

Appendix: Bluetooth LE

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Appendix A: 6dB Occupied Bandwidth

Test Result

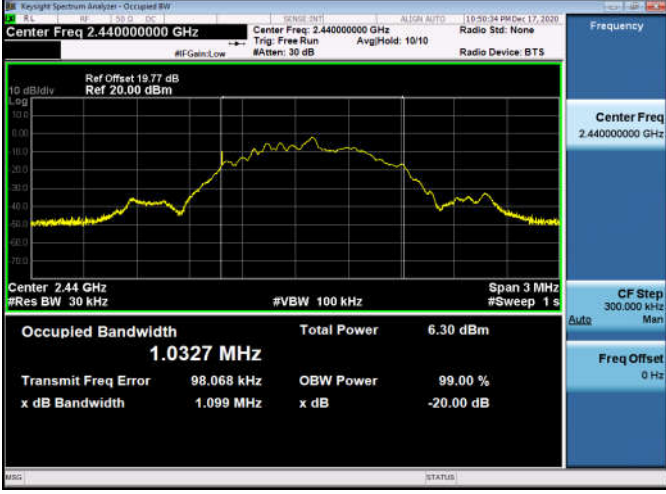
Mode	Channel	6dB Bandwidth [MHz]	99% OBW[MHz]	Verdict
BLE	LCH	0.6687	1.0366	PASS
BLE	MCH	0.6645	1.0327	PASS
BLE	HCH	0.6709	1.0292	PASS

Test Graphs

6 dB Bandwidth



Occupied Bandwidth(99%)

Graphs	
LCH	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Ref Offset 19.5 dB Ref 20.00 dBm Mkr1 2.4015792 GHz -18.282 dBm Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz #Sweep 1 s Occupied Bandwidth 1.0366 MHz Total Power 6.05 dBm Transmit Freq Error 97.482 kHz OBW Power 99.00 % x dB Bandwidth 1.108 MHz x dB -20.00 dB
MCH	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.440000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Mkr1 2.4406141 GHz -17.618 dBm Center 2.44 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz #Sweep 1 s Occupied Bandwidth 1.0327 MHz Total Power 6.30 dBm Transmit Freq Error 98.068 kHz OBW Power 99.00 % x dB Bandwidth 1.099 MHz x dB -20.00 dB
HCH	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Mkr1 2.4806141 GHz -17.618 dBm Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz #Sweep 1 s Occupied Bandwidth 1.0292 MHz Total Power 6.40 dBm Transmit Freq Error 99.477 kHz OBW Power 99.00 % x dB Bandwidth 1.099 MHz x dB -20.00 dB

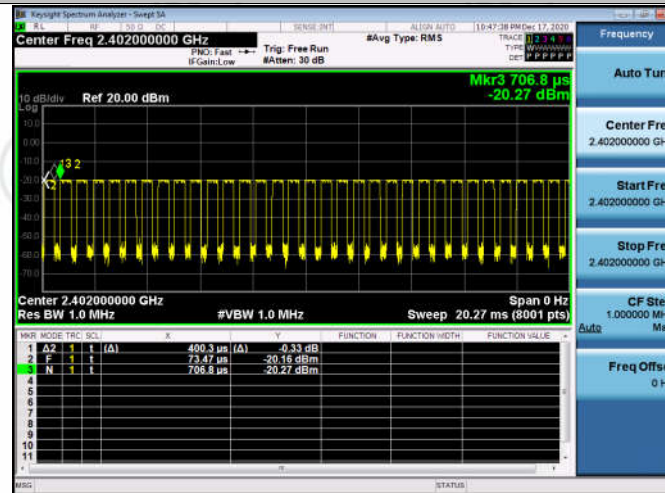
Appendix B: Duty Cycle

Test Result

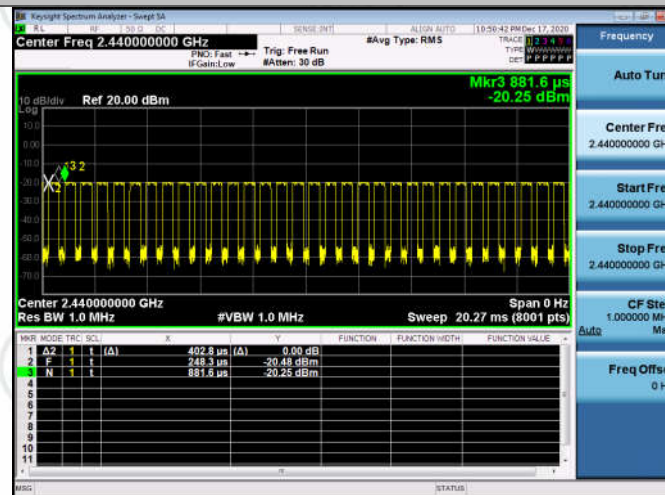
Mode	Channel	Duty Cycle [%]	Limit	Verdict
BLE	LCH	63.2	---	PASS
BLE	MCH	63.6	---	PASS
BLE	HCH	64.75	---	PASS

Test Graphs

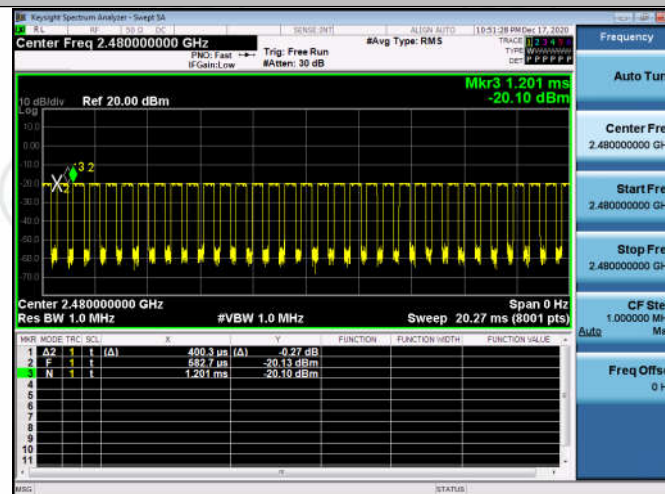
BLE_Ant1_LCH



BLE_Ant1_MCH



BLE_Ant1_HCH

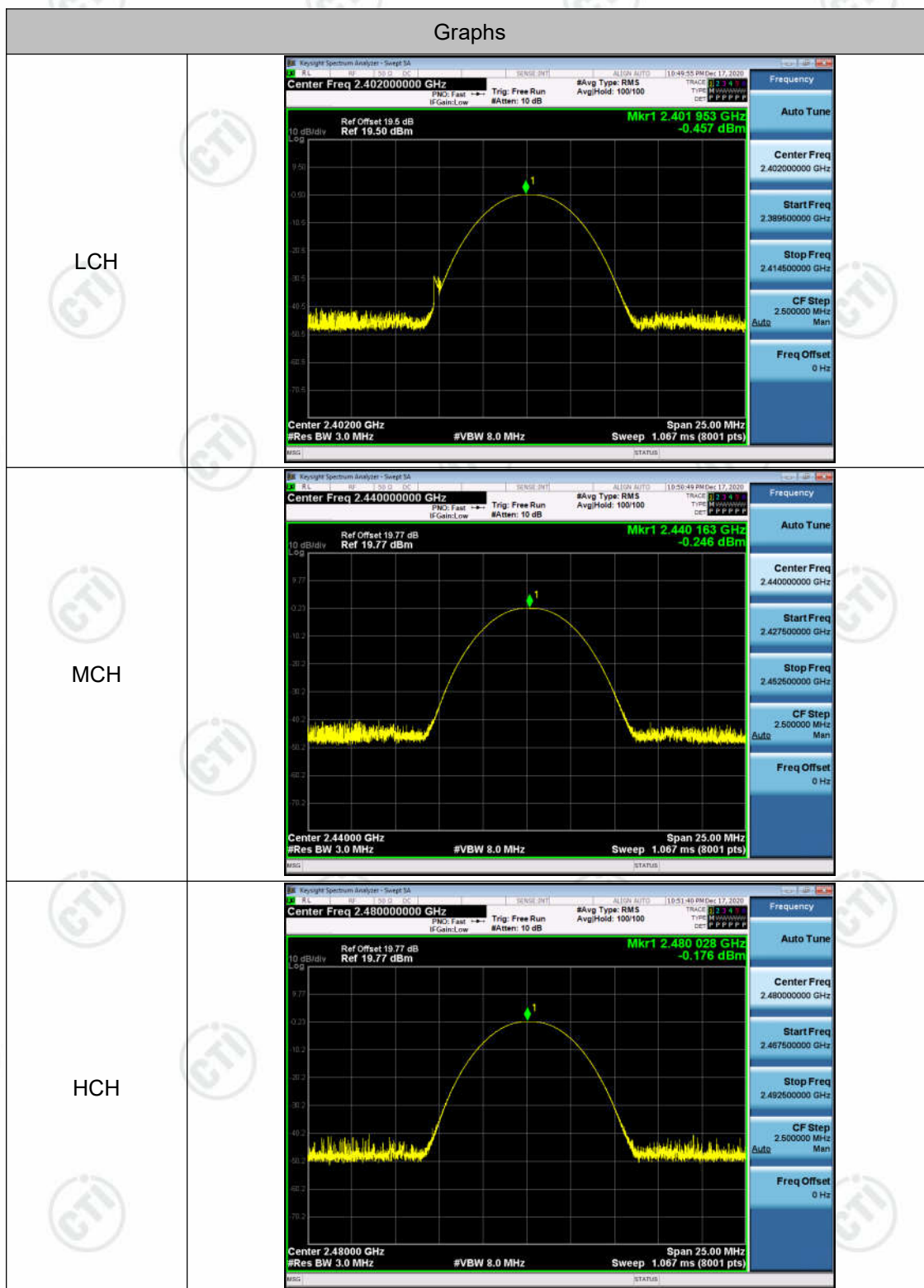


Appendix C: Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-0.457	PASS
BLE	MCH	-0.246	PASS
BLE	HCH	-0.176	PASS

Test Graphs

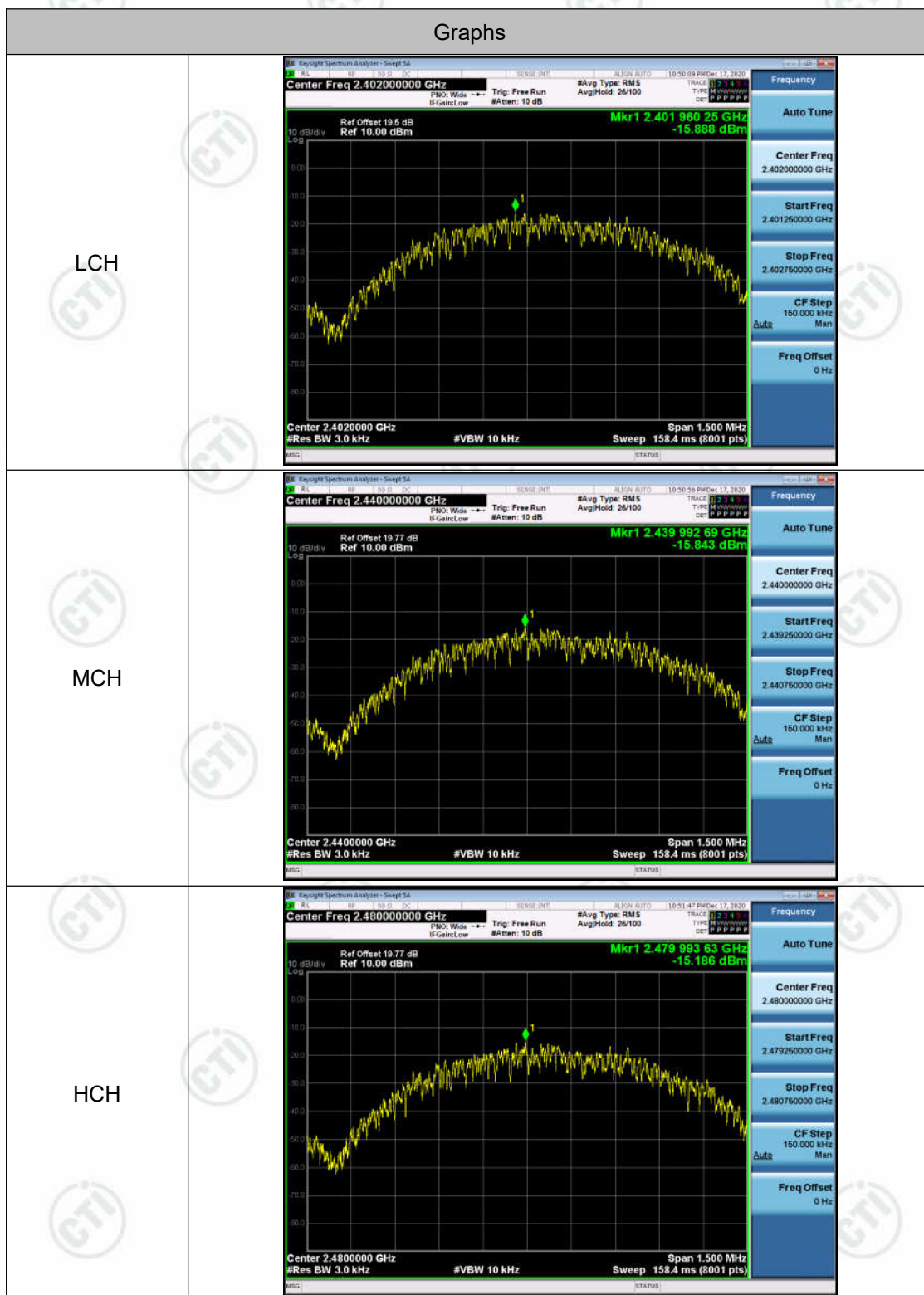


Appendix D: Power Spectral Density

Test Result

Mode	Channel	PSD [dBm]	Verdict
BLE	LCH	-15.888	PASS
BLE	MCH	-15.843	PASS
BLE	HCH	-15.186	PASS

Test Graphs

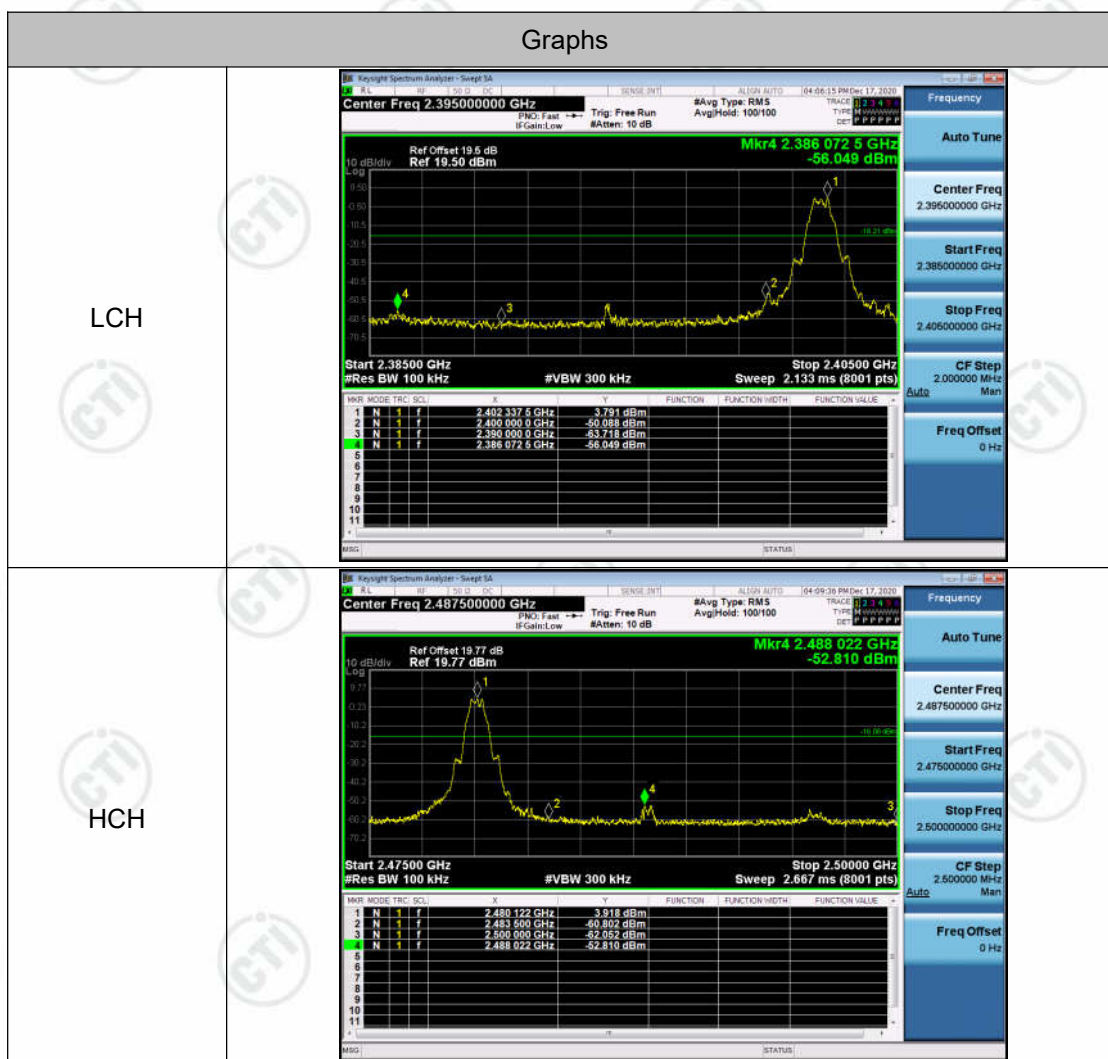


Appendix E: Band-edge for RF Conducted Emissions

Test Result

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	3.791	-56.049	-16.21	PASS
BLE	HCH	3.918	-52.810	-16.08	PASS

Test Graphs

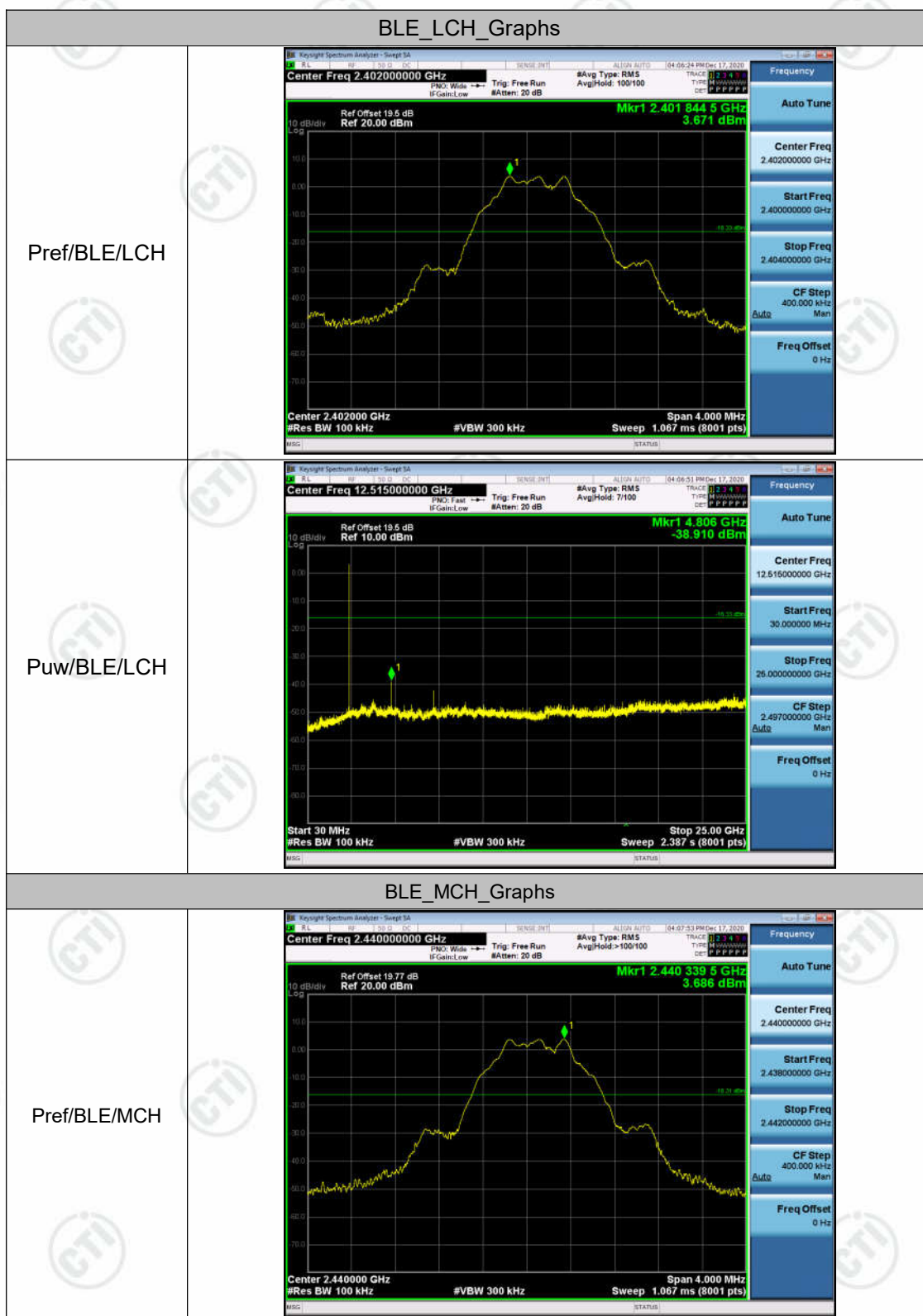


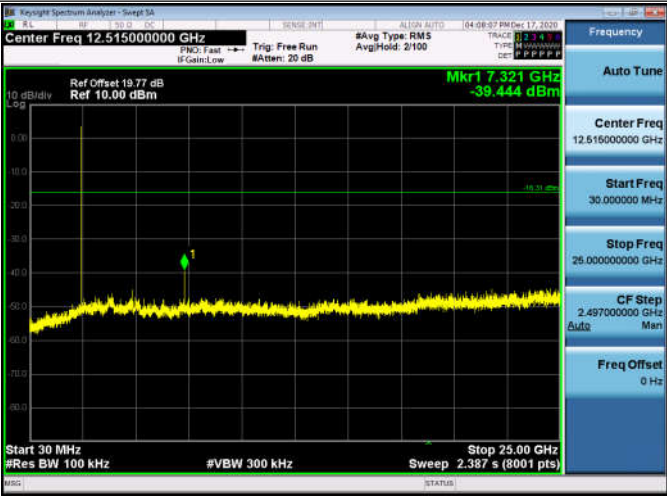
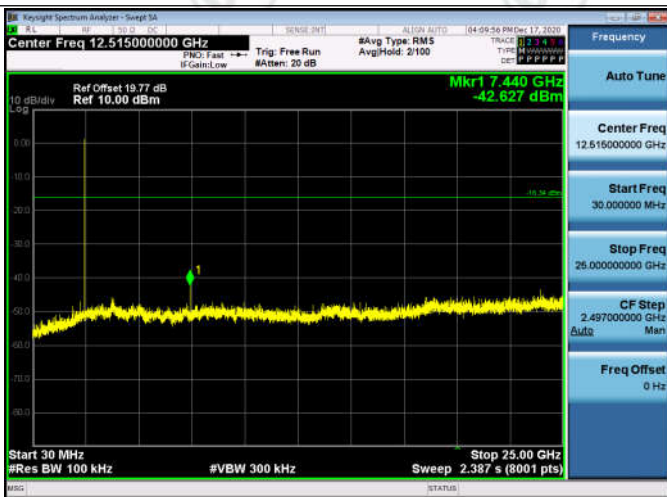
Appendix F: RF Conducted Spurious Emissions

Test Result

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	3.671	<Limit	PASS
BLE	MCH	3.686	<Limit	PASS
BLE	HCH	3.66	<Limit	PASS

Test Graphs



Puw/BLE/MCH	
BLE_HCH_Graphs	
Pref/BLE/HCH	
Puw/BLE/HCH	

*** End of Report ***