

Appendix B

RF Test Data for BT LE V5.0 (Conducted Measurement)

Product Name: t-Seven True Wireless

Trade Mark: Jays

Test Model: T7TW01

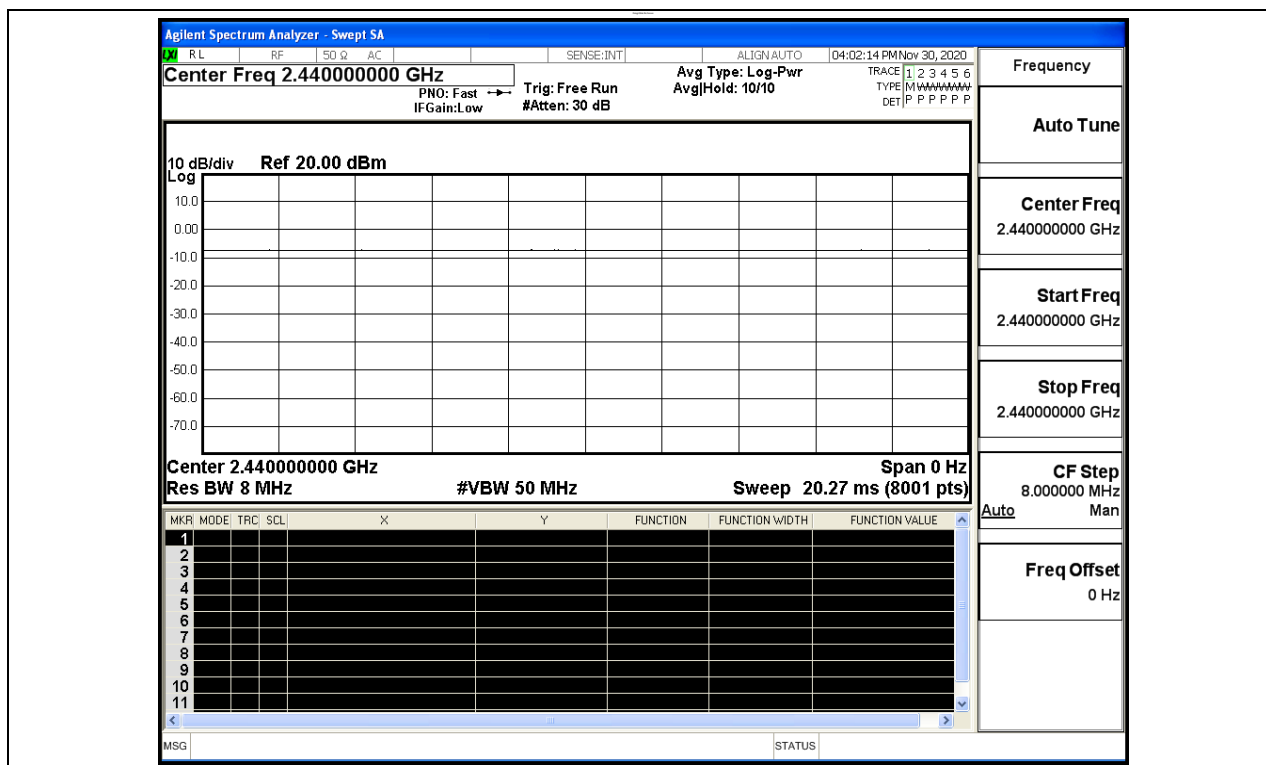
Environmental Conditions

Temperature:	22.2° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

B.1 Duty Cycle

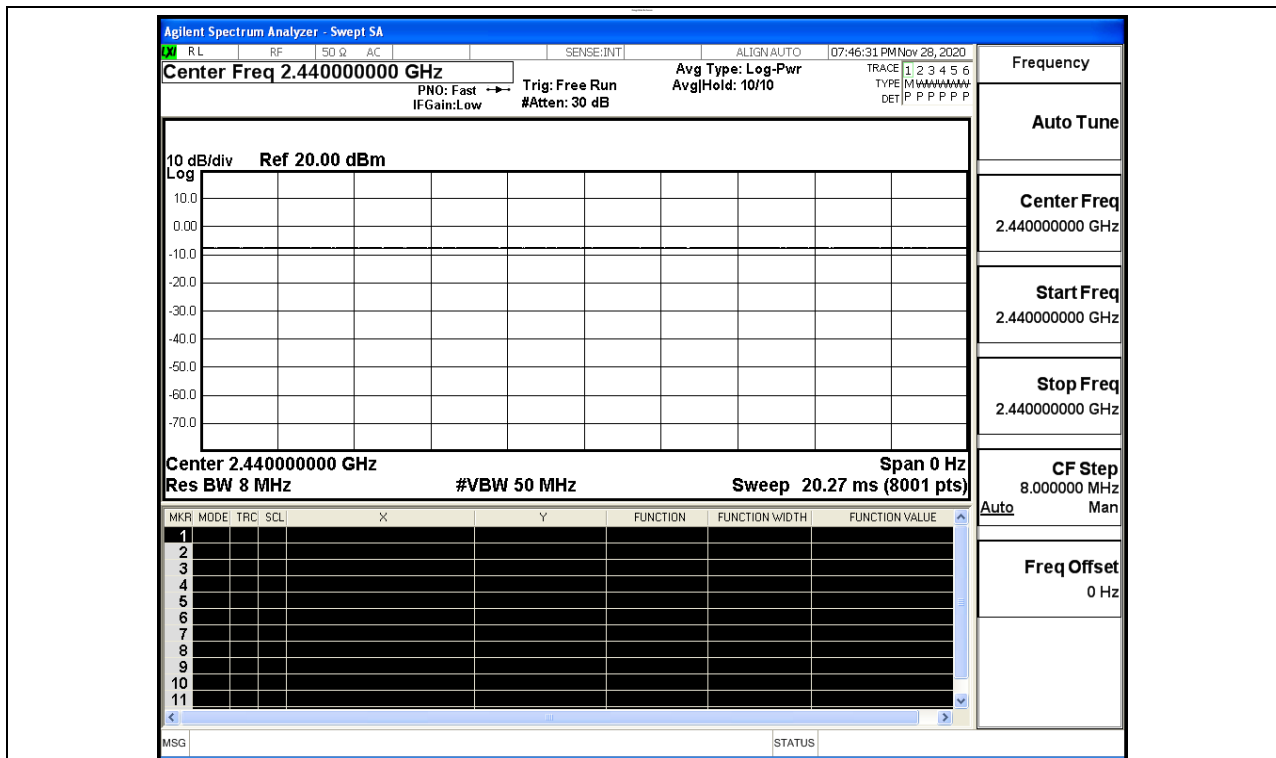
Right

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



Left

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



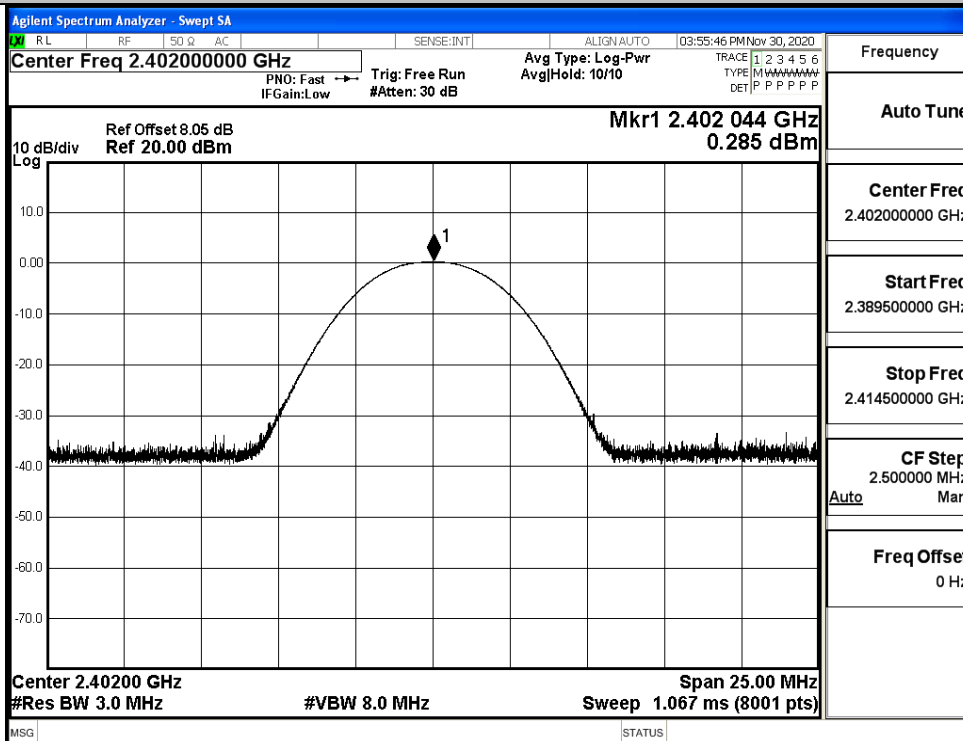
B.2 Maximum Conducted Peak Output Power

Right

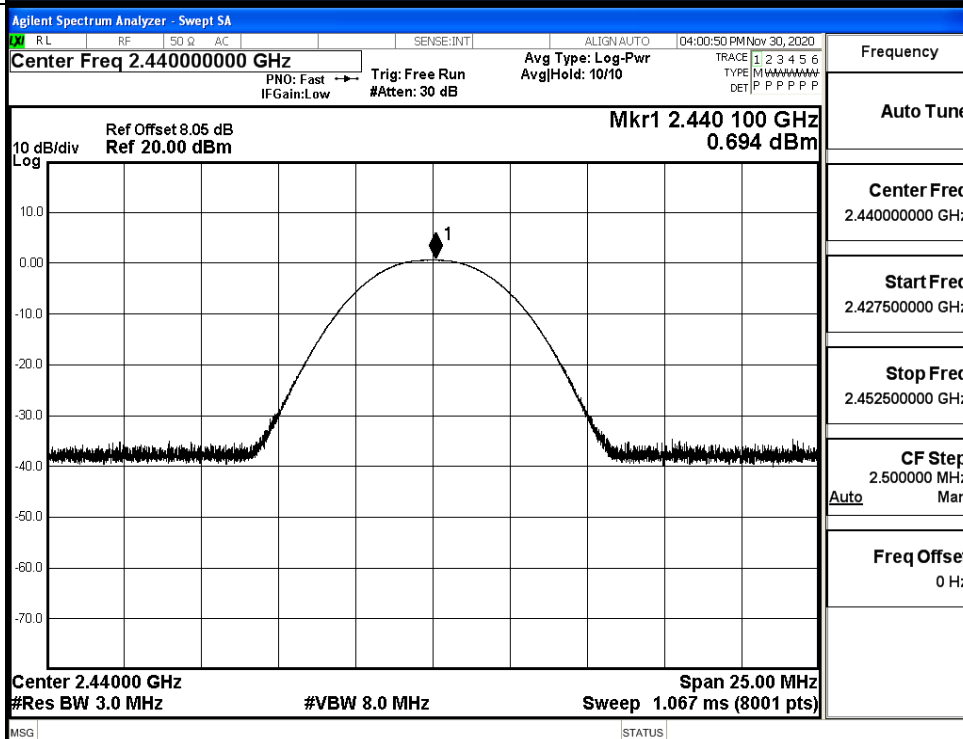
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.285	30	PASS
BT LE	MCH	0.694	30	PASS
BT LE	HCH	0.460	30	PASS

Test Graphs

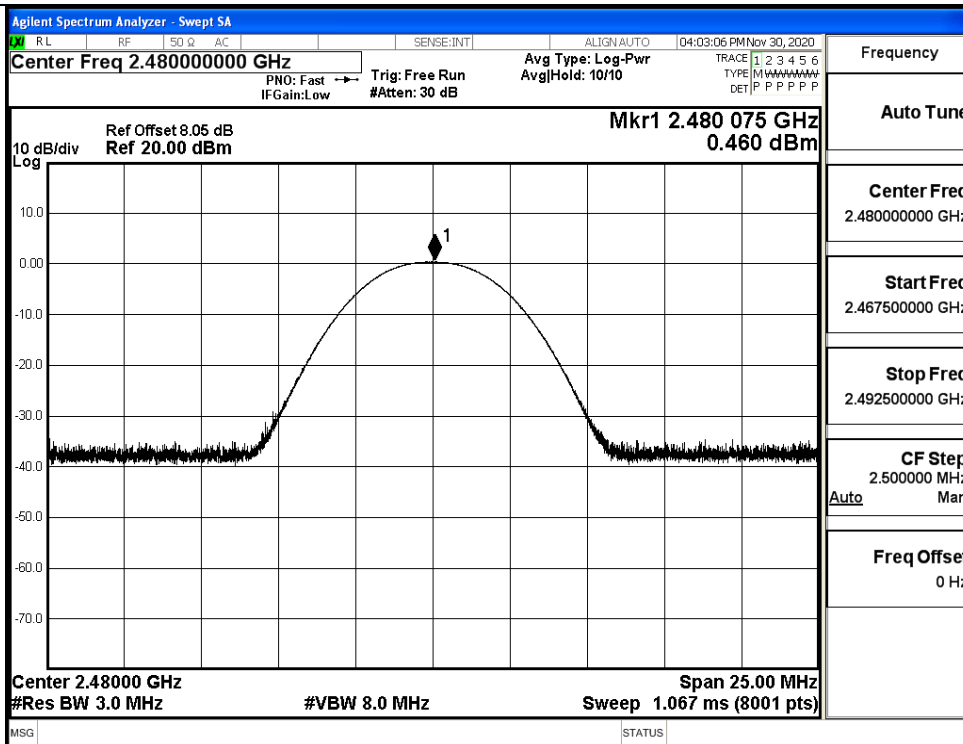
LCH



MCH



HCH

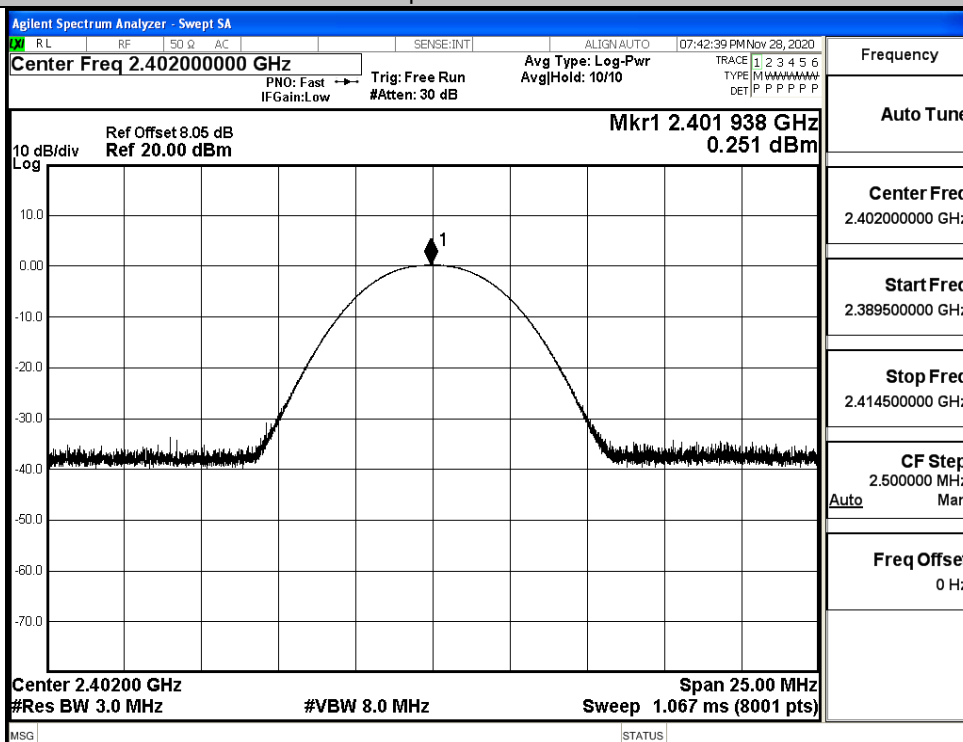


Left

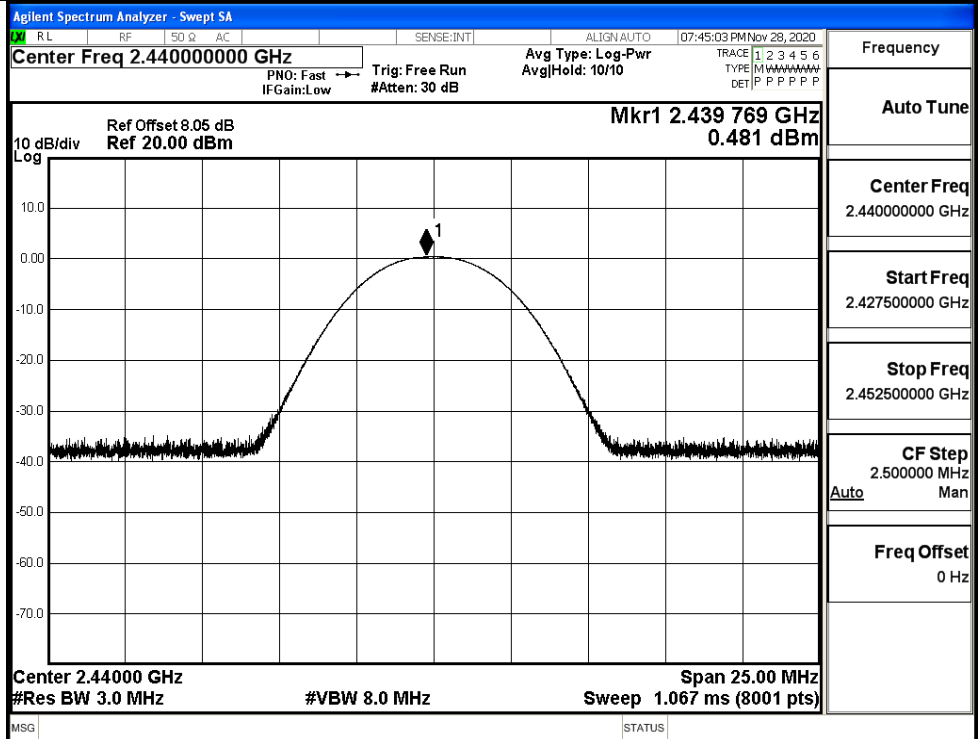
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.251	30	PASS
BT LE	MCH	0.481	30	PASS
BT LE	HCH	-0.245	30	PASS

Test Graphs

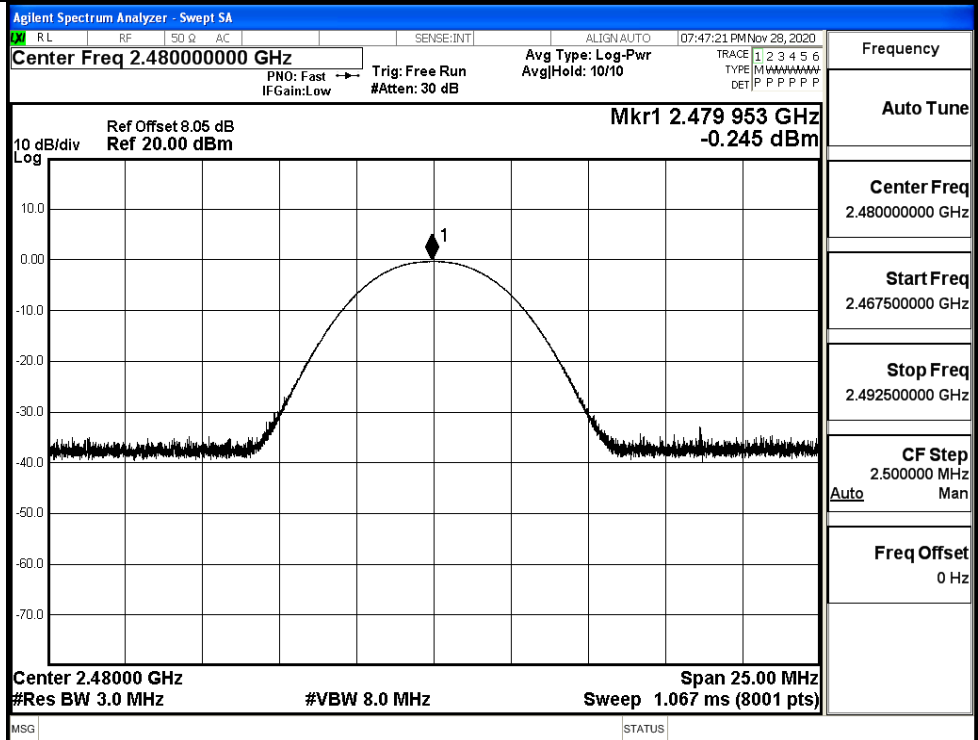
LCH



MCH



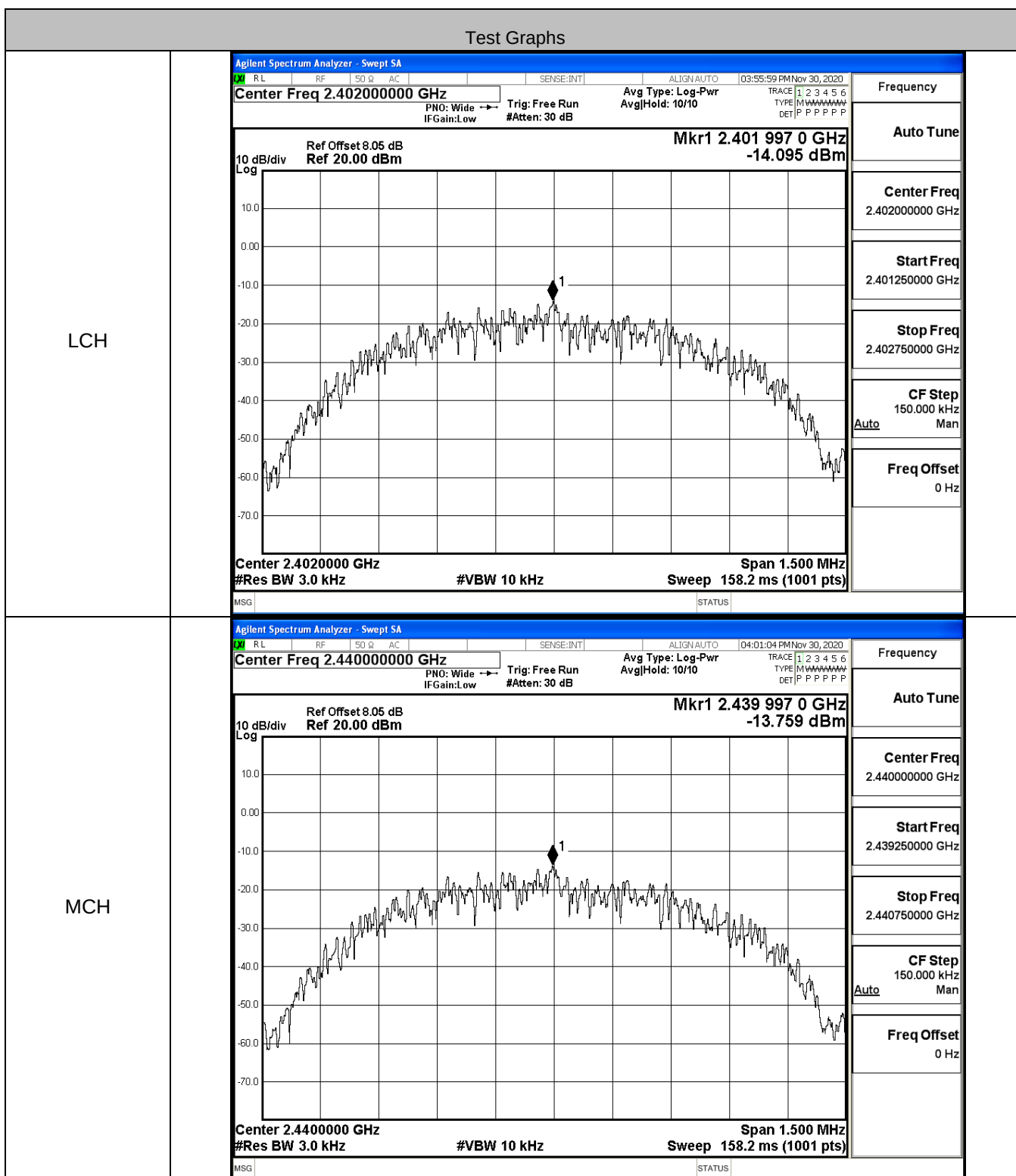
HCH



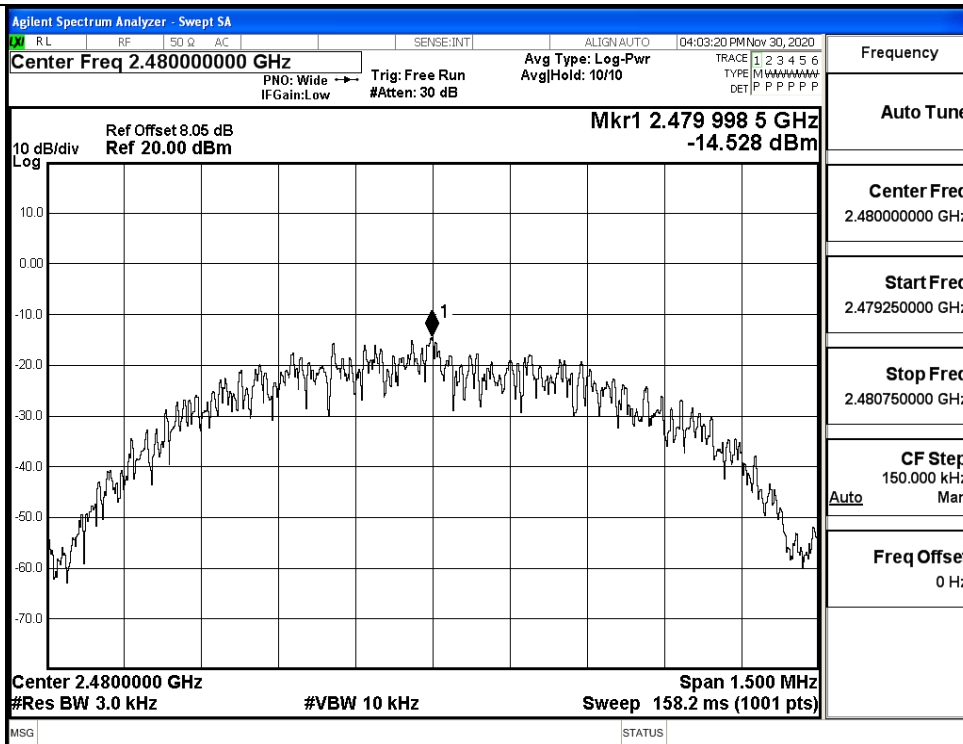
B.3 Maximum Power Spectral Density

Right

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.095	8	PASS
BT LE	MCH	-13.759	8	PASS
BT LE	HCH	-14.528	8	PASS



HCH

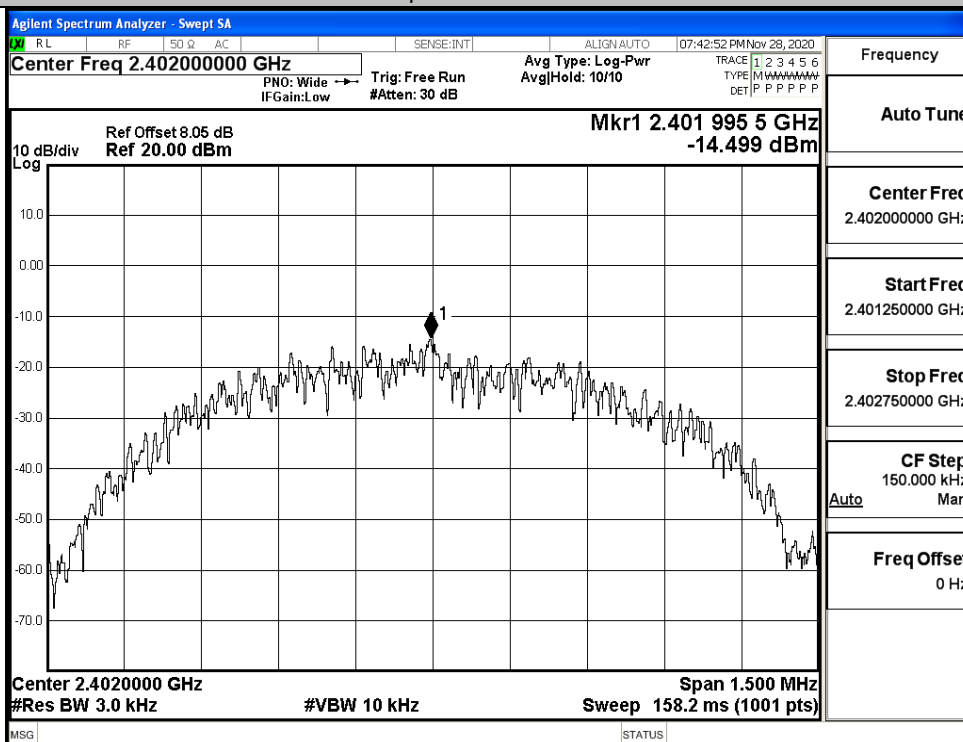


Left

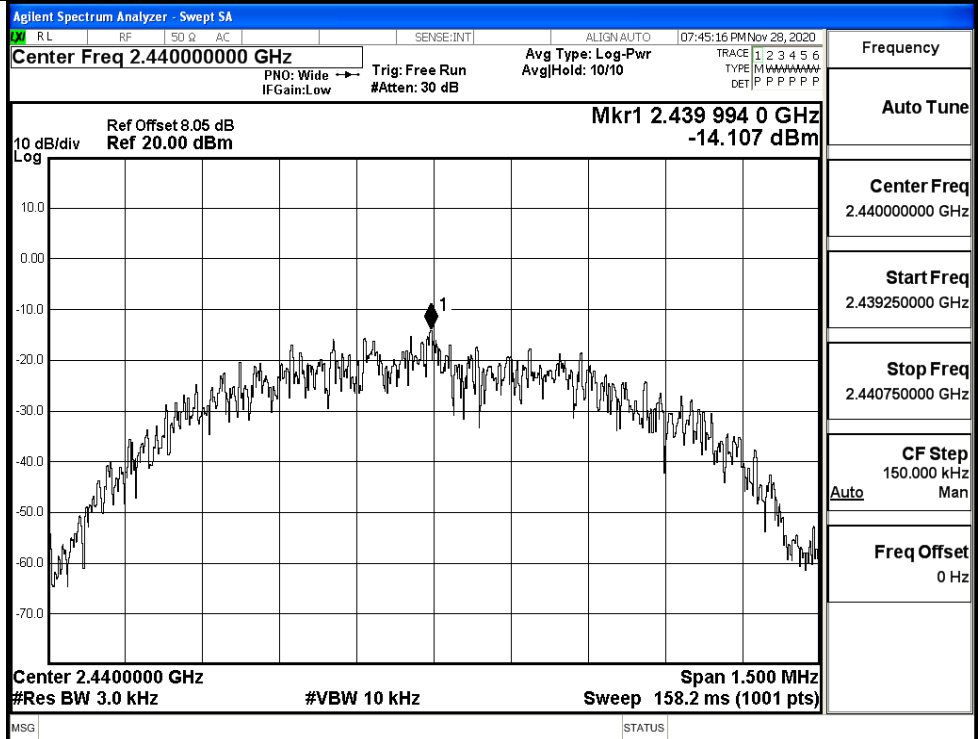
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.499	8	PASS
BT LE	MCH	-14.107	8	PASS
BT LE	HCH	-15.399	8	PASS

Test Graphs

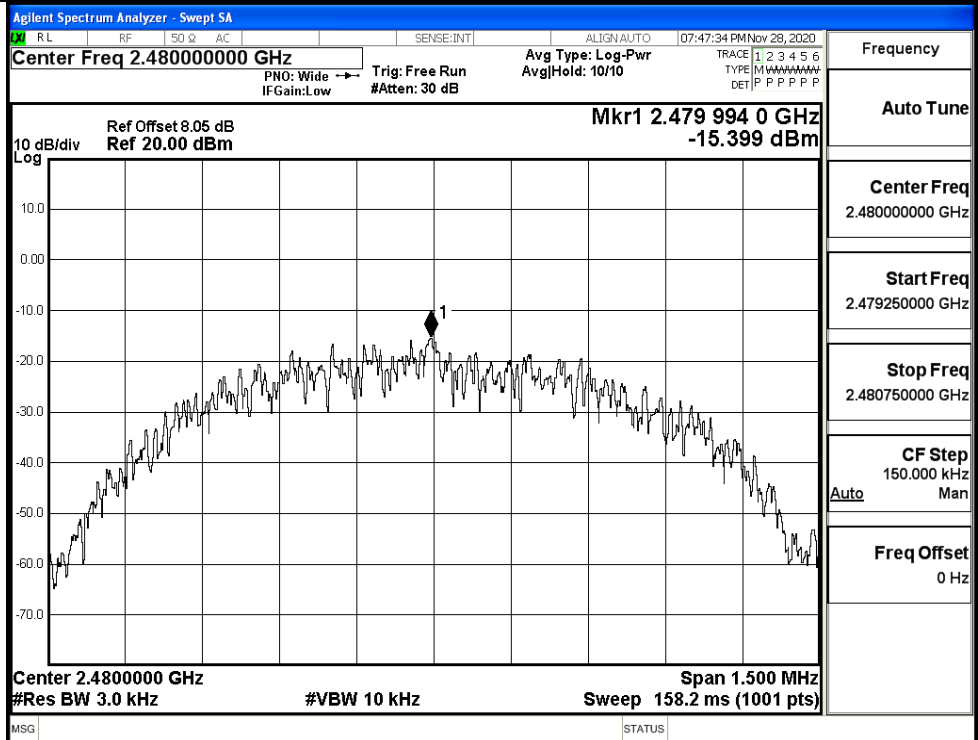
LCH



MCH



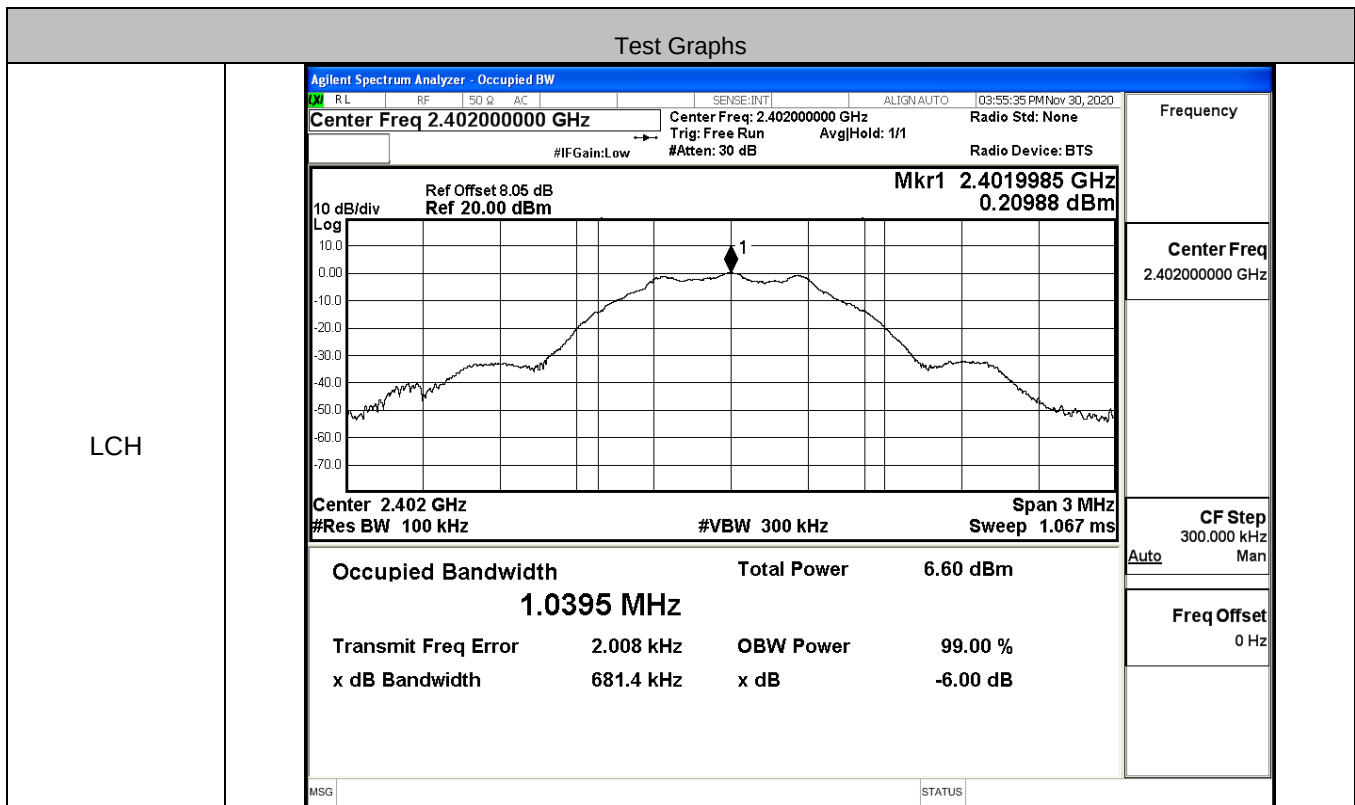
HCH



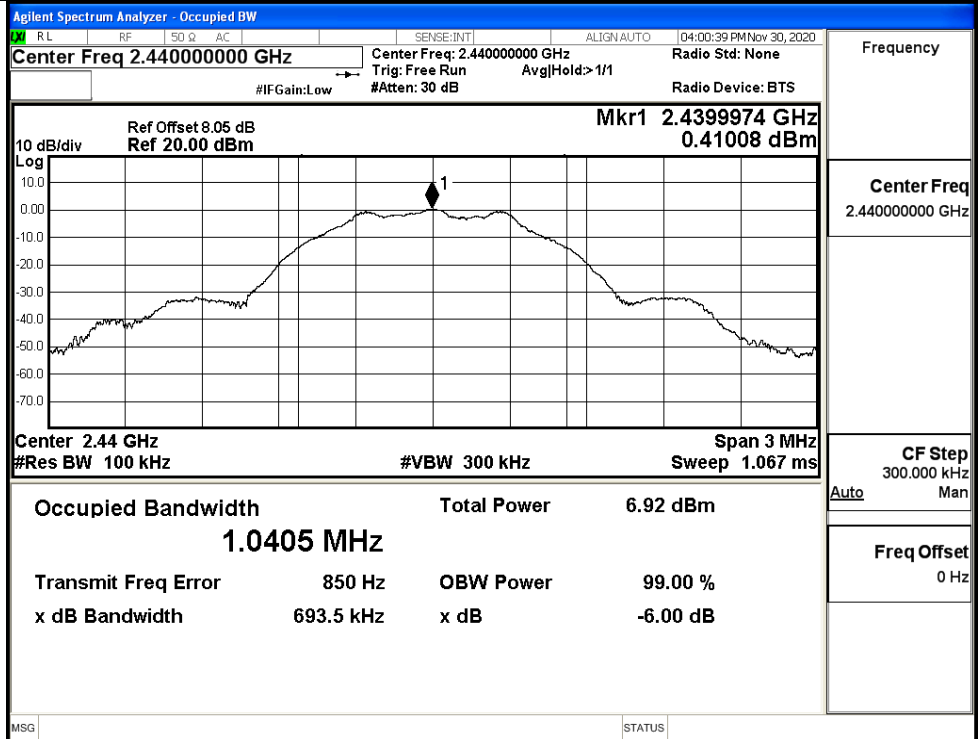
B.4 6dB Bandwidth

Right

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6814	≥ 0.5	PASS
BT LE	MCH	0.6935	≥ 0.5	PASS
BT LE	HCH	0.6946	≥ 0.5	PASS



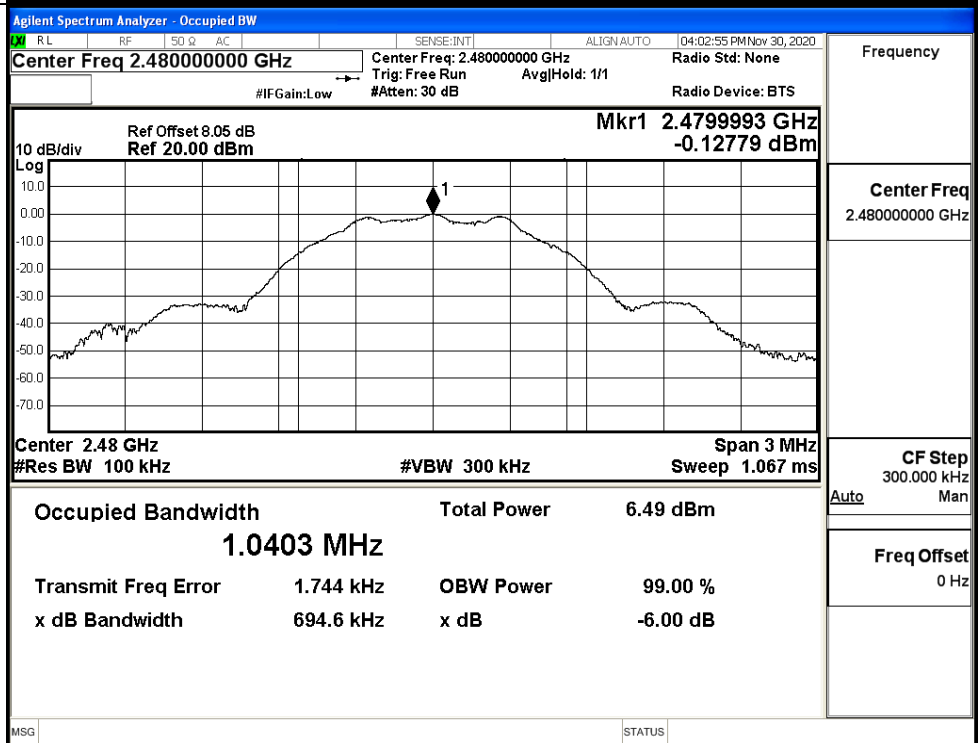
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

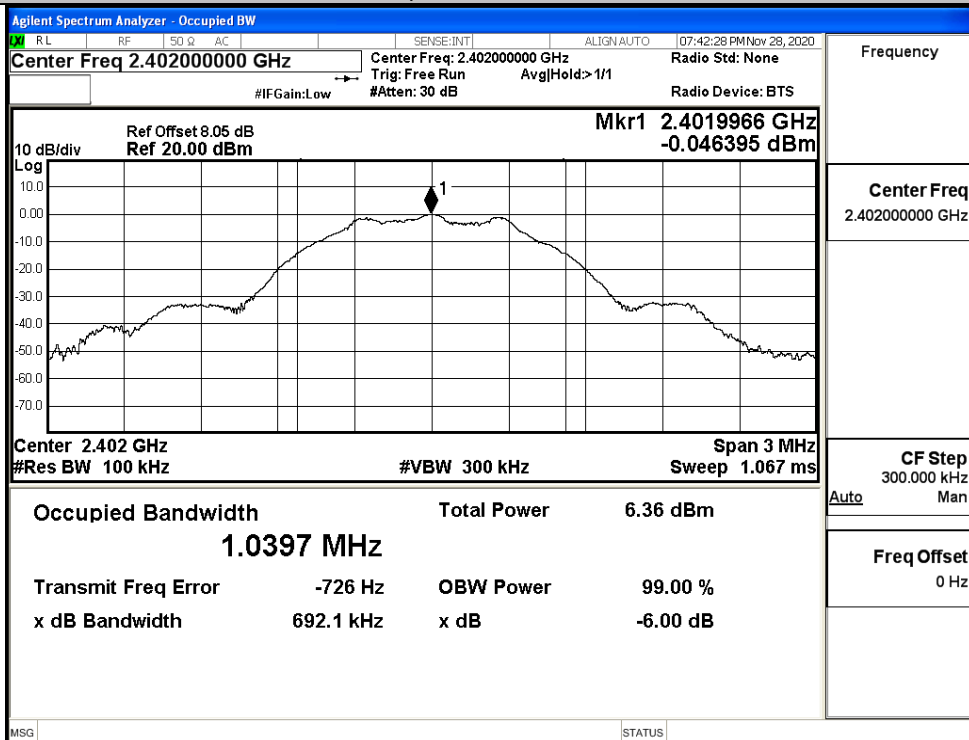
Center Freq
2.480000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

Left

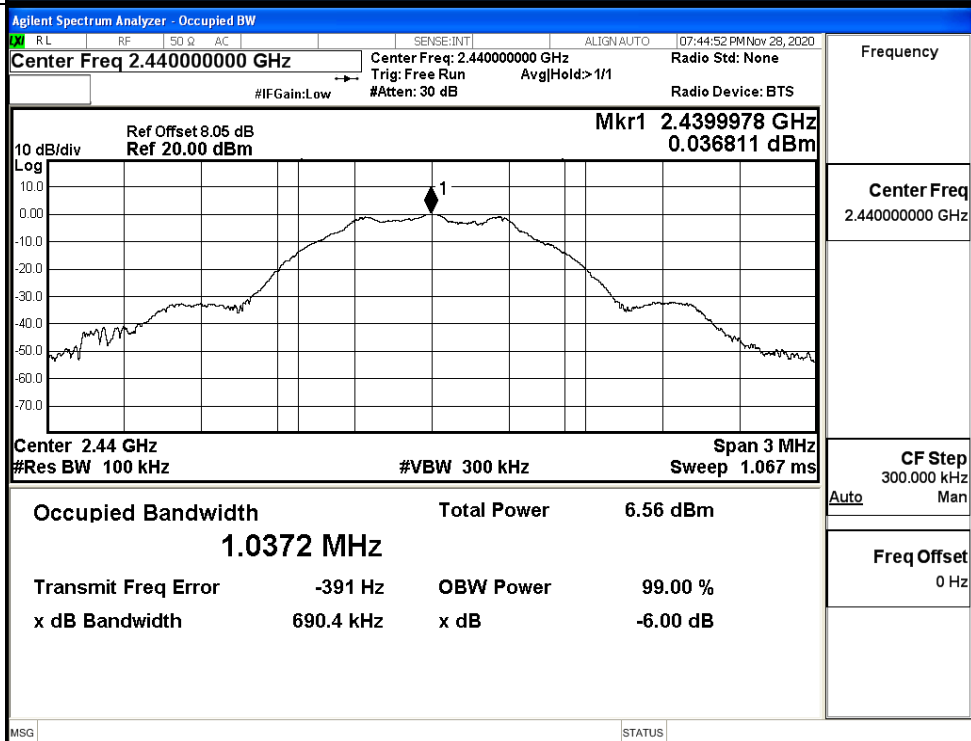
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6921	≥ 0.5	PASS
BT LE	MCH	0.6904	≥ 0.5	PASS
BT LE	HCH	0.6920	≥ 0.5	PASS

Test Graphs

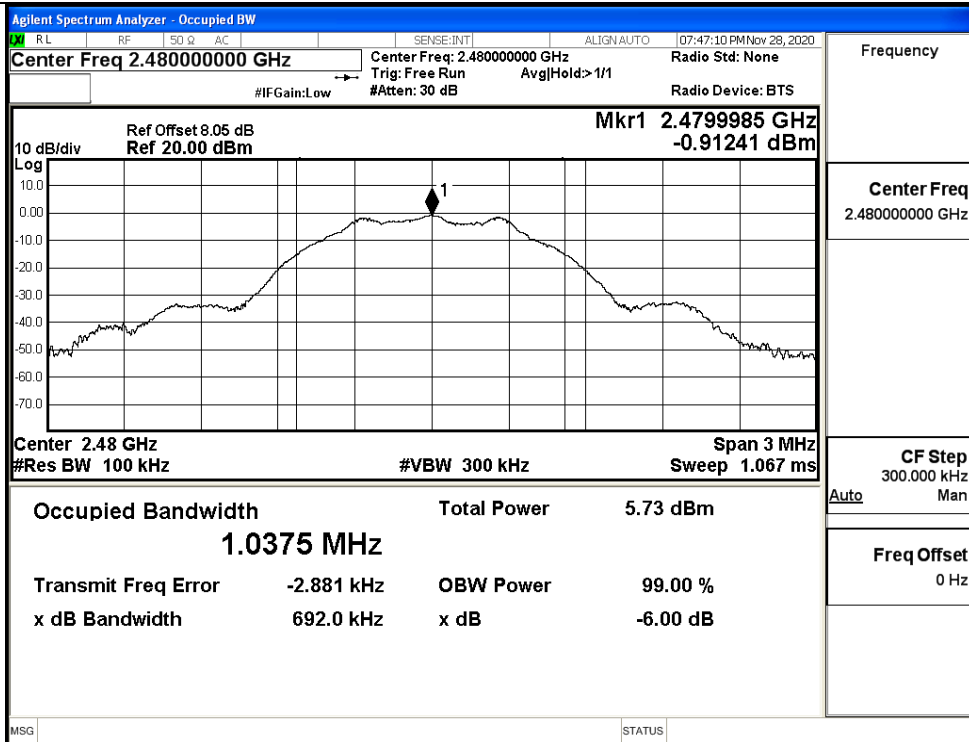
LCH



MCH



HCH



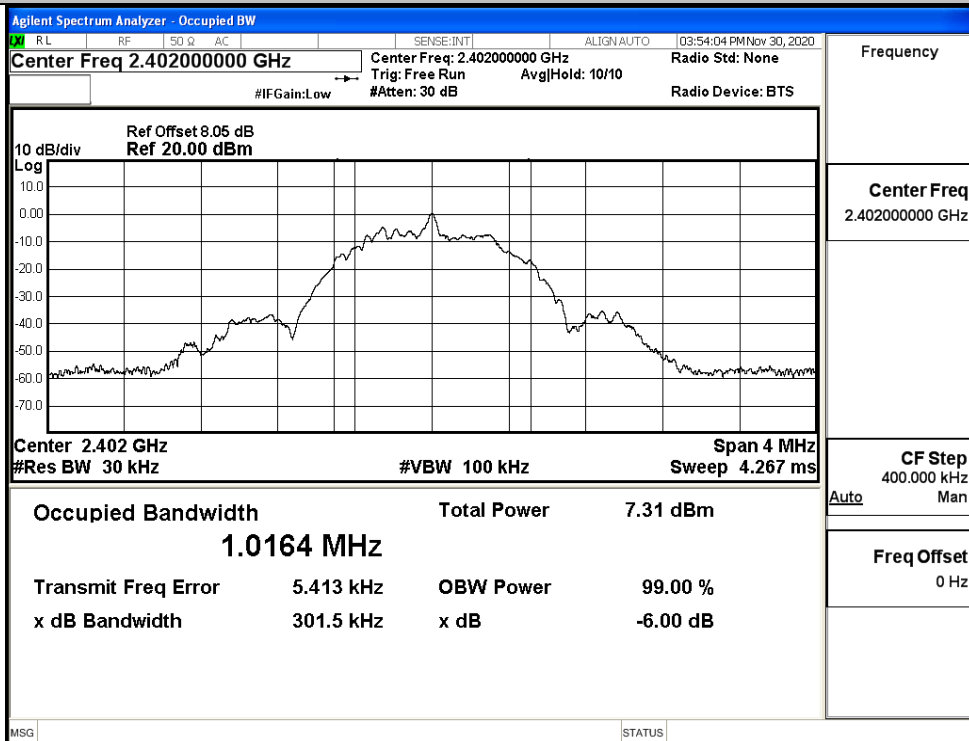
B.5 Occupied Bandwidth

Right

Mode	Channel	Occupied Bandwidth [MHz]	Verdict
BT LE	LCH	1.0164	PASS
BT LE	MCH	1.0170	PASS
BT LE	HCH	1.0167	PASS

Test Graphs

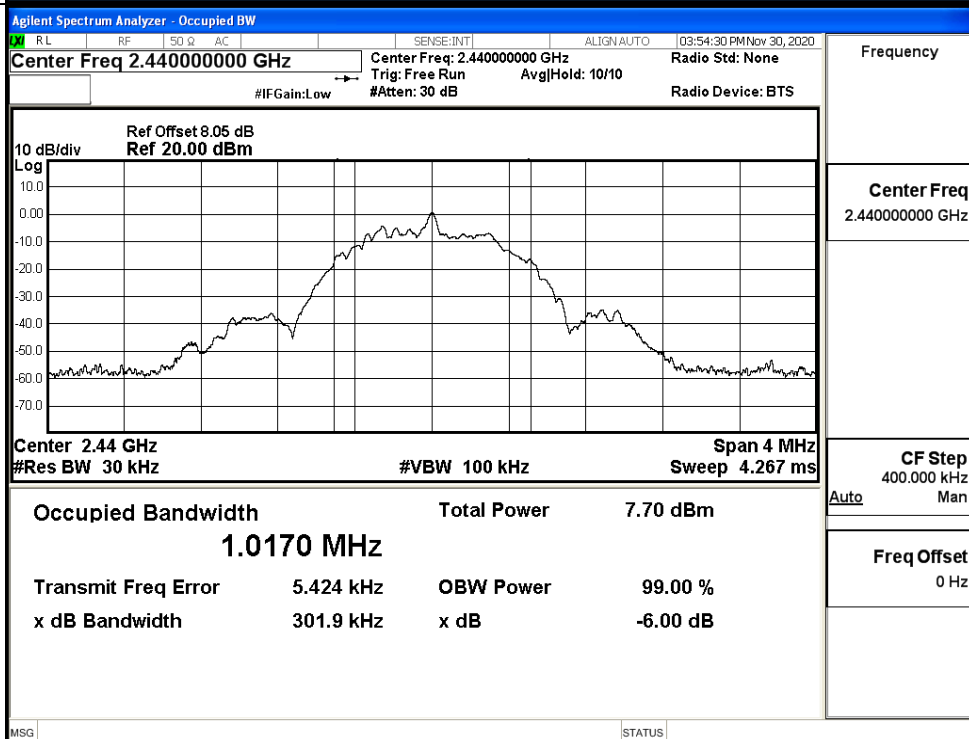
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

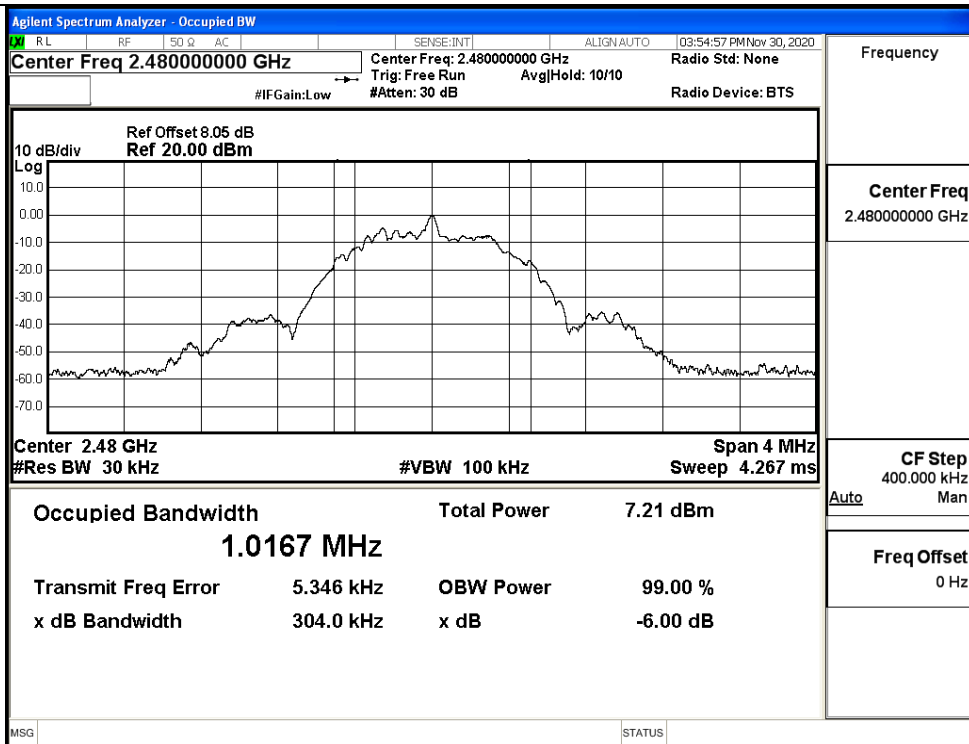
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

HCH

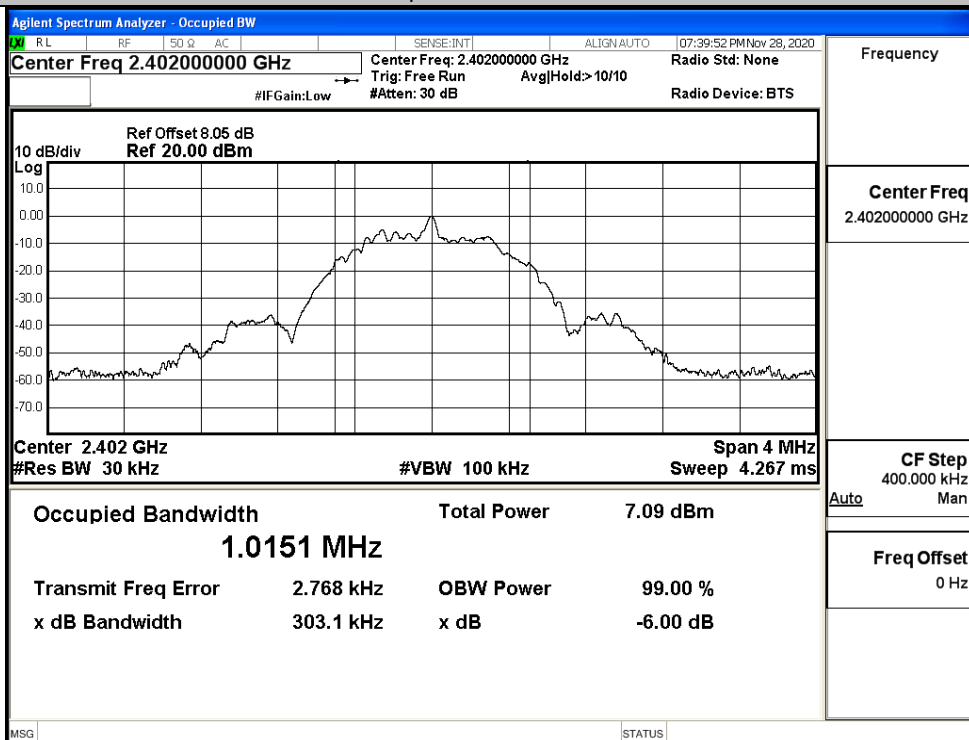


Left

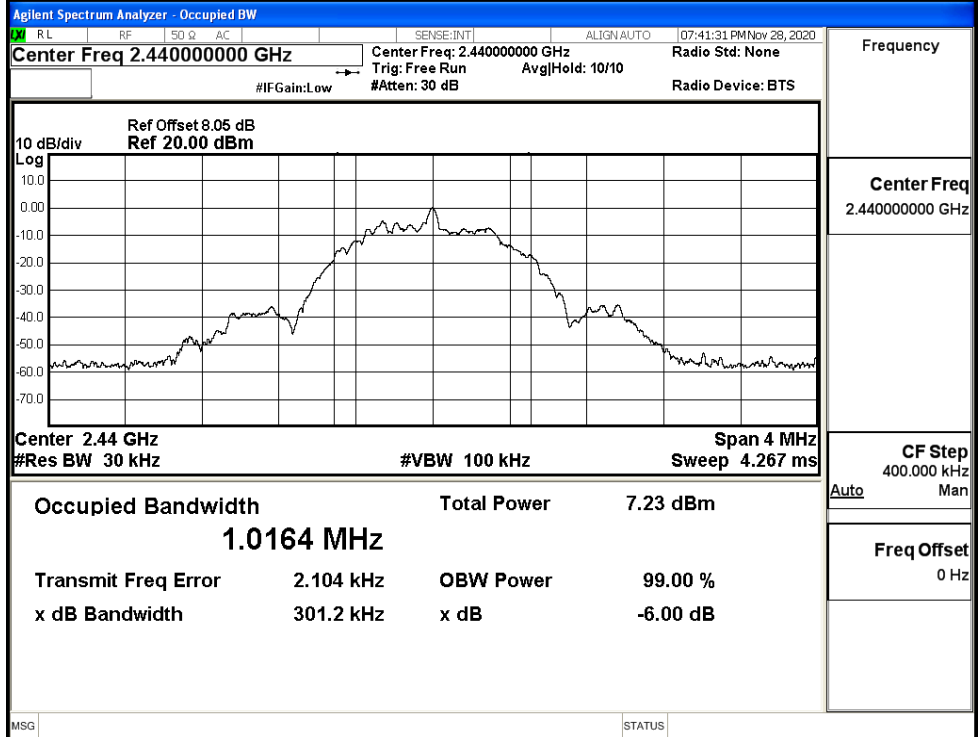
Mode	Channel	Occupied Bandwidth [MHz]	Verdict
BT LE	LCH	1.0151	PASS
BT LE	MCH	1.0164	PASS
BT LE	HCH	1.0155	PASS

Test Graphs

LCH



MCH



HCH



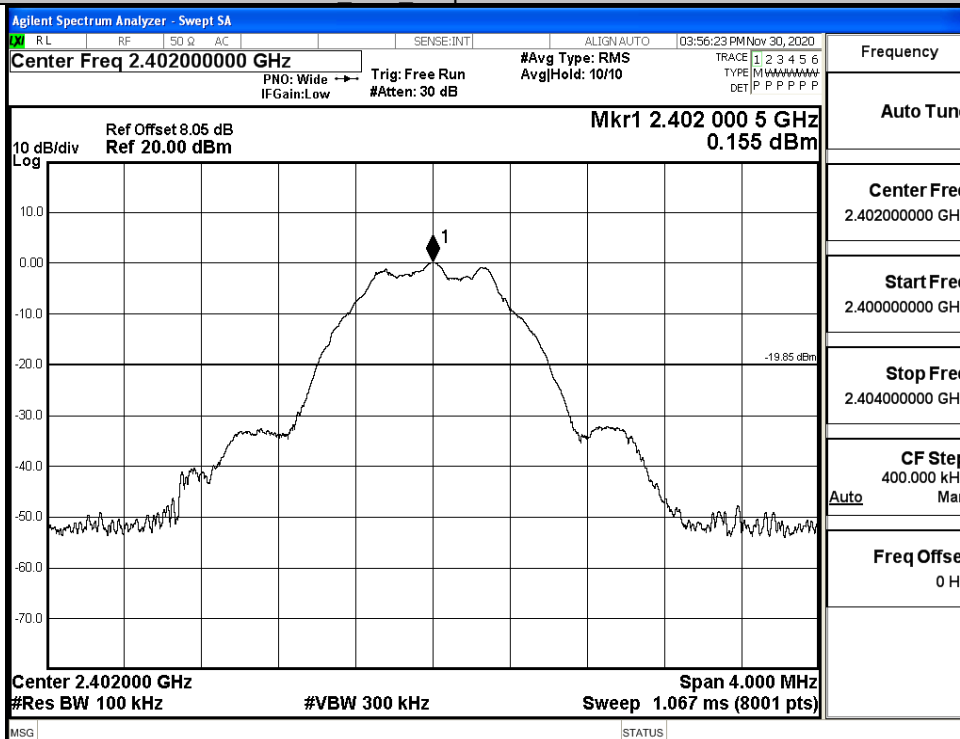
B.6 RF Conducted Spurious Emissions

Right

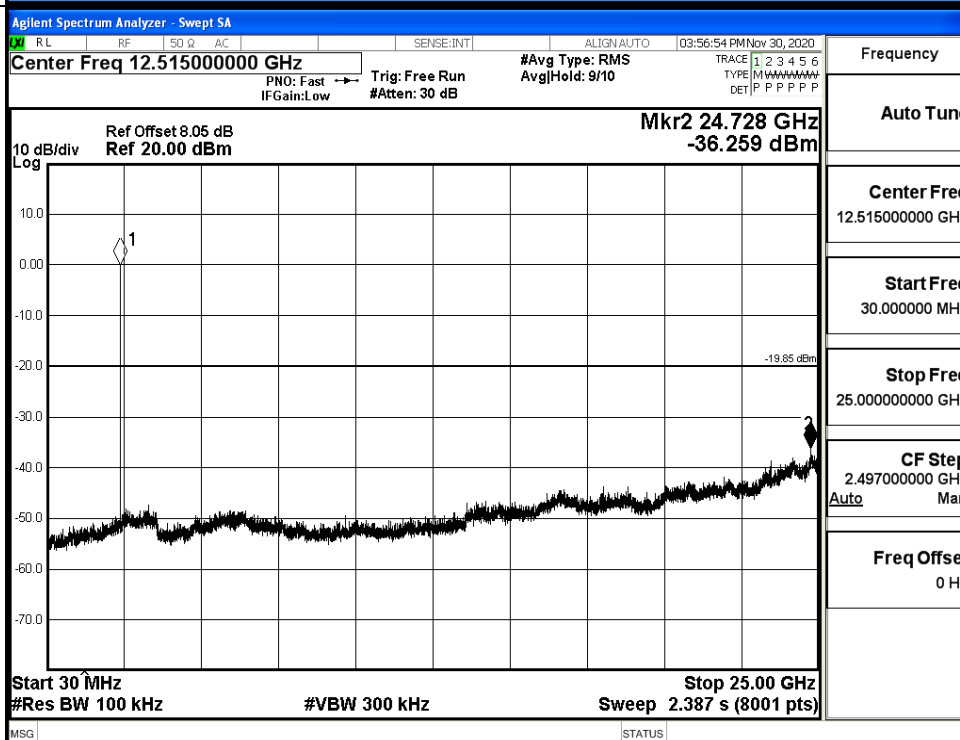
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.155	-36.259	-19.845	PASS
BT LE	MCH	0.394	-37.357	-19.606	PASS
BT LE	HCH	-0.142	-37.805	-20.142	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

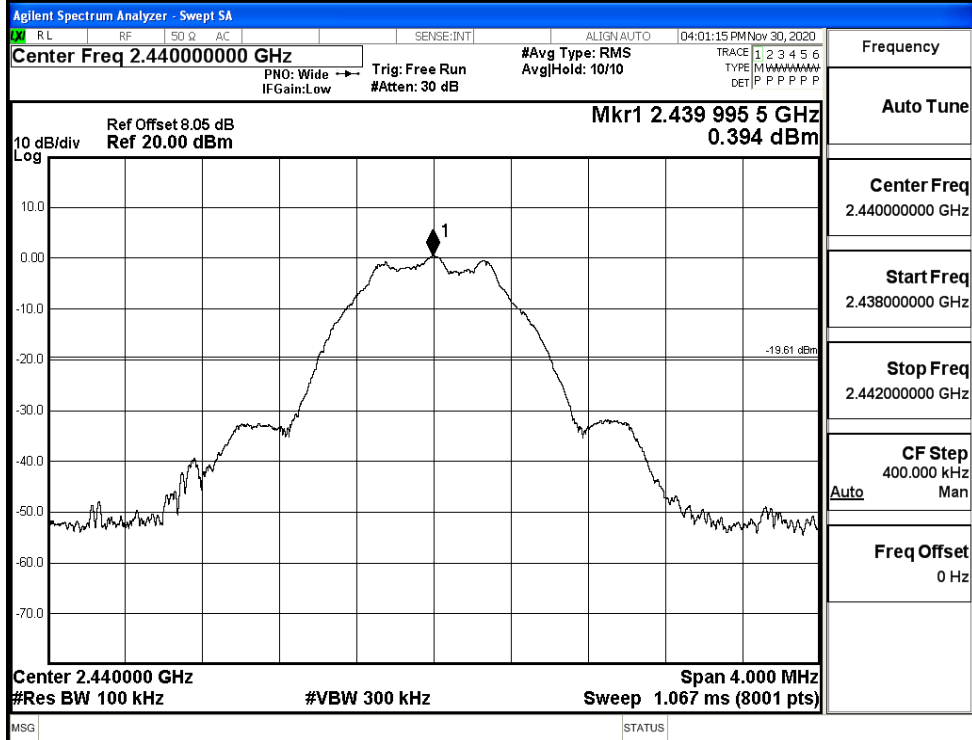


Puw/BT LE/LCH

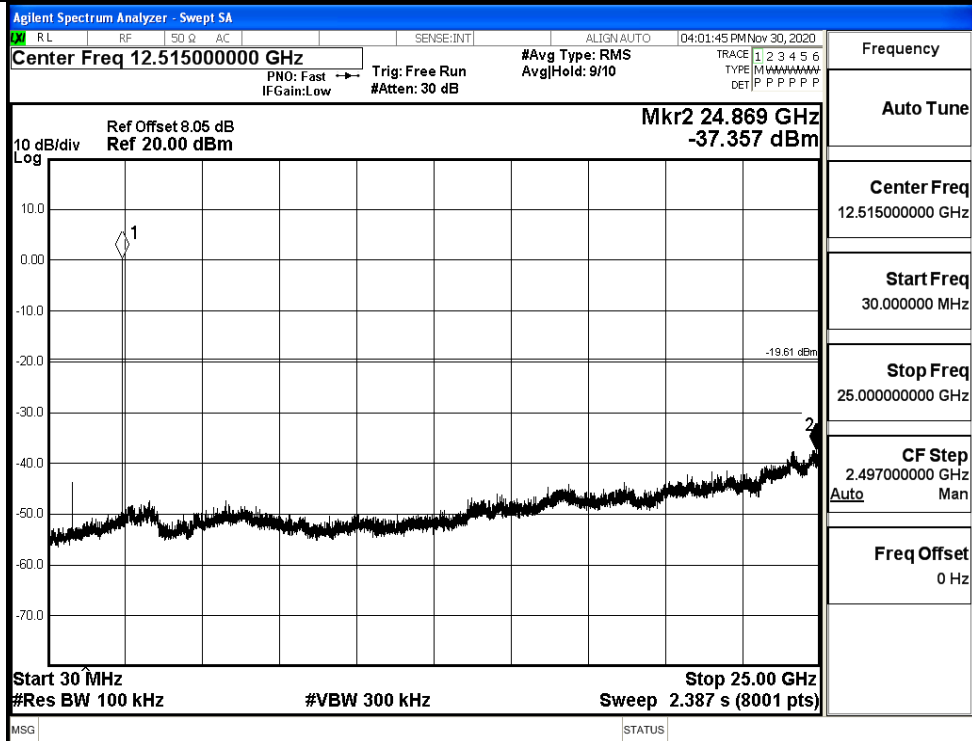


BT LE MCH Graphs

Pref/BT LE/MCH

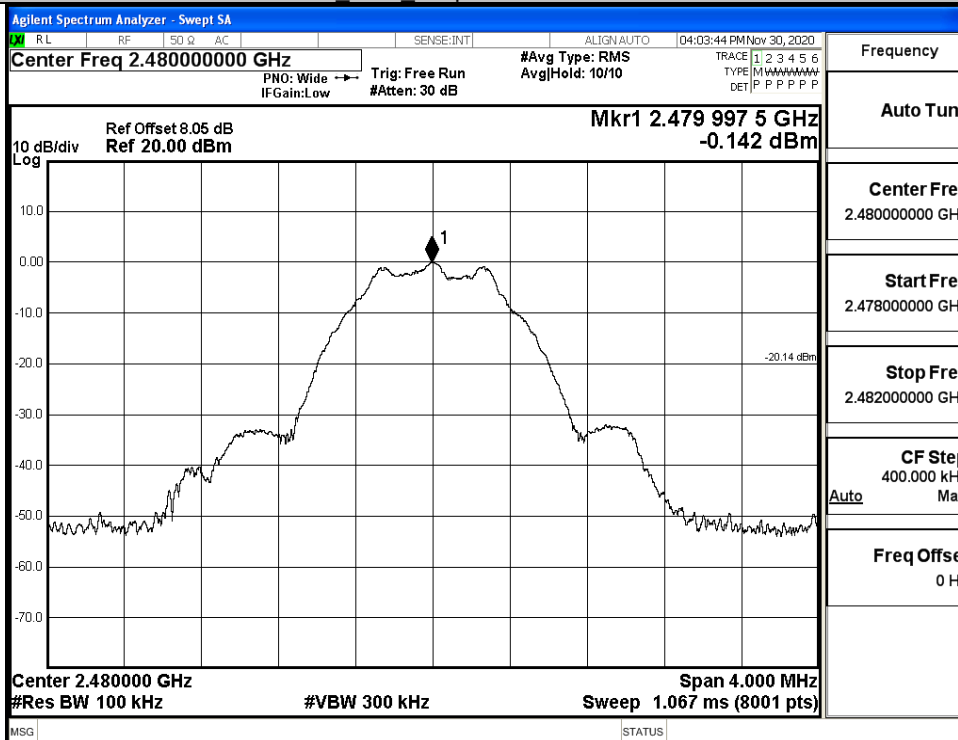


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

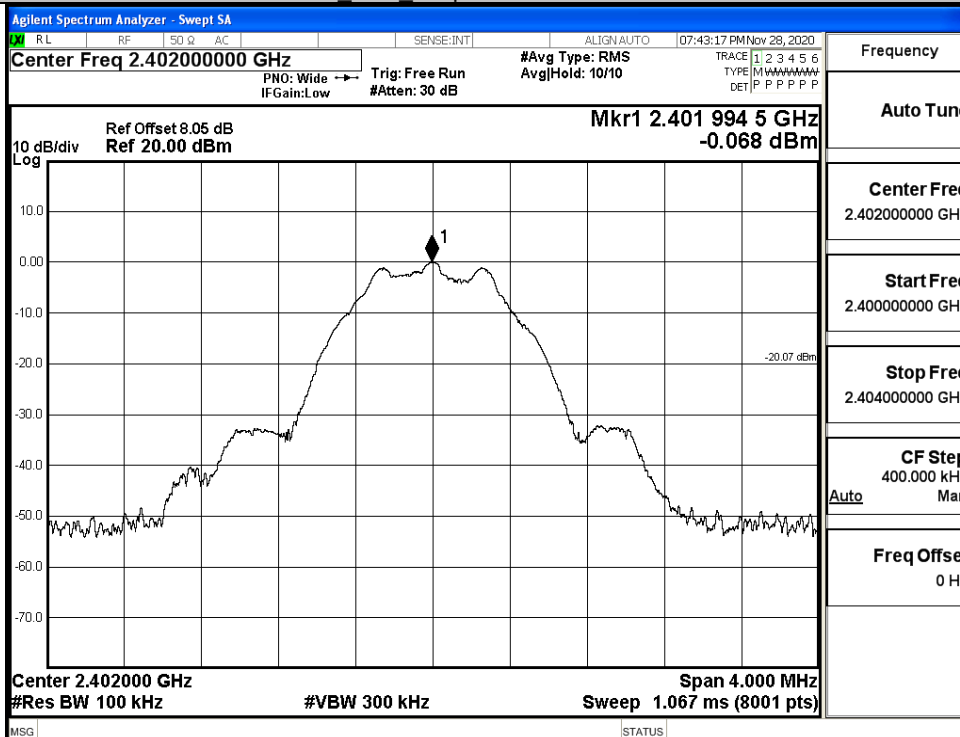


Left

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.068	-37.074	-20.068	PASS
BT LE	MCH	-0.01	-36.184	-20.010	PASS
BT LE	HCH	-0.954	-37.345	-20.954	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

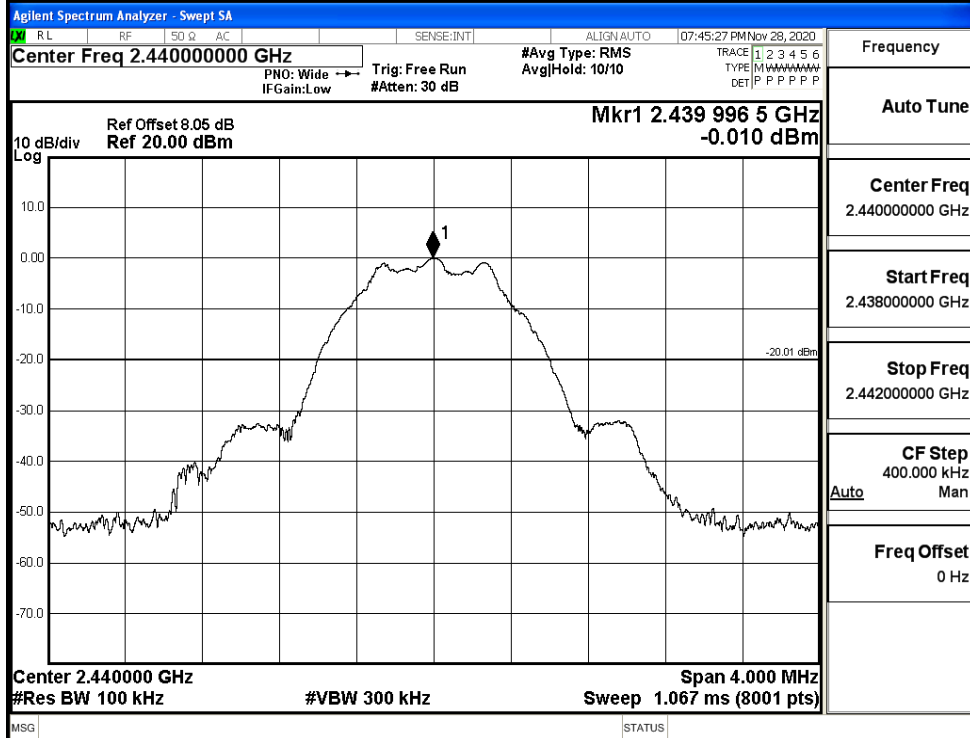


Puw/BT LE/LCH

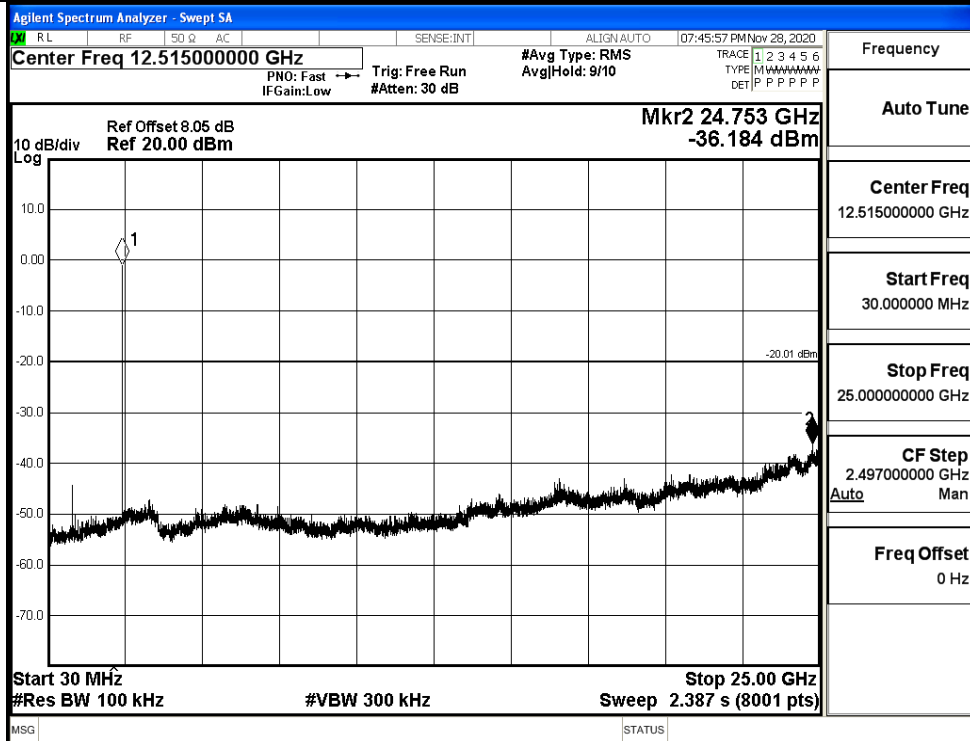


BT LE MCH Graphs

Pref/BT LE/MCH

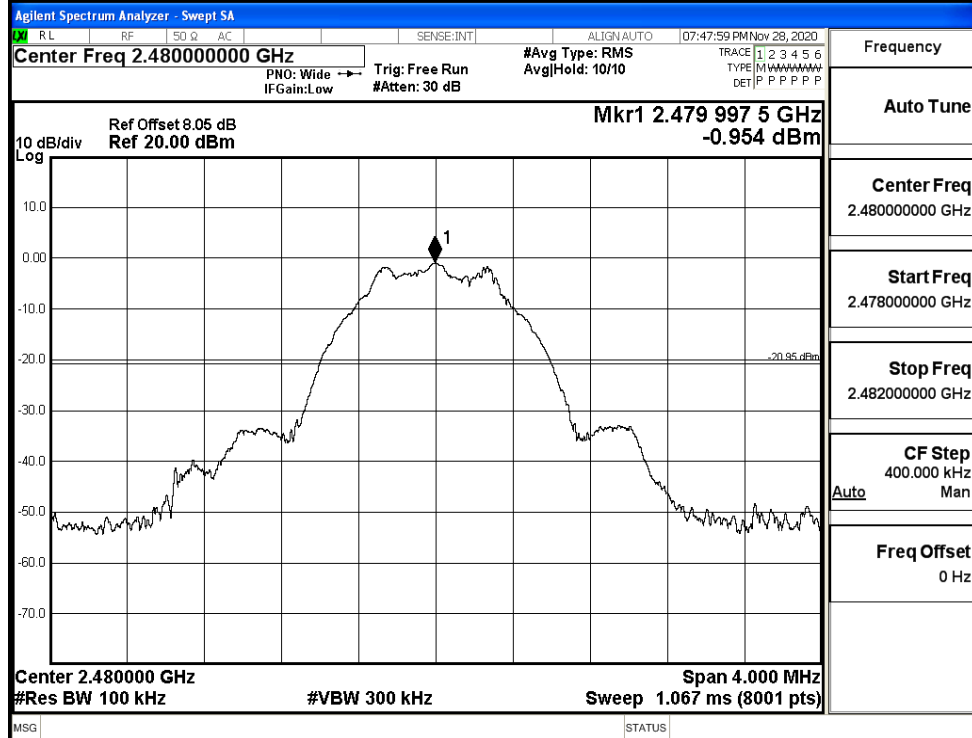


Puw/BT LE/MCH

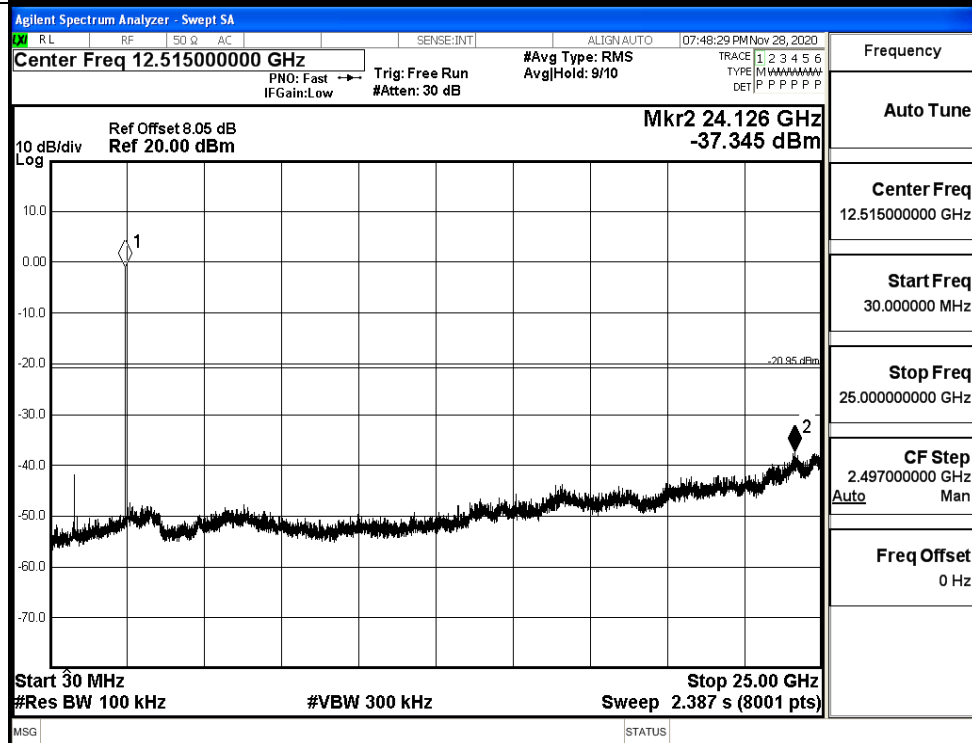


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



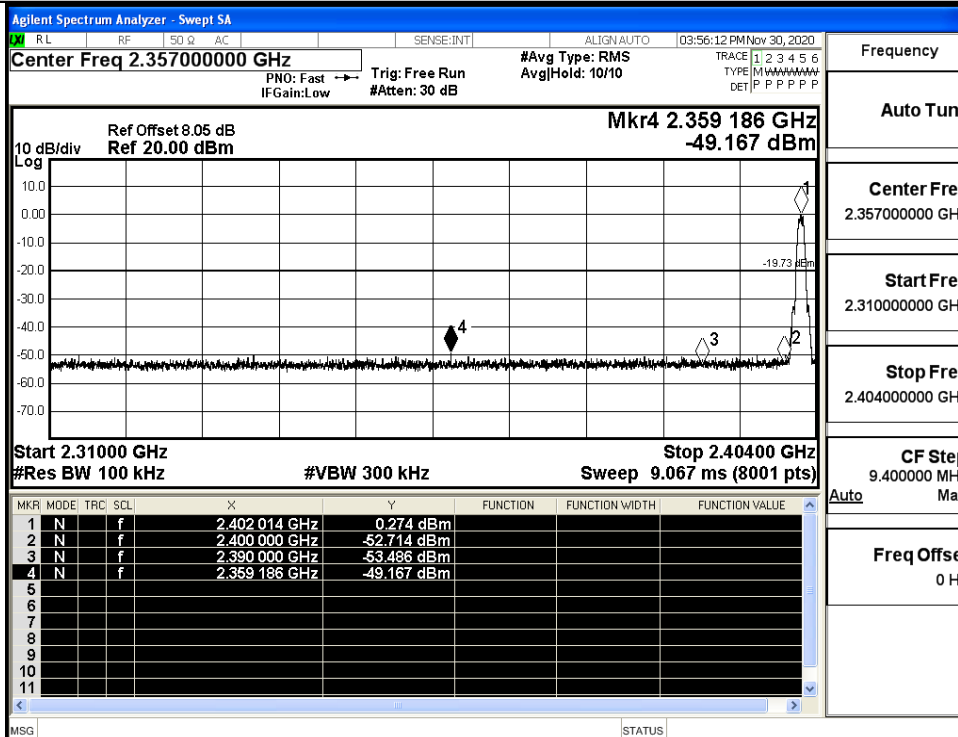
B.7 Band-edge for RF Conducted Emissions

Right

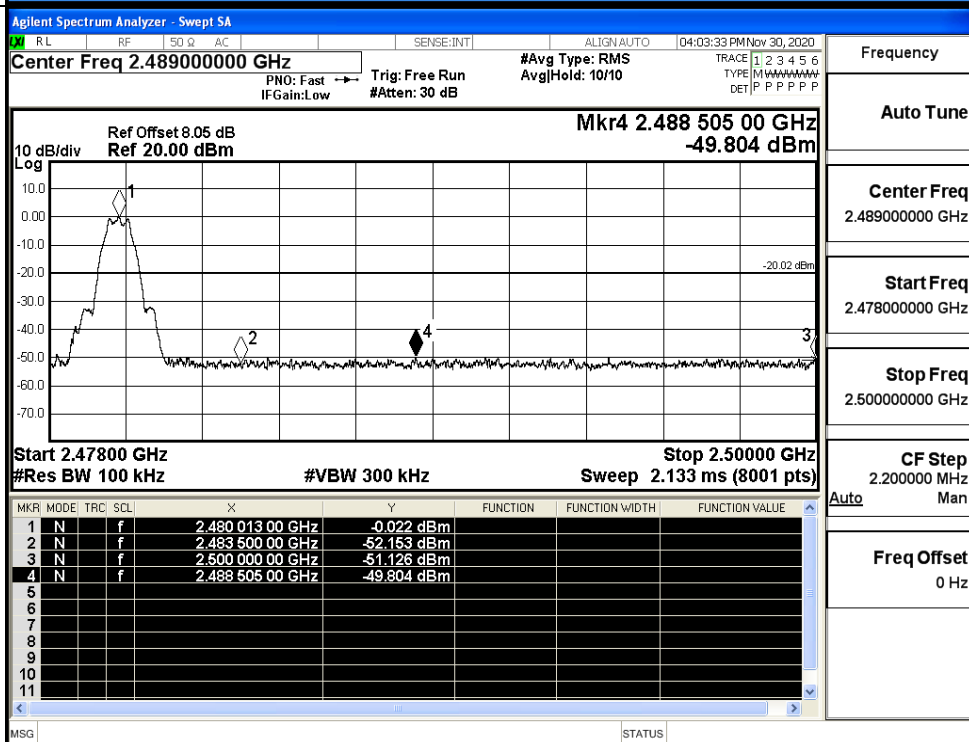
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.274	-49.167	-19.73	PASS
BT LE	HCH	-0.022	-49.804	-20.02	PASS

Test Graphs

LCH



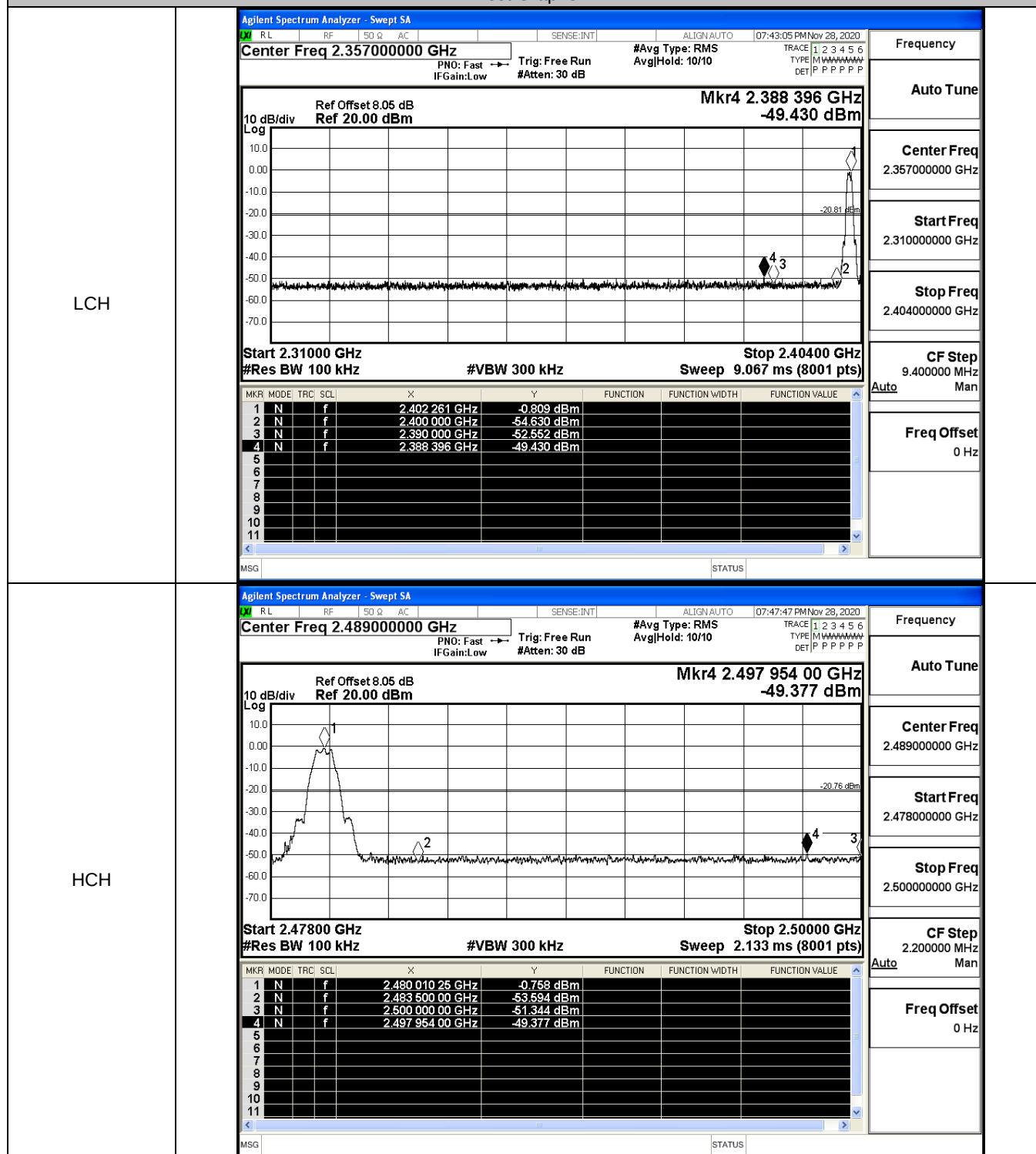
HCH



Left

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.809	-49.430	-20.81	PASS
BT LE	HCH	-0.758	-49.377	-20.76	PASS

Test Graphs

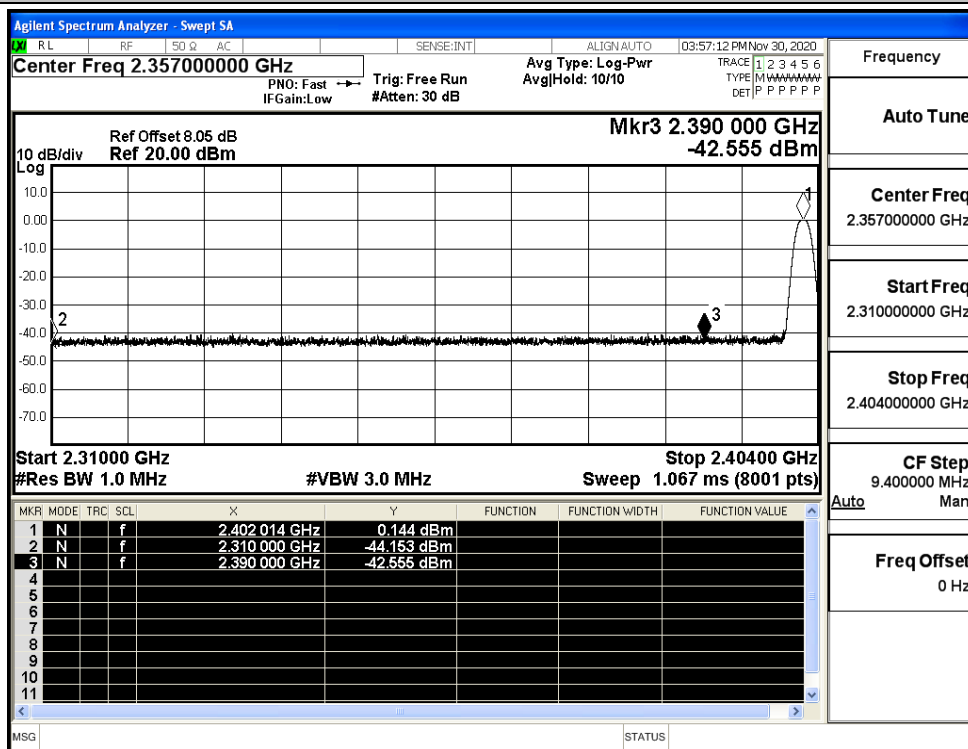


B.8 Restrict-band band-edge measurements

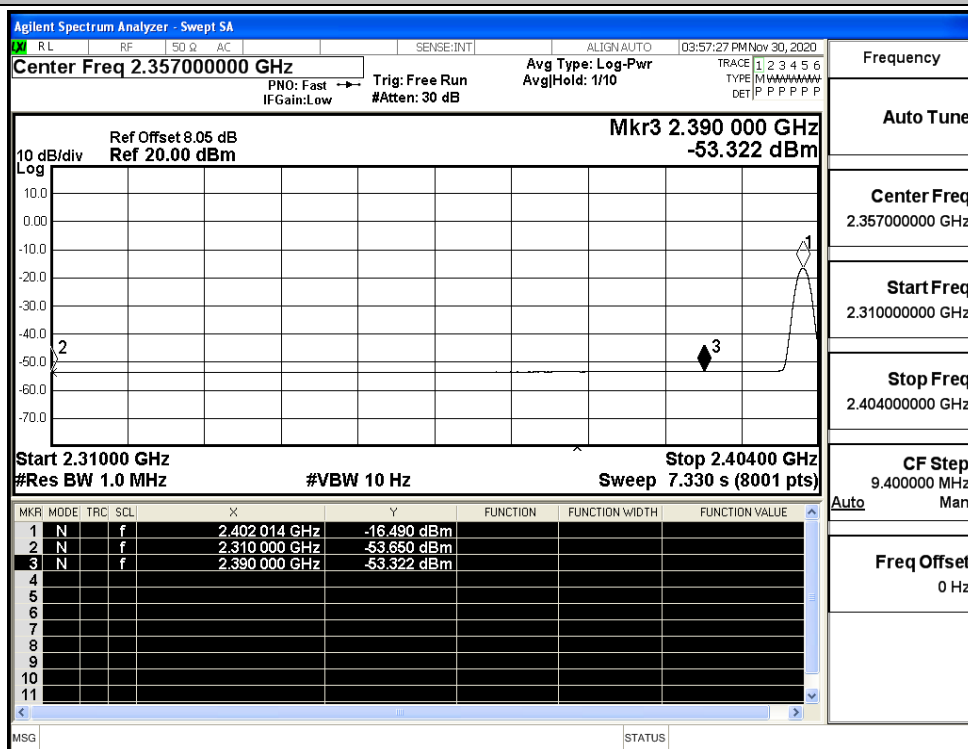
Right

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	-44.15	2.0	0	53.08	PEAK	74	PASS
		Ant1	2310.0	-53.65	2.0	0	43.58	AV	54	PASS
		Ant1	2390.0	-42.56	2.0	0	54.67	PEAK	74	PASS
		Ant1	2390.0	-53.32	2.0	0	43.91	AV	54	PASS
	2480	Ant1	2483.5	-41.40	2.0	0	55.83	PEAK	74	PASS
		Ant1	2483.5	-52.86	2.0	0	44.37	AV	54	PASS
		Ant1	2500.0	-41.81	2.0	0	55.42	PEAK	74	PASS
		Ant1	2500.0	-52.69	2.0	0	44.54	AV	54	PASS

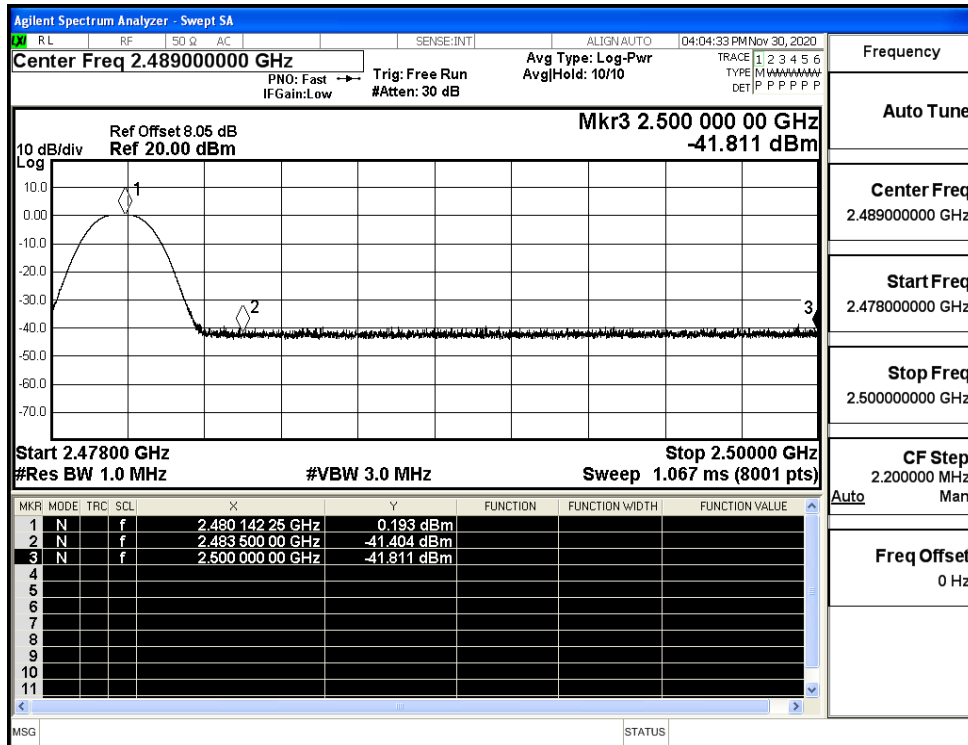
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



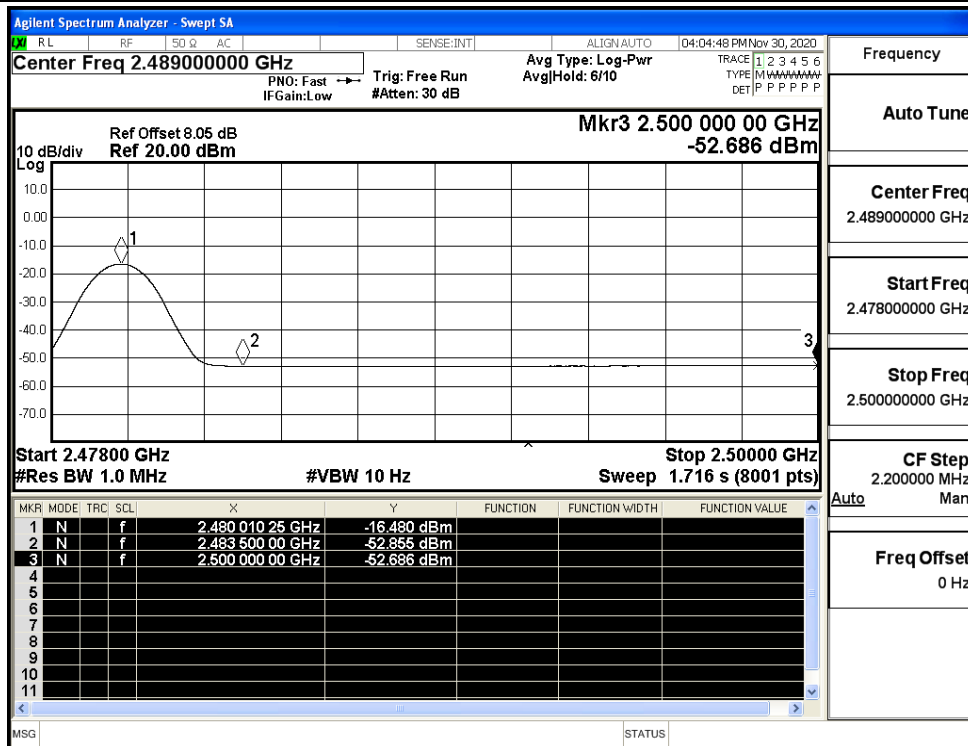
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



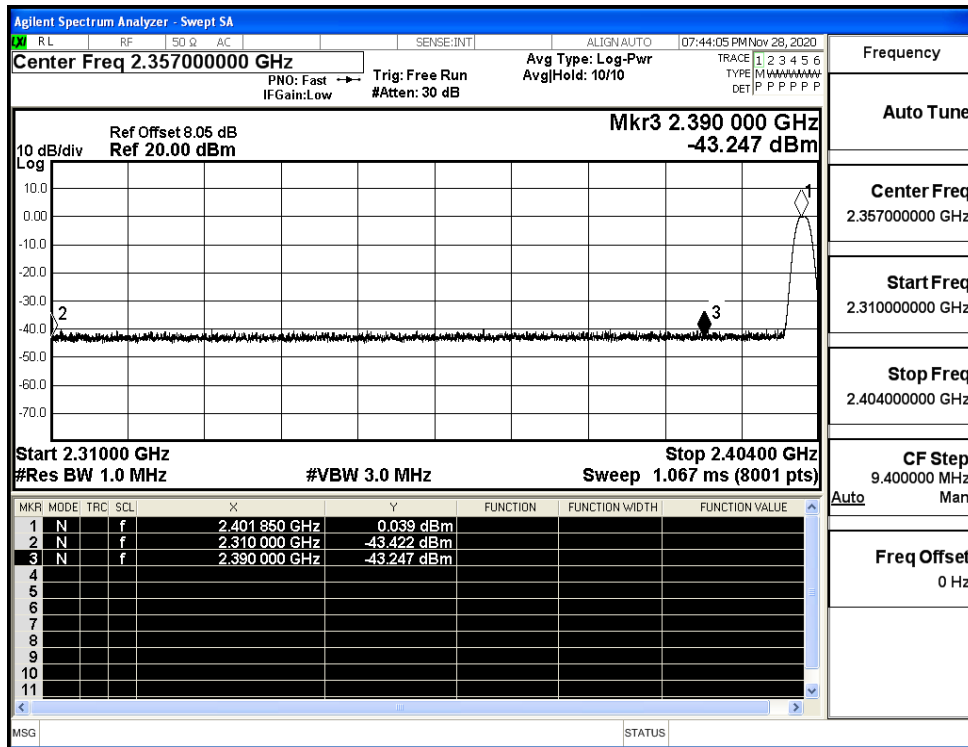
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



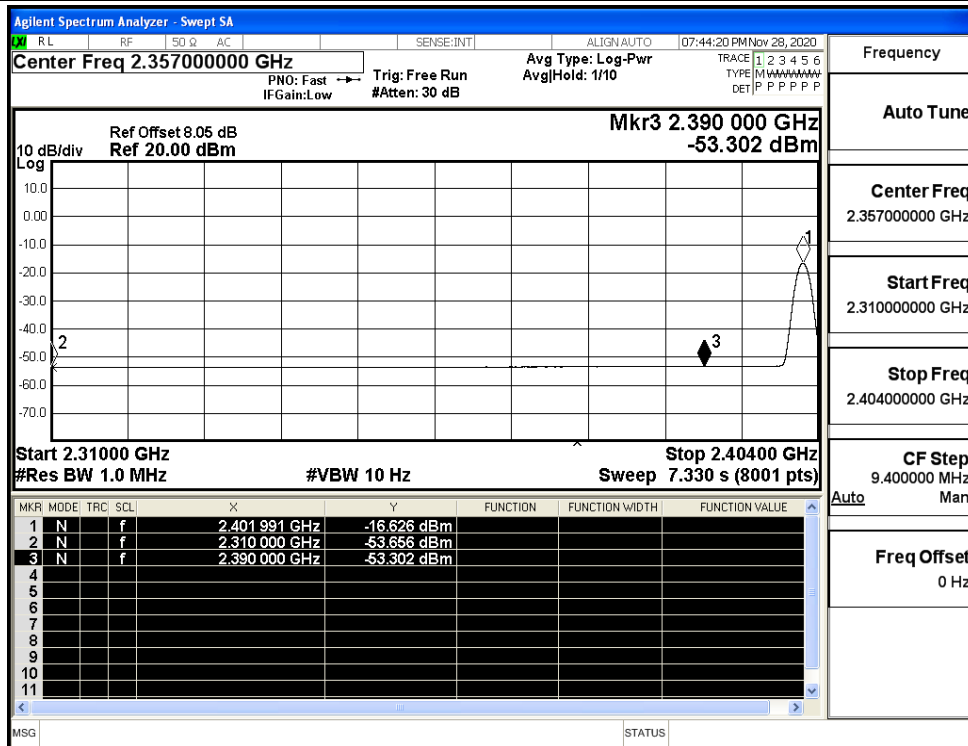
Left

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	-43.42	2.0	0	53.81	PEAK	74	PASS
		Ant1	2310.0	-53.66	2.0	0	43.57	AV	54	PASS
		Ant1	2390.0	-43.25	2.0	0	53.98	PEAK	74	PASS
		Ant1	2390.0	-53.30	2.0	0	43.93	AV	54	PASS
	2480	Ant1	2483.5	-43.41	2.0	0	53.82	PEAK	74	PASS
		Ant1	2483.5	-52.80	2.0	0	44.43	AV	54	PASS
		Ant1	2500.0	-42.22	2.0	0	55.01	PEAK	74	PASS
		Ant1	2500.0	-52.64	2.0	0	44.59	AV	54	PASS

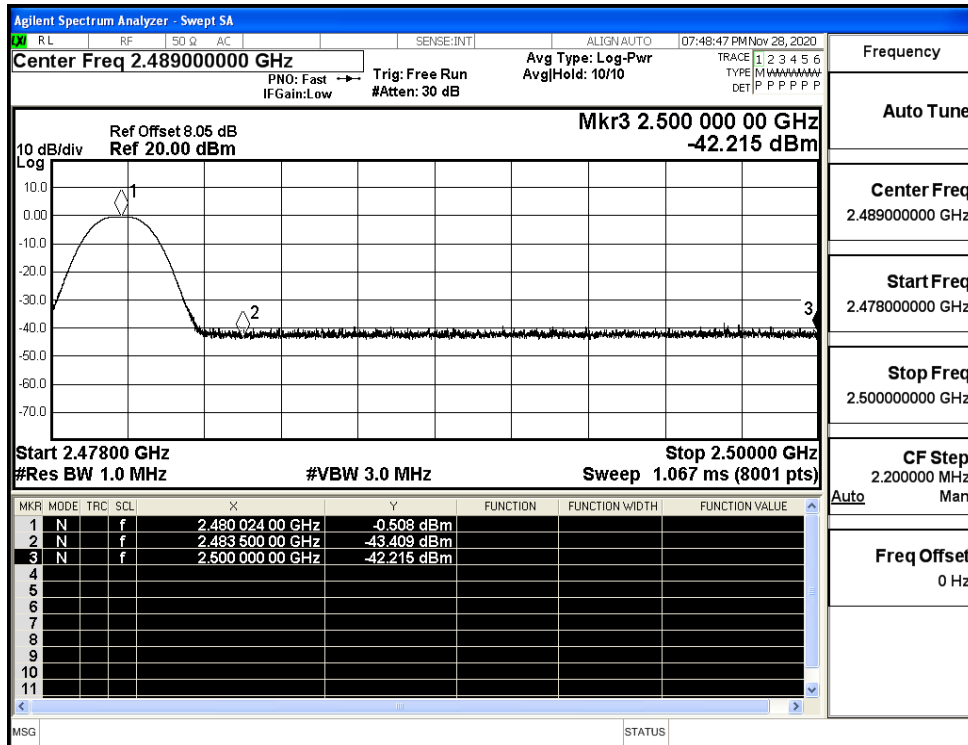
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

