Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: Bright Life

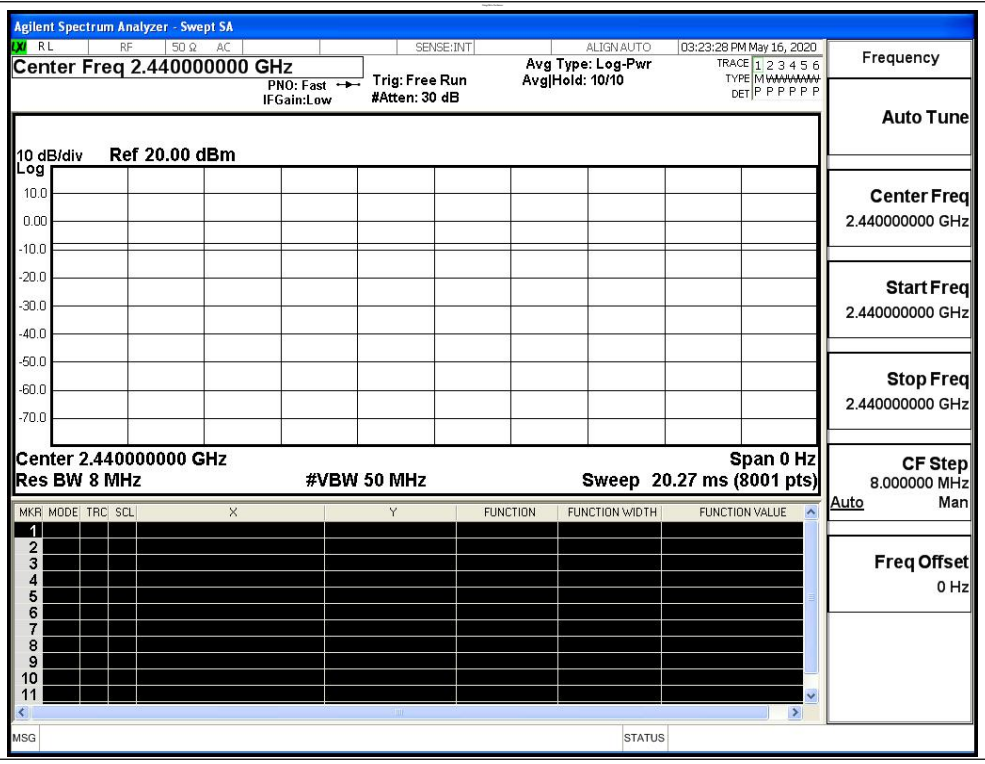
Test Model: TL21

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

B.1 Duty Cycle

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

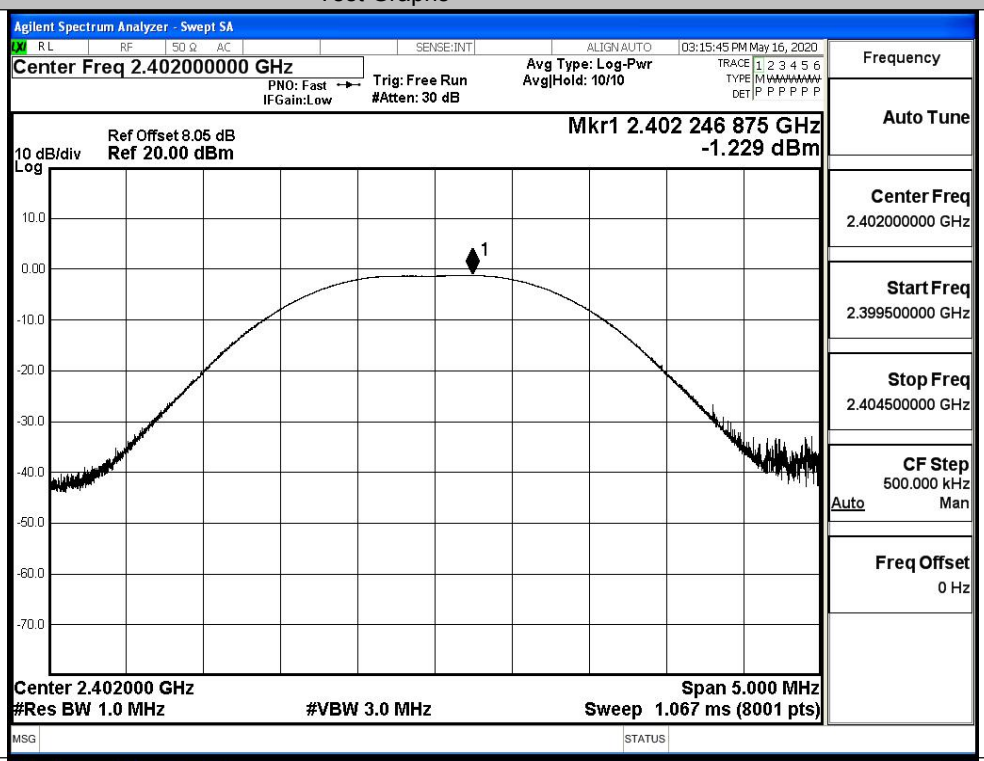


B.2 Maximum Conducted Peak Output Power

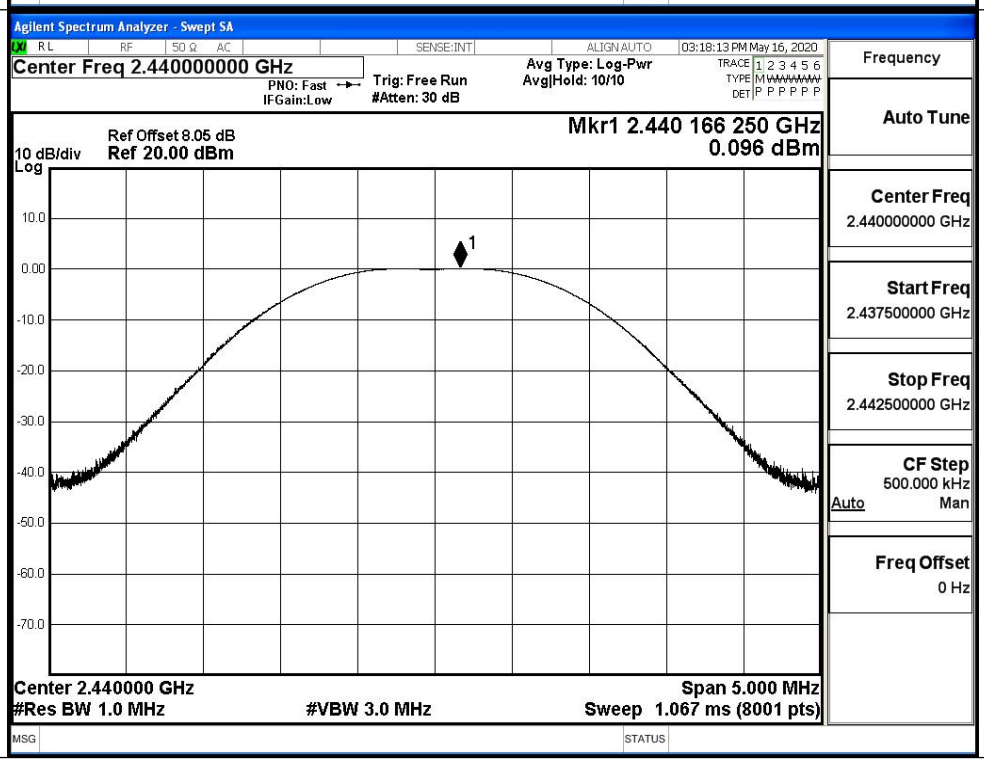
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.229	30	PASS
BT LE	MCH	**0.096**	30	PASS
BT LE	HCH	-0.199	30	PASS

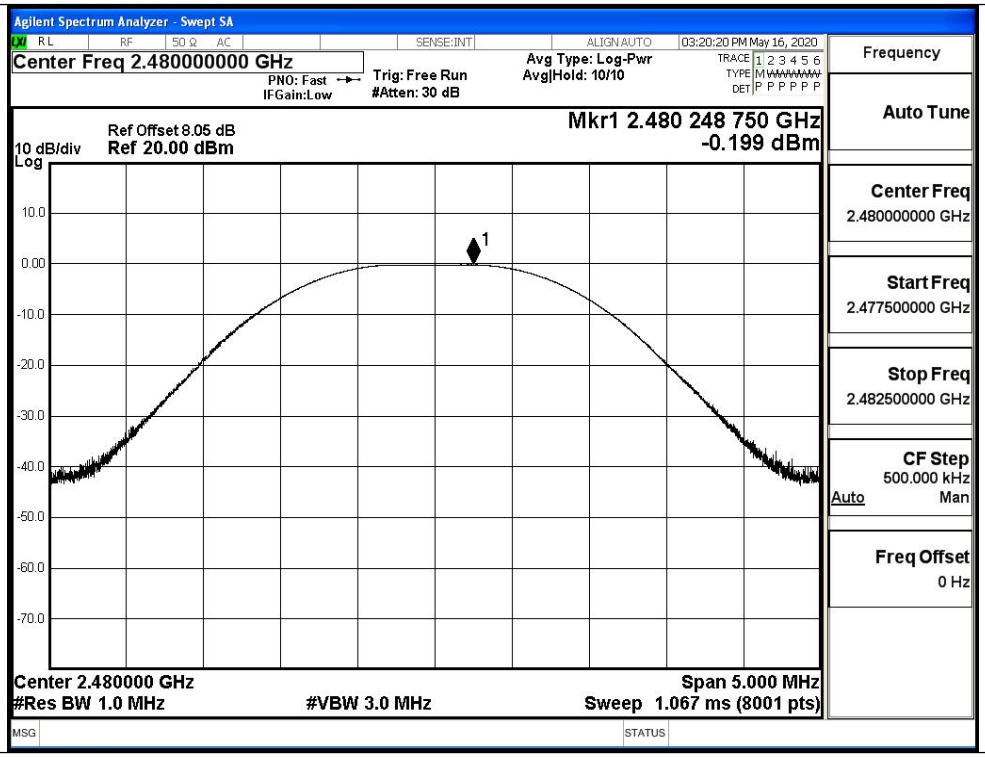
Test Graphs

LCH



MCH

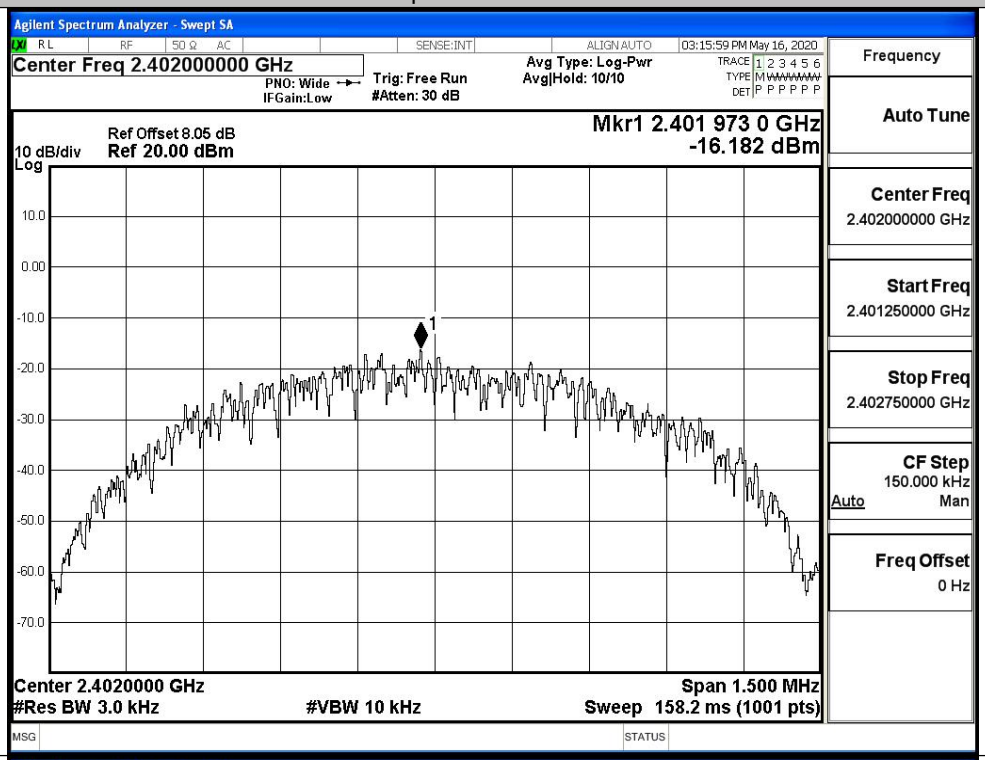
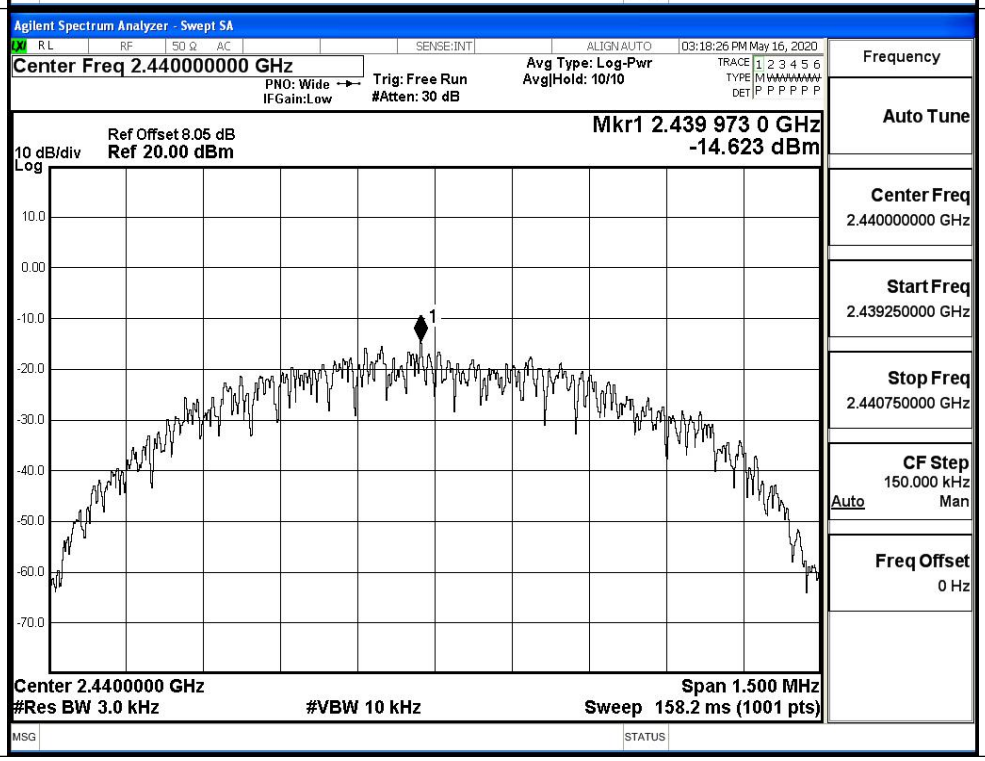


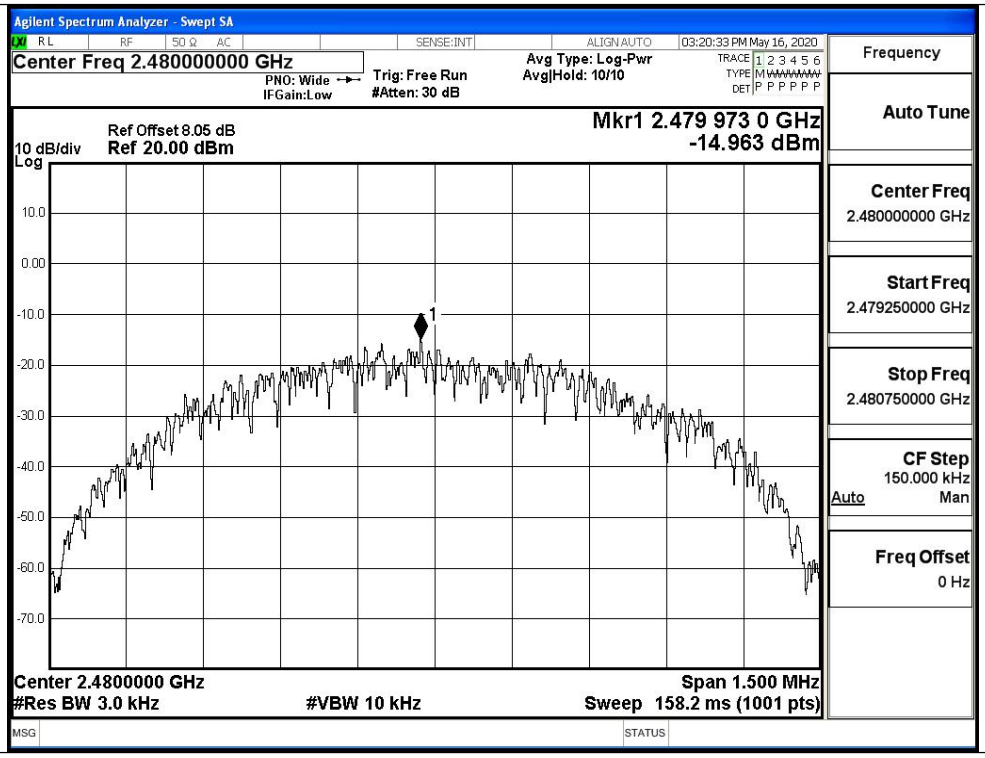
HCH		

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
03:20:20 PM May 16, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 248 750 GHz
-0.199 dBm
Center 2.480000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 5.000 MHz
Sweep 1.067 ms (8001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.477500000 GHz
Stop Freq
2.482500000 GHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.182	8	PASS
BT LE	MCH	-14.623	8	PASS
BT LE	HCH	-14.963	8	PASS

Test Graphs		
LCH		
MCH		

HCH		

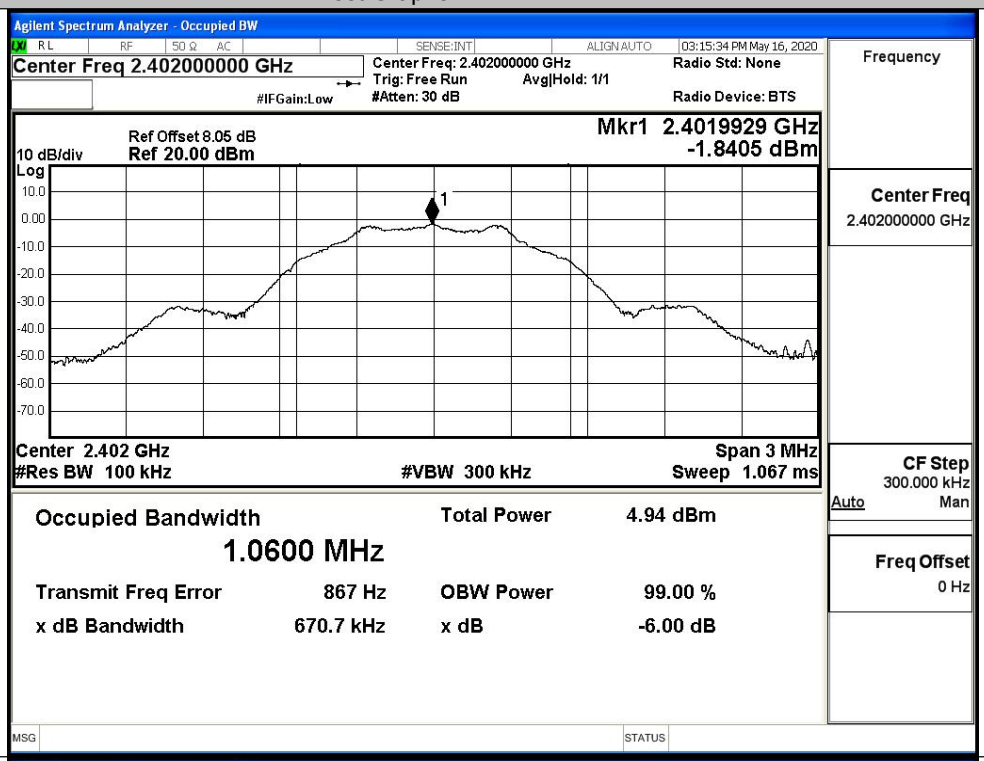
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
03:20:33 PM May 16, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.479 973 0 GHz
-14.963 dBm
Center 2.4800000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 1.500 MHz
Sweep 158.2 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.479250000 GHz
Stop Freq
2.480750000 GHz
CF Step
150.000 kHz
Auto
Man
Freq Offset
0 Hz

B.4 6dB Bandwidth

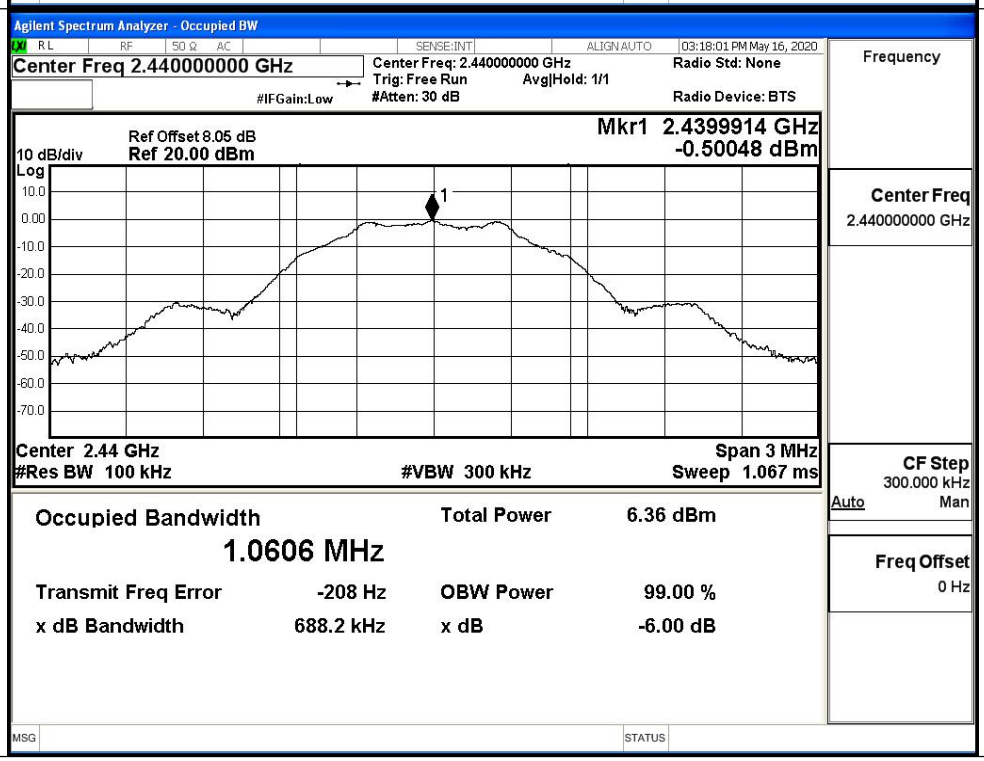
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6707	⩾0.5	PASS
BT LE	MCH	0.6882	⩾0.5	PASS
BT LE	HCH	0.6868	⩾0.5	PASS

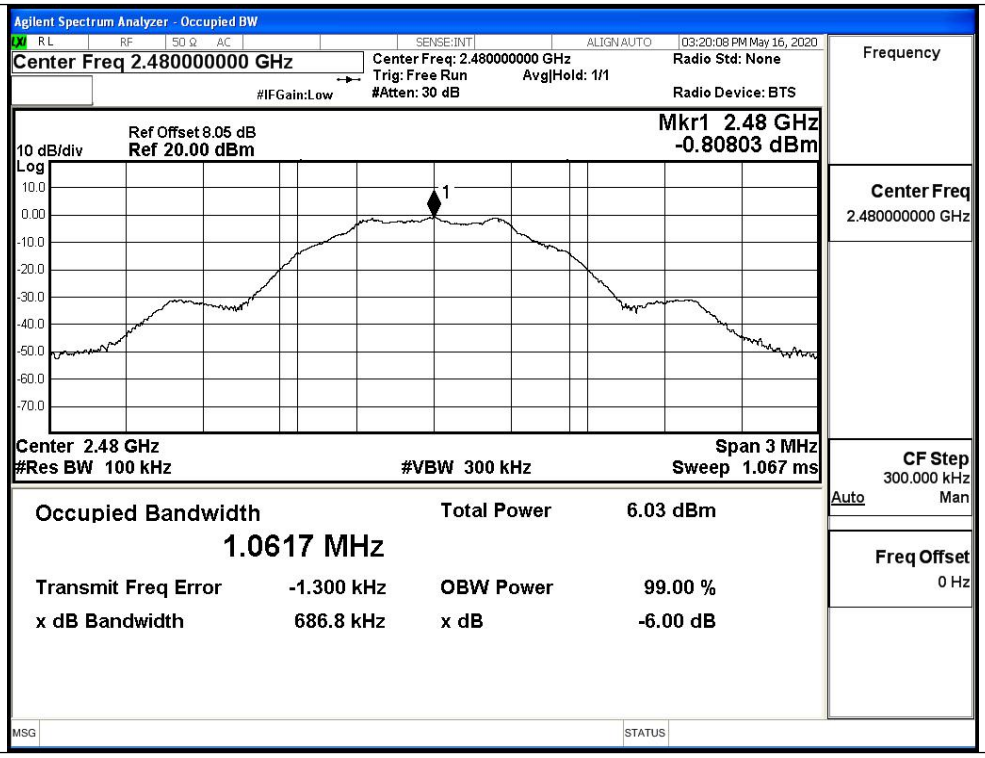
Test Graphs

LCH



MCH

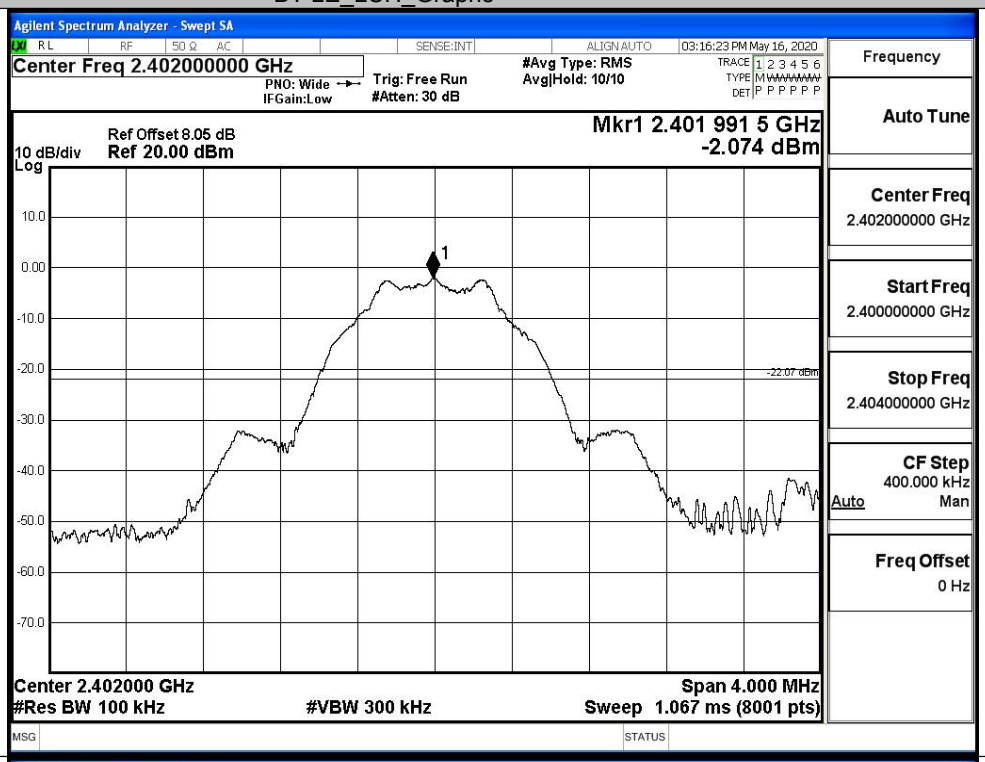
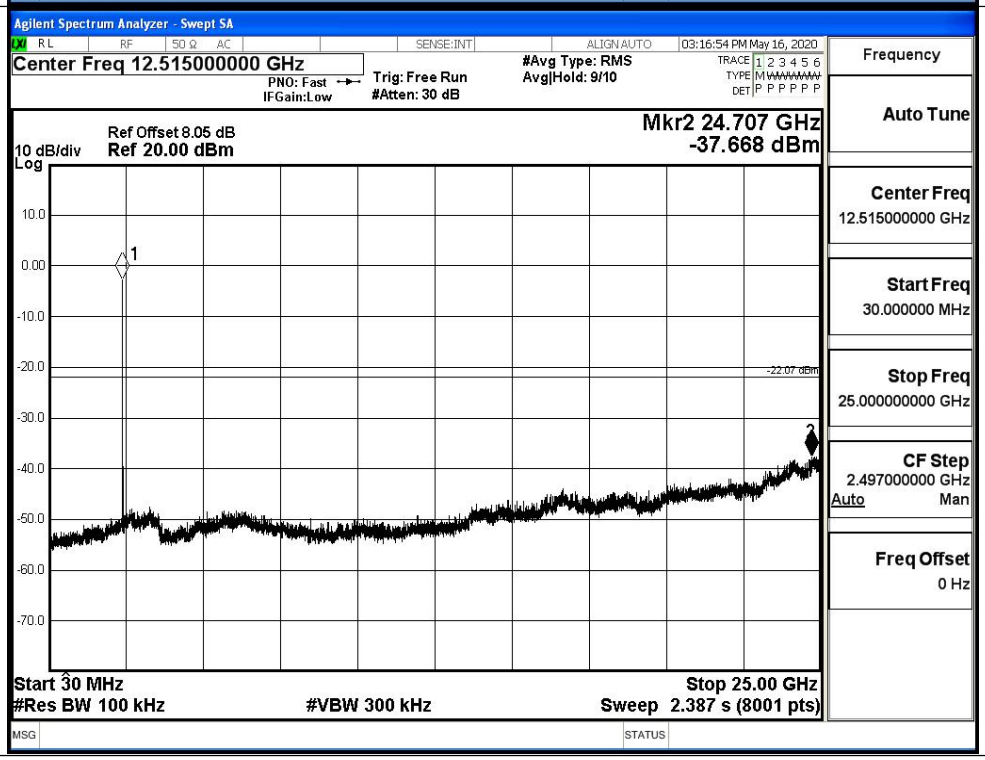


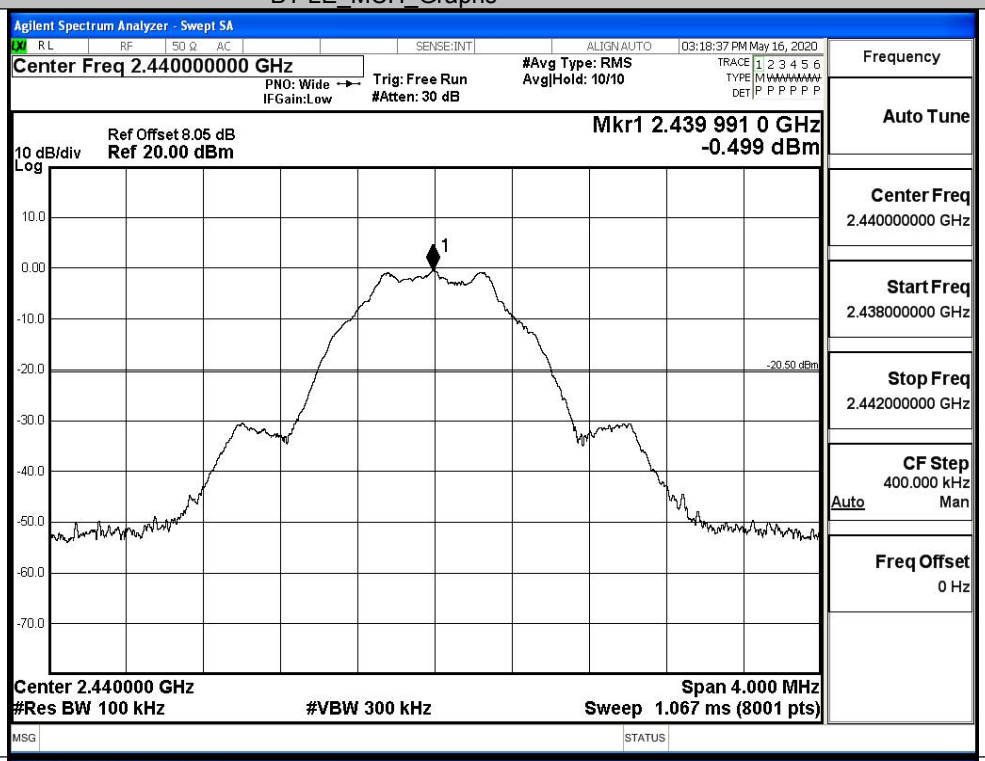
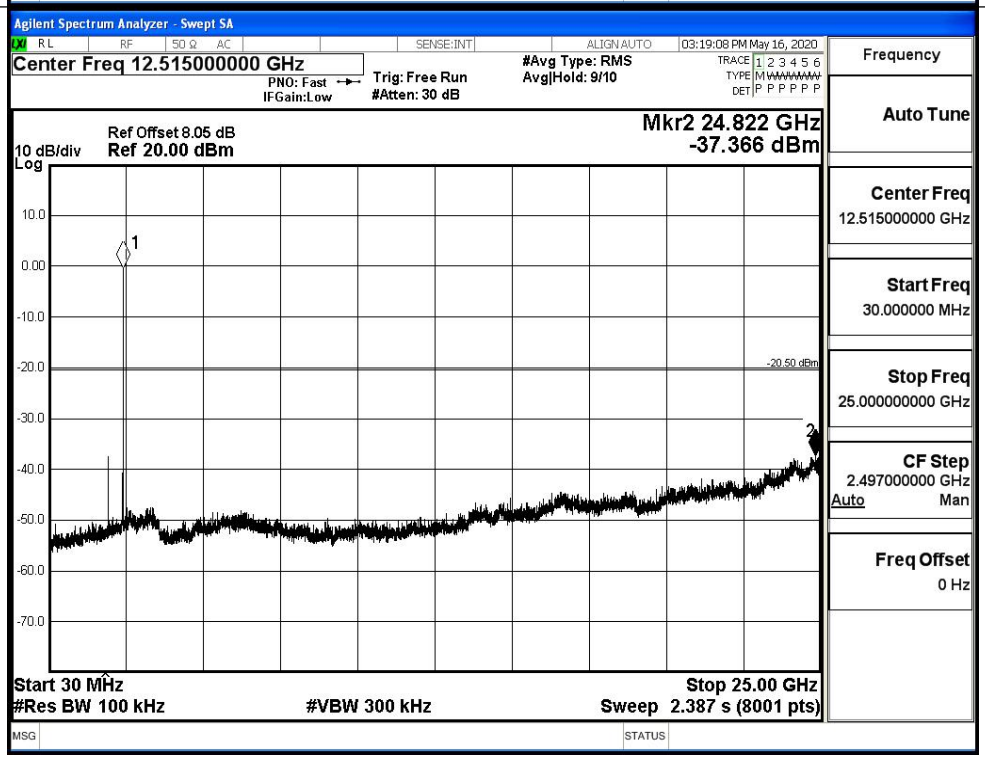
HCH		

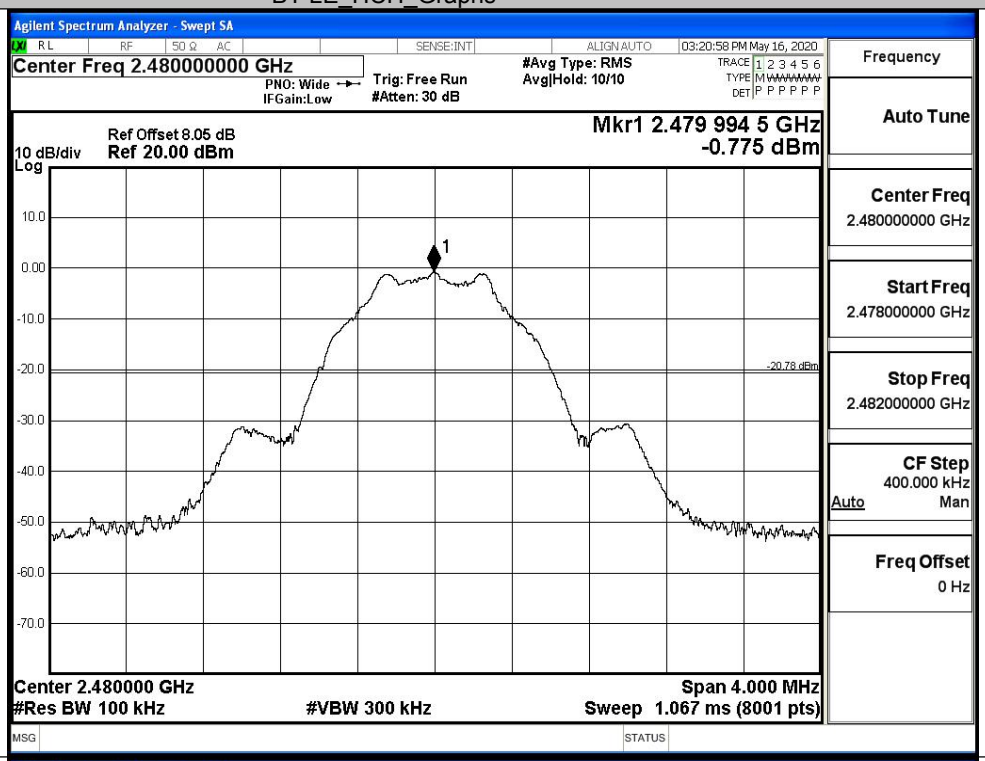
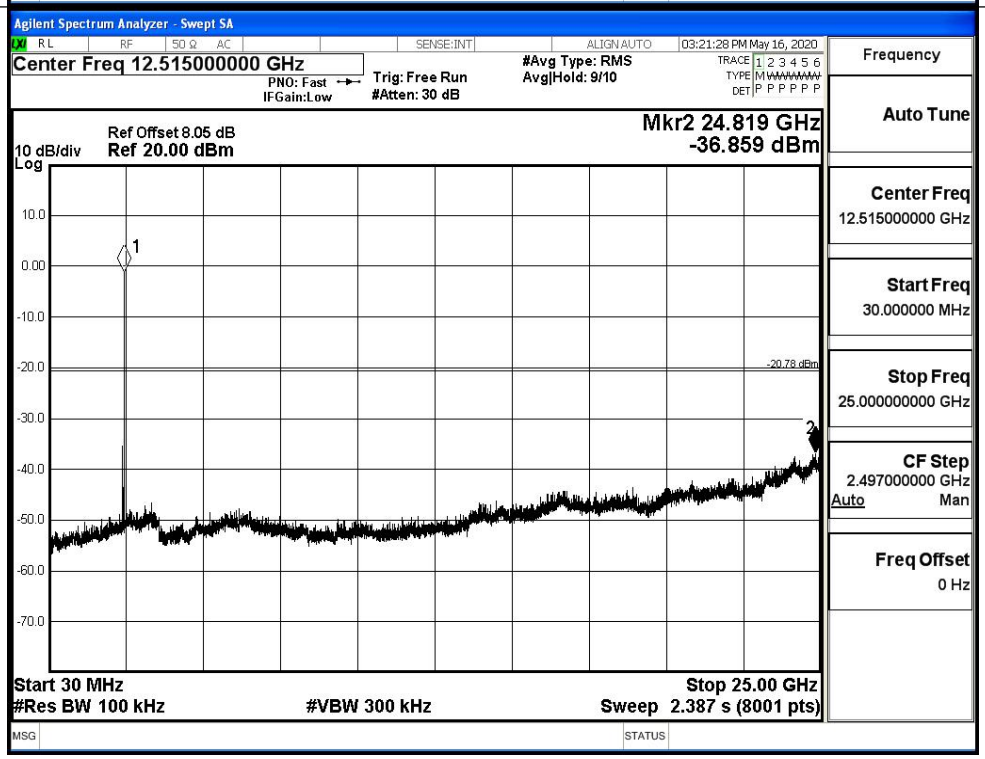
Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 1/1
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
03:20:08 PM May 16, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.48 GHz
-0.80803 dBm
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 1.067 ms
Occupied Bandwidth
1.0617 MHz
Total Power 6.03 dBm
Transmit Freq Error -1.300 kHz
OBW Power 99.00 %
x dB Bandwidth 686.8 kHz
x dB -6.00 dB
Frequency
Center Freq
2.480000000 GHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.074	-37.668	-22.074	PASS
BT LE	MCH	-0.499	-37.366	-20.499	PASS
BT LE	HCH	-0.775	-36.859	-20.775	PASS

BT LE_LCH_Graphs		
Pref/BT LE/LCH		
Puw/BT LE/LCH		

BT LE_MCH_Graphs		
Pref/BT LE/MCH		
Puw/BT LE/MCH		

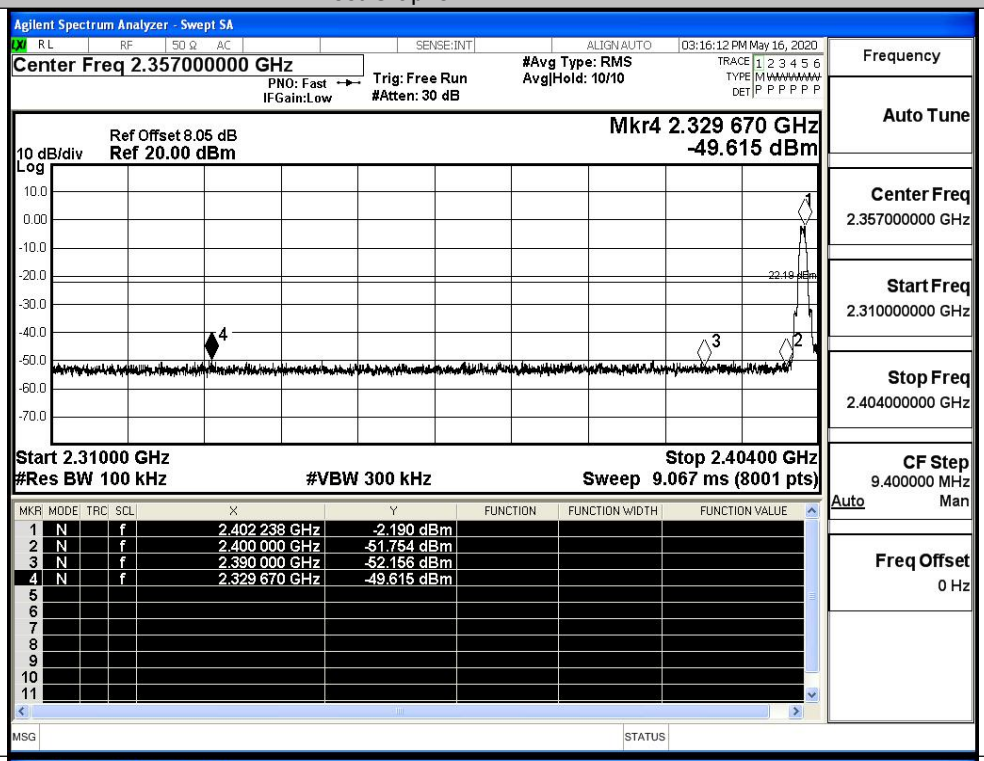
BT LE_HCH_Graphs		
Pref/BT LE/HCH		
Puw/BT LE/HCH		

B.6 Band-edge for RF Conducted Emissions

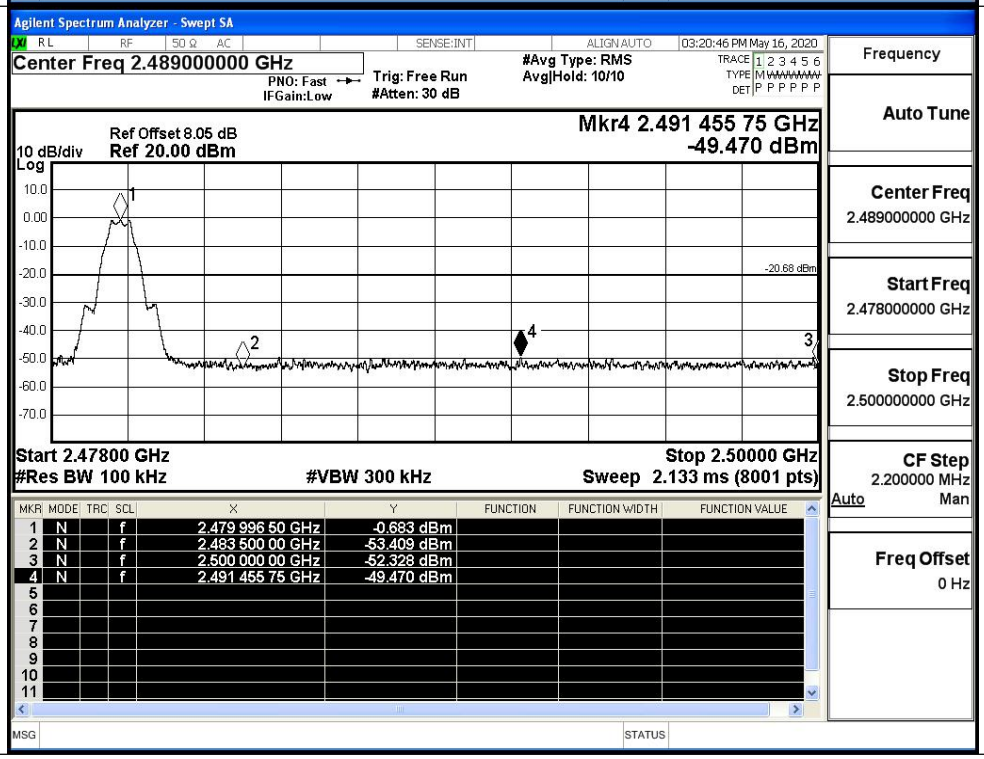
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.190	-49.615	-22.19	PASS
BT LE	HCH	-0.683	-49.470	-20.68	PASS

Test Graphs

LCH



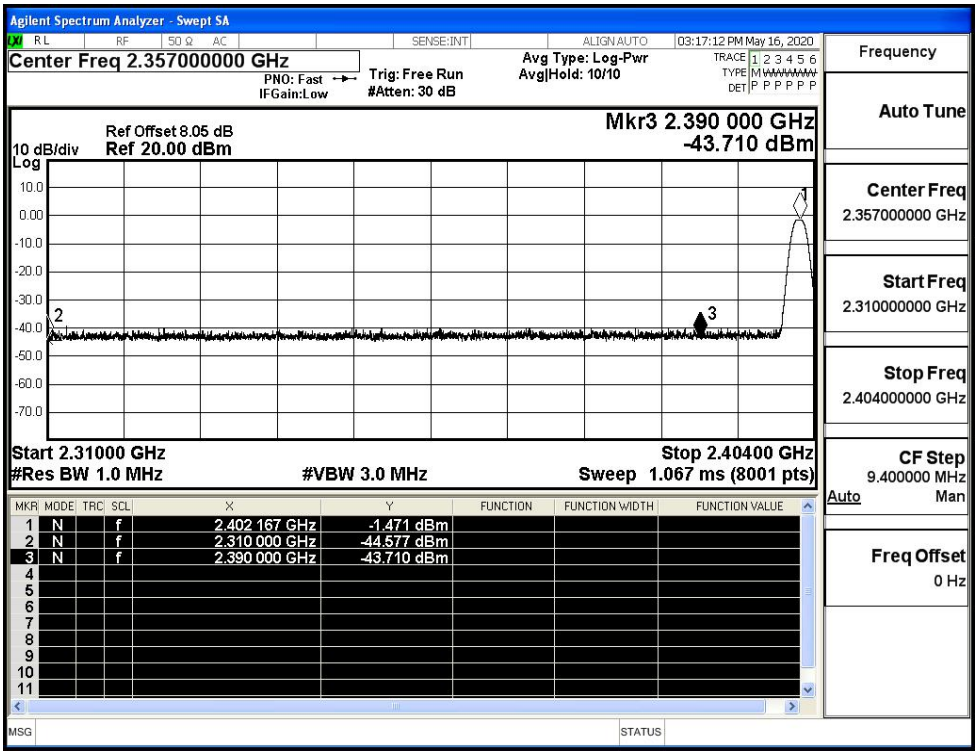
HCH



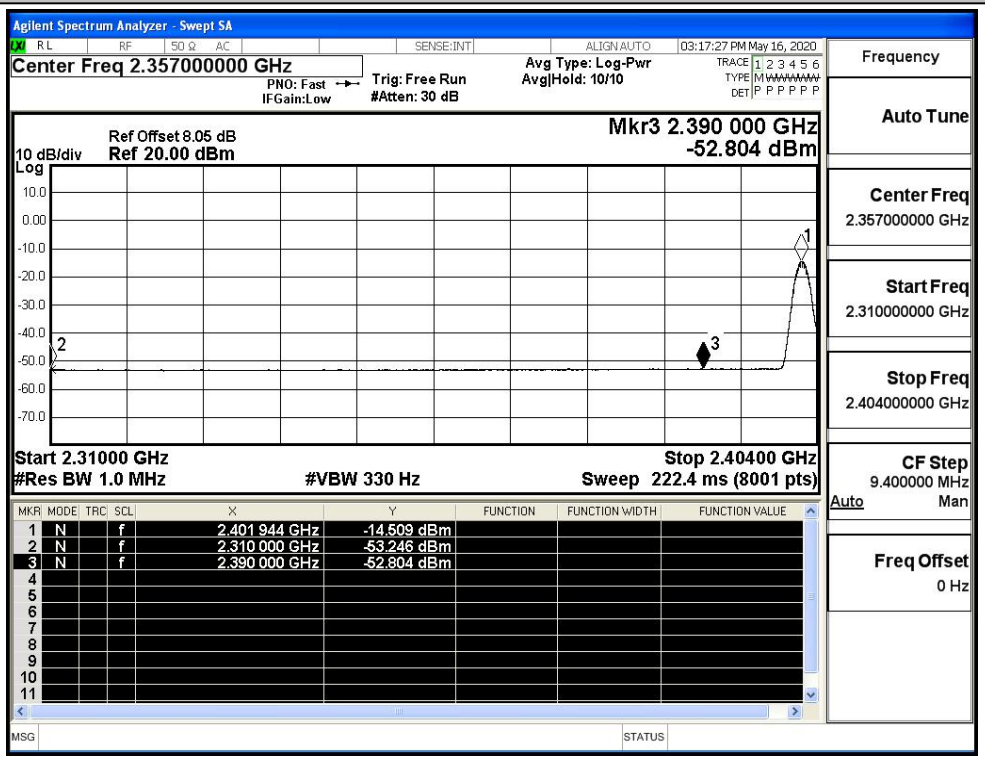
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi.
BT LE	2402	Ant1	2310.0	-44.58	2.0	0	52.65	PEAK	74	PASS
		Ant1	2310.0	-53.25	2.0	0	43.98	AV	54	PASS
		Ant1	2390.0	-43.71	2.0	0	53.52	PEAK	74	PASS
		Ant1	2390.0	-52.80	2.0	0	44.43	AV	54	PASS
	2480	Ant1	2483.5	-41.32	2.0	0	55.91	PEAK	74	PASS
		Ant1	2483.5	-52.34	2.0	0	44.89	AV	54	PASS
		Ant1	2500.0	-41.30	2.0	0	55.93	PEAK	74	PASS
		Ant1	2500.0	-52.22	2.0	0	45.01	AV	54	PASS

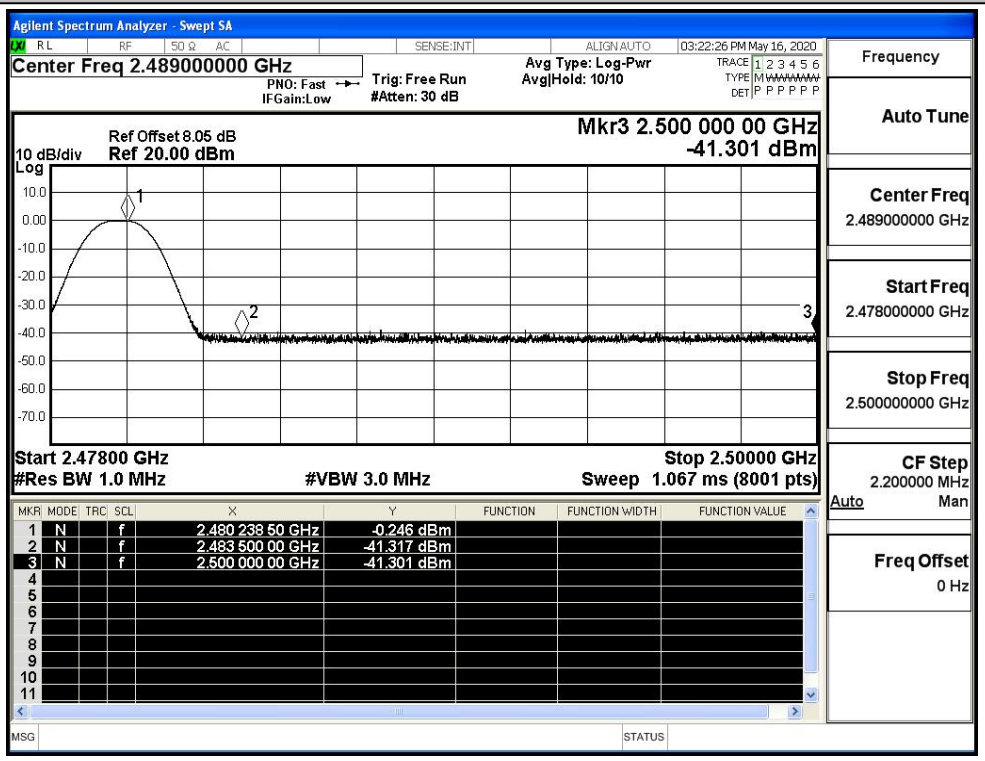
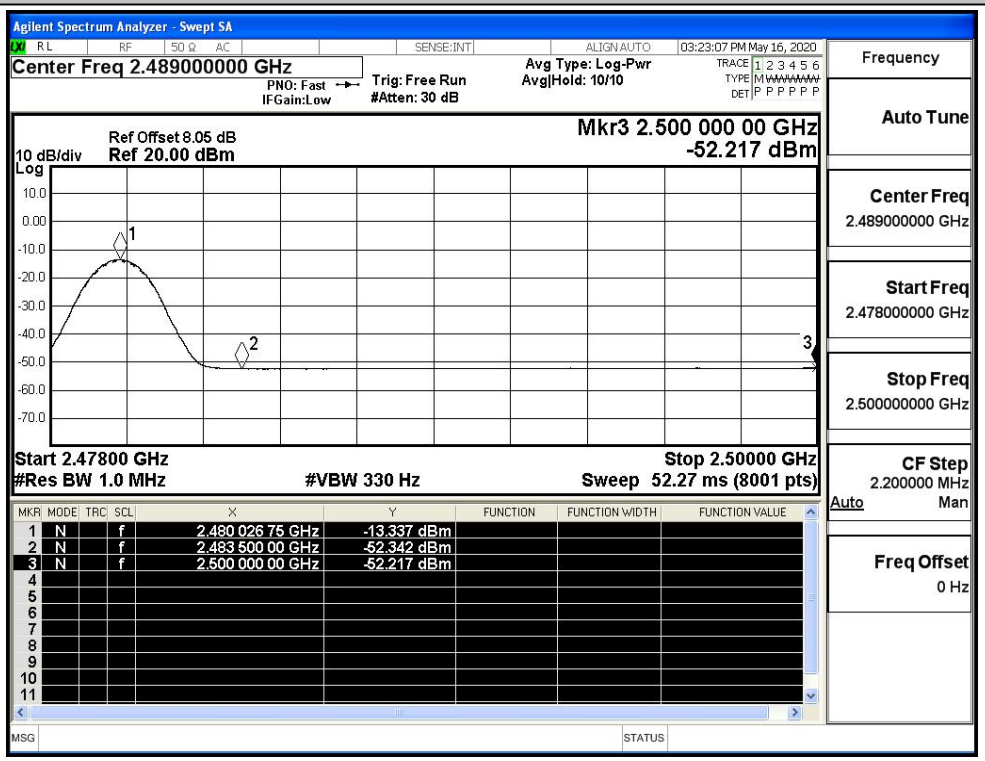
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV