

Appendix D. Conducted power reduction mechanisms validation

1.1 Conducted power of 2/3/4G validation results

2G/3G/4G Second Antenna Power Validation results(dBm)			
Band	Second Antenna only		Second Antenna+ Wi-Fi on/Hotspot on
	Receiver on	Receiver off	/
GSM1900	25.05	28.10	24.11
UMTS Band II	15.78	20.40	15.81
UMTS Band IV	18.75	19.81	18.78
LTE Band 2	15.30	19.95	15.31
LTE Band 4	18.10	19.11	18.10
LTE Band 7	14.45	19.86	14.41
LTE Band 38	16.68	22.19	16.67
LTE Band 41	16.78	22.21	16.72
LTE Band 66	18.17	19.12	18.16

Table 1: 2/3/4G reduced power validation results of Second antenna

2G/3G/4G Main Antenna Power Validation results(dBm)					
Band	Main Antenna only		Main Antenna+ Wi-Fi on/Hotspot on	Main Antenna+ BT on	
	Receiver on	Receiver off	/	Receiver on	Receiver off
GSM1900	29.30	29.34	28.42	29.30	29.34
UMTS Band II	23.45	21.54	20.50	23.45	21.54
UMTS Band IV	23.81	21.90	21.41	23.81	21.90
LTE Band 2	22.85	21.27	20.76	22.85	21.27
LTE Band 4	23.23	21.24	20.72	23.23	21.24
LTE Band 7	22.66	20.64	18.58	20.60	20.64
LTE Band 38	23.69	22.81	20.77	22.74	22.81
LTE Band 41	23.33	22.85	20.86	22.82	22.85
LTE Band 66	23.32	21.29	20.79	23.32	21.29

Table 2: 2/3/4G reduced power validation results of Main antenna

Note: The 2/3/4G max power (tune up) is provided in the SAR test report.

1.2 Conducted power of 4G country code (MCC) validation results

4G Second Antenna country code (MCC) Validation Results (dBm)				
Band	MCC of CE Countries		MCC of FCC Countries	
	Receiver on		Receiver on	
	Tune up	Power Validation Results	Tune up	Power Validation Results
LTE Band 7	19.20	18.04	15.70	14.45
LTE Band 38	22.20	20.81	18.20	16.68
LTE Band 41	22.20	20.93	18.20	16.78

Table 3: 4G Second Antenna country code (MCC) Validation Results

1.3 Conducted power of Wi-Fi country code (MCC) validation results

Wi-Fi conducted power validation results										
Configuration			MCC of CE Countries				MCC of FCC Countries			
Band	Ant	Mode	Tune-up(dBm)		Average Power (dBm)		Tune-up(dBm)		Average Power (dBm)	
			Receiver on	Receiver off	Receiver on	Receiver off	Receiver on	Receiver off	Receiver on	Receiver off
2.4G Wi-Fi	Core0	802.11b	18.50	18.50	18.35	18.35	15.50	18.50	14.92	17.93
		802.11g	18.00	18.00	18.21	18.19	14.50	18.00	14.81	16.45
		802.11n HT20	18.00	18.00	18.15	18.13	15.50	18.00	14.83	16.45
		802.11n HT40	18.00	18.00	18.12	18.02	15.50	16.50	14.46	15.80
		802.11ax HE20	18.00	18.00	18.20	18.17	15.40	17.90	14.32	16.63
		802.11ax HE40	18.00	18.00	18.05	18.24	15.40	17.90	14.52	16.58
	Core1	802.11b	18.50	18.50	17.83	17.83	15.50	18.50	14.92	17.90
		802.11g	18.00	18.00	17.62	17.52	14.50	18.00	14.81	16.45
		802.11n HT20	18.00	18.00	17.52	17.61	15.50	18.00	14.81	16.44
		802.11n HT40	18.00	18.00	17.43	17.29	15.50	16.50	14.462	15.80
		802.11ax HE20	18.00	18.00	17.56	17.26	15.40	17.90	14.32	16.63
		802.11ax HE40	18.00	18.00	17.69	17.23	15.40	17.90	14.52	16.51
		802.11a	17.00	17.00	16.52	16.29	13.00	16.00	11.48	14.51
		802.11n HT20	17.00	17.00	16.23	16.15	13.00	16.00	11.62	14.23
		802.11n HT40	17.00	17.00	16.64	16.53	13.00	16.00	11.23	14.21

5G Wi-Fi	Core0	802.11ac VHT20	17.00	17.00	16.36	16.54	13.00	15.90	11.12	14.12
		802.11ac VHT40	17.00	17.00	16.08	16.05	13.00	15.90	11.25	14.20
		802.11ac VHT80	12.00	12.00	10.97	10.95	11.90	11.90	10.21	10.18
		802.11ac VHT160	9.50	9.50	8.23	8.12	9.40	9.40	8.01	8.09
		802.11ax HE20	16.90	16.90	15.21	15.32	12.90	15.90	11.02	14.21
		802.11ax HE40	16.90	16.90	15.12	15.02	12.90	15.90	11.22	14.09
		802.11ax HE80	11.90	11.90	10.12	10.26	12.90	11.90	11.43	10.20
		802.11ax HE160	9.40	9.40	8.10	8.12	12.90	9.40	8.04	8.12
	Core1	802.11a	17.00	17.00	16.66	16.49	13.00	16.00	11.72	14.50
		802.11n HT20	17.00	17.00	16.23	16.05	13.00	16.00	11.62	14.28
		802.11n HT40	17.00	17.00	16.84	16.53	13.00	16.00	11.23	14.29
		802.11ac VHT20	17.00	17.00	16.23	16.21	13.00	15.90	11.12	14.15
		802.11ac VHT40	17.00	17.00	16.58	16.48	13.00	15.90	11.25	14.21
		802.11ac VHT80	12.00	12.00	10.91	10.90	11.90	11.90	11.16	10.17
		802.11ac VHT160	9.50	9.50	8.41	8.23	9.40	9.40	8.01	8.08
		802.11ax HE20	16.90	16.90	15.02	15.36	12.90	15.90	11.02	14.24
		802.11ax HE40	16.90	16.90	15.20	15.21	12.90	15.90	11.22	14.08
		802.11ax HE80	11.90	11.90	10.59	10.27	12.90	11.90	11.43	10.21
		802.11ax HE160	9.40	9.40	8.06	8.15	12.90	9.40	8.04	8.14

Table 4: Wi-Fi conducted power validation results