0.583	0.331	0.17	22.91	23.00	1.021	0.595	22.1
Back side	RMC	1513/1752.6	1:1	0.698	0.399	0.05	22.93	23.00	1.016	0.709	22.1
Top side	RMC	1312/1712.4	1:1	0.556	0.305	-0.09	22.91	23.00	1.021	0.568	22.1
Top side	RMC	1513/1752.6	1:1	0.536	0.368	0.17	23.51	23.00	0.889	0.477	22.5
Body worn&Hotspot Test data Sensor off DSI2											



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Front side with 15mm	RMC	1412/1732.4	1:1	0.339	0.207	-0.14	23.43	23.50	1.016	0.345	22
Back side with 15mm	RMC	1412/1732.4	1:1	0.413	0.242	0.09	23.43	23.50	1.016	0.420	22
Left side with 19mm	RMC	1412/1732.4	1:1	0.142	0.086	-0.14	23.43	23.50	1.016	0.144	22
Top side with 10mm	RMC	1412/1732.4	1:1	0.698	0.405	0.04	23.43	23.50	1.016	0.709	22
Top side with 10mm	RMC	1312/1712.4	1:1	0.624	0.344	-0.12	23.29	23.50	1.050	0.655	22
Top side with 10mm	RMC	1513/1752.6	1:1	0.712	0.406	0.18	23.51	23.50	0.998	0.710	22.5

(for original report SZCR240300076714)

WB4 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Right cheek	RMC	1312/1712.4	1:1	0.748	0.431	0.05	17.36	18.50	1.300	0.973	22.3

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9.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	4182/836.4	1:1	0.436	0.255	0.04	20.93	21.00	1.016	0.443	22.4
Left tilted	RMC	4182/836.4	1:1	0.425	0.240	-0.06	20.93	21.00	1.016	0.432	22.4
Right cheek	RMC	4182/836.4	1:1	0.576	0.366	0.11	20.93	21.00	1.016	0.585	22.4
Right tilted	RMC	4182/836.4	1:1	0.419	0.254	-0.19	20.93	21.00	1.016	0.426	22.4
Right cheek	RMC	4132/826.4	1:1	0.557	0.353	-0.14	20.98	21.00	1.005	0.560	22.4
Right cheek	RMC	4233/846.6	1:1	0.624	0.370	-0.16	20.91	21.00	1.021	0.637	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	RMC	4182/836.4	1:1	0.638	0.395	0.03	24.65	25.00	1.084	0.692	22
Back side	RMC	4182/836.4	1:1	0.605	0.368	0.12	24.65	25.00	1.084	0.656	22
Left side	RMC	4182/836.4	1:1	0.101	0.058	-0.13	24.65	25.00	1.084	0.109	22
Right side	RMC	4182/836.4	1:1	0.187	0.122	-0.12	24.65	25.00	1.084	0.203	22
Top side	RMC	4182/836.4	1:1	0.403	0.210	0.13	24.65	25.00	1.084	0.437	22

(for original report SZCR240300076714)



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9.2.6 SAR Result of LTE Band 2

Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI0												
Front side	20	QPSK 1_0	18900/1880	1:1	0.535	0.321	-0.19	23.35	25.00	1.462	0.782	22.4
Back side	20	QPSK 1_0	18900/1880	1:1	0.658	0.405	0.08	23.35	25.00	1.462	0.962	22.4
Left side	20	QPSK 1_0	18900/1880	1:1	0.754	0.419	0.05	23.35	25.00	1.462	1.102	22.4
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.211	0.118	0.04	23.35	25.00	1.462	0.309	22.4
Back side	20	QPSK 1_99	18700/1860	1:1	0.625	0.305	0.04	23.29	25.00	1.483	0.927	22.4
Back side	20	QPSK 1_50	19100/1900	1:1	0.630	0.315	-0.15	23.35	25.00	1.462	0.921	22.4
Left side	20	QPSK 1_99	18700/1860	1:1	0.723	0.412	0.10	23.29	25.00	1.483	1.072	22.4
Left side	20	QPSK 1_50	19100/1900	1:1	0.735	0.411	0.04	23.35	25.00	1.462	1.075	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI0												
Front side	20	QPSK 50_25	19100/1900	1:1	0.462	0.280	0.11	22.59	24.00	1.384	0.639	22.4
Back side	20	QPSK 50_25	19100/1900	1:1	0.666	0.387	-0.16	22.59	24.00	1.384	0.921	22.4
Left side	20	QPSK 50_25	19100/1900	1:1	0.735	0.424	0.03	22.59	24.00	1.384	1.017	22.4
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.185	0.104	-0.12	22.59	24.00	1.384	0.256	22.4
Back side	20	QPSK 50_25	18700/1860	1:1	0.595	0.595	0.15	22.42	24.00	1.439	0.856	22.4
Back side	20	QPSK 50_50	19100/1900	1:1	0.600	0.595	-0.03	22.59	24.00	1.384	0.830	22.4
Left side	20	QPSK 50_25	18700/1860	1:1	0.689	0.595	-0.15	22.42	24.00	1.439	0.991	22.4
Left side	20	QPSK 50_50	19100/1900	1:1	0.700	0.595	0.07	22.59	24.00	1.384	0.968	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI0												
Left side	20	QPSK 100_0	19100/1900	1:1	0.721	0.425	0.05	22.58	24.00	1.387	1.000	22.4

(for original report SZCR240300076714)

LTE Band 2 SAR Test Record												
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI0												
Left side	20	QPSK 1_0	18900/1880	1:1	0.620	0.378	0.04	23.35	25.00	1.462	0.907	22.3

(for new report SZCR250500221411)



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9.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.197	0.100	-0.14	18.64	19.00	1.086	0.214	22.4
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.117	0.062	0.16	18.64	19.00	1.086	0.127	22.4
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.847	0.359	-0.18	18.64	19.00	1.086	0.920	22.4
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.436	0.206	-0.17	18.64	19.00	1.086	0.474	22.4
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.759	0.325	0.03	18.56	19.00	1.107	0.840	22.4
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.913	0.352	0.10	18.61	19.00	1.094	0.999	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.228	0.111	-0.16	18.72	19.00	1.067	0.243	22.4
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.143	0.074	0.08	18.72	19.00	1.067	0.153	22.4
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.940	0.370	-0.03	18.72	19.00	1.067	1.003	22.4
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.437	0.205	0.11	18.72	19.00	1.067	0.466	22.4
Right cheek	20	QPSK 50_25	20850/2510	1:1	0.715	0.310	-0.07	18.52	19.00	1.117	0.799	22.4
Right cheek	20	QPSK 50_50	21100/2535	1:1	0.888	0.375	0.00	18.53	19.00	1.114	0.989	22.4
Right cheek-repeat	20	QPSK 50_50	21350/2560	1:1	0.935	0.369	-0.08	18.72	19.00	1.067	0.997	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	21350/2560	1:1	0.920	0.384	0.14	18.68	19.00	1.076	0.990	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_50	21350/2560	1:1	0.428	0.198	-0.17	21.51	22.00	1.119	0.479	22.3
Back side	20	QPSK 1_50	21350/2560	1:1	0.352	0.168	0.04	21.51	22.00	1.119	0.394	22.3
Left side	20	QPSK 1_50	21350/2560	1:1	0.686	0.303	0.07	21.51	22.00	1.119	0.768	22.3
Top side	20	QPSK 1_50	21350/2560	1:1	0.075	0.038	0.16	21.51	22.00	1.119	0.084	22.3
Left side	20	QPSK 1_0	20850/2510	1:1	0.523	0.248	-0.14	21.46	22.00	1.132	0.592	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	0.529	0.225	0.04	21.44	22.00	1.138	0.602	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_25	21350/2560	1:1	0.415	0.189	-0.11	21.72	22.00	1.067	0.443	22.3
Back side	20	QPSK 50_25	21350/2560	1:1	0.375	0.173	-0.06	21.72	22.00	1.067	0.400	22.3
Left side	20	QPSK 50_25	21350/2560	1:1	0.688	0.296	0.15	21.72	22.00	1.067	0.734	22.3
Top side	20	QPSK 50_25	21350/2560	1:1	0.073	0.036	0.10	21.72	22.00	1.067	0.078	22.3
Left side	20	QPSK 50_50	20850/2510	1:1	0.435	0.188	0.05	21.55	22.00	1.109	0.482	22.3
Left side	20	QPSK 50_25	21100/2535	1:1	0.544	0.236	-0.06	21.52	22.00	1.117	0.608	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	21350/2560	1:1	0.687	0.297	-0.16	21.63	22.00	1.089	0.748	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 1_50	20850/2510	1:1	0.216	0.110	-0.08	23.60	24.50	1.230	0.266	22
Back side with 15mm	20	QPSK 1_50	20850/2510	1:1	0.258	0.130	0.04	23.60	24.50	1.230	0.317	22
Left side with 19mm	20	QPSK 1_50	20850/2510	1:1	0.238	0.124	0.13	23.60	24.50	1.230	0.293	22



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Top side with 10mm	20	QPSK 1_50	20850/2510	1:1	0.121	0.063	-0.16	23.60	24.50	1.230	0.149	22
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 50_25	21350/2560	1:1	0.150	0.077	0.11	22.33	23.50	1.309	0.196	22
Back side with 15mm	20	QPSK 50_25	21350/2560	1:1	0.193	0.100	0.01	22.33	23.50	1.309	0.253	22
Left side with 19mm	20	QPSK 50_25	21350/2560	1:1	0.346	0.179	-0.15	22.33	23.50	1.309	0.453	22
Top side with 10mm	20	QPSK 50_25	21350/2560	1:1	0.104	0.055	0.08	22.33	23.50	1.309	0.136	22
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_50	21350/2560	1:1	5.172	1.789	0.19	21.51	22.00	1.119	2.003	22.3
Left side	20	QPSK 1_0	20850/2510	1:1	3.996	1.384	-0.06	21.46	22.00	1.132	1.567	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	4.869	1.669	0.17	21.44	22.00	1.138	1.899	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	21350/2560	1:1	5.328	1.816	0.16	21.72	22.00	1.067	1.937	22.3
Left side	20	QPSK 50_50	20850/2510	1:1	4.515	1.548	0.18	21.55	22.00	1.109	1.717	22.3
Left side	20	QPSK 50_25	21100/2535	1:1	4.999	1.704	0.07	21.52	22.00	1.117	1.903	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	21350/2560	1:1	5.770	1.880	0.08	21.63	22.00	1.089	2.047	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_50	20850/2510	1:1	0.238	0.124	0.02	23.60	24.50	1.230	0.153	22
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_25	21350/2560	1:1	0.346	0.179	0.01	22.33	23.50	1.309	0.234	22
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_99	21350/2560	1:1	0.172	0.086	-0.13	24.51	25.00	1.119	0.193	22.3
Left tilted	20	QPSK 1_99	21350/2560	1:1	0.046	0.025	0.10	24.51	25.00	1.119	0.051	22.3
Right cheek	20	QPSK 1_99	21350/2560	1:1	0.079	0.044	0.11	24.51	25.00	1.119	0.088	22.3
Right tilted	20	QPSK 1_99	21350/2560	1:1	0.070	0.034	0.11	24.51	25.00	1.119	0.078	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.128	0.064	-0.04	23.74	24.00	1.062	0.136	22.3
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.036	0.013	-0.08	23.74	24.00	1.062	0.038	22.3
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.059	0.033	0.05	23.74	24.00	1.062	0.063	22.3
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.054	0.026	-0.11	23.74	24.00	1.062	0.057	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_99	21350/2560	1:1	0.160	0.084	0.17	24.51	25.00	1.119	0.179	22.4
Back side	20	QPSK 1_99	21350/2560	1:1	0.340	0.161	0.11	24.51	25.00	1.119	0.381	22.4
Left side	20	QPSK 1_99	21350/2560	1:1	0.354	0.170	-0.07	24.51	25.00	1.119	0.396	22.4
Bottom side	20	QPSK 1_99	21350/2560	1:1	0.156	0.077	-0.14	24.51	25.00	1.119	0.175	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_50	21350/2560	1:1	0.128	0.067	-0.08	23.74	24.00	1.062	0.136	22.4



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Back side	20	QPSK 50_50	21350/2560	1:1	0.259	0.119	-0.03	23.74	24.00	1.062	0.275	22.4
Left side	20	QPSK 50_50	21350/2560	1:1	0.278	0.132	-0.04	23.74	24.00	1.062	0.295	22.4
Bottom side	20	QPSK 50_50	21350/2560	1:1	0.100	0.051	-0.02	23.74	24.00	1.062	0.106	22.4

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	21350/2560	0.940	0.935	1.01

(for original report SZCR240300076714)

LTE Band 7 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DS11												
Left side	20	QPSK 100_0	21350/2560	1:1	5.330	1.800	-0.13	21.63	22.00	1.089	1.960	22.3

(for new report SZCR250500221411)



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9.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DS14												
Left cheek	10	QPSK 1_25	23130/711	1:1	0.603	0.339	-0.02	23.59	24.00	1.099	0.663	22.4
Left tilted	10	QPSK 1_25	23130/711	1:1	0.506	0.266	-0.10	23.59	24.00	1.099	0.556	22.4
Right cheek	10	QPSK 1_25	23130/711	1:1	0.453	0.297	-0.19	23.59	24.00	1.099	0.498	22.4
Right tilted	10	QPSK 1_25	23130/711	1:1	0.342	0.209	-0.04	23.59	24.00	1.099	0.376	22.4
Left cheek	10	QPSK 1_25	23060/704	1:1	0.595	0.336	-0.01	23.51	24.00	1.119	0.666	22.4
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.589	0.321	-0.13	23.55	24.00	1.109	0.653	22.4
Head Test Data (50%RB) DS14												
Left cheek	10	QPSK 25_25	23060/704	1:1	0.615	0.346	-0.04	23.76	24.00	1.057	0.650	22.4
Left tilted	10	QPSK 25_25	23060/704	1:1	0.526	0.278	-0.05	23.76	24.00	1.057	0.556	22.4
Right cheek	10	QPSK 25_25	23060/704	1:1	0.467	0.307	0.03	23.76	24.00	1.057	0.494	22.4
Right tilted	10	QPSK 25_25	23060/704	1:1	0.359	0.221	-0.17	23.76	24.00	1.057	0.379	22.4
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.605	0.341	-0.09	23.70	24.00	1.072	0.648	22.4
Left cheek	10	QPSK 25_13	23130/711	1:1	0.607	0.342	0.09	23.67	24.00	1.079	0.655	22.4
Head Test Data (1RB) DS15												
Left cheek	10	QPSK 1_25	23130/711	1:1	0.603	0.339	-0.02	23.59	23.50	0.979	0.591	22.4
Left tilted	10	QPSK 1_25	23130/711	1:1	0.506	0.266	-0.10	23.59	23.50	0.979	0.496	22.4
Right cheek	10	QPSK 1_25	23130/711	1:1	0.453	0.297	-0.19	23.59	23.50	0.979	0.444	22.4
Right tilted	10	QPSK 1_25	23130/711	1:1	0.342	0.209	-0.04	23.59	23.50	0.979	0.335	22.4
Left cheek	10	QPSK 1_25	23060/704	1:1	0.595	0.336	-0.01	23.51	23.50	0.998	0.594	22.4
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.589	0.321	-0.13	23.55	23.50	0.989	0.582	22.4
Head Test Data (50%RB) DS15												
Left cheek	10	QPSK 25_25	23060/704	1:1	0.615	0.346	-0.04	23.76	23.50	0.942	0.579	22.4
Left tilted	10	QPSK 25_25	23060/704	1:1	0.526	0.278	-0.05	23.76	23.50	0.942	0.495	22.4
Right cheek	10	QPSK 25_25	23060/704	1:1	0.467	0.307	0.03	23.76	23.50	0.942	0.440	22.4
Right tilted	10	QPSK 25_25	23060/704	1:1	0.359	0.221	-0.17	23.76	23.50	0.942	0.338	22.4
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.605	0.341	-0.09	23.70	23.50	0.955	0.578	22.4
Left cheek	10	QPSK 25_13	23130/711	1:1	0.607	0.342	0.09	23.67	23.50	0.962	0.584	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DS10												
Front side	10	QPSK 1_25	23060/704	1:1	0.236	0.162	0.02	24.55	25.00	1.109	0.262	22
Back side	10	QPSK 1_25	23060/704	1:1	0.262	0.193	0.01	24.55	25.00	1.109	0.291	22
Left side	10	QPSK 1_25	23060/704	1:1	0.075	0.051	-0.19	24.55	25.00	1.109	0.083	22
Right side	10	QPSK 1_25	23060/704	1:1	0.175	0.117	-0.09	24.55	25.00	1.109	0.194	22
Top side	10	QPSK 1_25	23060/704	1:1	0.170	0.084	-0.19	24.55	25.00	1.109	0.189	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DS10												
Front side	10	QPSK 25_13	23060/704	1:1	0.223	0.152	-0.19	23.50	24.00	1.122	0.250	22
Back side	10	QPSK 25_13	23060/704	1:1	0.240	0.165	-0.13	23.50	24.00	1.122	0.269	22



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Left side	10	QPSK 25_13	23060/704	1:1	0.075	0.051	0.09	23.50	24.00	1.122	0.084	22
Right side	10	QPSK 25_13	23060/704	1:1	0.165	0.110	0.16	23.50	24.00	1.122	0.185	22
Top side	10	QPSK 25_13	23060/704	1:1	0.162	0.080	-0.19	23.50	24.00	1.122	0.182	22

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9.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DS14												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.626	0.361	0.16	22.03	22.50	1.114	0.698	22.4
Left tilted	10	QPSK 1_0	23230/782	1:1	0.590	0.326	-0.19	22.03	22.50	1.114	0.657	22.4
Right cheek	10	QPSK 1_0	23230/782	1:1	0.604	0.390	-0.13	22.03	22.50	1.114	0.673	22.4
Right tilted	10	QPSK 1_0	23230/782	1:1	0.378	0.224	0.19	22.03	22.50	1.114	0.421	22.4
Head Test Data (50%RB) DS14												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.624	0.355	-0.08	21.95	22.50	1.135	0.708	22.4
Left tilted	10	QPSK 25_0	23230/782	1:1	0.604	0.331	0.01	21.95	22.50	1.135	0.686	22.4
Right cheek	10	QPSK 25_0	23230/782	1:1	0.611	0.395	-0.16	21.95	22.50	1.135	0.693	22.4
Right tilted	10	QPSK 25_0	23230/782	1:1	0.390	0.233	-0.04	21.95	22.50	1.135	0.443	22.4
Head Test Data (1RB) DS15												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.626	0.361	0.16	22.03	22.00	0.993	0.622	22.4
Left tilted	10	QPSK 1_0	23230/782	1:1	0.590	0.326	-0.19	22.03	22.00	0.993	0.586	22.4
Right cheek	10	QPSK 1_0	23230/782	1:1	0.604	0.390	-0.13	22.03	22.00	0.993	0.600	22.4
Right tilted	10	QPSK 1_0	23230/782	1:1	0.378	0.224	0.19	22.03	22.00	0.993	0.375	22.4
Head Test Data (50%RB) DS15												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.624	0.355	-0.08	21.95	22.00	1.012	0.631	22.4
Left tilted	10	QPSK 25_0	23230/782	1:1	0.604	0.331	0.01	21.95	22.00	1.012	0.611	22.4
Right cheek	10	QPSK 25_0	23230/782	1:1	0.611	0.395	-0.16	21.95	22.00	1.012	0.618	22.4
Right tilted	10	QPSK 25_0	23230/782	1:1	0.390	0.233	-0.04	21.95	22.00	1.012	0.395	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DS10												
Front side	10	QPSK 1_49	23230/782	1:1	0.421	0.265	-0.01	24.30	25.00	1.175	0.495	22
Back side	10	QPSK 1_49	23230/782	1:1	0.429	0.305	-0.04	24.30	25.00	1.175	0.504	22
Left side	10	QPSK 1_49	23230/782	1:1	0.085	0.057	0.15	24.30	25.00	1.175	0.100	22
Right side	10	QPSK 1_49	23230/782	1:1	0.245	0.160	-0.02	24.30	25.00	1.175	0.288	22
Top side	10	QPSK 1_49	23230/782	1:1	0.299	0.152	-0.15	24.30	25.00	1.175	0.351	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DS10												
Front side	10	QPSK 25_0	23230/782	1:1	0.363	0.230	-0.06	23.19	24.00	1.205	0.437	22
Back side	10	QPSK 25_0	23230/782	1:1	0.363	0.220	-0.03	23.19	24.00	1.205	0.437	22
Left side	10	QPSK 25_0	23230/782	1:1	0.078	0.052	0.00	23.19	24.00	1.205	0.094	22
Right side	10	QPSK 25_0	23230/782	1:1	0.205	0.138	0.16	23.19	24.00	1.205	0.247	22
Top side	10	QPSK 25_0	23230/782	1:1	0.250	0.134	-0.07	23.19	24.00	1.205	0.301	22

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9.2.10 SAR Result of LTE Band 14

LTE Band 14 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DS14												
Left cheek	10	QPSK 1_0	23330/793	1:1	0.622	0.341	-0.12	21.92	22.50	1.143	0.711	22.4
Left tilted	10	QPSK 1_0	23330/793	1:1	0.530	0.292	-0.10	21.92	22.50	1.143	0.606	22.4
Right cheek	10	QPSK 1_0	23330/793	1:1	0.552	0.356	0.06	21.92	22.50	1.143	0.631	22.4
Right tilted	10	QPSK 1_0	23330/793	1:1	0.360	0.213	-0.19	21.92	22.50	1.143	0.411	22.4
Head Test Data (50%RB) DS14												
Left cheek	10	QPSK 25_0	23330/793	1:1	0.604	0.351	-0.07	21.92	22.50	1.143	0.690	22.4
Left tilted	10	QPSK 25_0	23330/793	1:1	0.523	0.288	0.18	21.92	22.50	1.143	0.598	22.4
Right cheek	10	QPSK 25_0	23330/793	1:1	0.550	0.354	-0.11	21.92	22.50	1.143	0.629	22.4
Right tilted	10	QPSK 25_0	23330/793	1:1	0.366	0.215	0.18	21.92	22.50	1.143	0.418	22.4
Head Test Data (1RB) DS14												
Left cheek	10	QPSK 1_0	23330/793	1:1	0.622	0.341	-0.12	21.92	21.50	0.908	0.565	22.4
Left tilted	10	QPSK 1_0	23330/793	1:1	0.530	0.292	-0.10	21.92	21.50	0.908	0.481	22.4
Right cheek	10	QPSK 1_0	23330/793	1:1	0.552	0.356	0.06	21.92	21.50	0.908	0.501	22.4
Right tilted	10	QPSK 1_0	23330/793	1:1	0.360	0.213	-0.19	21.92	21.50	0.908	0.327	22.4
Head Test Data (50%RB) DS14												
Left cheek	10	QPSK 25_0	23330/793	1:1	0.604	0.351	-0.07	21.92	21.50	0.908	0.548	22.4
Left tilted	10	QPSK 25_0	23330/793	1:1	0.523	0.288	0.18	21.92	21.50	0.908	0.475	22.4
Right cheek	10	QPSK 25_0	23330/793	1:1	0.550	0.354	-0.11	21.92	21.50	0.908	0.499	22.4
Right tilted	10	QPSK 25_0	23330/793	1:1	0.366	0.215	0.18	21.92	21.50	0.908	0.332	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DS10												
Front side	10	QPSK 1_0	23330/793	1:1	0.437	0.309	0.07	24.15	25.00	1.216	0.531	22
Back side	10	QPSK 1_0	23330/793	1:1	0.429	0.260	-0.05	24.15	25.00	1.216	0.522	22
Left side	10	QPSK 1_0	23330/793	1:1	0.089	0.058	0.00	24.15	25.00	1.216	0.108	22
Right side	10	QPSK 1_0	23330/793	1:1	0.249	0.167	-0.12	24.15	25.00	1.216	0.303	22
Top side	10	QPSK 1_0	23330/793	1:1	0.353	0.175	-0.03	24.15	25.00	1.216	0.429	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DS10												
Front side	10	QPSK 25_13	23330/793	1:1	0.367	0.231	-0.16	23.00	24.00	1.259	0.462	22
Back side	10	QPSK 25_13	23330/793	1:1	0.367	0.220	0.02	23.00	24.00	1.259	0.462	22
Left side	10	QPSK 25_13	23330/793	1:1	0.073	0.048	0.13	23.00	24.00	1.259	0.092	22
Right side	10	QPSK 25_13	23330/793	1:1	0.188	0.126	-0.19	23.00	24.00	1.259	0.237	22
Top side	10	QPSK 25_13	23330/793	1:1	0.281	0.140	-0.11	23.00	24.00	1.259	0.354	22

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9.2.11 SAR Result of LTE Band 25

LTE Band 25 SAR Test Record												
Ant 2 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	26365/1882.5	1:1	0.375	0.246	0.19	17.84	18.50	1.164	0.437	22.4
Left tilted	20	QPSK 1_50	26365/1882.5	1:1	0.399	0.240	0.10	17.84	18.50	1.164	0.464	22.4
Right cheek	20	QPSK 1_50	26365/1882.5	1:1	0.715	0.408	-0.13	17.84	18.50	1.164	0.832	22.4
Right tilted	20	QPSK 1_50	26365/1882.5	1:1	0.475	0.276	0.11	17.84	18.50	1.164	0.553	22.4
Right cheek	20	QPSK 1_50	26140/1860	1:1	0.801	0.431	0.03	17.71	18.50	1.199	0.961	22.5
Right cheek	20	QPSK 1_99	26590/1905	1:1	0.639	0.363	-0.01	17.82	18.50	1.169	0.747	22.4
Right cheek-repeat	20	QPSK 1_50	26140/1860	1:1	0.800	0.431	0.05	17.71	18.50	1.199	0.960	22.5
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	26140/1860	1:1	0.393	0.258	-0.07	17.86	18.50	1.159	0.455	22.4
Left tilted	20	QPSK 50_25	26140/1860	1:1	0.425	0.256	0.08	17.86	18.50	1.159	0.492	22.4
Right cheek	20	QPSK 50_25	26140/1860	1:1	0.760	0.439	-0.11	17.86	18.50	1.159	0.881	22.4
Right tilted	20	QPSK 50_25	26140/1860	1:1	0.514	0.295	0.10	17.86	18.50	1.159	0.596	22.4
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.736	0.424	-0.10	17.67	18.50	1.211	0.891	22.4
Right cheek	20	QPSK 50_0	26590/1905	1:1	0.685	0.392	0.04	17.60	18.50	1.230	0.843	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	26140/1860	1:1	0.754	0.436	0.12	17.85	18.50	1.161	0.876	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_50	26365/1882.5	1:1	0.524	0.324	0.02	22.81	23.50	1.172	0.614	22.3
Back side	20	QPSK 1_50	26365/1882.5	1:1	0.452	0.282	0.00	22.81	23.50	1.172	0.530	22.3
Left side	20	QPSK 1_50	26365/1882.5	1:1	0.254	0.141	-0.09	22.81	23.50	1.172	0.298	22.3
Top side	20	QPSK 1_50	26365/1882.5	1:1	0.630	0.359	-0.14	22.81	23.50	1.172	0.738	22.3
Top side	20	QPSK 1_99	26140/1860	1:1	0.687	0.385	0.11	22.69	23.50	1.205	0.828	22.3
Top side	20	QPSK 1_50	26590/1905	1:1	0.468	0.266	-0.01	22.79	23.50	1.178	0.551	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_25	26140/1860	1:1	0.606	0.377	0.15	22.78	23.50	1.180	0.715	22.3
Back side	20	QPSK 50_25	26140/1860	1:1	0.490	0.312	-0.05	22.78	23.50	1.180	0.578	22.3
Left side	20	QPSK 50_25	26140/1860	1:1	0.302	0.170	-0.18	22.78	23.50	1.180	0.356	22.3
Top side	20	QPSK 50_25	26140/1860	1:1	0.776	0.442	-0.18	22.78	23.50	1.180	0.916	22.5
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.674	0.382	0.00	22.66	23.50	1.213	0.818	22.3
Top side	20	QPSK 50_50	26590/1905	1:1	0.473	0.268	-0.12	22.56	23.50	1.242	0.587	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Top side	20	QPSK 100_0	26140/1860	1:1	0.733	0.415	-0.14	22.85	23.50	1.161	0.851	22.3



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Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_0	26590/1905	1:1	0.406	0.250	0.17	23.35	25.00	1.462	0.594	22.3
Left tilted	20	QPSK 1_0	26590/1905	1:1	0.137	0.089	-0.14	23.35	25.00	1.462	0.200	22.3
Right cheek	20	QPSK 1_0	26590/1905	1:1	0.279	0.167	-0.02	23.35	25.00	1.462	0.408	22.3
Right tilted	20	QPSK 1_0	26590/1905	1:1	0.181	0.111	-0.12	23.35	25.00	1.462	0.265	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	26590/1905	1:1	0.332	0.206	-0.02	22.50	24.00	1.413	0.469	22.3
Left tilted	20	QPSK 50_25	26590/1905	1:1	0.107	0.070	-0.08	22.50	24.00	1.413	0.151	22.3
Right cheek	20	QPSK 50_25	26590/1905	1:1	0.243	0.146	-0.15	22.50	24.00	1.413	0.343	22.3
Right tilted	20	QPSK 50_25	26590/1905	1:1	0.135	0.084	0.07	22.50	24.00	1.413	0.191	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_0	26590/1905	1:1	0.441	0.266	0.00	22.79	24.00	1.321	0.583	22.4
Back side	20	QPSK 1_0	26590/1905	1:1	0.650	0.374	-0.19	22.79	24.00	1.321	0.859	22.4
Left side	20	QPSK 1_0	26590/1905	1:1	0.688	0.381	-0.13	22.79	24.00	1.321	0.909	22.4
Bottom side	20	QPSK 1_0	26590/1905	1:1	0.177	0.100	0.19	22.79	24.00	1.321	0.234	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_25	26590/1905	1:1	0.486	0.286	0.02	22.92	24.00	1.282	0.623	22.4
Back side	20	QPSK 50_25	26590/1905	1:1	0.654	0.374	0.16	22.92	24.00	1.282	0.839	22.4
Left side	20	QPSK 50_25	26590/1905	1:1	0.682	0.385	-0.19	22.92	24.00	1.282	0.875	22.4
Bottom side	20	QPSK 50_25	26590/1905	1:1	0.174	0.098	0.06	22.92	24.00	1.282	0.223	22.4
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 23mm	20	QPSK 1_0	26590/1905	1:1	0.181	0.114	0.05	23.35	25.00	1.462	0.265	22.4
Back side with 23mm	20	QPSK 1_0	26590/1905	1:1	0.250	0.153	0.12	23.35	25.00	1.462	0.366	22.4
Left side with 19mm	20	QPSK 1_0	26590/1905	1:1	0.337	0.201	0.05	23.35	25.00	1.462	0.493	22.4
Bottom side with 18mm	20	QPSK 1_0	26590/1905	1:1	0.050	0.021	-0.03	23.35	25.00	1.462	0.073	22.4
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 23mm	20	QPSK 50_25	26590/1905	1:1	0.127	0.081	0.03	22.50	24.00	1.413	0.179	22.4
Back side with 23mm	20	QPSK 50_25	26590/1905	1:1	0.201	0.124	-0.13	22.50	24.00	1.413	0.284	22.4
Left side with 19mm	20	QPSK 50_25	26590/1905	1:1	0.252	0.150	-0.05	22.50	24.00	1.413	0.356	22.4
Bottom side with 18mm	20	QPSK 50_25	26590/1905	1:1	0.051	0.021	-0.02	22.50	24.00	1.413	0.072	22.4
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_0	26590/1905	1:1	3.067	1.304	-0.11	22.79	24.00	1.321	1.723	22.4
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	26590/1905	1:1	3.120	1.380	-0.04	22.92	24.00	1.282	1.770	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_0	26590/1905	1:1	0.337	0.201	0.17	23.35	25.00	1.462	0.294	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_25	26590/1905	1:1	0.321	0.021	-0.18	22.50	24.00	1.413	0.030	22.3



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	26140/1860	0.801	0.800	1.00

(for original report SZCR240300076714)



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9.2.12 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.476	0.276	-0.19	20.42	21.00	1.143	0.544	22.4
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.433	0.238	0.13	20.42	21.00	1.143	0.495	22.4
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.602	0.345	0.00	20.42	21.00	1.143	0.688	22.4
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.345	0.209	-0.12	20.42	21.00	1.143	0.394	22.4
Head Test Data (50%RB) DSI4												
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.486	0.285	0.10	20.42	21.00	1.143	0.555	22.4
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.433	0.240	0.16	20.42	21.00	1.143	0.495	22.4
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.624	0.355	0.05	20.42	21.00	1.143	0.713	22.4
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.375	0.223	-0.06	20.42	21.00	1.143	0.429	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	15	QPSK 1_74	26865/831.5	1:1	0.566	0.359	-0.17	24.26	25.00	1.186	0.671	22
Back side	15	QPSK 1_74	26865/831.5	1:1	0.533	0.348	-0.03	24.26	25.00	1.186	0.632	22
Left side	15	QPSK 1_74	26865/831.5	1:1	0.104	0.061	-0.16	24.26	25.00	1.186	0.123	22
Right side	15	QPSK 1_74	26865/831.5	1:1	0.151	0.102	-0.13	24.26	25.00	1.186	0.179	22
Top side	15	QPSK 1_74	26865/831.5	1:1	0.383	0.197	-0.01	24.26	25.00	1.186	0.454	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	15	QPSK 36_18	26765/821.5	1:1	0.413	0.255	-0.17	23.22	24.00	1.197	0.494	22
Back side	15	QPSK 36_18	26765/821.5	1:1	0.385	0.236	-0.02	23.22	24.00	1.197	0.461	22
Left side	15	QPSK 36_18	26765/821.5	1:1	0.058	0.035	-0.17	23.22	24.00	1.197	0.069	22
Right side	15	QPSK 36_18	26765/821.5	1:1	0.120	0.080	-0.02	23.22	24.00	1.197	0.144	22
Top side	15	QPSK 36_18	26765/821.5	1:1	0.291	0.152	-0.17	23.22	24.00	1.197	0.348	22

(for original report SZCR240300076714)

9.2.13 SAR Result of LTE Band 30

LTE Band 30 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_49	27710/2310	1:1	0.199	0.118	-0.12	20.29	21.00	1.178	0.234	22.4
Left tilted	10	QPSK 1_49	27710/2310	1:1	0.208	0.114	-0.09	20.29	21.00	1.178	0.245	22.4
Right cheek	10	QPSK 1_49	27710/2310	1:1	0.625	0.298	-0.08	20.29	21.00	1.178	0.736	22.4
Right tilted	10	QPSK 1_49	27710/2310	1:1	0.496	0.257	-0.17	20.29	21.00	1.178	0.584	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_25	27710/2310	1:1	0.202	0.119	0.11	20.17	21.00	1.211	0.245	22.4
Left tilted	10	QPSK 25_25	27710/2310	1:1	0.215	0.119	0.15	20.17	21.00	1.211	0.260	22.4
Right cheek	10	QPSK 25_25	27710/2310	1:1	0.634	0.298	-0.07	20.17	21.00	1.211	0.768	22.4
Right tilted	10	QPSK 25_25	27710/2310	1:1	0.493	0.254	0.09	20.17	21.00	1.211	0.597	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_25	27710/2310	1:1	0.311	0.161	-0.11	23.16	24.50	1.361	0.423	22
Back side	10	QPSK 1_25	27710/2310	1:1	0.350	0.175	0.19	23.16	24.50	1.361	0.477	22
Left side	10	QPSK 1_25	27710/2310	1:1	0.404	0.185	-0.18	23.16	24.50	1.361	0.550	22
Top side	10	QPSK 1_25	27710/2310	1:1	0.184	0.094	0.05	23.16	24.50	1.361	0.251	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_25	27710/2310	1:1	0.233	0.123	0.03	22.35	23.50	1.303	0.304	22
Back side	10	QPSK 25_25	27710/2310	1:1	0.293	0.140	-0.01	22.35	23.50	1.303	0.382	22
Left side	10	QPSK 25_25	27710/2310	1:1	0.304	0.136	-0.01	22.35	23.50	1.303	0.396	22
Top side	10	QPSK 25_25	27710/2310	1:1	0.171	0.087	-0.17	22.35	23.50	1.303	0.223	22

(for original report SZCR240300076714)

9.2.14 SAR Result of LTE Band 38

LTE Band 38 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_50	38150/2610	1:1.58	0.324	0.145	-0.17	21.26	21.50	1.057	0.342	22.3
Back side	20	QPSK 1_50	38150/2610	1:1.58	0.348	0.159	0.09	21.26	21.50	1.057	0.368	22.3
Left side	20	QPSK 1_50	38150/2610	1:1.58	0.575	0.252	0.11	21.26	21.50	1.057	0.608	22.3
Top side	20	QPSK 1_50	38150/2610	1:1.58	0.046	0.025	0.05	21.26	21.50	1.057	0.049	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_25	38000/2595	1:1.58	0.272	0.127	0.10	21.34	21.50	1.038	0.282	22.3
Back side	20	QPSK 50_25	38000/2595	1:1.58	0.316	0.146	-0.01	21.34	21.50	1.038	0.328	22.3
Left side	20	QPSK 50_25	38000/2595	1:1.58	0.585	0.254	0.18	21.34	21.50	1.038	0.607	22.3
Top side	20	QPSK 50_25	38000/2595	1:1.58	0.045	0.025	0.13	21.34	21.50	1.038	0.047	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_50	38150/2610	1:1.58	3.230	1.080	-0.01	21.26	21.50	1.057	1.141	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	38000/2595	1:1.58	3.420	1.120	0.04	21.34	21.50	1.038	1.162	22.3

(for original report SZCR240300076714)

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9.2.15 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 2 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	40620/2593	1:1.58	0.138	0.066	0.01	19.31	19.50	1.045	0.144	22.4
Left tilted	20	QPSK 1_50	40620/2593	1:1.58	0.089	0.044	0.03	19.31	19.50	1.045	0.093	22.4
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.737	0.297	-0.13	19.31	19.50	1.045	0.770	22.4
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.357	0.165	-0.02	19.31	19.50	1.045	0.373	22.4
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.445	0.193	-0.10	19.02	19.50	1.117	0.497	22.4
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.565	0.234	-0.01	18.93	19.50	1.140	0.644	22.4
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.709	0.282	0.13	19.00	19.50	1.122	0.796	22.4
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.731	0.279	0.04	18.96	19.50	1.132	0.828	22.4
Right cheek with HPUE	20	QPSK 1_99	40620/2593	1:2.31	0.669	0.260	-0.04	20.75	21.50	1.189	0.795	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	40620/2593	1:1.58	0.139	0.064	0.01	19.40	19.50	1.023	0.142	22.4
Left tilted	20	QPSK 50_50	40620/2593	1:1.58	0.089	0.045	0.03	19.40	19.50	1.023	0.091	22.4
Right cheek	20	QPSK 50_50	40620/2593	1:1.58	0.758	0.306	0.02	19.40	19.50	1.023	0.776	22.4
Right tilted	20	QPSK 50_50	40620/2593	1:1.58	0.336	0.155	0.04	19.40	19.50	1.023	0.344	22.4
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.477	0.206	-0.08	19.08	19.50	1.102	0.525	22.4
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.587	0.243	0.04	19.17	19.50	1.079	0.633	22.4
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.711	0.281	-0.17	19.07	19.50	1.104	0.785	22.4
Right cheek	20	QPSK 50_25	41490/2680	1:1.58	0.719	0.280	-0.16	19.21	19.50	1.069	0.769	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.752	0.301	-0.19	19.30	19.50	1.047	0.787	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.158	0.072	-0.02	20.51	21.00	1.119	0.177	22.3
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.287	0.133	-0.15	20.51	21.00	1.119	0.321	22.3
Left side	20	QPSK 1_50	41490/2680	1:1.58	0.593	0.259	-0.02	20.51	21.00	1.119	0.664	22.3
Top side	20	QPSK 1_50	41490/2680	1:1.58	0.037	0.021	0.00	20.51	21.00	1.119	0.041	22.3
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.229	0.099	-0.09	20.27	21.00	1.183	0.271	22.3
Left side	20	QPSK 1_50	40185/2549.5	1:1.58	0.321	0.137	-0.12	20.28	21.00	1.180	0.379	22.3
Left side	20	QPSK 1_50	40620/2593	1:1.58	0.486	0.208	0.17	20.49	21.00	1.125	0.547	22.3
Left side	20	QPSK 1_99	41055/2636.5	1:1.58	0.317	0.140	0.14	20.44	21.00	1.138	0.361	22.3
Left side with HPUE	20	QPSK 1_99	41490/2680	1:1.58	0.486	0.212	-0.02	22.68	23.00	1.076	0.523	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.163	0.075	-0.18	20.49	21.00	1.125	0.183	22.3
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.280	0.131	0.17	20.49	21.00	1.125	0.315	22.3
Left side	20	QPSK 50_25	41490/2680	1:1.58	0.565	0.244	-0.03	20.49	21.00	1.125	0.635	22.3
Top side	20	QPSK 50_25	41490/2680	1:1.58	0.042	0.022	-0.11	20.49	21.00	1.125	0.047	22.3
Left side	20	QPSK 50_50	39750/2506	1:1.58	0.221	0.095	0.12	20.30	21.00	1.175	0.260	22.3



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Left side	20	QPSK 50_50	40185/2549.5	1:1.58	0.337	0.144	0.06	20.28	21.00	1.180	0.398	22.3
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.473	0.201	0.02	20.47	21.00	1.130	0.534	22.3
Left side	20	QPSK 50_0	41055/2636.5	1:1.58	0.575	0.255	-0.12	20.44	21.00	1.138	0.654	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 1_0	41490/2680	1:1.58	0.234	0.115	-0.03	24.59	25.00	1.099	0.257	22
Back side with 15mm	20	QPSK 1_0	41490/2680	1:1.58	0.462	0.228	0.01	24.59	25.00	1.099	0.508	22
Left side with 19mm	20	QPSK 1_0	41490/2680	1:1.58	0.424	0.150	-0.10	24.59	25.00	1.099	0.466	22
Top side with 10mm	20	QPSK 1_0	41490/2680	1:1.58	0.105	0.057	0.16	24.59	25.00	1.099	0.115	22
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 50_0	41490/2680	1:1.58	0.175	0.086	0.05	23.61	24.00	1.094	0.191	22
Back side with 15mm	20	QPSK 50_0	41490/2680	1:1.58	0.357	0.175	-0.14	23.61	24.00	1.094	0.391	22
Left side with 19mm	20	QPSK 50_0	41490/2680	1:1.58	0.328	0.167	-0.10	23.61	24.00	1.094	0.359	22
Top side with 10mm	20	QPSK 50_0	41490/2680	1:1.58	0.101	0.056	0.10	23.61	24.00	1.094	0.110	22
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_50	41490/2680	1:1.58	2.560	0.882	0.14	20.51	21.00	1.119	0.987	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	41490/2680	1:1.58	3.450	1.110	0.03	20.49	21.00	1.125	1.248	22.3
Left side with HPUE	20	QPSK 1_99	41490/2680	1:1.58	3.210	1.050	-0.03	22.68	23.00	1.076	1.130	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_0	41490/2680	1:1.58	0.402	0.206	-0.10	24.59	25.00	1.099	0.226	22
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_0	41490/2680	1:1.58	0.315	0.159	0.07	23.61	24.00	1.094	0.174	22

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9.2.16 SAR Result of LTE Band 42

LTE Band 42 SAR Test Record												
Ant 3 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1 99	42590/3500	1:1.58	0.406	0.195	0.06	20.95	21.00	1.012	0.411	22.4
Left tilted	20	QPSK 1 99	42590/3500	1:1.58	0.109	0.054	0.04	20.95	21.00	1.012	0.110	22.4
Right cheek	20	QPSK 1 99	42590/3500	1:1.58	0.792	0.348	-0.04	20.95	21.00	1.012	0.801	22.4
Right tilted	20	QPSK 1 99	42590/3500	1:1.58	0.184	0.090	0.07	20.95	21.00	1.012	0.186	22.4
Left cheek	20	QPSK 1 99	41690/3410	1:1.58	0.385	0.188	0.04	20.54	21.00	1.112	0.428	22.4
Left cheek	20	QPSK 1 99	43490/3590	1:1.58	0.375	0.184	0.03	20.11	21.00	1.227	0.460	22.4
Right cheek	20	QPSK 1 99	41690/3410	1:1.58	0.728	0.317	0.05	20.54	21.00	1.112	0.809	22.4
Right cheek	20	QPSK 1 99	43490/3590	1:1.58	0.486	0.188	0.11	20.11	21.00	1.227	0.597	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50 25	42590/3500	1:1.58	0.433	0.208	0.07	20.98	21.00	1.005	0.435	22.4
Left tilted	20	QPSK 50 25	42590/3500	1:1.58	0.115	0.058	-0.04	20.98	21.00	1.005	0.116	22.4
Right cheek	20	QPSK 50 25	42590/3500	1:1.58	0.794	0.329	0.16	20.98	21.00	1.005	0.798	22.4
Right tilted	20	QPSK 50 25	42590/3500	1:1.58	0.171	0.084	-0.13	20.98	21.00	1.005	0.172	22.4
Left cheek	20	QPSK 50 50	41690/3410	1:1.58	0.421	0.192	0.05	20.62	21.00	1.091	0.459	22.4
Left cheek	20	QPSK 50 25	43490/3590	1:1.58	0.430	0.185	0.04	20.22	21.00	1.197	0.515	22.4
Right cheek	20	QPSK 50 50	41690/3410	1:1.58	0.705	0.312	0.01	20.62	21.00	1.091	0.769	22.4
Right cheek	20	QPSK 50 25	43490/3590	1:1.58	0.650	0.258	-0.07	20.22	21.00	1.197	0.778	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100 0	42590/3500	1:1.58	0.793	0.323	0.12	20.97	21.00	1.007	0.798	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1 50	42590/3500	1:1.58	0.406	0.190	0.17	23.82	24.00	1.042	0.423	22.3
Back side	20	QPSK 1 50	42590/3500	1:1.58	0.657	0.297	0.00	23.82	24.00	1.042	0.685	22.3
Left side	20	QPSK 1 50	42590/3500	1:1.58	0.686	0.329	-0.10	23.82	24.00	1.042	0.715	22.4
Front side	20	QPSK 1 50	41690/3410	1:1.58	0.385	0.187	-0.15	23.42	24.00	1.143	0.440	22.3
Front side	20	QPSK 1 50	43490/3590	1:1.58	0.385	0.185	0.07	23.03	24.00	1.250	0.481	22.3
Back side	20	QPSK 1 50	41690/3410	1:1.58	0.513	0.246	-0.08	23.42	24.00	1.143	0.586	22.3
Back side	20	QPSK 1 50	43490/3590	1:1.58	0.378	0.178	0.13	23.03	24.00	1.250	0.473	22.3
Left side	20	QPSK 1 50	41690/3410	1:1.58	0.625	0.312	0.07	23.42	24.00	1.143	0.714	22.3
Left side	20	QPSK 1 50	43490/3590	1:1.58	0.633	0.325	-0.12	23.03	24.00	1.250	0.791	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50 0	42590/3500	1:1.58	0.362	0.171	-0.02	23.40	23.50	1.023	0.370	22.3
Back side	20	QPSK 50 0	42590/3500	1:1.58	0.576	0.260	-0.15	23.40	23.50	1.023	0.589	22.3
Left side	20	QPSK 50 0	42590/3500	1:1.58	0.643	0.297	0.07	23.40	23.50	1.023	0.658	22.3
Front side	20	QPSK 50 50	41690/3410	1:1.58	0.352	0.162	-0.15	23.38	23.50	1.028	0.362	22.3
Front side	20	QPSK 50 25	43490/3590	1:1.58	0.348	0.164	-0.02	23.20	23.50	1.072	0.373	22.3
Back side	20	QPSK 50 50	41690/3410	1:1.58	0.484	0.232	-0.13	23.38	23.50	1.028	0.498	22.3
Back side	20	QPSK 50 25	43490/3590	1:1.58	0.372	0.168	0.00	23.20	23.50	1.072	0.399	22.3
Left side	20	QPSK 50 50	41690/3410	1:1.58	0.635	0.287	0.00	23.38	23.50	1.028	0.653	22.3
Left side	20	QPSK 50 25	43490/3590	1:1.58	0.627	0.289	0.08	23.20	23.50	1.072	0.672	22.3

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9.2.17 SAR Result of LTE Band 48

LTE Band 48 SAR Test Record												
Ant 3 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_99	56640/3690	1:1.58	0.187	0.092	-0.10	19.47	20.50	1.268	0.237	22.4
Left tilted	20	QPSK 1_99	56640/3690	1:1.58	0.136	0.062	-0.19	19.47	20.50	1.268	0.172	22.4
Right cheek	20	QPSK 1_99	56640/3690	1:1.58	0.652	0.249	-0.08	19.47	20.50	1.268	0.827	22.4
Right tilted	20	QPSK 1_99	56640/3690	1:1.58	0.234	0.107	0.02	19.47	20.50	1.268	0.297	22.4
Right cheek	20	QPSK 1_0	55340/3560	1:1.58	0.586	0.238	-0.08	18.82	20.50	1.472	0.863	22.4
Right cheek	20	QPSK 1_99	55990/3625	1:1.58	0.518	0.197	0.16	19.12	20.50	1.374	0.712	22.4
Right cheek	20	QPSK PCC 1_99	55340/3560	1:1	0.532	0.208	-0.19	19.33	20.50	1.309	0.696	22.2
		QPSK SCC 1_0	55538/3579.2									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	56640/3690	1:1.58	0.192	0.093	-0.05	19.54	20.50	1.247	0.239	22.4
Left tilted	20	QPSK 50_50	56640/3690	1:1.58	0.130	0.061	0.11	19.54	20.50	1.247	0.162	22.4
Right cheek	20	QPSK 50_50	56640/3690	1:1.58	0.516	0.193	-0.18	19.54	20.50	1.247	0.644	22.4
Right tilted	20	QPSK 50_50	56640/3690	1:1.58	0.232	0.106	0.10	19.54	20.50	1.247	0.289	22.4
Right cheek	20	QPSK 50_0	55340/3560	1:1.58	0.501	0.188	-0.03	18.89	20.50	1.449	0.726	22.4
Right cheek	20	QPSK 50_25	55990/3625	1:1.58	0.512	0.191	0.01	19.28	20.50	1.324	0.678	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	56640/3690	1:1.58	0.585	0.232	-0.12	19.40	20.50	1.288	0.754	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_99	56640/3690	1:1.58	0.450	0.215	-0.02	23.89	24.00	1.026	0.462	22.3
Back side	20	QPSK 1_99	56640/3690	1:1.58	0.508	0.236	-0.03	23.89	24.00	1.026	0.521	22.3
Left side	20	QPSK 1_99	56640/3690	1:1.58	0.690	0.326	-0.08	23.89	24.00	1.026	0.708	22.4
Left side	20	QPSK 1_0	55340/3560	1:1.58	0.600	0.275	-0.02	23.29	24.00	1.178	0.707	22.4
Left side	20	QPSK 1_99	55990/3625	1:1.58	0.635	0.286	-0.12	23.61	24.00	1.094	0.695	22.4
Left side	20	QPSK PCC 1_0	56640/3690	1:1	0.524	0.249	0.08	22.77	24.00	1.327	0.696	22.2
		QPSK SCC 1_99	56442/3670.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_50	56640/3690	1:1.58	0.460	0.210	-0.19	22.92	23.00	1.019	0.469	22.3
Back side	20	QPSK 50_50	56640/3690	1:1.58	0.486	0.220	0.00	22.92	23.00	1.019	0.495	22.3
Left side	20	QPSK 50_50	56640/3690	1:1.58	0.645	0.291	-0.13	22.92	23.00	1.019	0.657	22.3
Left side	20	QPSK 50_0	55340/3560	1:1.58	0.600	0.279	0.07	22.39	23.00	1.151	0.690	22.3
Left side	20	QPSK 50_50	55990/3625	1:1.58	0.623	0.295	0.19	22.81	23.00	1.045	0.651	22.3

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