

Appendix A

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

Product Name: Door Sense

Trade Mark: Phillips Connect Technologies

Test Model: DoorSense

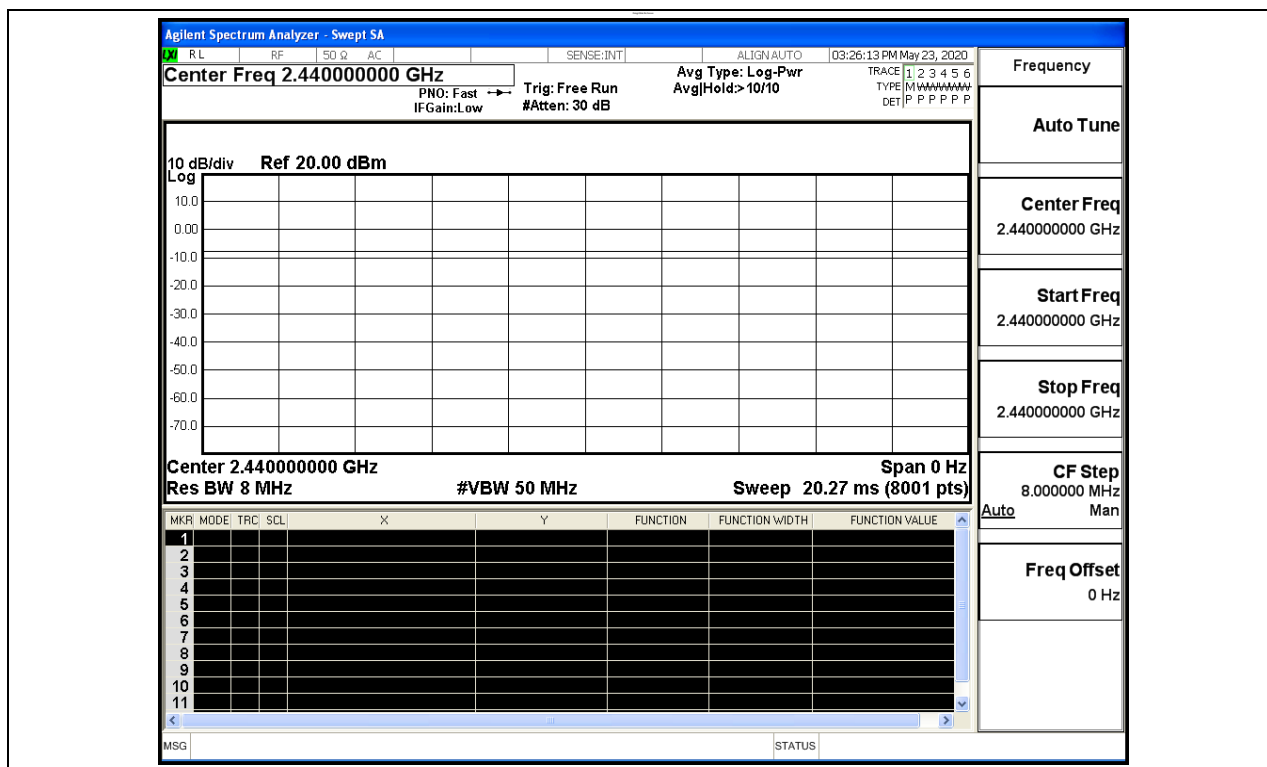
Environmental Conditions

Temperature:	23.3 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	SCOUT WU
Supervised by:	Li Huan

A.1 Duty Cycle

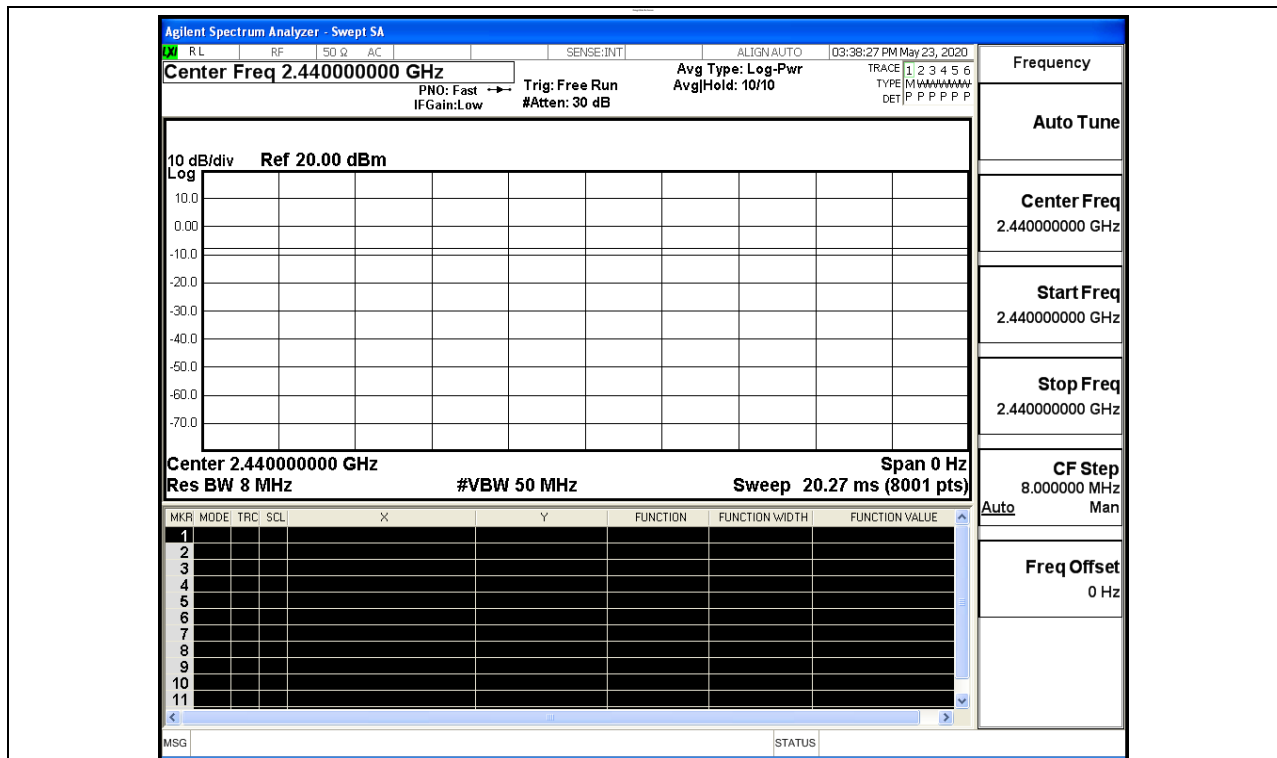
BT LE

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



BT 2LE

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



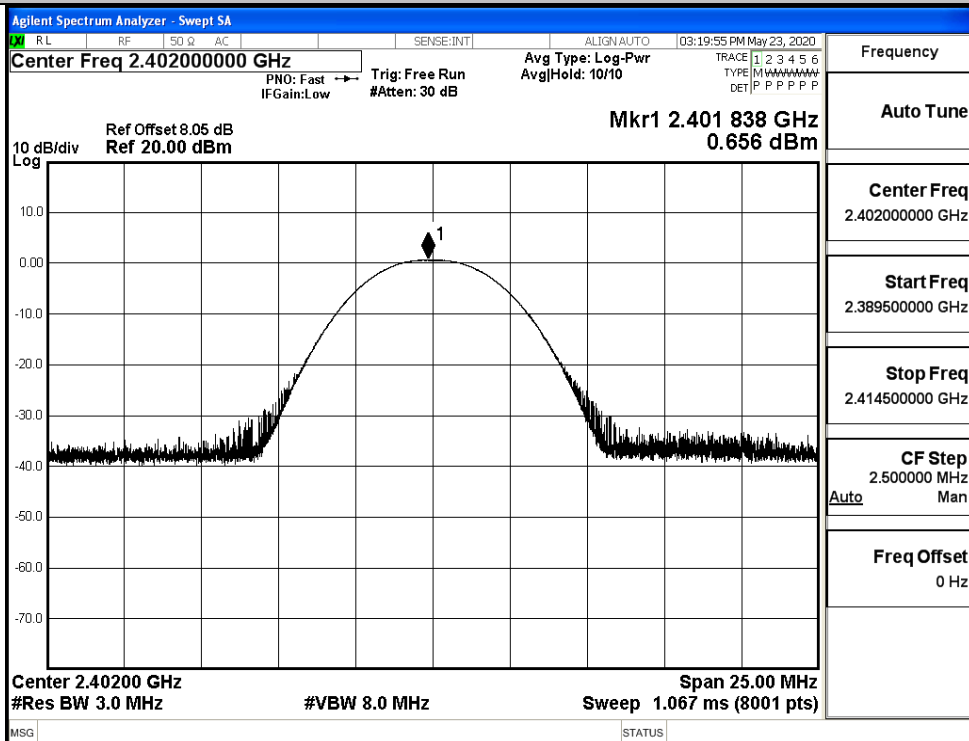
A.2 Maximum Conducted Peak Output Power

BT LE

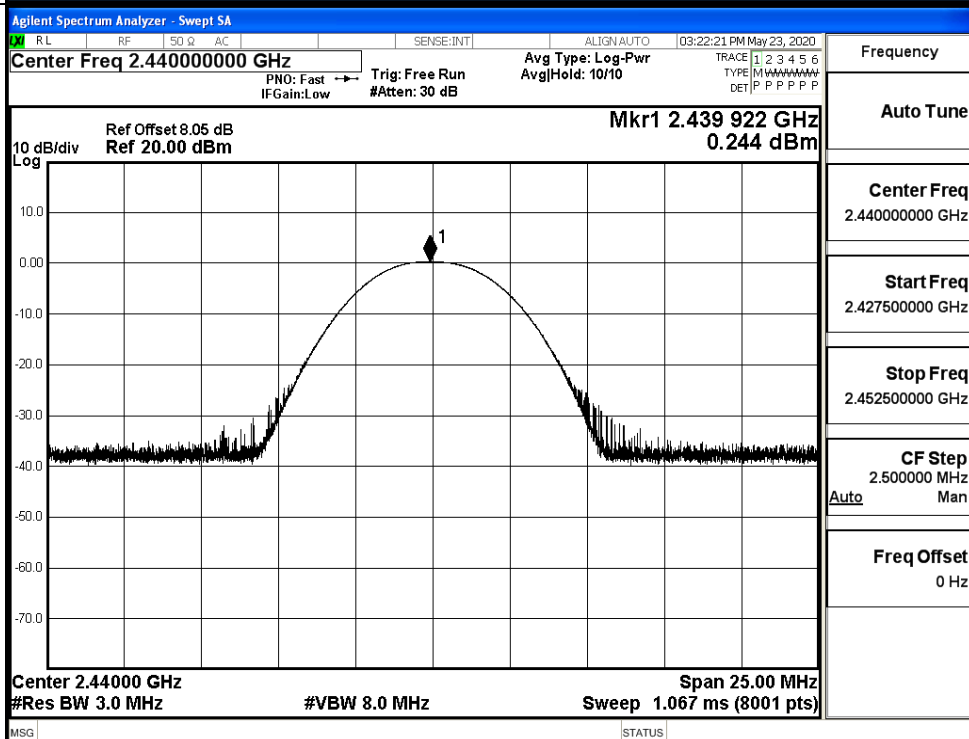
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.656	30	PASS
BT LE	MCH	0.244	30	PASS
BT LE	HCH	-0.358	30	PASS

Test Graphs

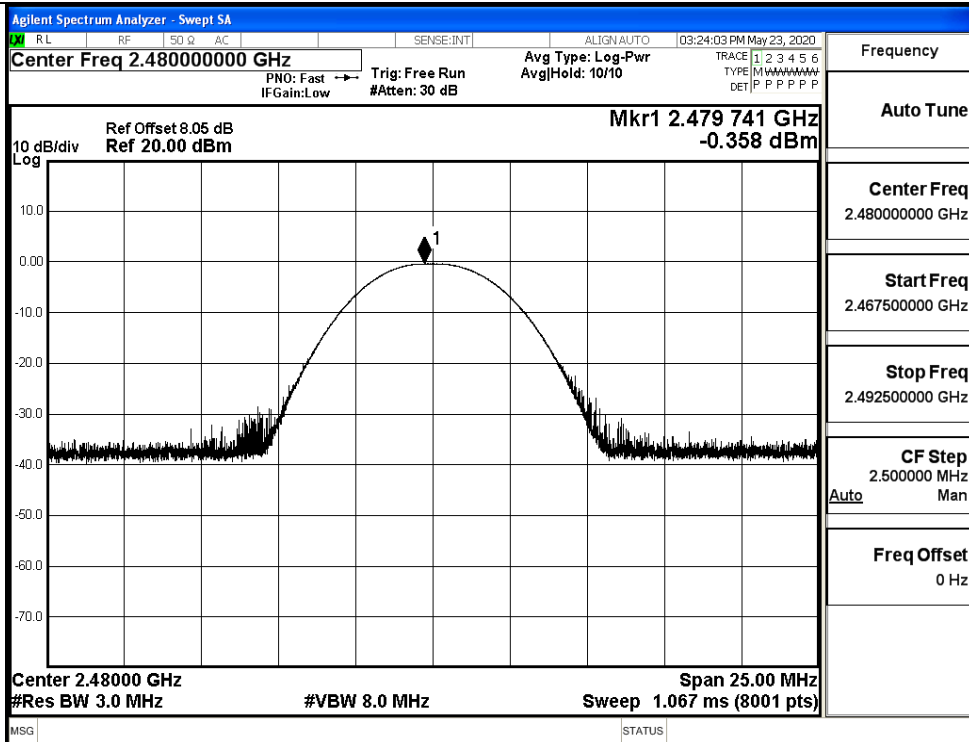
LCH



MCH



HCH

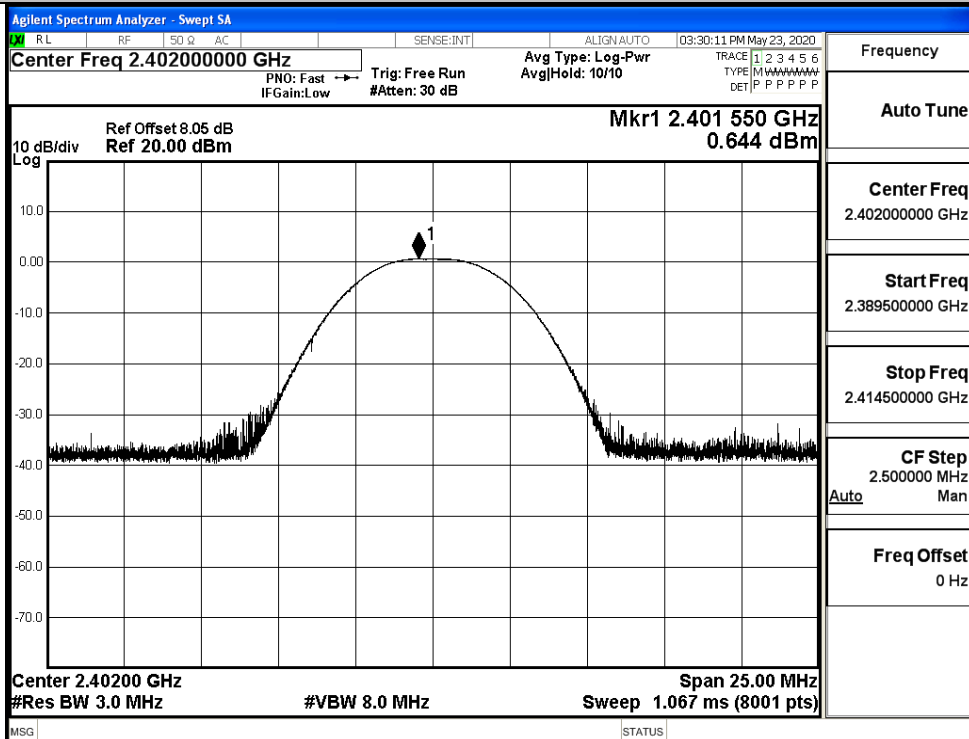


BT 2LE

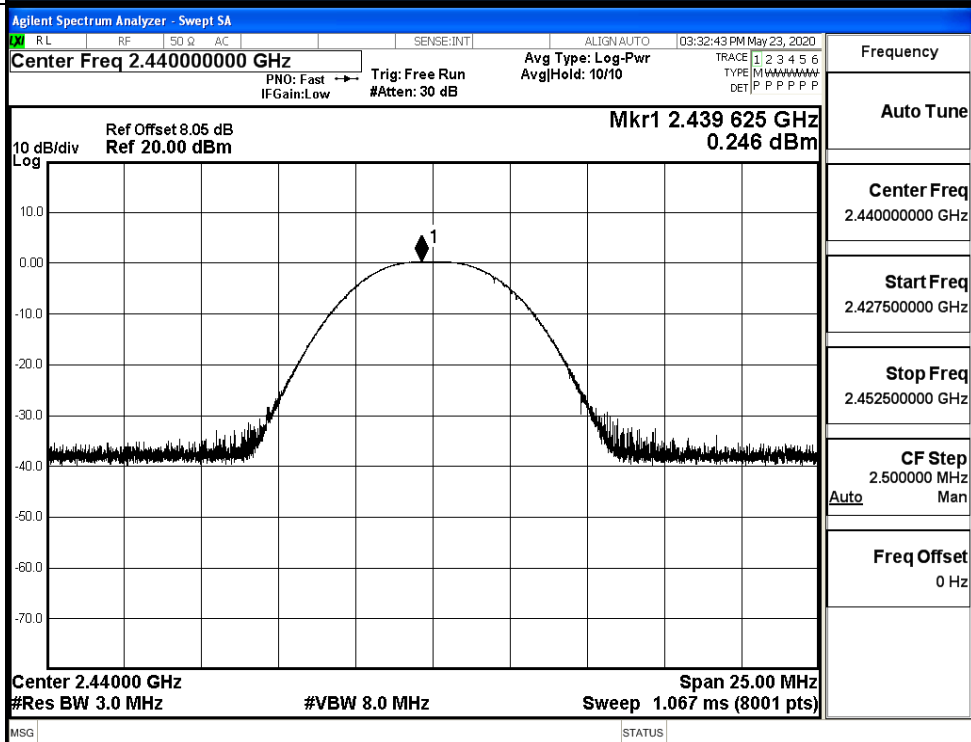
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.644	30	PASS
BT LE	MCH	0.246	30	PASS
BT LE	HCH	-0.338	30	PASS

Test Graphs

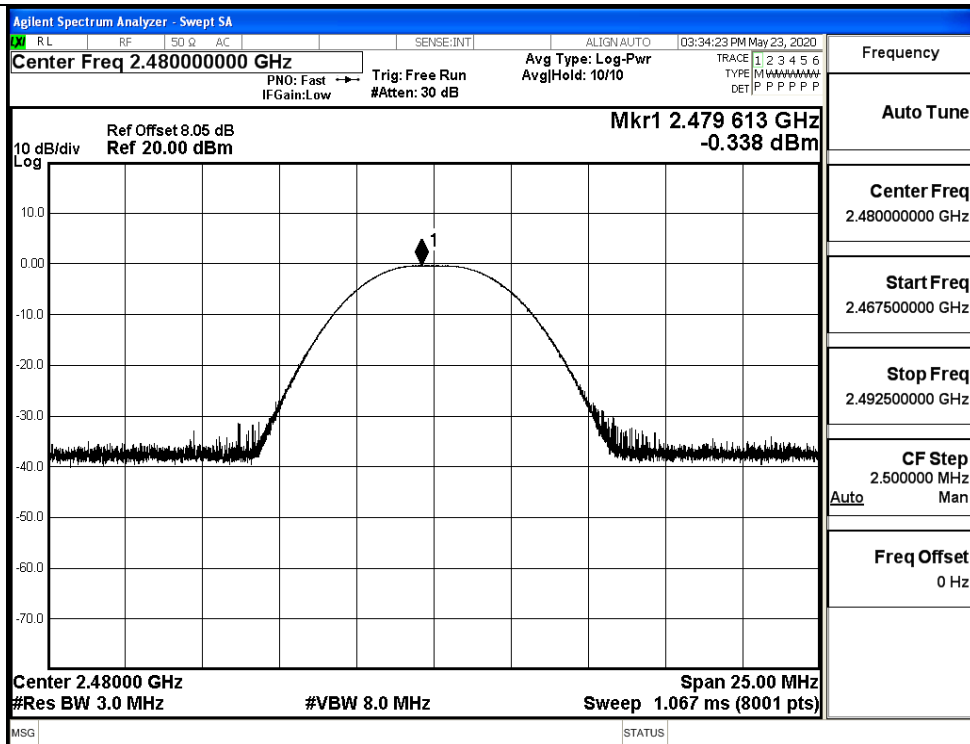
LCH



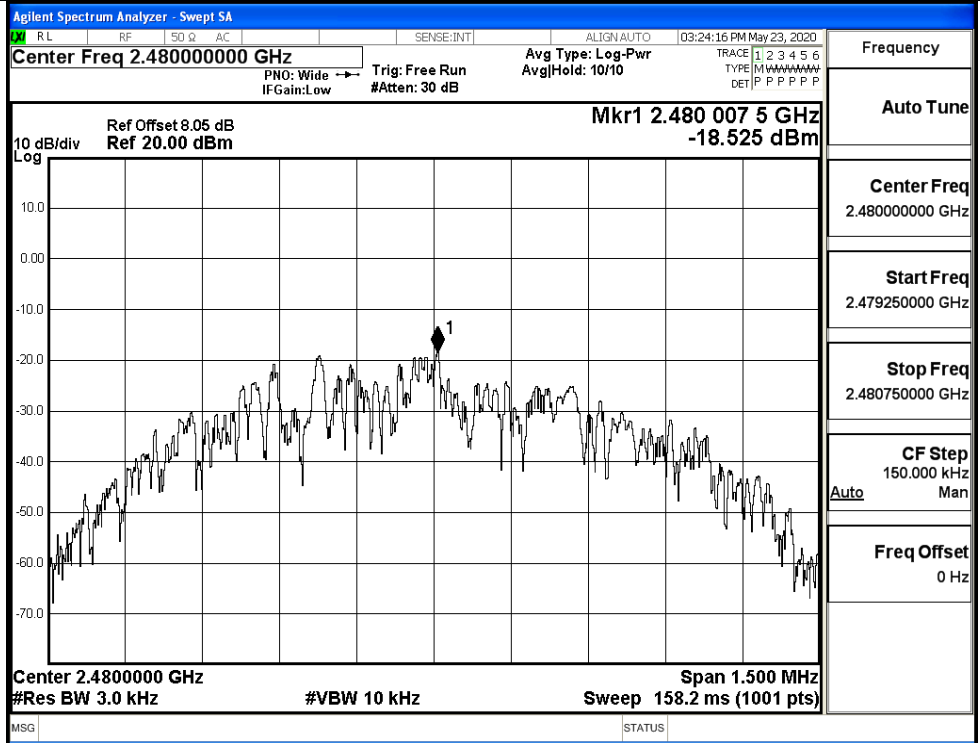
MCH



HCH



HCH

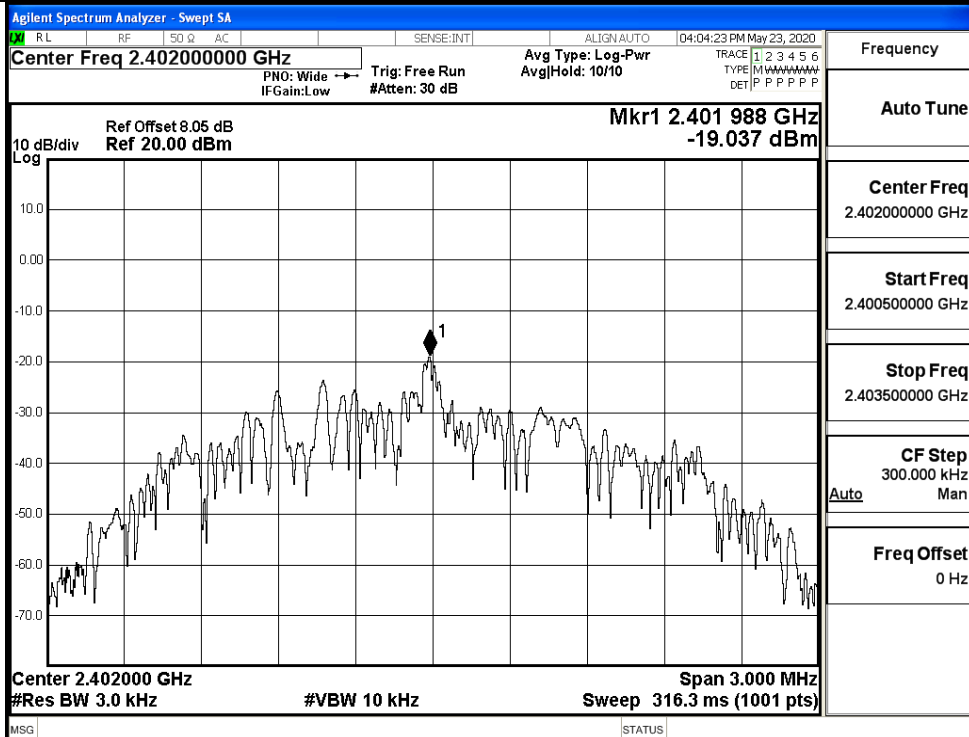


BT 2LE

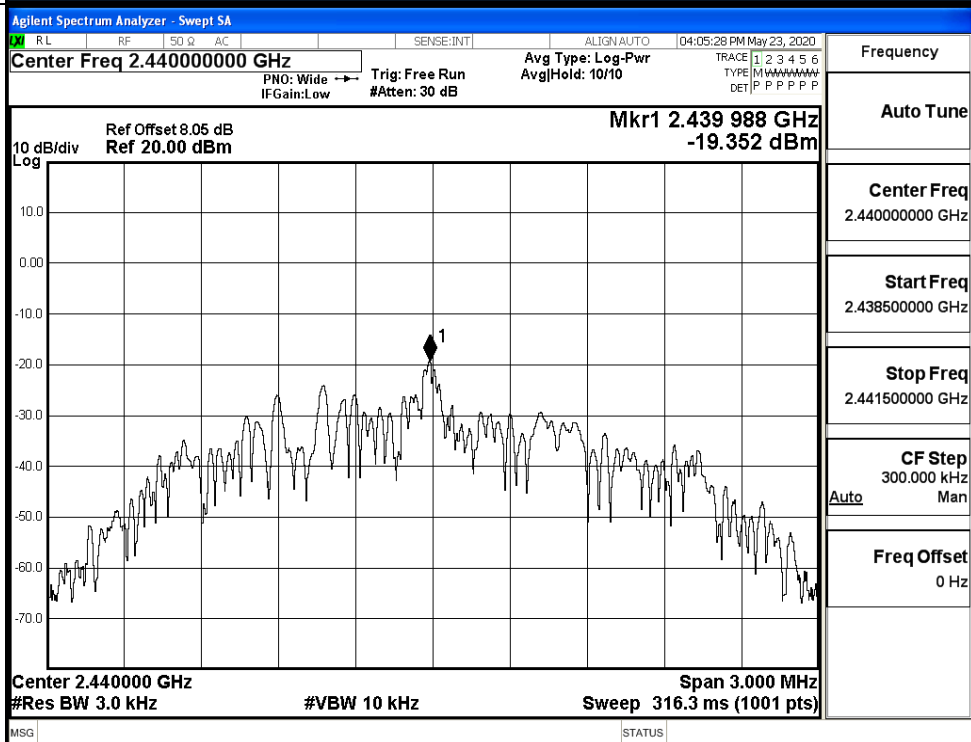
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.037	8	PASS
BT LE	MCH	-19.352	8	PASS
BT LE	HCH	-20.066	8	PASS

Test Graphs

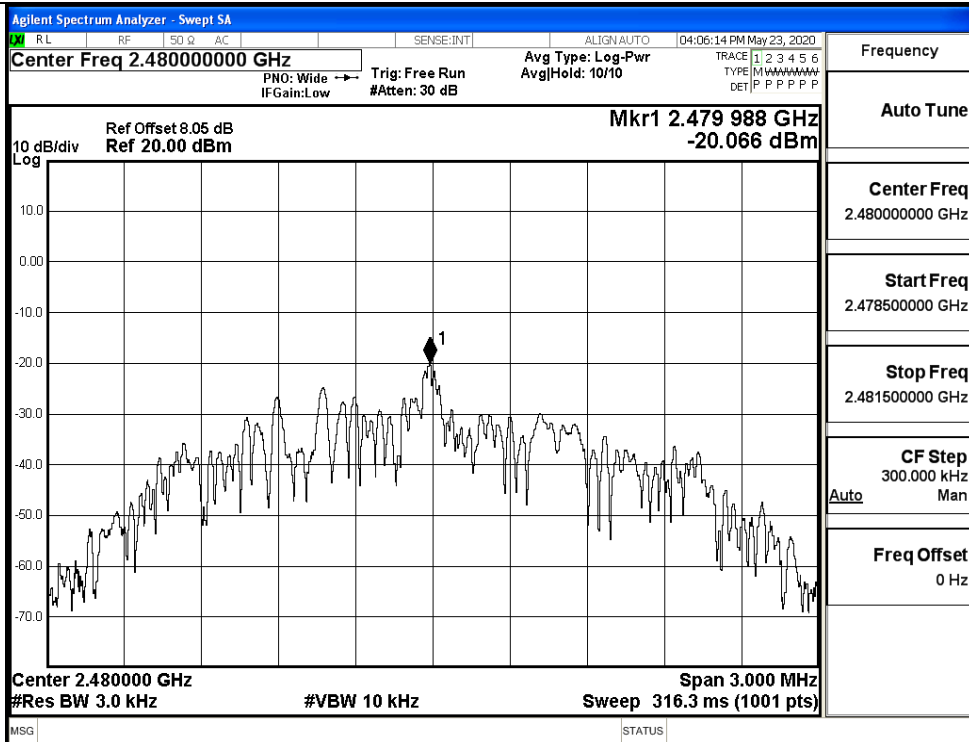
LCH



MCH



HCH



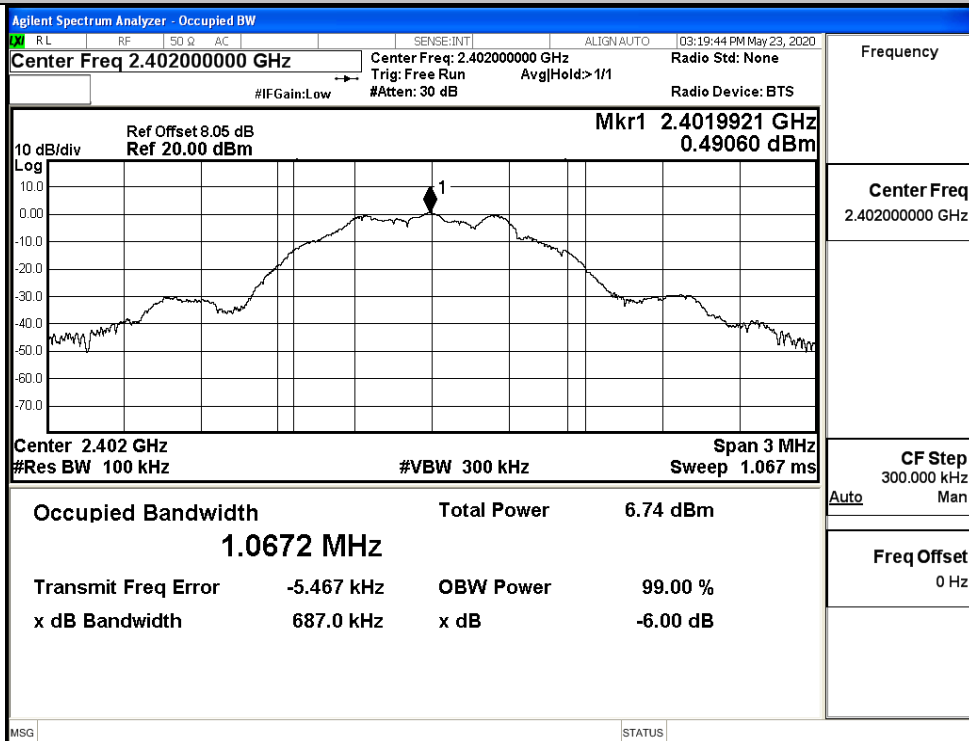
A.4 6dB Bandwidth

BT LE

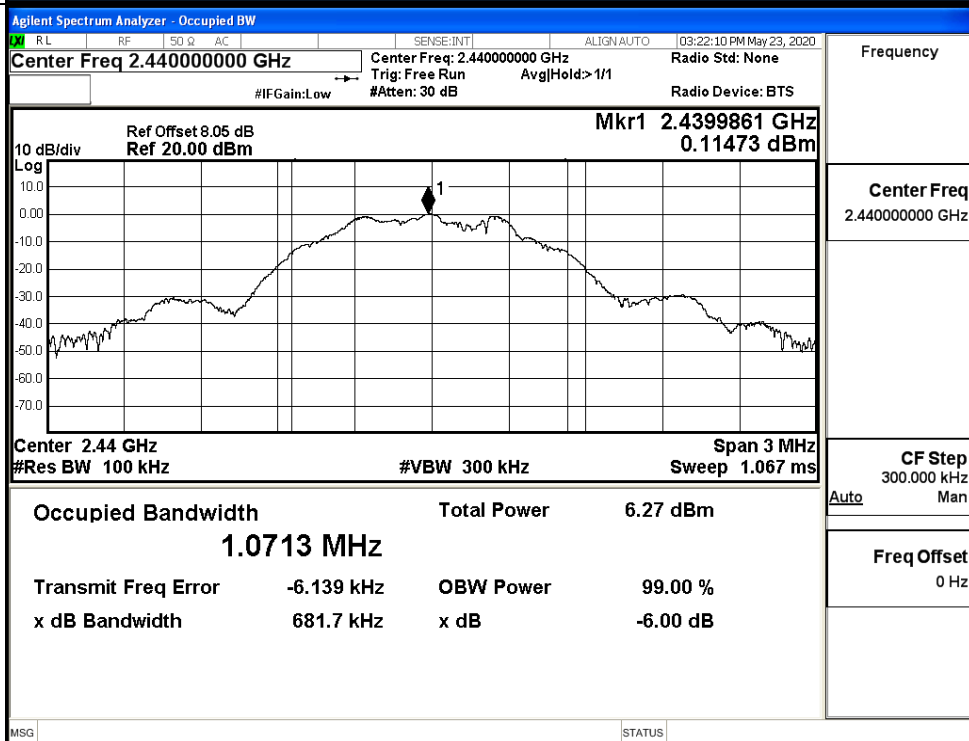
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6870	≥ 0.5	PASS
BT LE	MCH	0.6817	≥ 0.5	PASS
BT LE	HCH	0.6811	≥ 0.5	PASS

Test Graphs

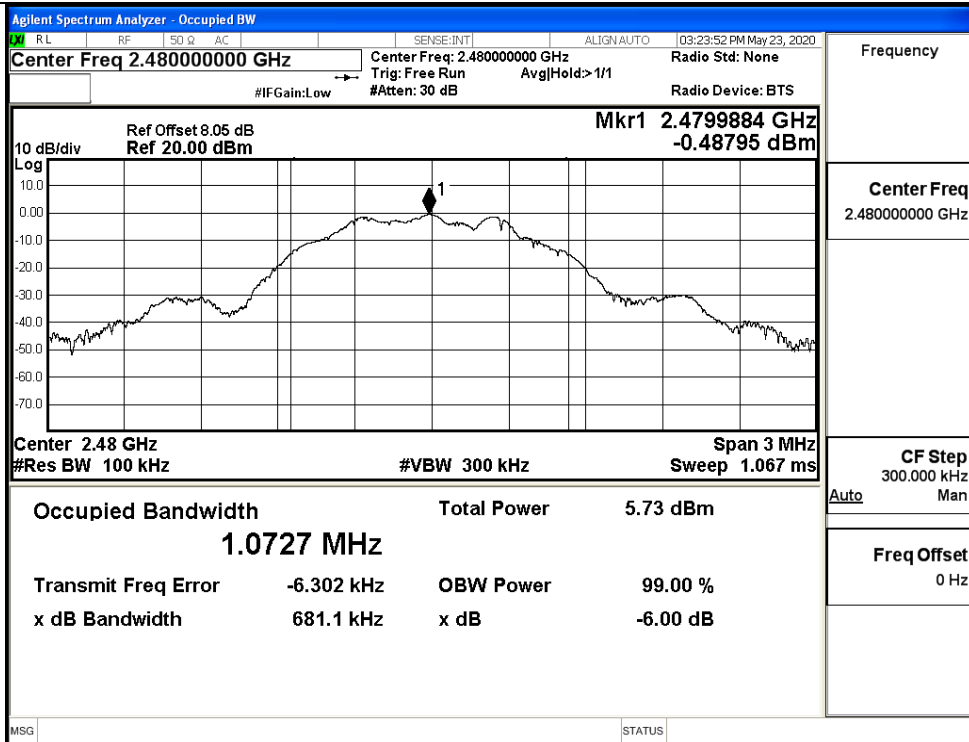
LCH



MCH



HCH

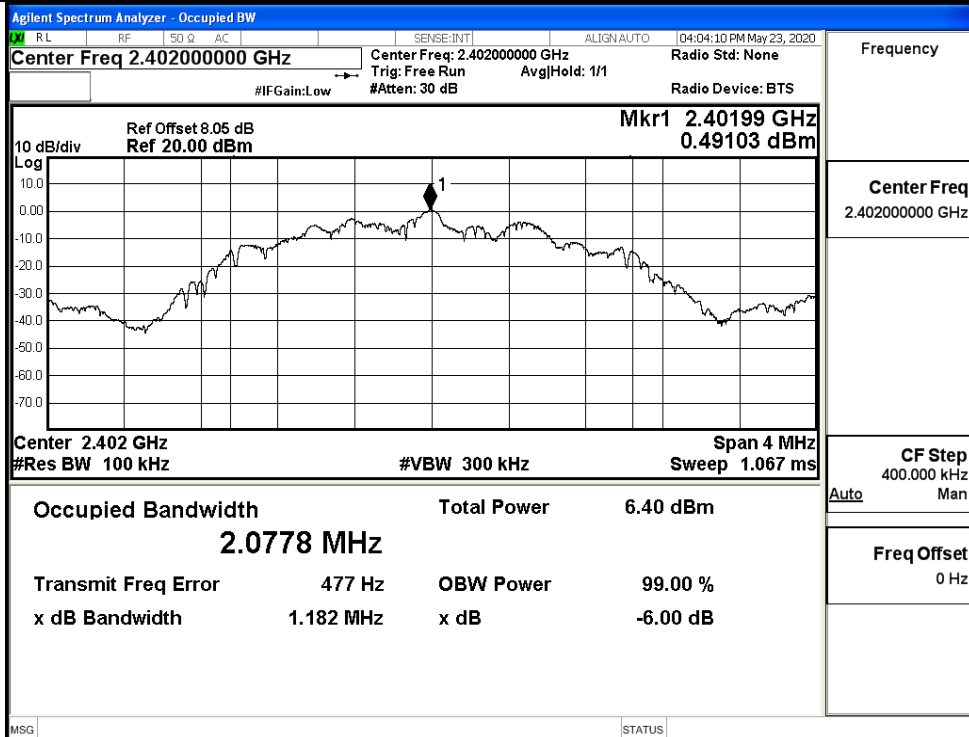


BT 2LE

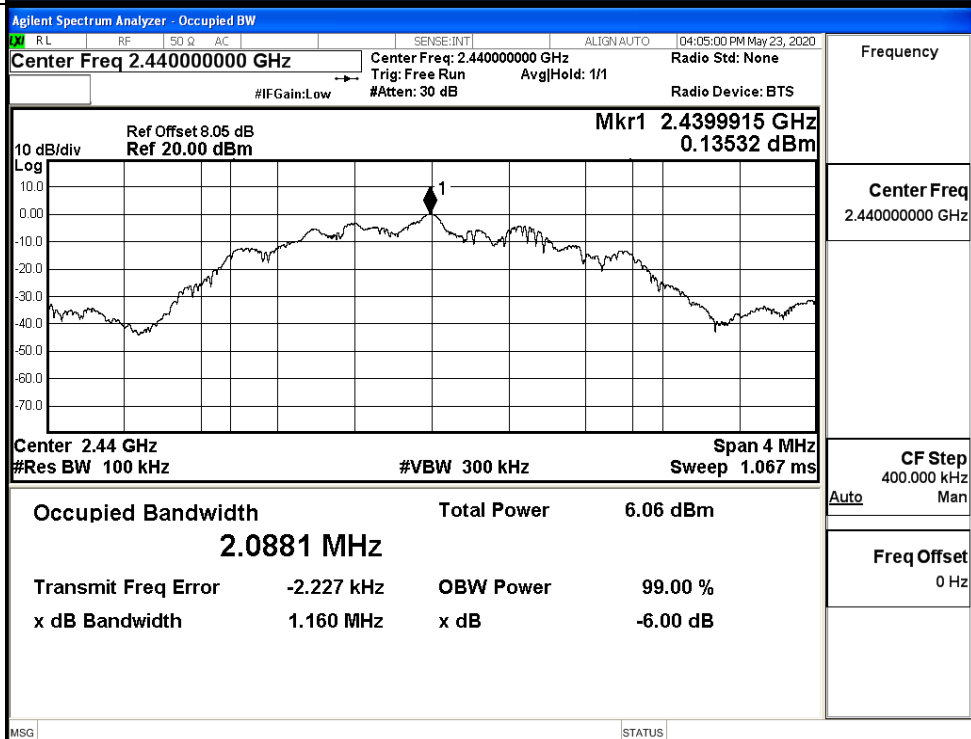
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.182	≥ 0.5	PASS
BT LE	MCH	1.160	≥ 0.5	PASS
BT LE	HCH	1.163	≥ 0.5	PASS

Test Graphs

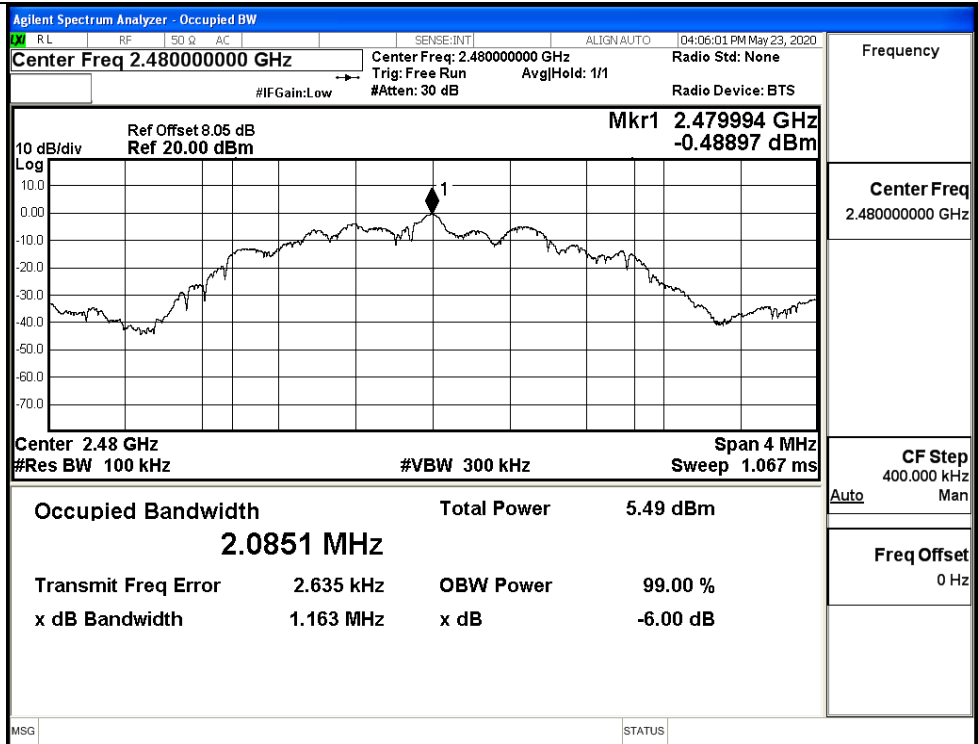
LCH



MCH



HCH



A.5 Occupied Bandwidth

BT LE

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0333	≥ 0.5	PASS
BT LE	MCH	1.0384	≥ 0.5	PASS
BT LE	HCH	1.0372	≥ 0.5	PASS

Test Graphs

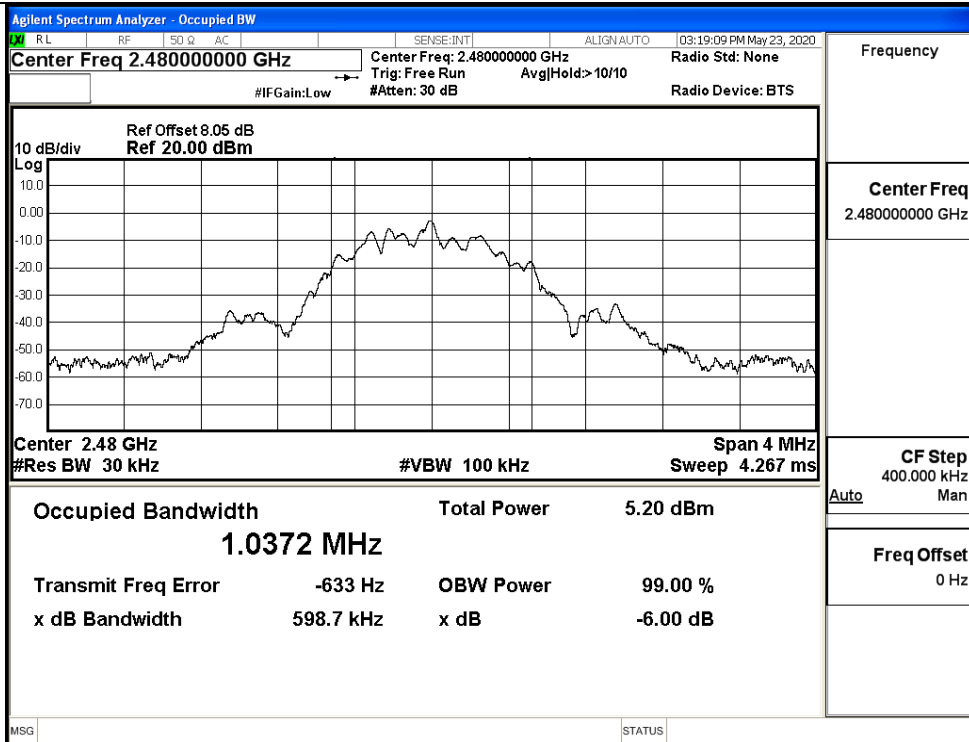
LCH



MCH



HCH

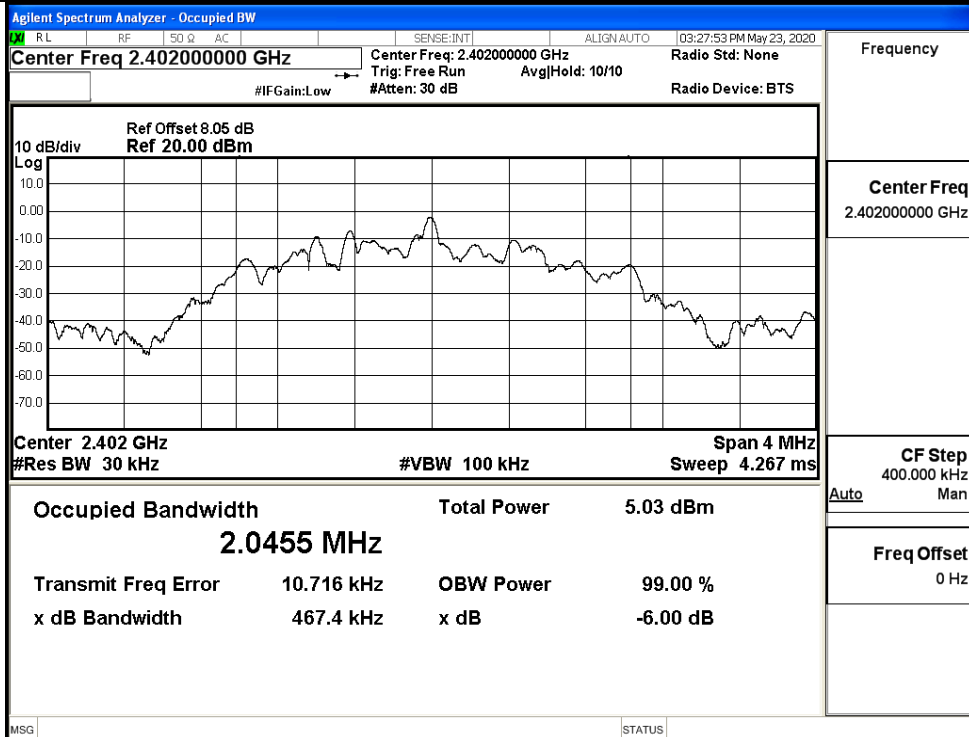


BT 2LE

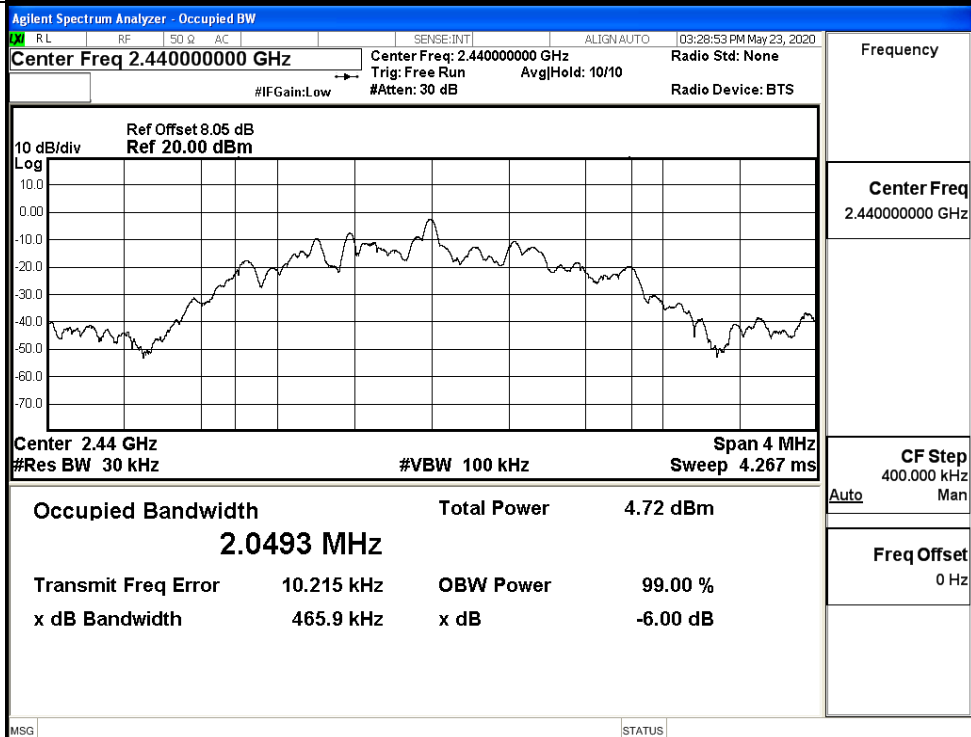
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	2.0455	≥ 0.5	PASS
BT LE	MCH	2.0493	≥ 0.5	PASS
BT LE	HCH	2.0503	≥ 0.5	PASS

Test Graphs

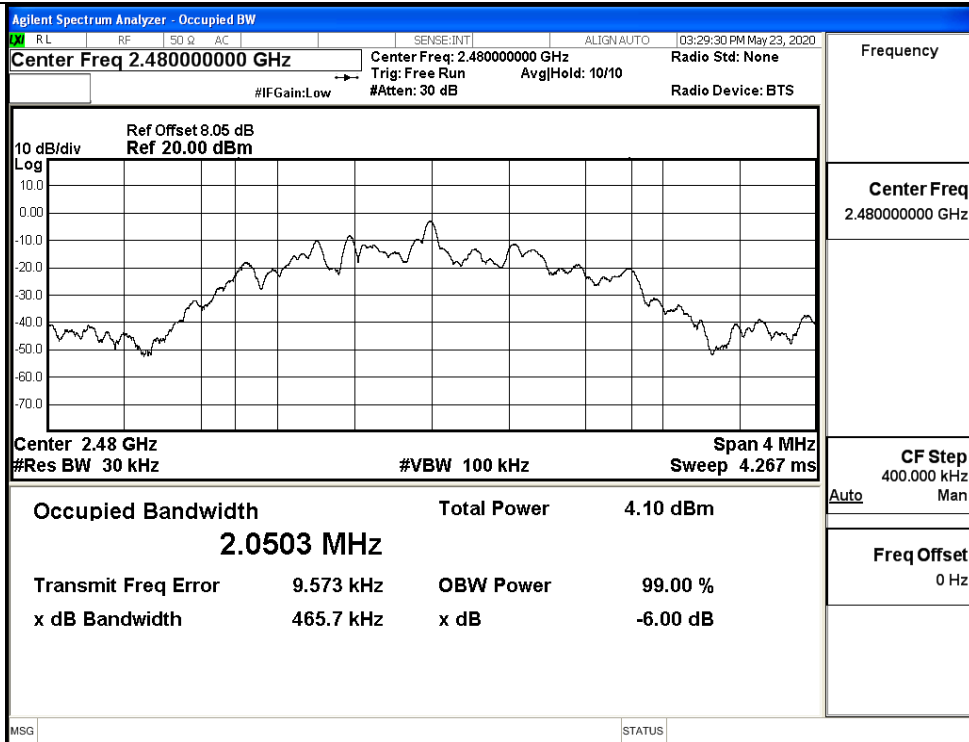
LCH



MCH



HCH



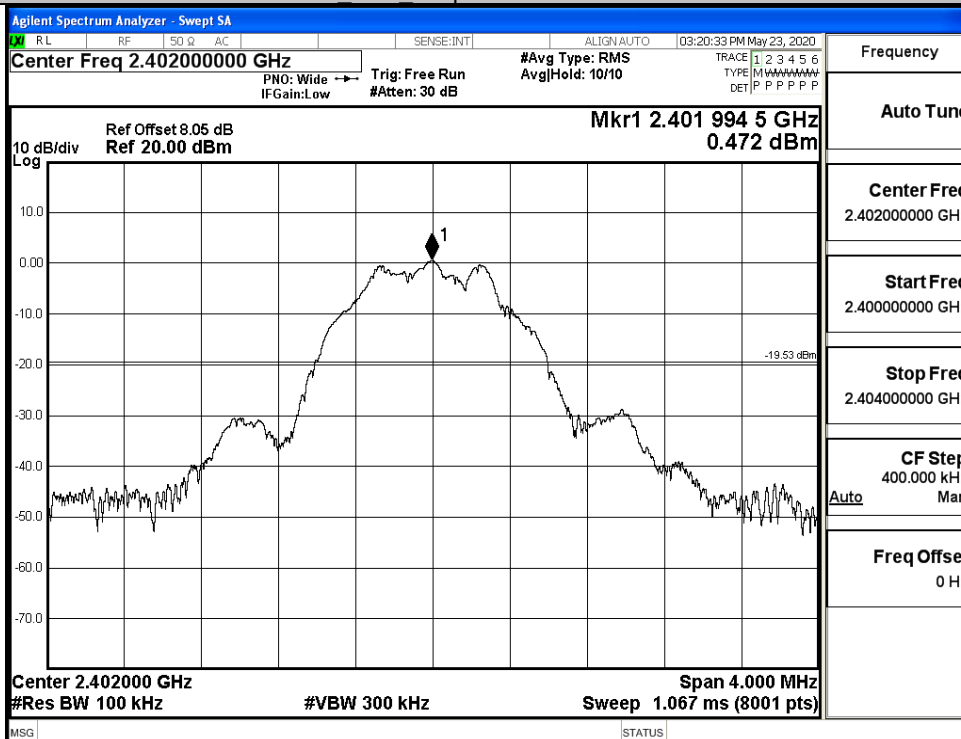
A.6 RF Conducted Spurious Emissions

BT LE

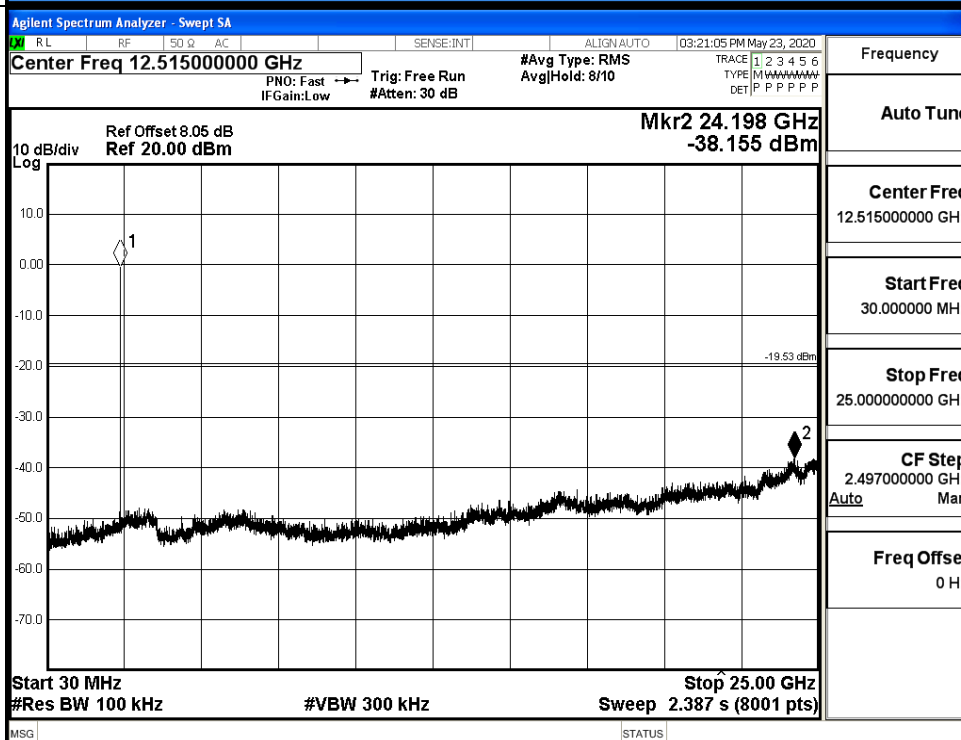
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.472	-38.155	-19.528	PASS
BT LE	MCH	0.126	-36.779	-19.874	PASS
BT LE	HCH	-0.352	-36.989	-20.352	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

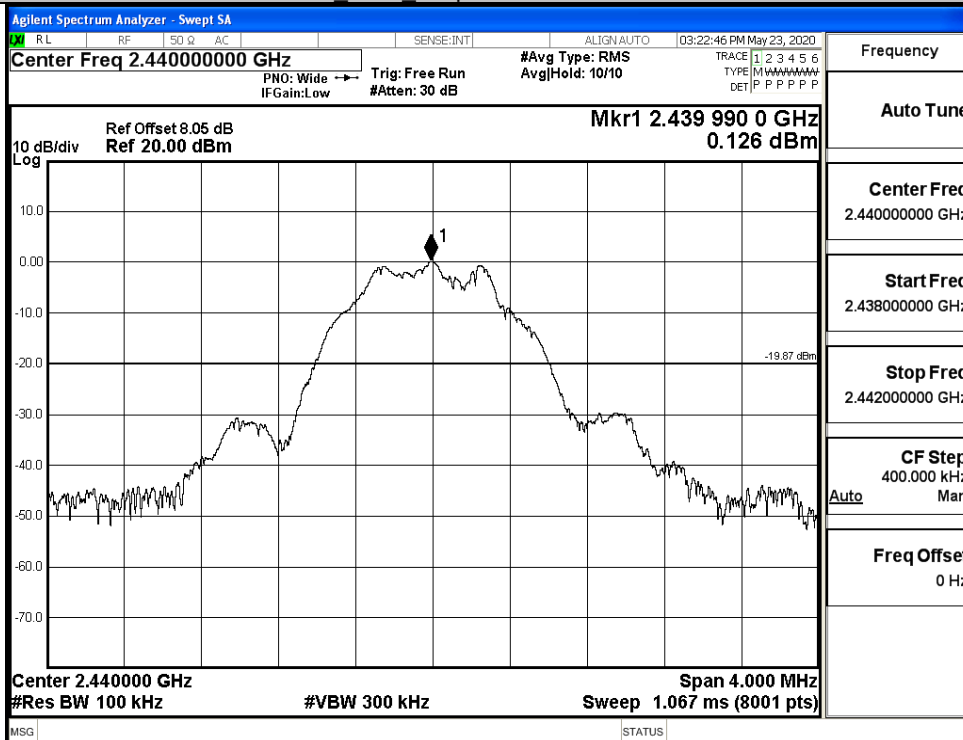


Puw/BT LE/LCH

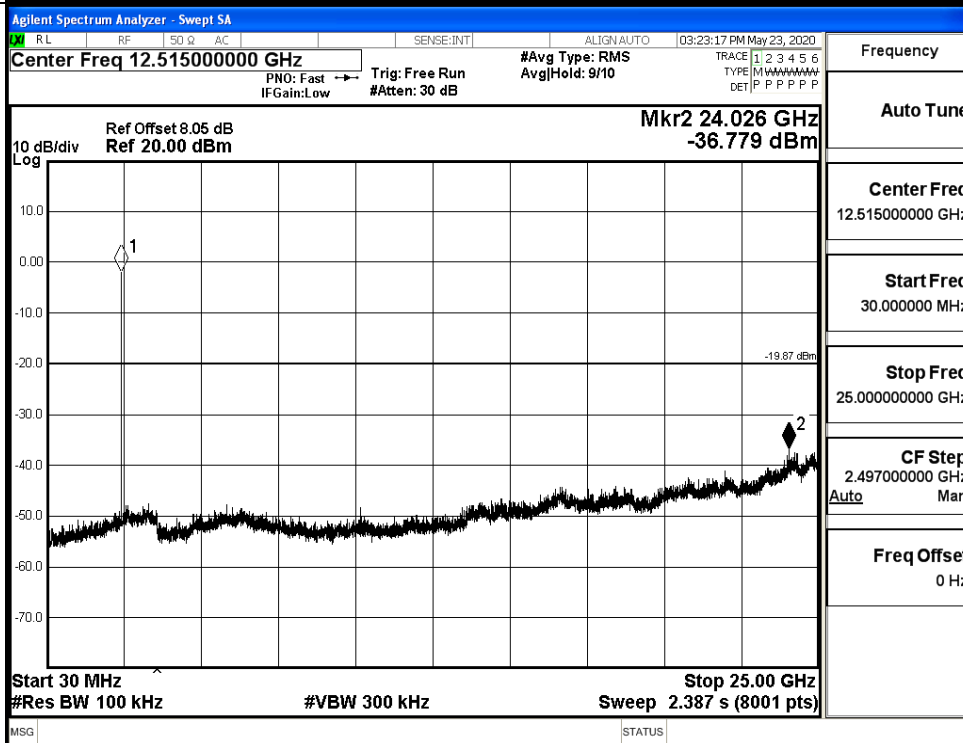


BT LE MCH Graphs

Pref/BT LE/MCH

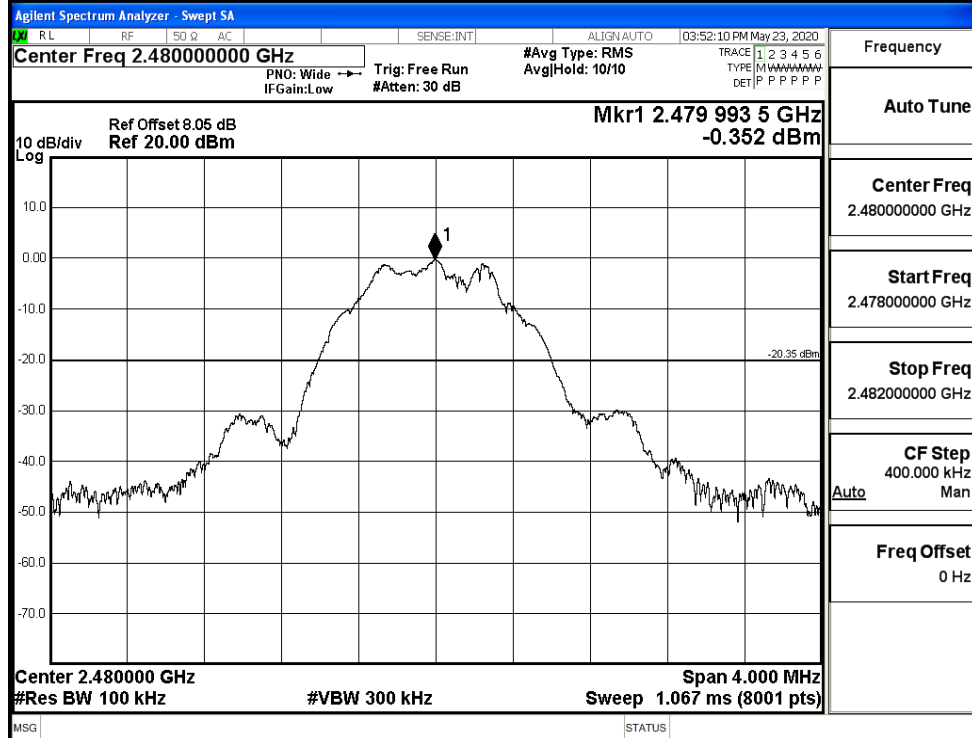


Puw/BT LE/MCH

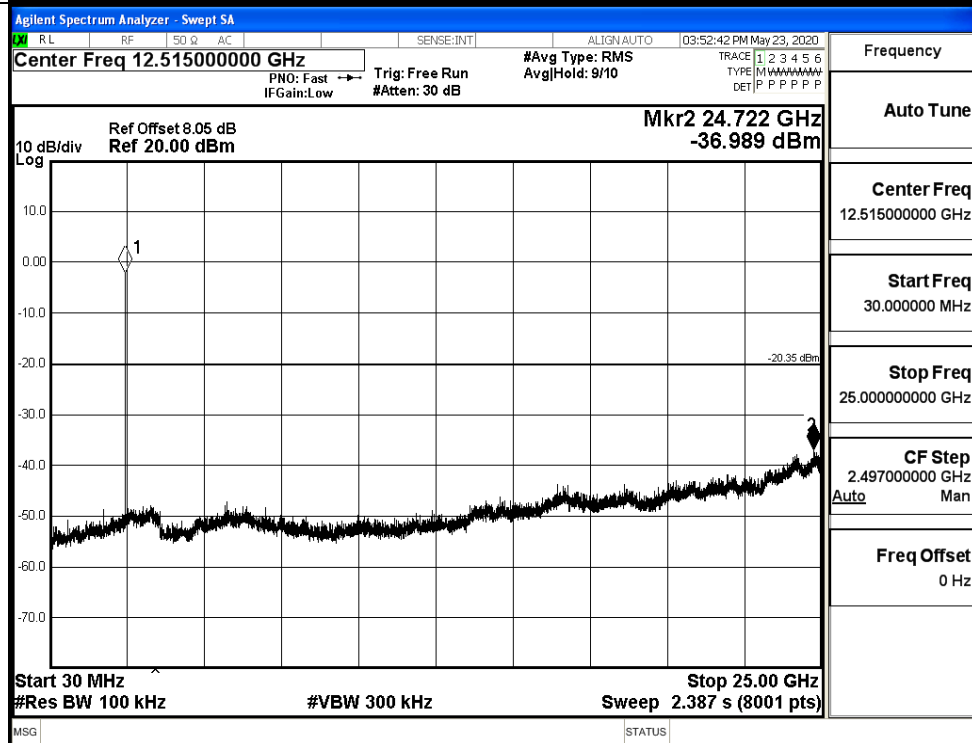


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

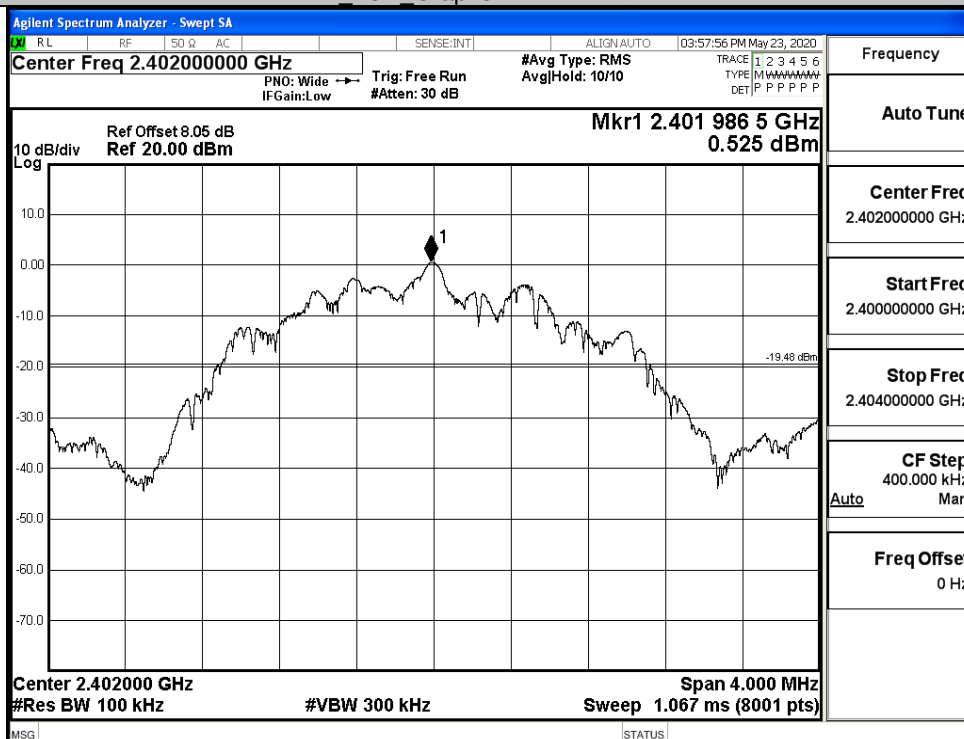


BT 2LE

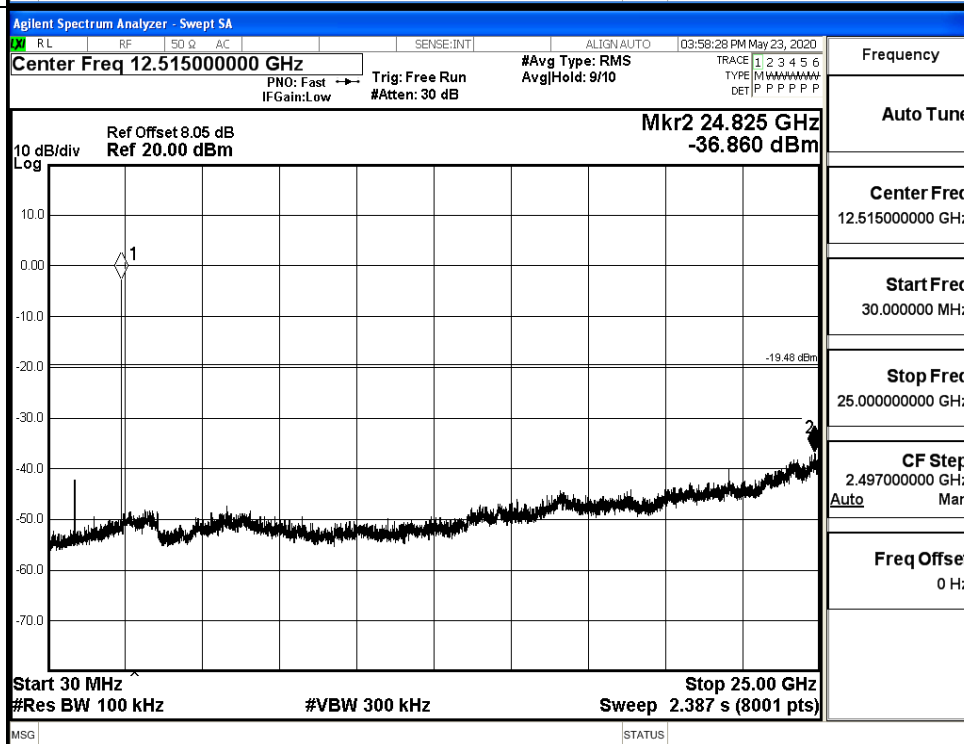
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.525	-36.860	-19.475	PASS
BT LE	MCH	0.13	-37.464	-19.870	PASS
BT LE	HCH	-0.486	-35.843	-20.486	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

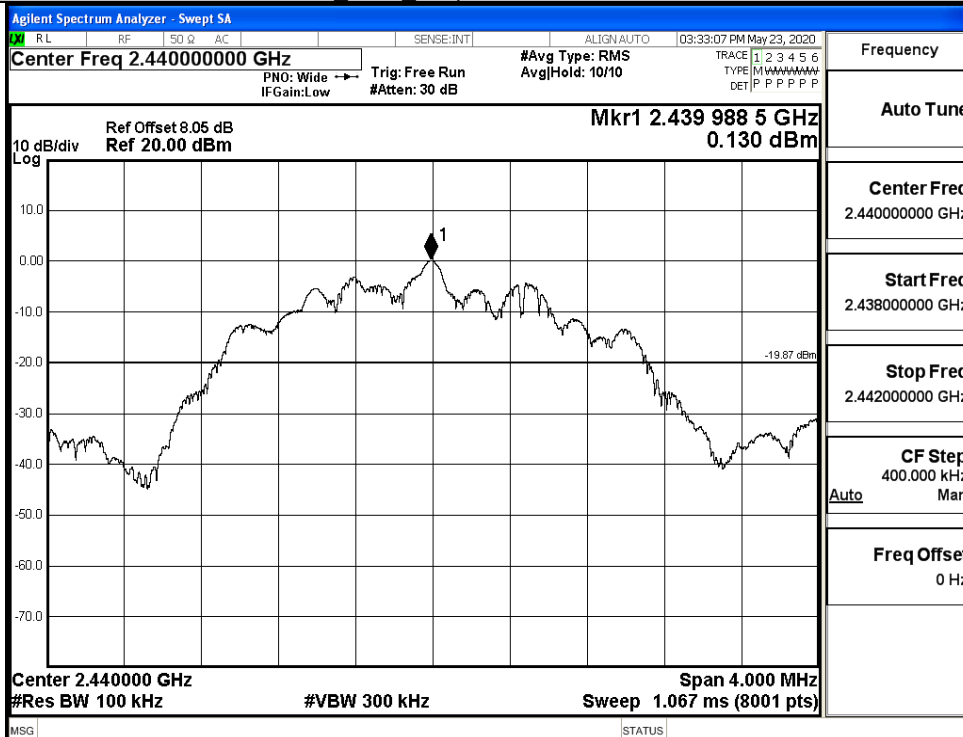


Puw/BT LE/LCH

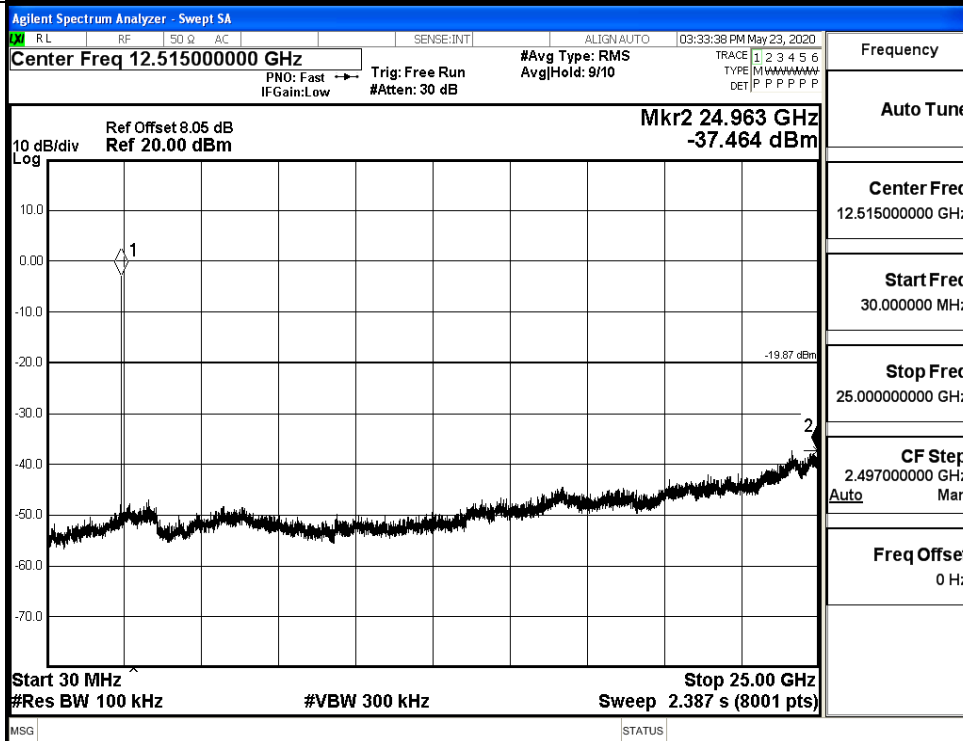


BT LE MCH Graphs

Pref/BT LE/MCH

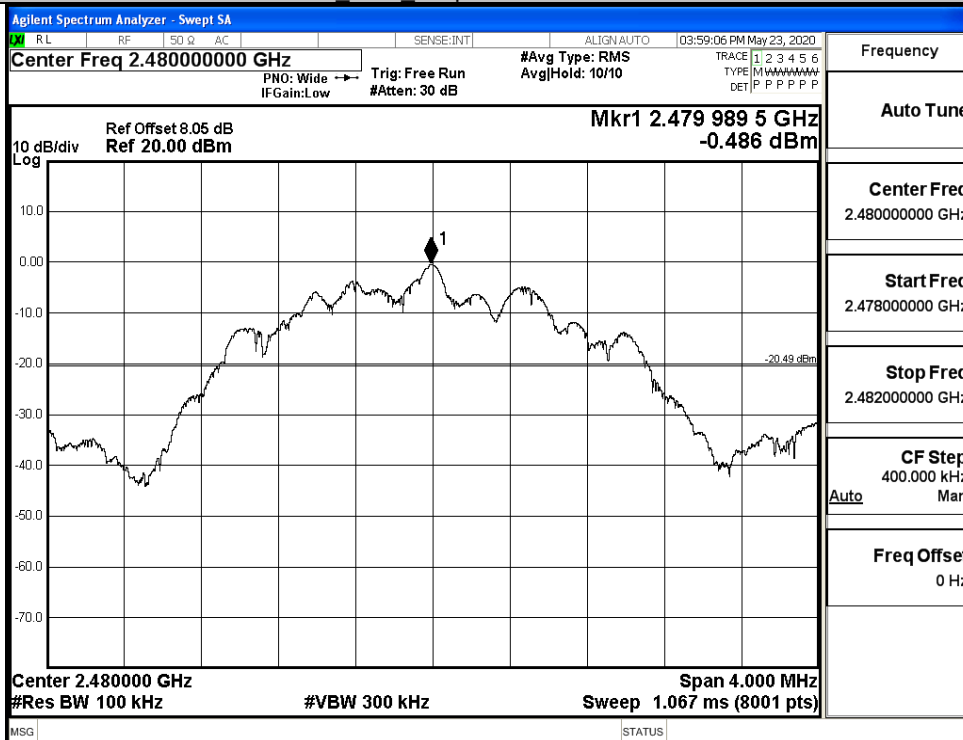


Puw/BT LE/MCH

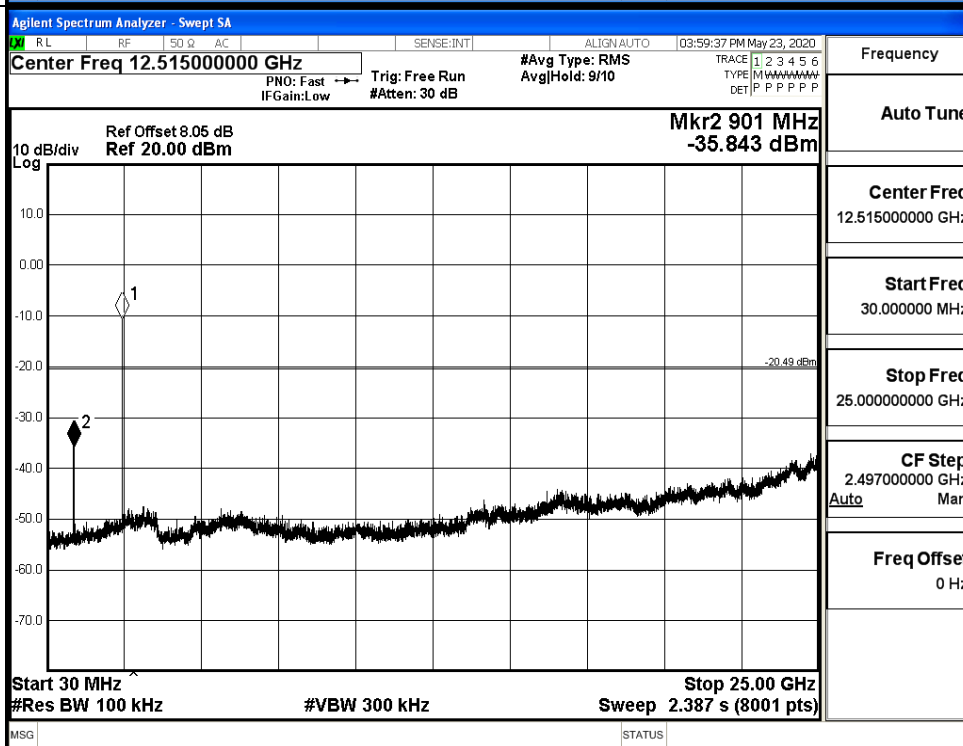


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



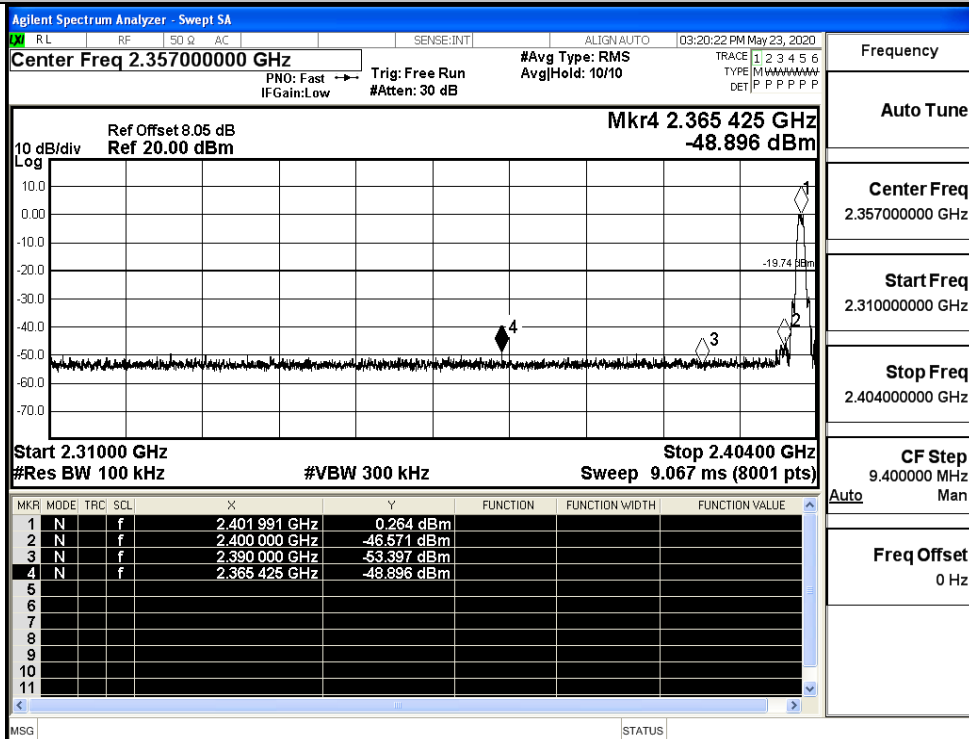
A.7 Band-edge for RF Conducted Emissions

BT LE

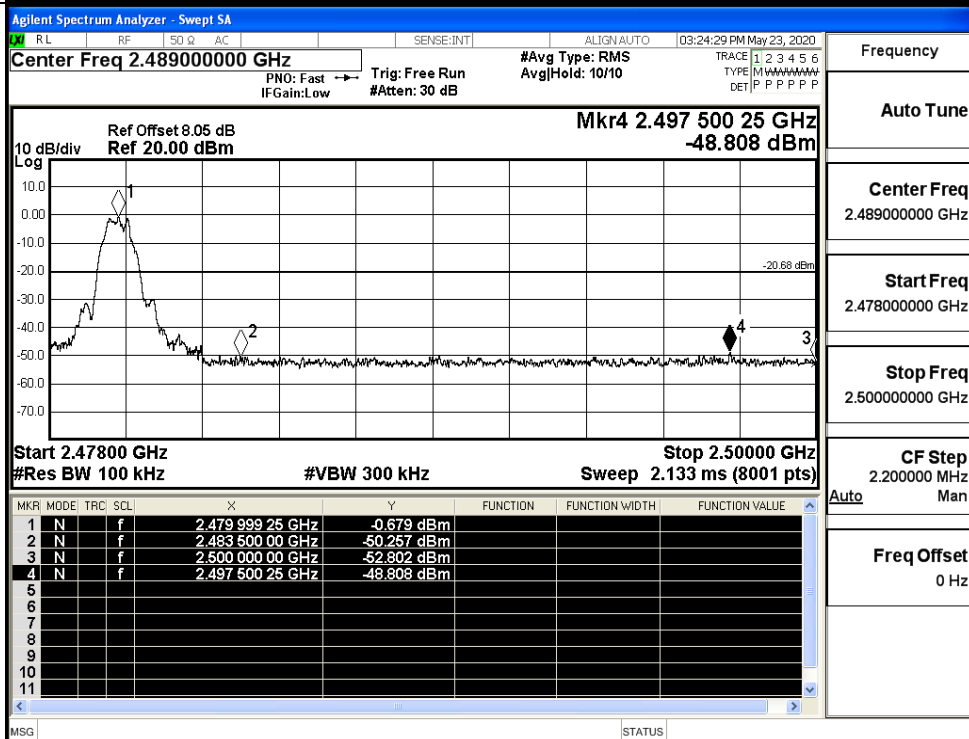
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.264	-48.896	-19.74	PASS
BT LE	HCH	-0.679	-48.808	-20.68	PASS

Test Graphs

LCH



HCH

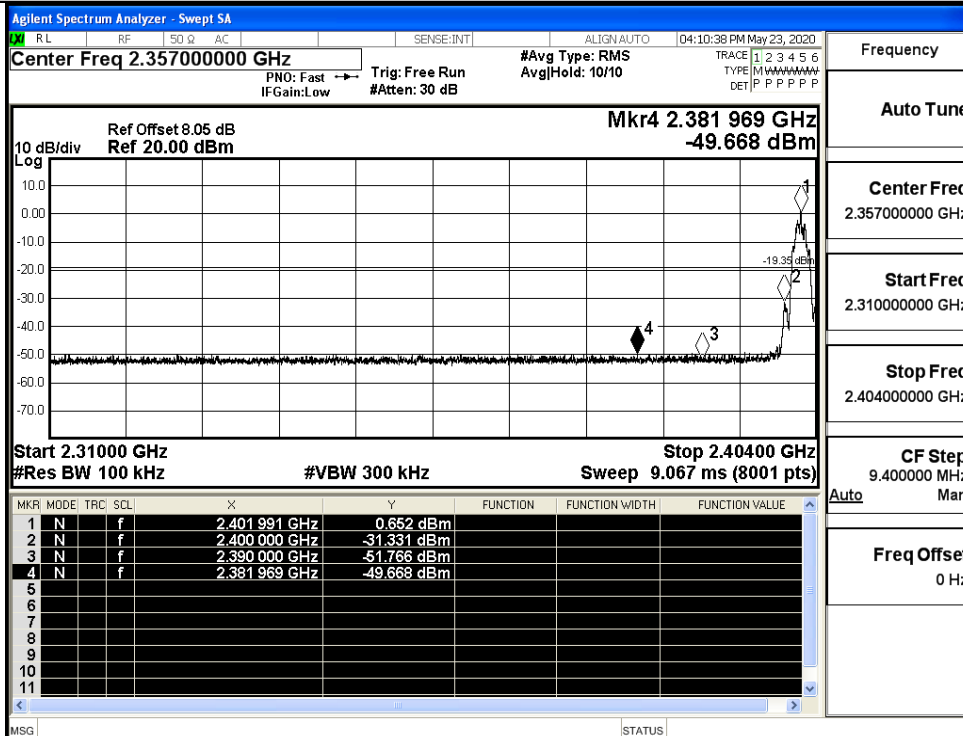


BT 2LE

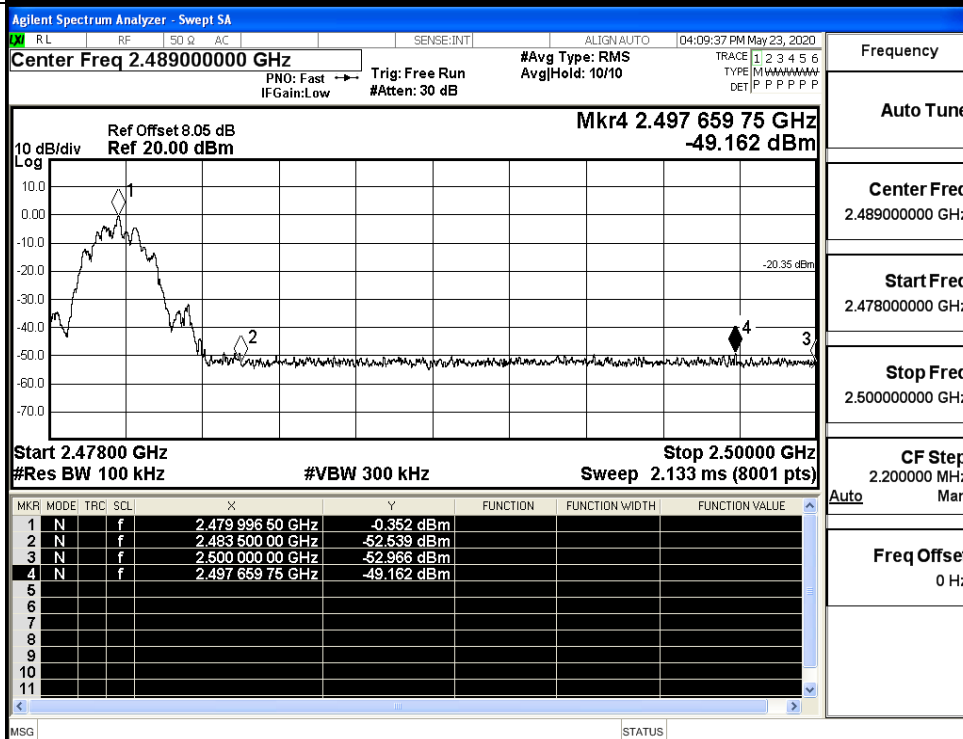
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.652	-49.668	-19.35	PASS
BT LE	HCH	-0.352	-49.162	-20.35	PASS

Test Graphs

LCH



HCH

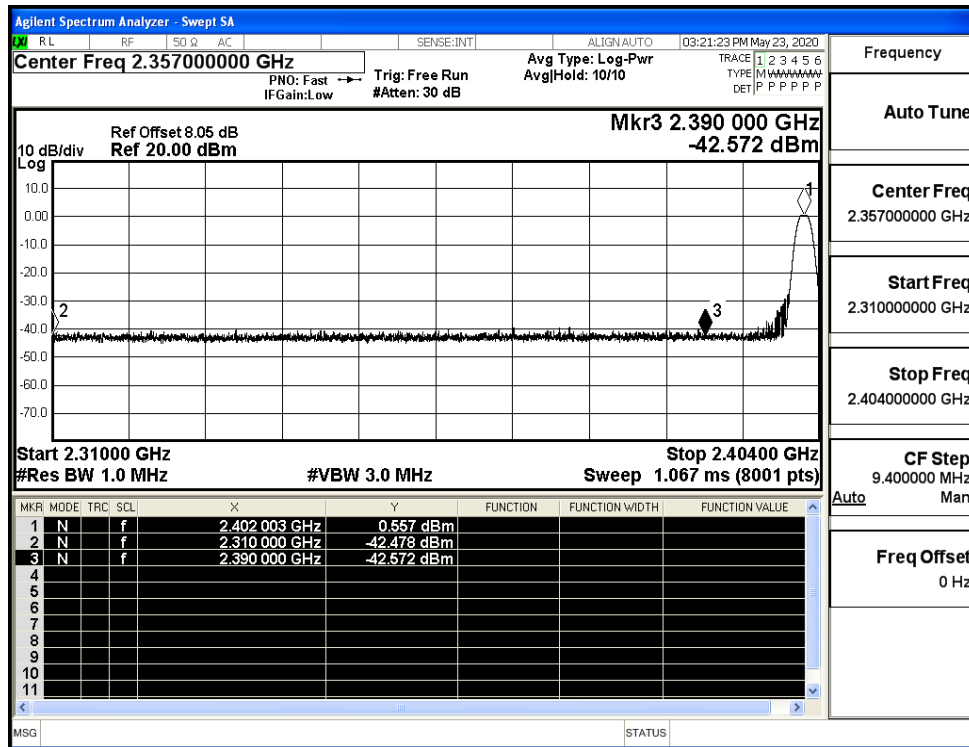


A.8 Restrict-band band-edge measurements

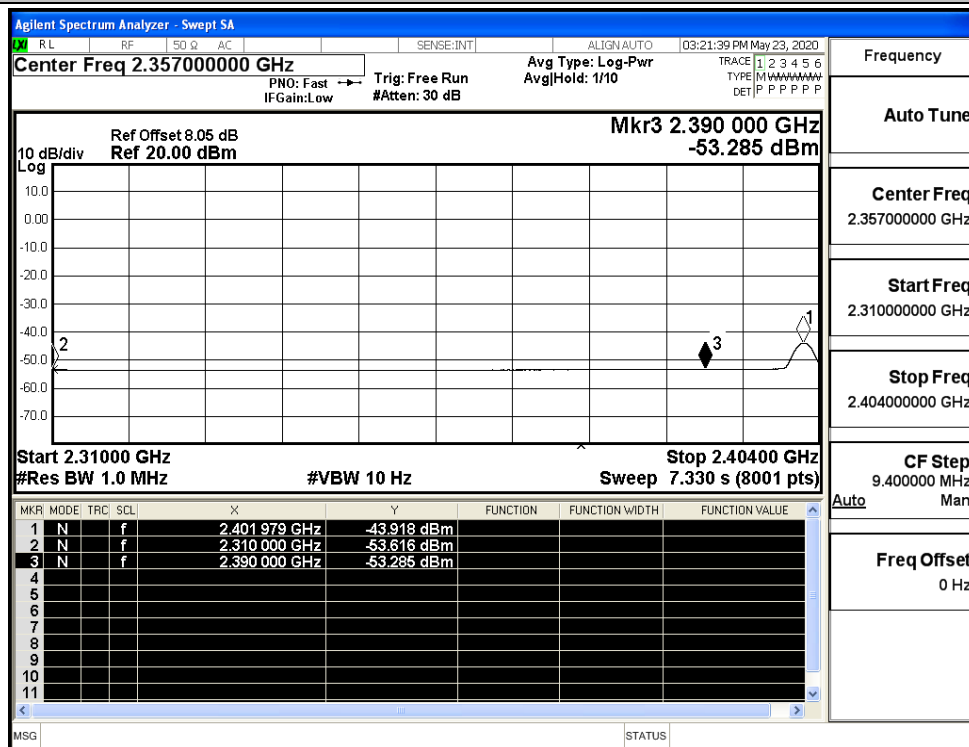
BT LE

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	-42.48	4.04	0	56.82	PEAK	74	PASS
		Ant1	2310.0	-53.62	4.04	0	45.68	AV	54	PASS
		Ant1	2390.0	-42.57	4.04	0	56.73	PEAK	74	PASS
		Ant1	2390.0	-53.29	4.04	0	46.01	AV	54	PASS
	2480	Ant1	2483.5	-42.67	4.04	0	56.63	PEAK	74	PASS
		Ant1	2483.5	-52.81	4.04	0	46.49	AV	54	PASS
		Ant1	2500.0	-42.08	4.04	0	57.22	PEAK	74	PASS
		Ant1	2500.0	-52.64	4.04	0	46.66	AV	54	PASS

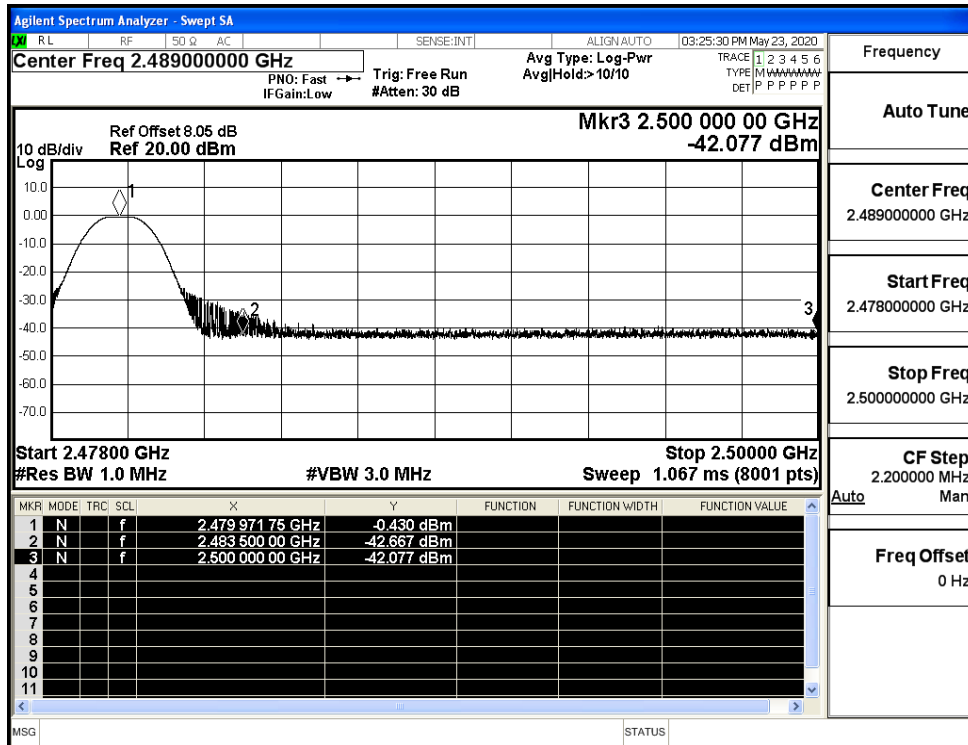
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



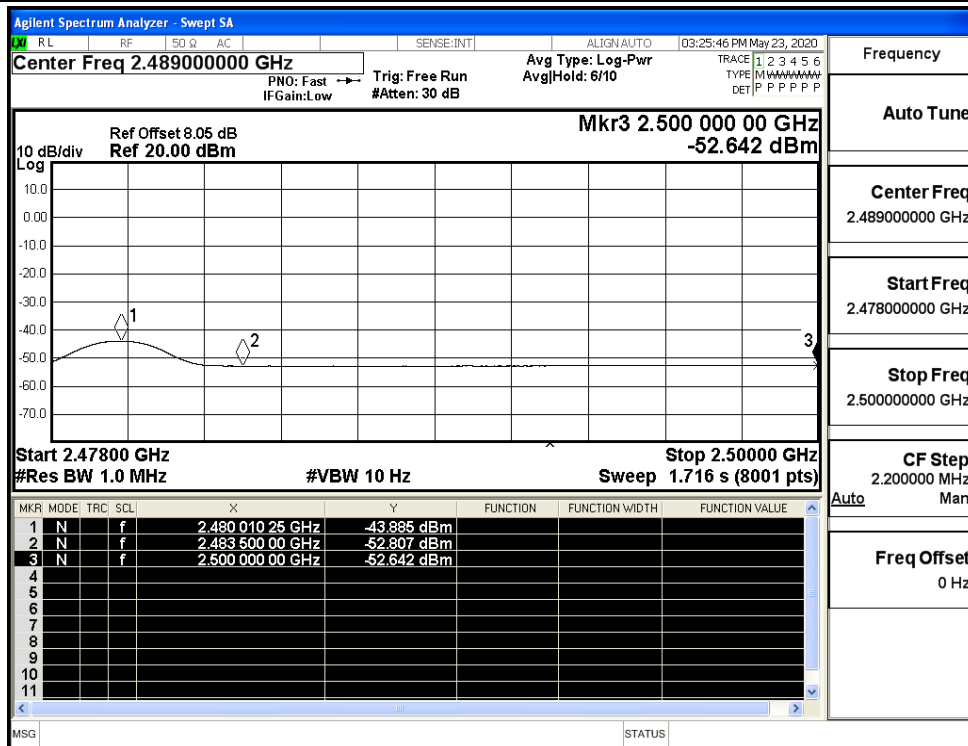
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



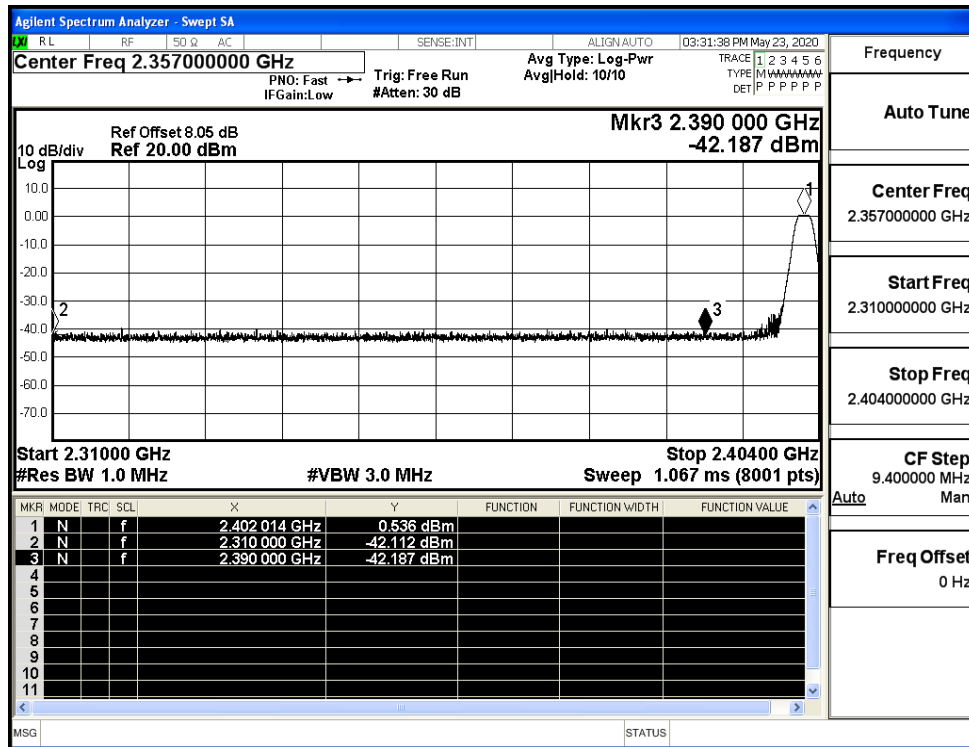
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



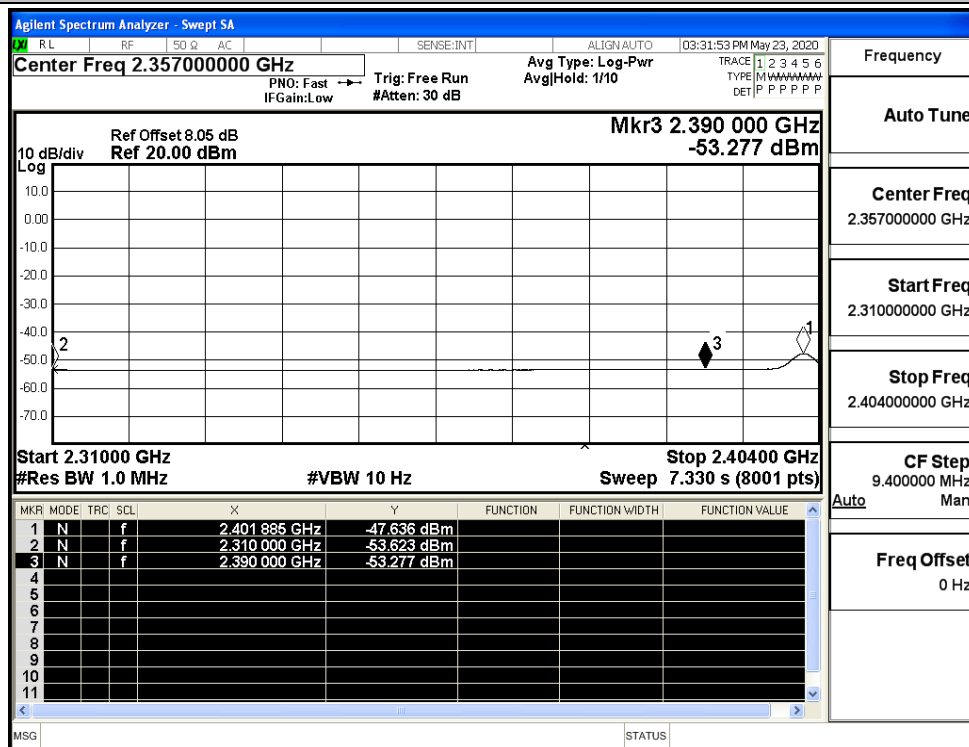
BT 2LE

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	-42.11	4.04	0	57.19	PEAK	74	PASS
		Ant1	2310.0	-53.62	4.04	0	45.68	AV	54	PASS
		Ant1	2390.0	-42.19	4.04	0	57.11	PEAK	74	PASS
		Ant1	2390.0	-53.28	4.04	0	46.02	AV	54	PASS
	2480	Ant1	2483.5	-39.09	4.04	0	60.21	PEAK	74	PASS
		Ant1	2483.5	-52.72	4.04	0	46.58	AV	54	PASS
		Ant1	2500.0	-41.17	4.04	0	58.13	PEAK	74	PASS
		Ant1	2500.0	-52.65	4.04	0	46.65	AV	54	PASS

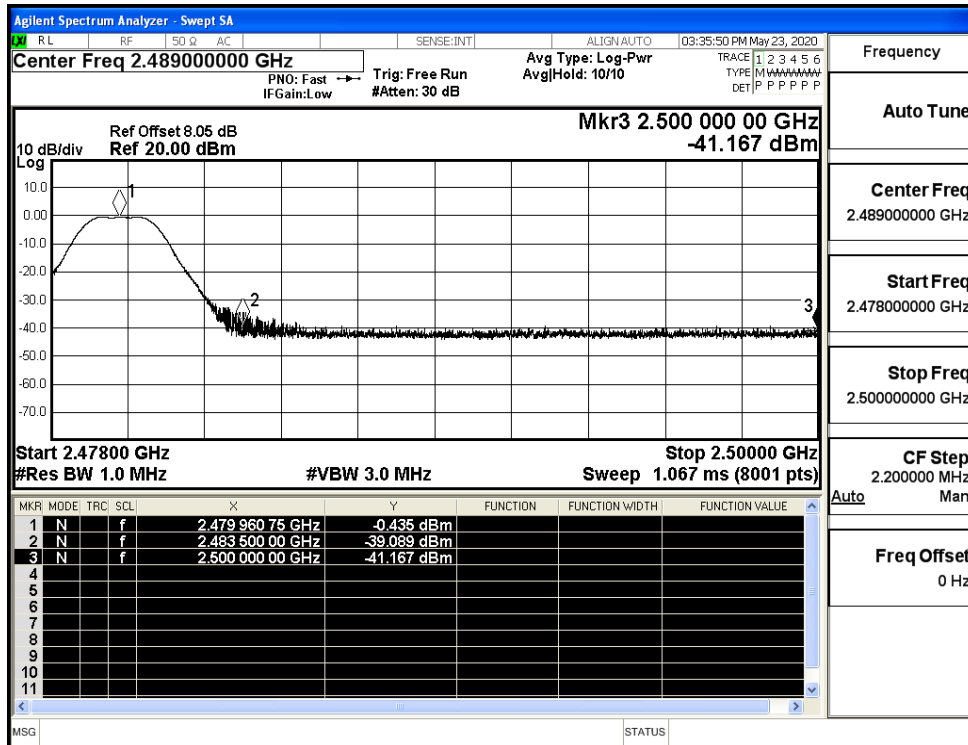
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

