Appendix B

RF Test Data for BT 4.2(BLE) (Conducted Measurement)

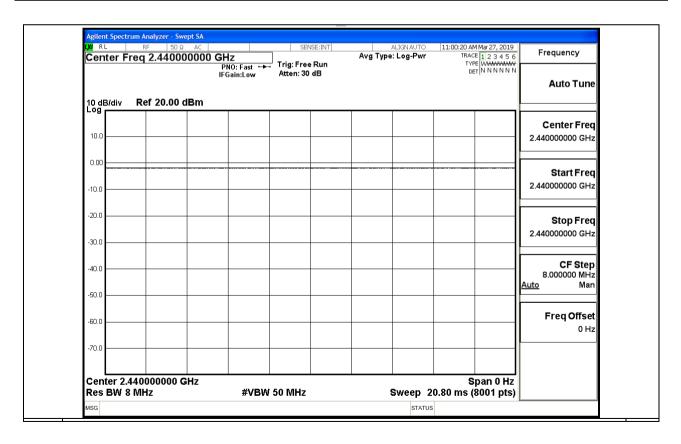
Product Name: TS Smart Cylindrical Lock
Trade Mark: N/A
Test Model: e-Elite 5000-BLE

Environmental Conditions

_						
Temperature:	24.2 ° C					
Relative Humidity:	53.4%					
ATM Pressure:	100.0 kPa					
Test Engineer:	AKING JIN					
Supervised by:	Jayden.Zhuo					

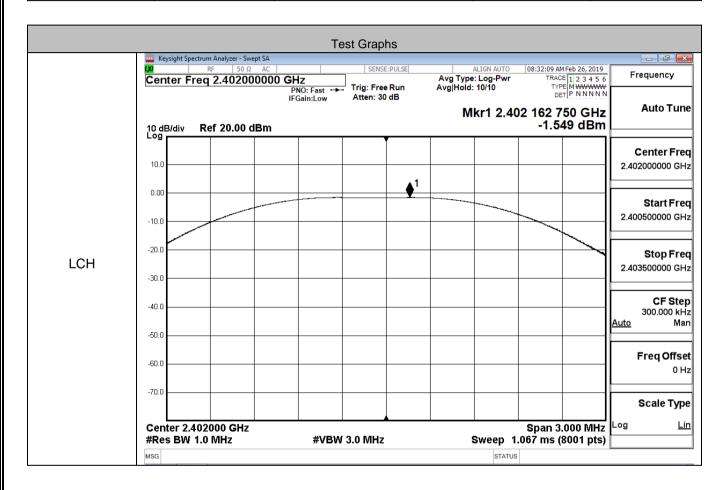
B.1 Duty Cycle

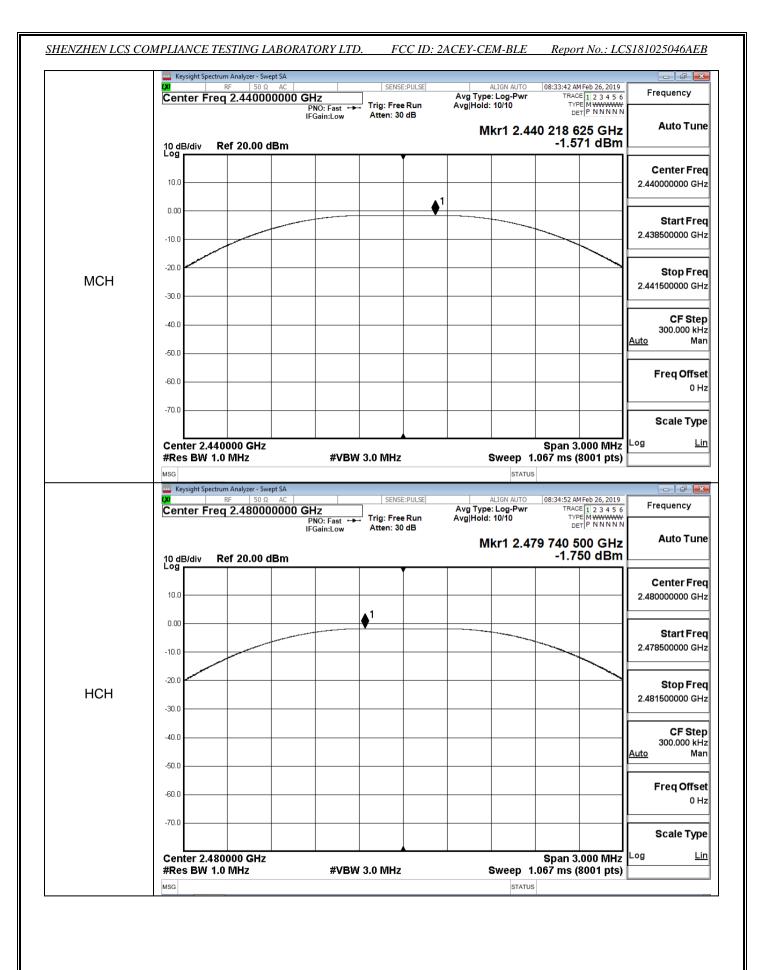
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

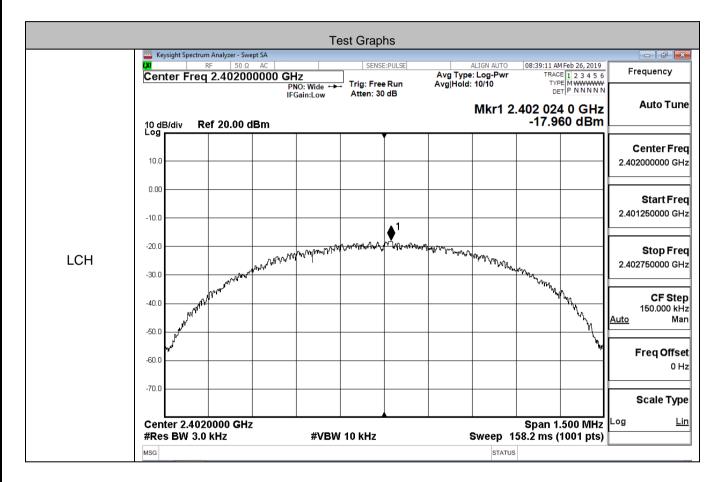
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.549	30	PASS
BT LE	MCH	-1.571	30	PASS
BT LE	HCH	-1.750	30	PASS

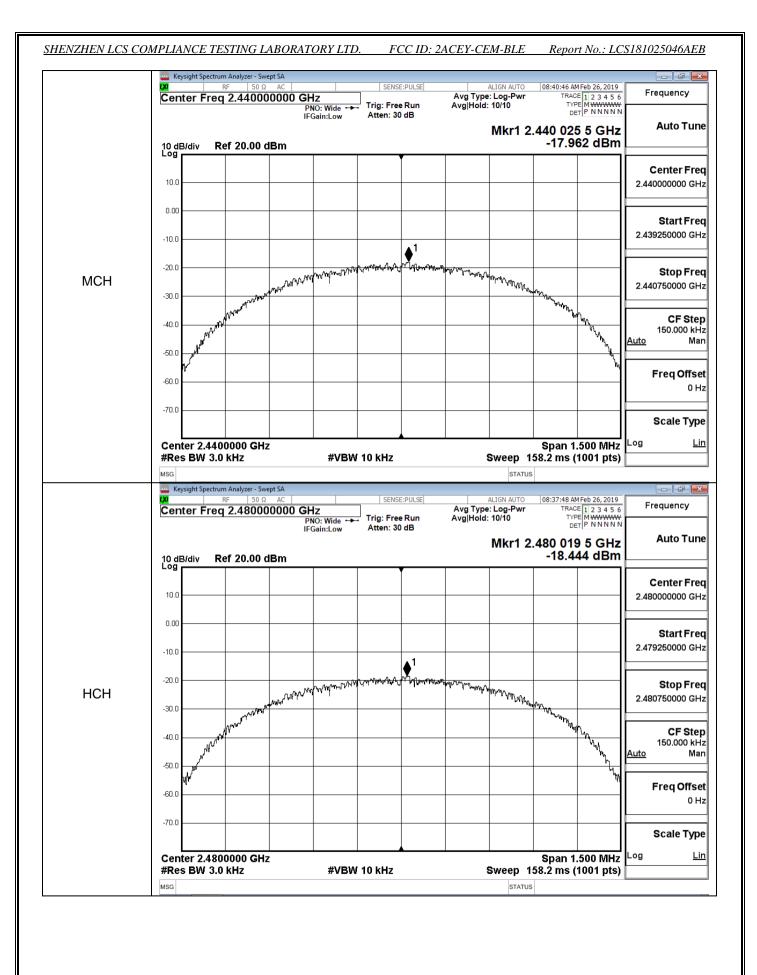




B.3 Maximum Power Spectral Density

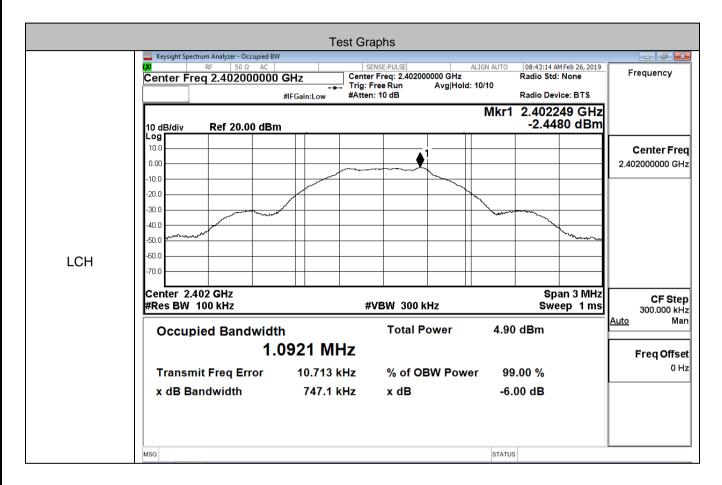
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.960	8	PASS
BT LE	MCH	-17.962	8	PASS
BT LE	HCH	-18.444	8	PASS

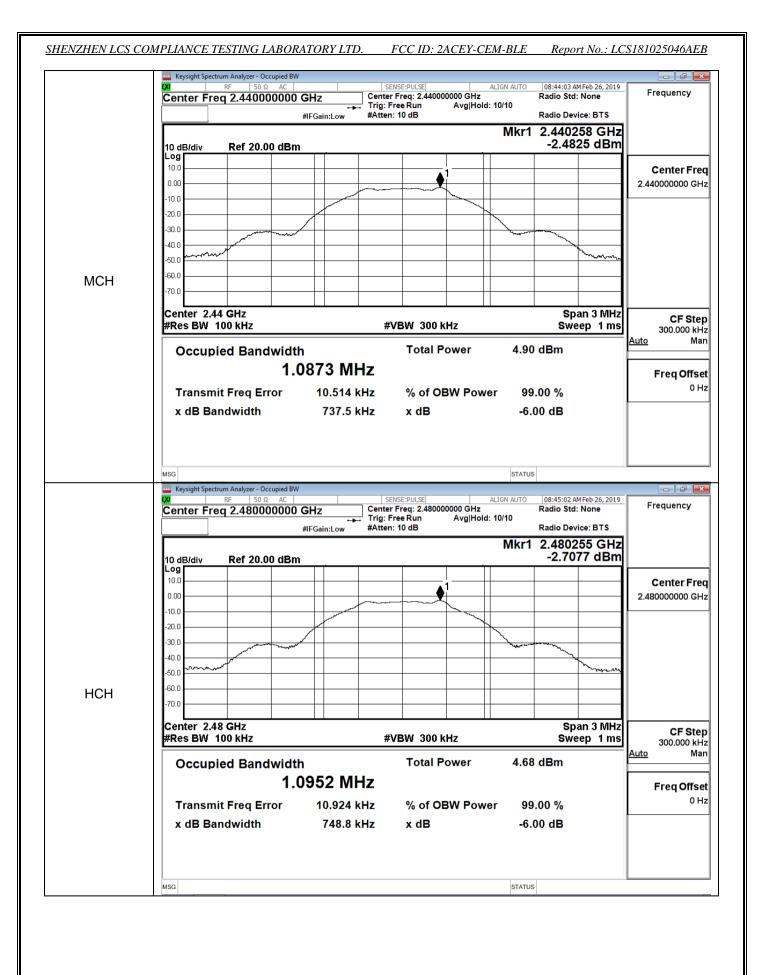




B.4 6dB Bandwidth

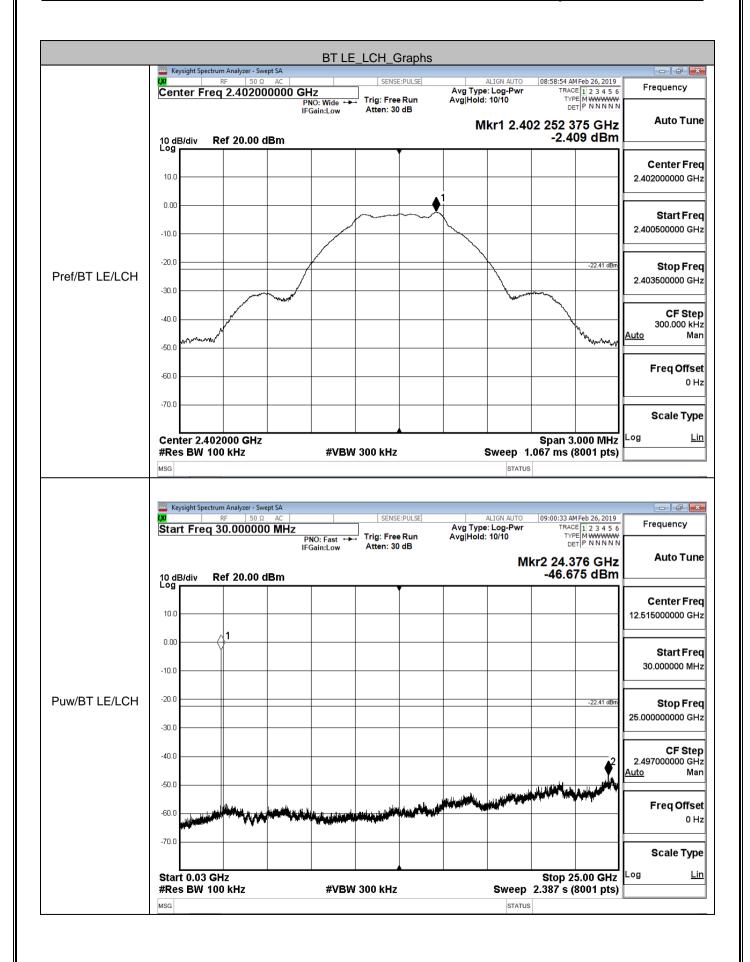
Mode	Channel	Channel 6dB Bandwidth [MHz] Limit [MHz]		Verdict
BT LE	LCH	0.7471	≥0.5	PASS
BT LE	MCH	0.7375	≥0.5	PASS
BT LE	HCH	0.7488	≥0.5	PASS

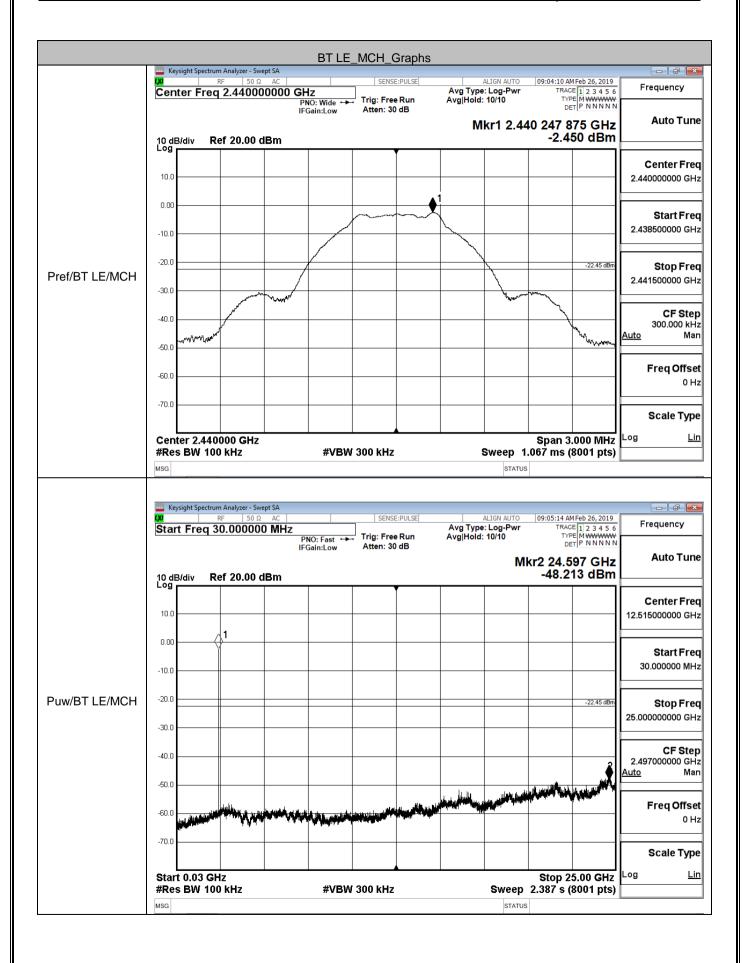


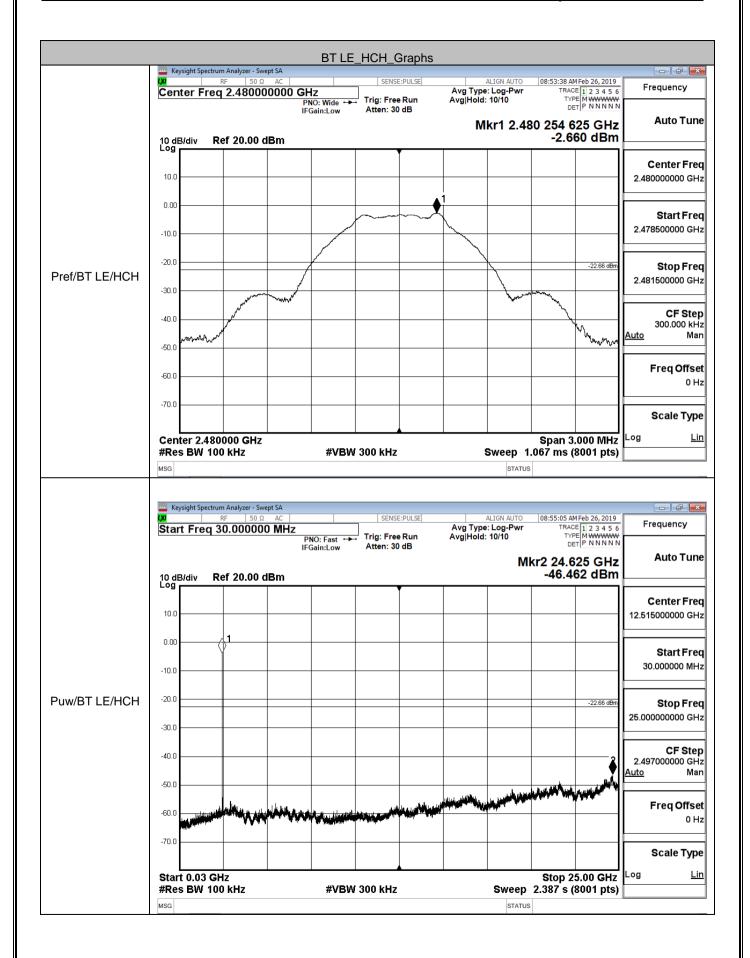


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.409	-46.675	-22.409	PASS
BT LE	MCH	-2.450	-48.213	-22.450	PASS
BT LE	НСН	-2.660	-46.462	-22.660	PASS

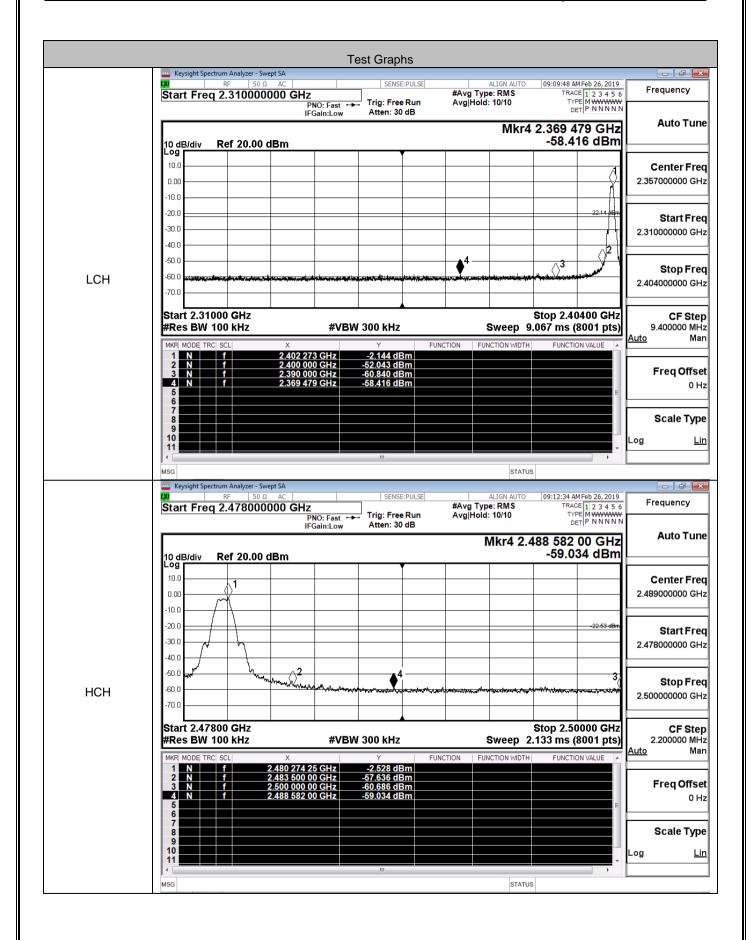






B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.144	-52.043	-22.144	PASS
BT LE	HCH	-2.528	-57.636	-22.528	PASS



B.7 Restrict-band band-edge measurements

Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-50.887	2.23	0	46.57	PEAK	74	PASS
	2402	Ant1	2310.0	-62.625	2.23	0	34.84	AV	54	PASS
BT LE		Ant1	2390.0	-50.957	2.23	0	46.50	PEAK	74	PASS
		Ant1	2390.0	-62.081	2.23	0	35.38	AV	54	PASS
	2480	Ant1	2483.5	-46.700	2.23	0	50.76	PEAK	74	PASS
		Ant1	2483.5	-58.061	2.23	0	39.40	AV	54	PASS
		Ant1	2500.0	-49.852	2.23	0	47.61	PEAK	74	PASS
		Ant1	2500.0	-61.816	2.23	0	35.64	AV	54	PASS

