

Appendix B

RF Test Data for BT LE V4.1(Conducted Measurement)

Product Name: Tablet PC

Trade Mark: Motumatation

Test Model: MTab8

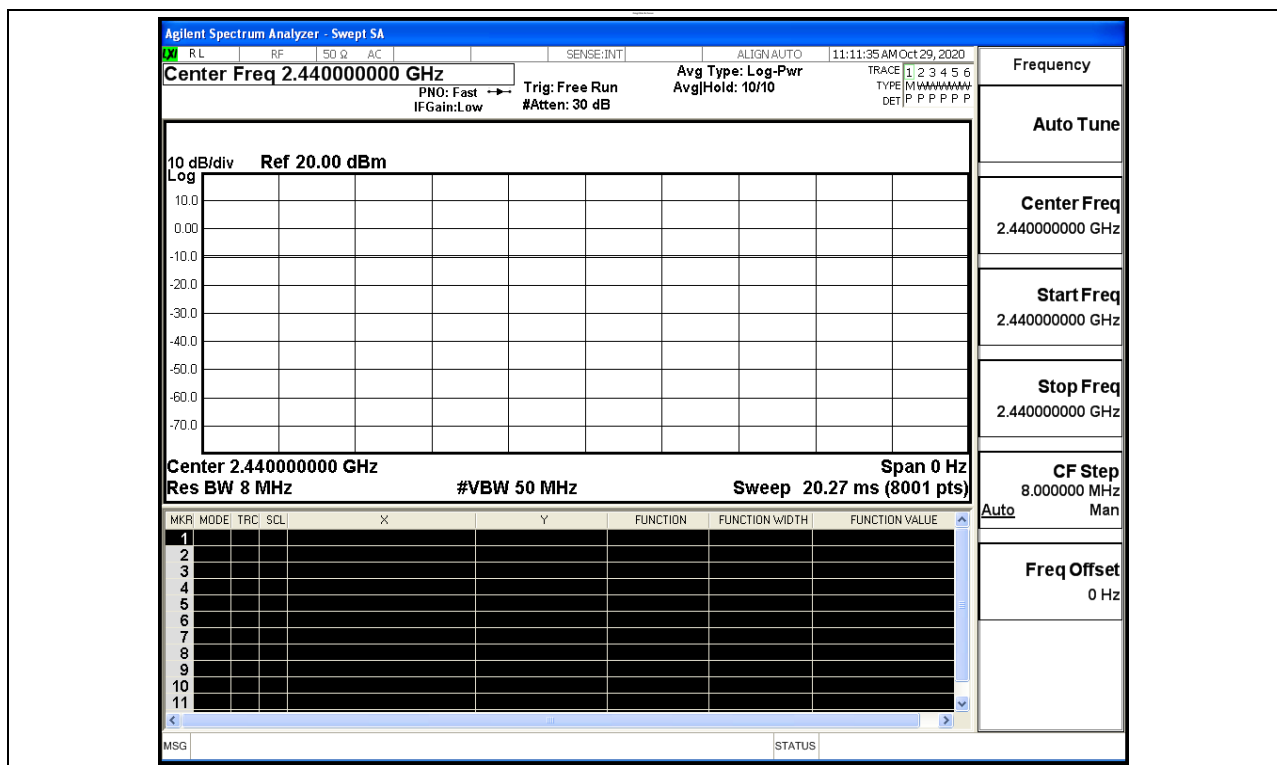
Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

B.1 Duty Cycle

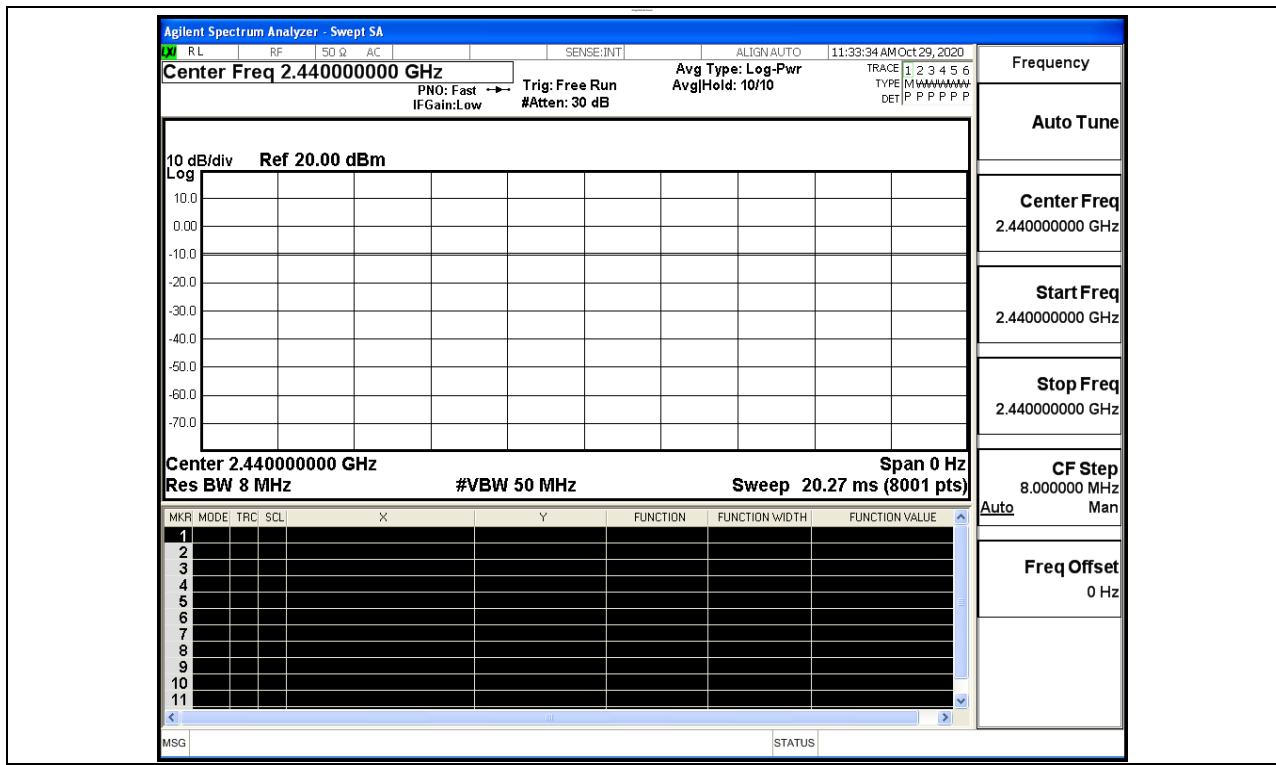
BT LE

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



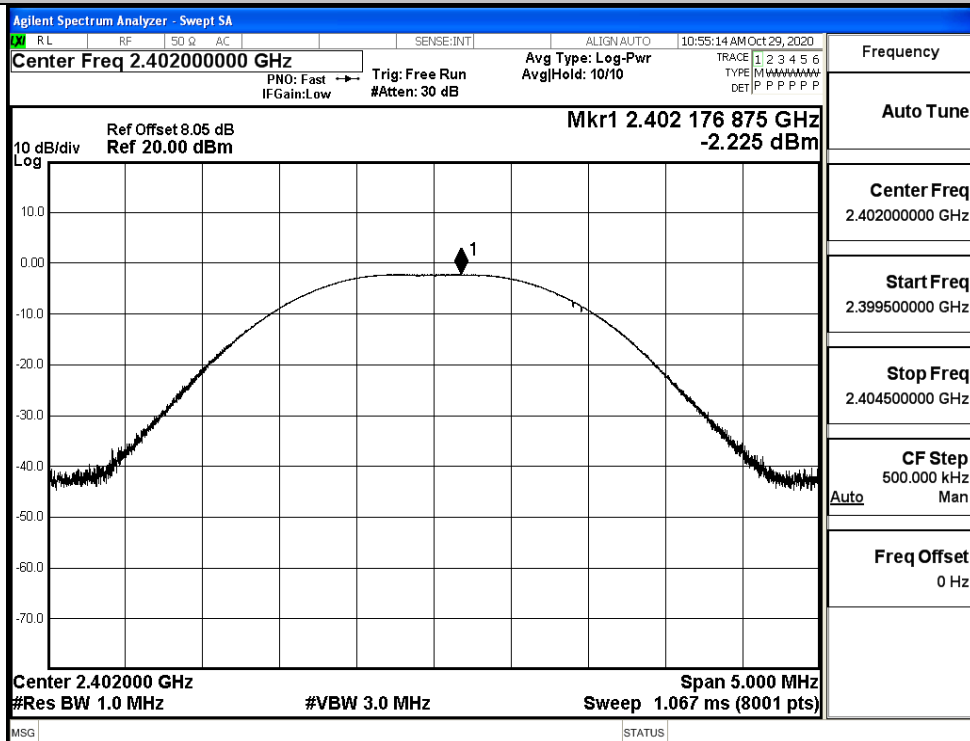
B.2 Maximum Conducted Peak Output Power

BT LE

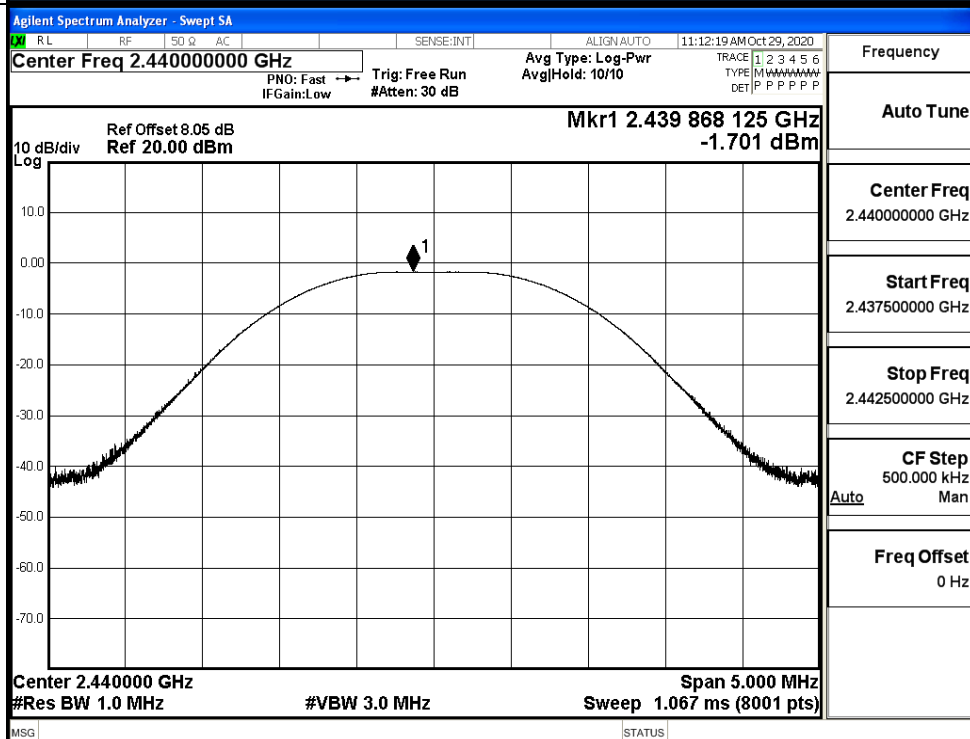
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.225	30	PASS
BT LE	MCH	-1.701	30	PASS
BT LE	HCH	-1.807	30	PASS

Test Graphs

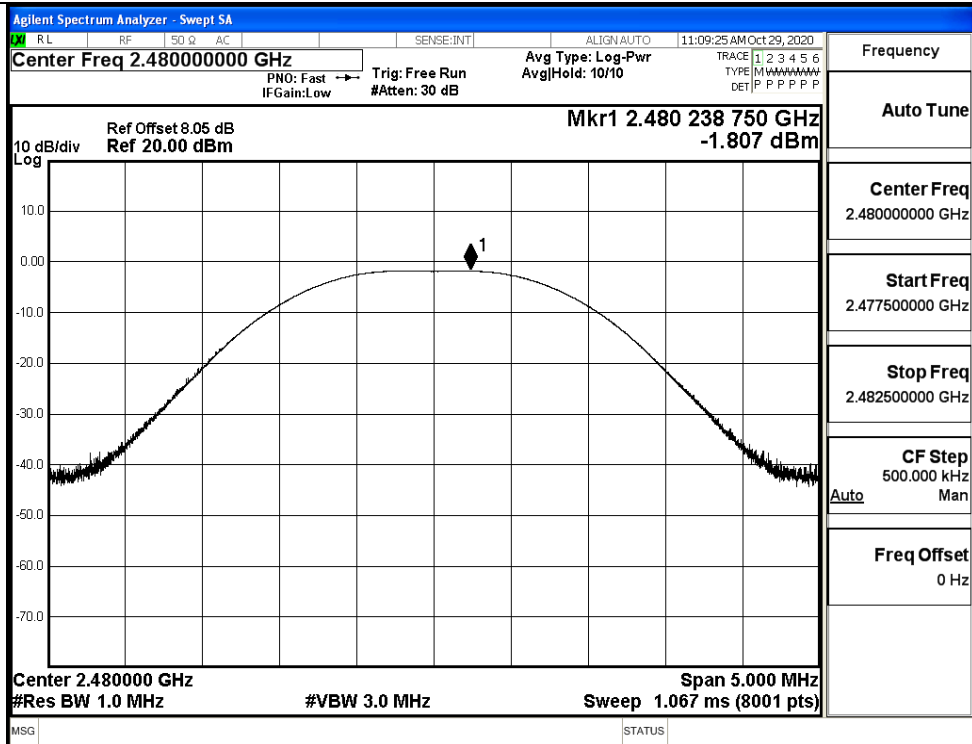
LCH



MCH



HCH

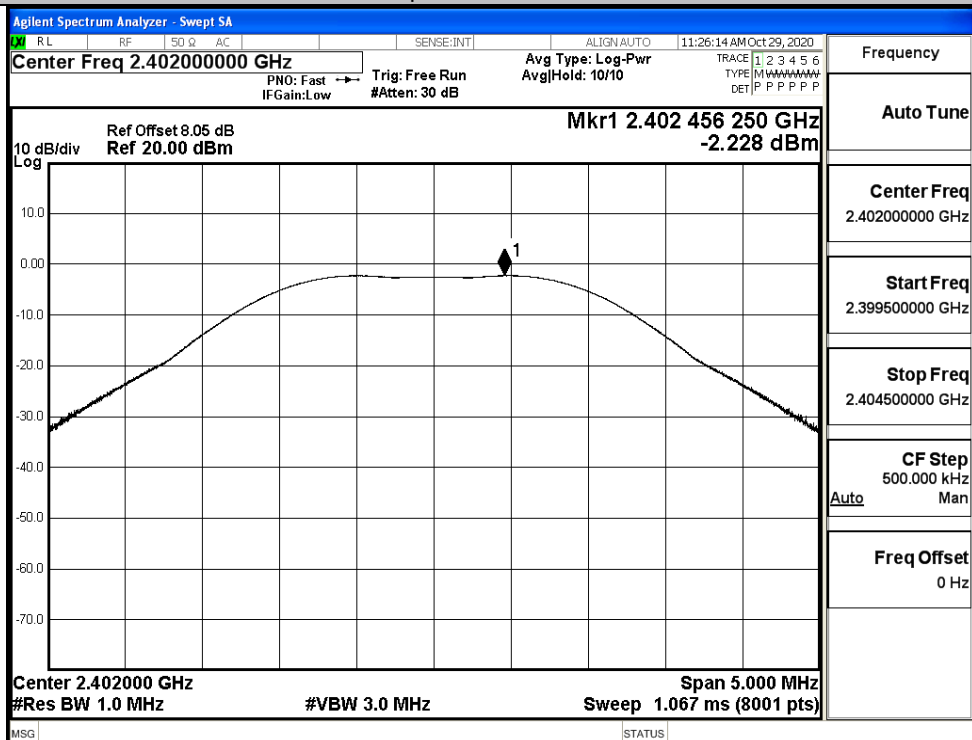


BT 2LE

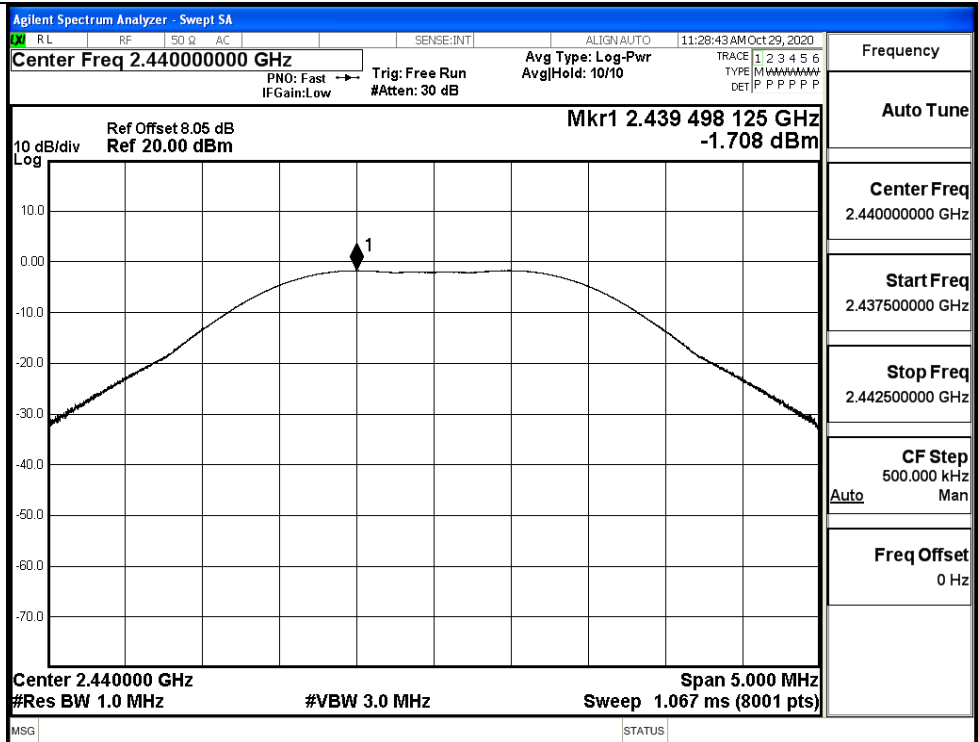
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.228	30	PASS
BT LE	MCH	-1.708	30	PASS
BT LE	HCH	-1.814	30	PASS

Test Graphs

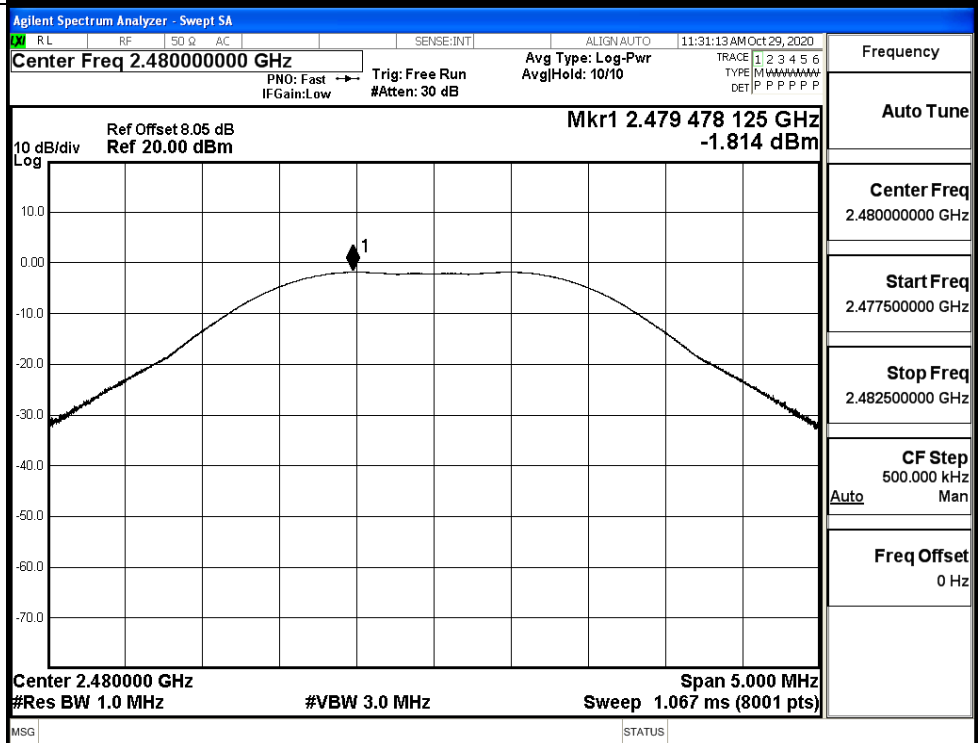
LCH



MCH



HCH



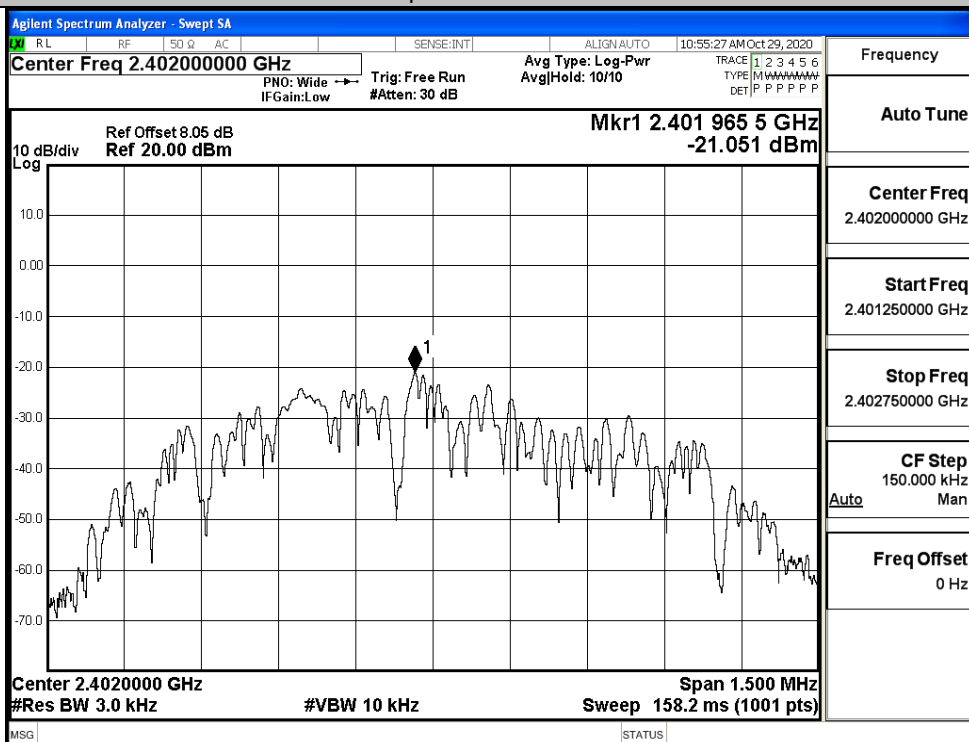
B.3 Maximum Power Spectral Density

BT LE

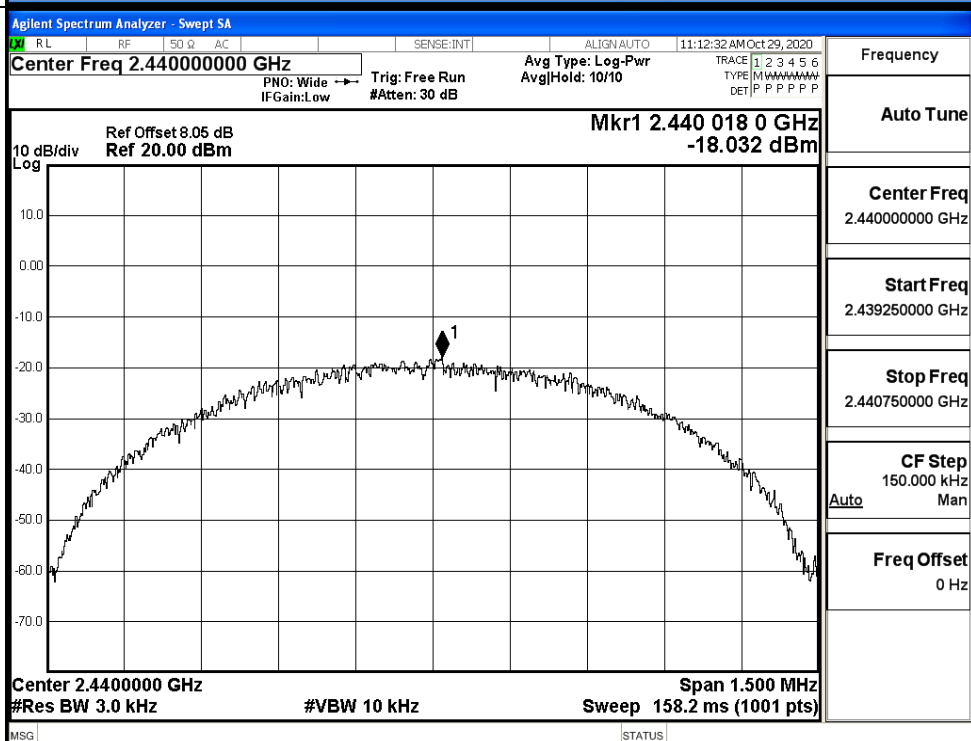
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.051	8	PASS
BT LE	MCH	-18.032	8	PASS
BT LE	HCH	-18.525	8	PASS

Test Graphs

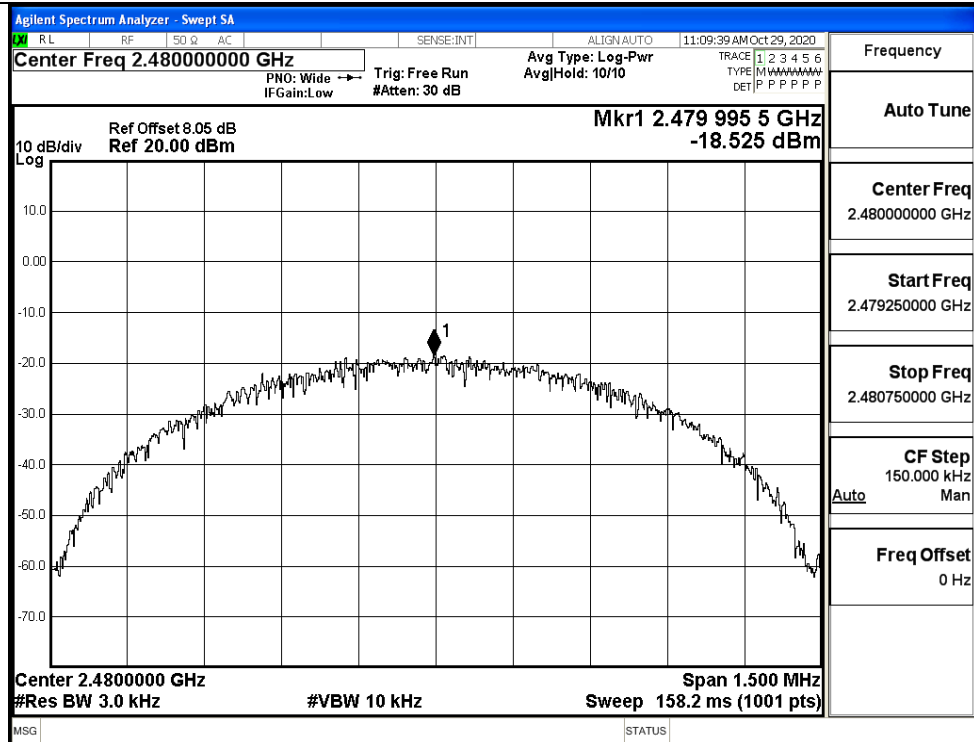
LCH



MCH



HCH

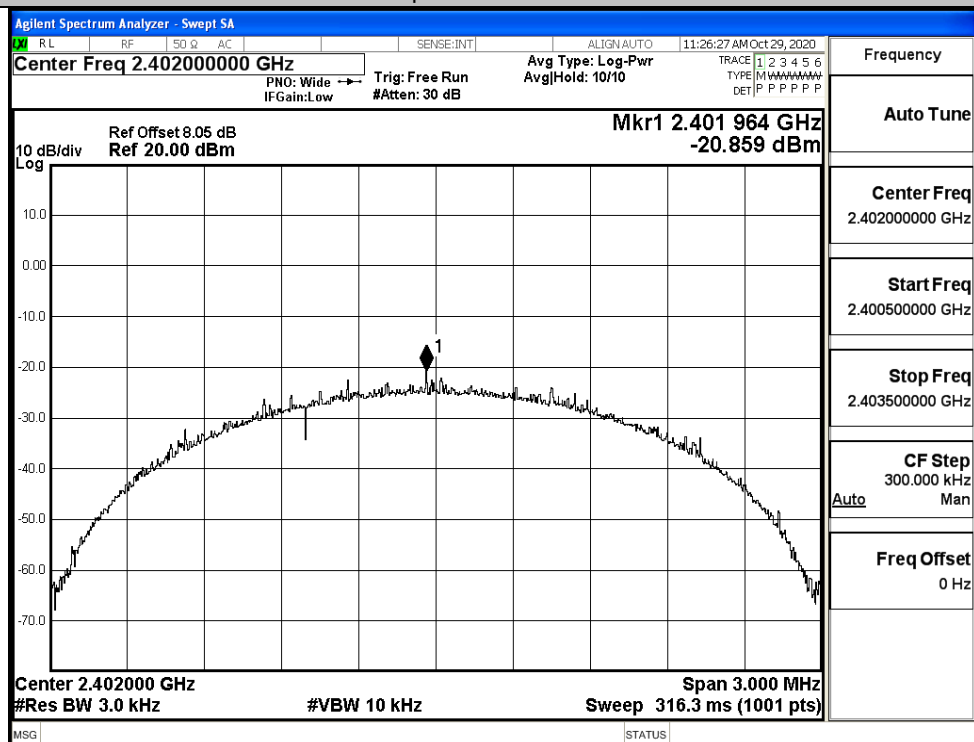


BT 2LE

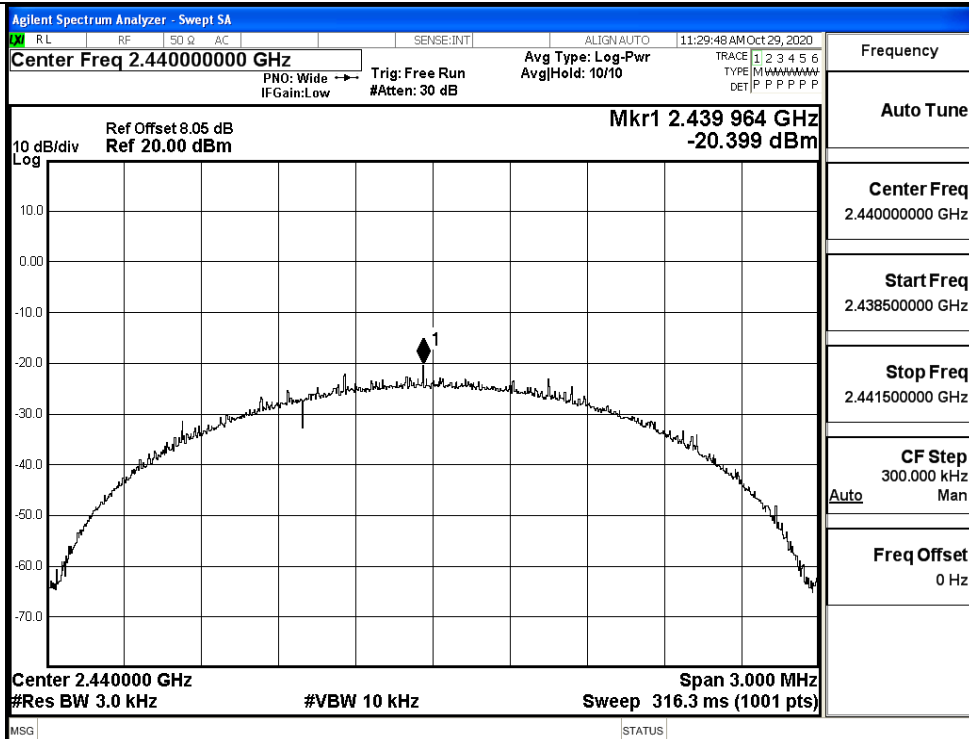
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-20.859	8	PASS
BT LE	MCH	-20.399	8	PASS
BT LE	HCH	-20.575	8	PASS

Test Graphs

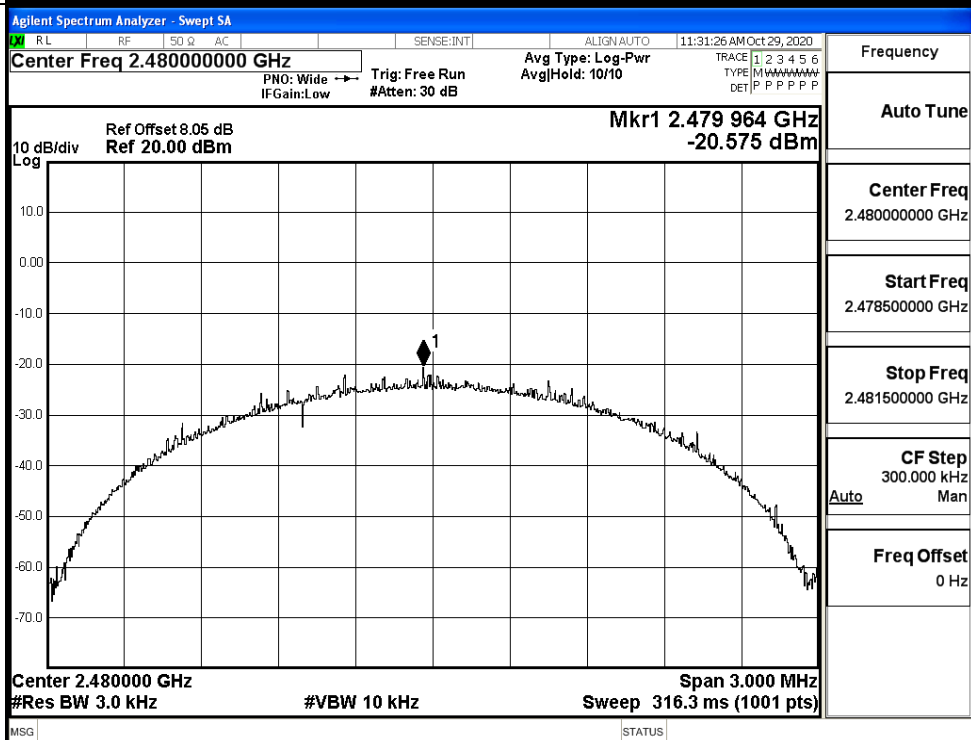
LCH



MCH



HCH



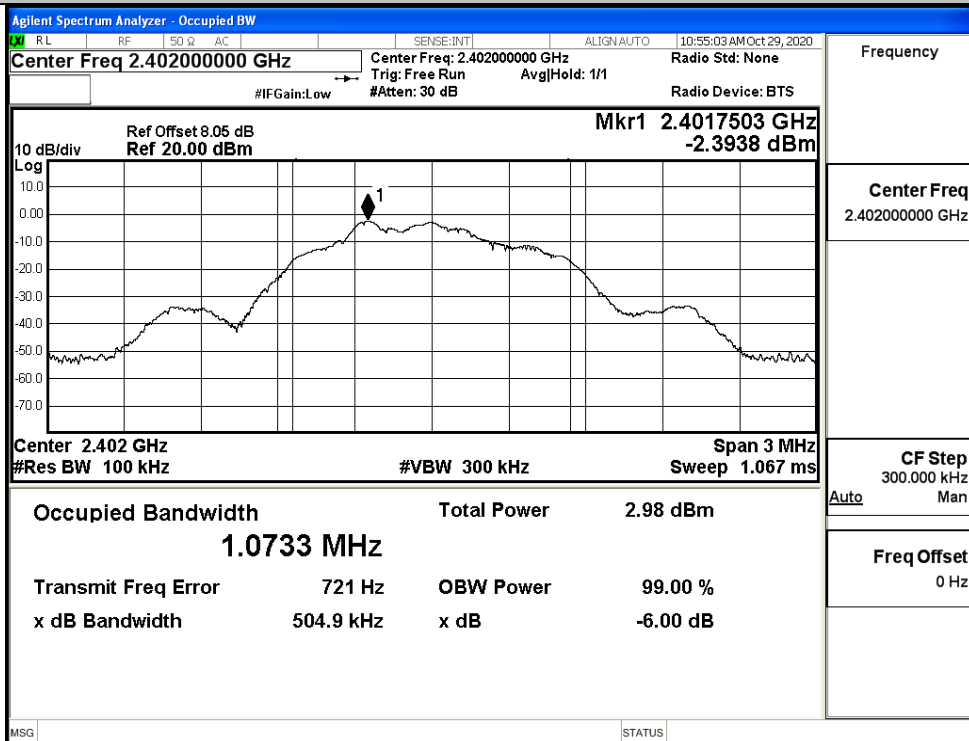
B.4 6dB Bandwidth

BT LE

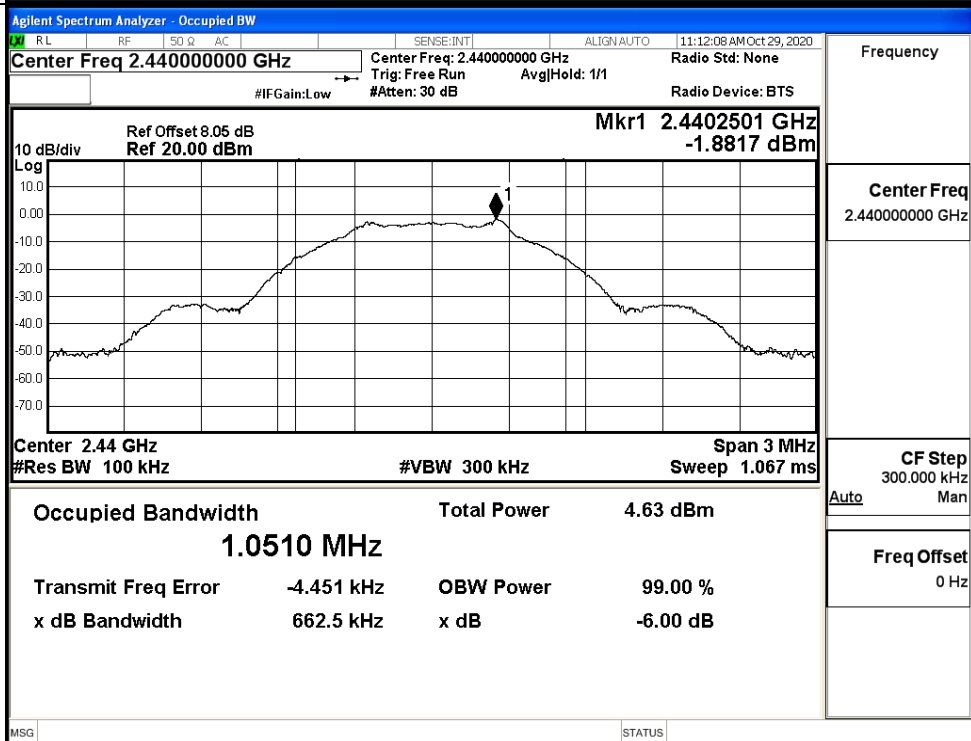
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5049	≥ 0.5	PASS
BT LE	MCH	0.6625	≥ 0.5	PASS
BT LE	HCH	0.6626	≥ 0.5	PASS

Test Graphs

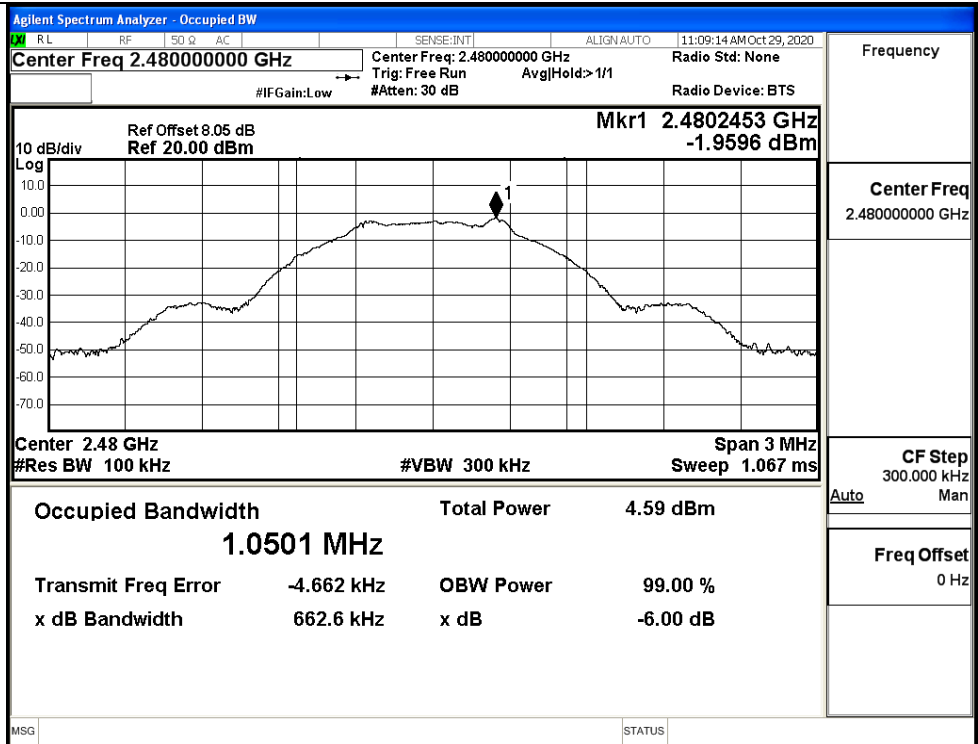
LCH



MCH



HCH

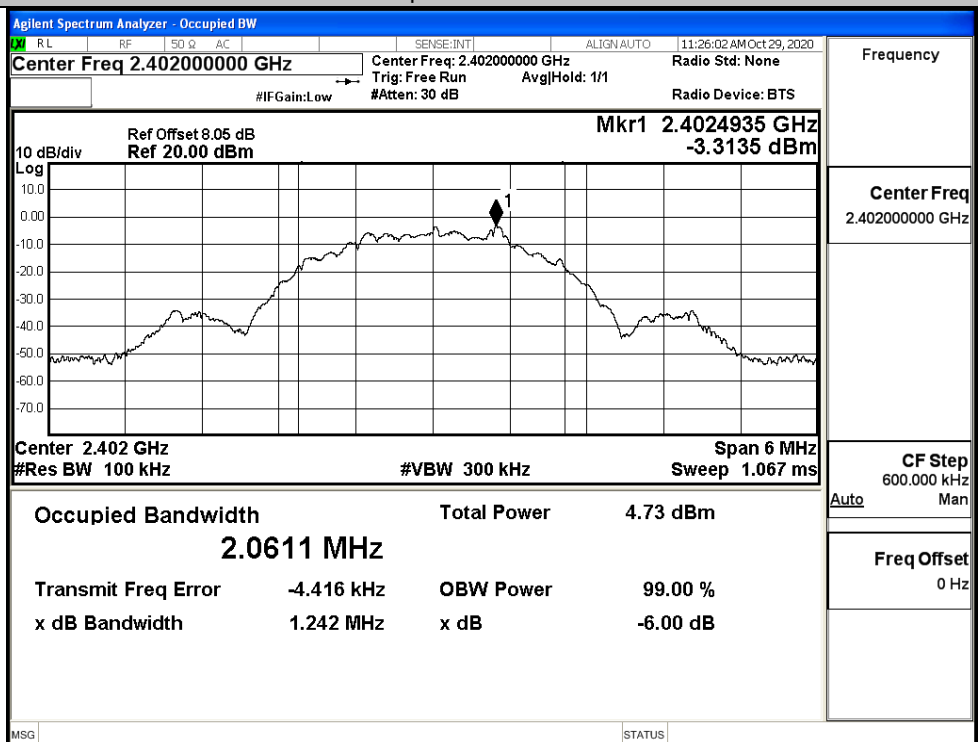


BT 2LE

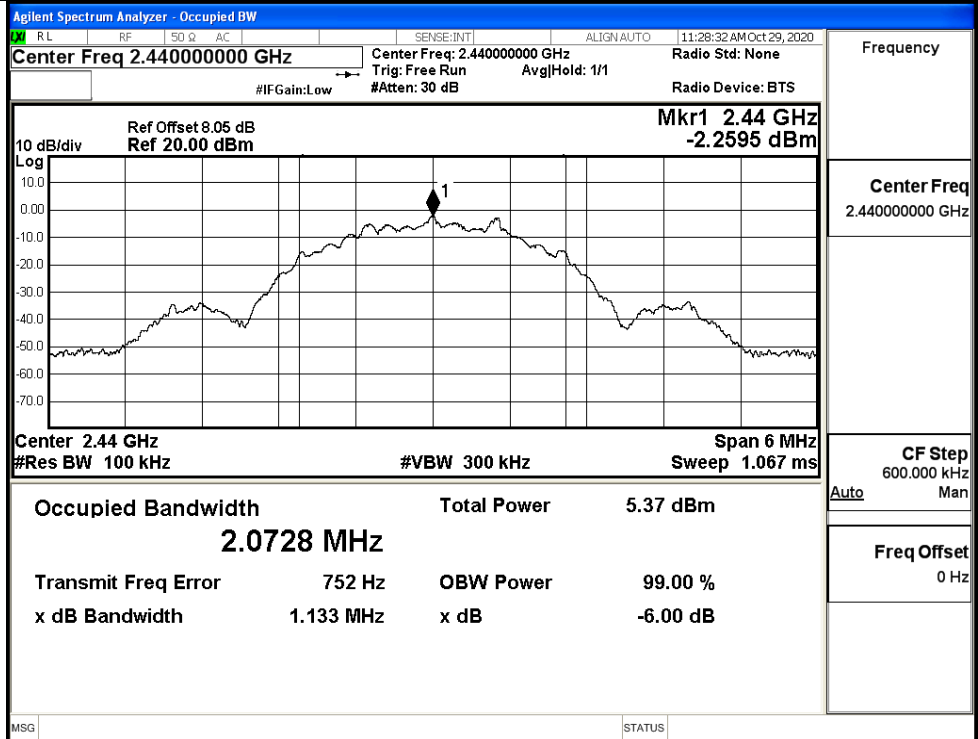
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.242	≥ 0.5	PASS
BT LE	MCH	1.133	≥ 0.5	PASS
BT LE	HCH	1.157	≥ 0.5	PASS

Test Graphs

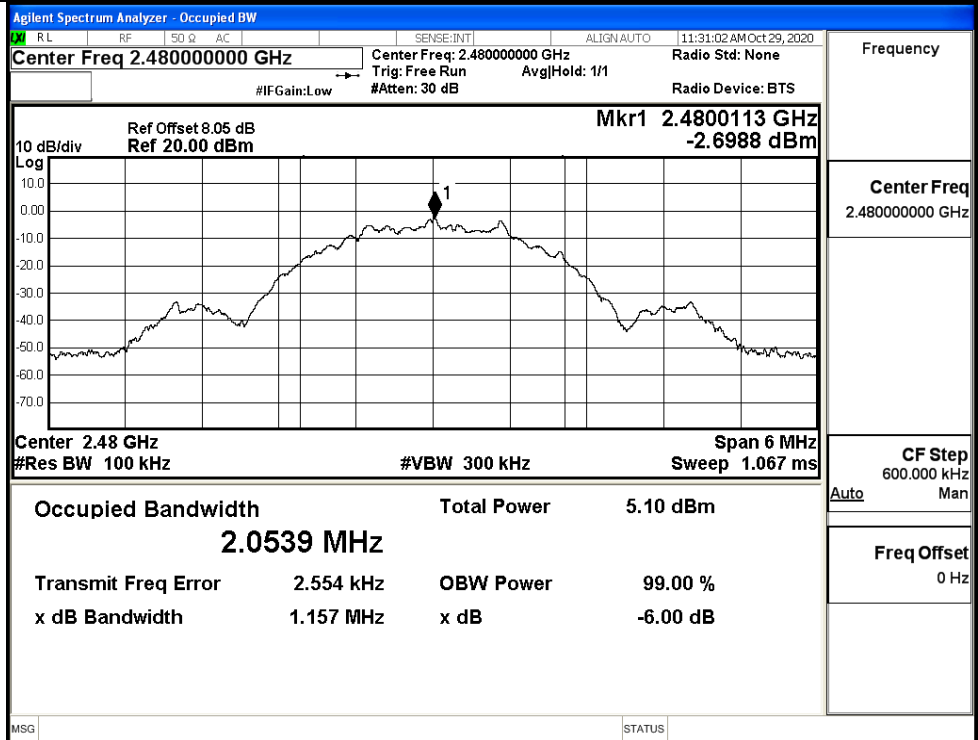
LCH



MCH



HCH

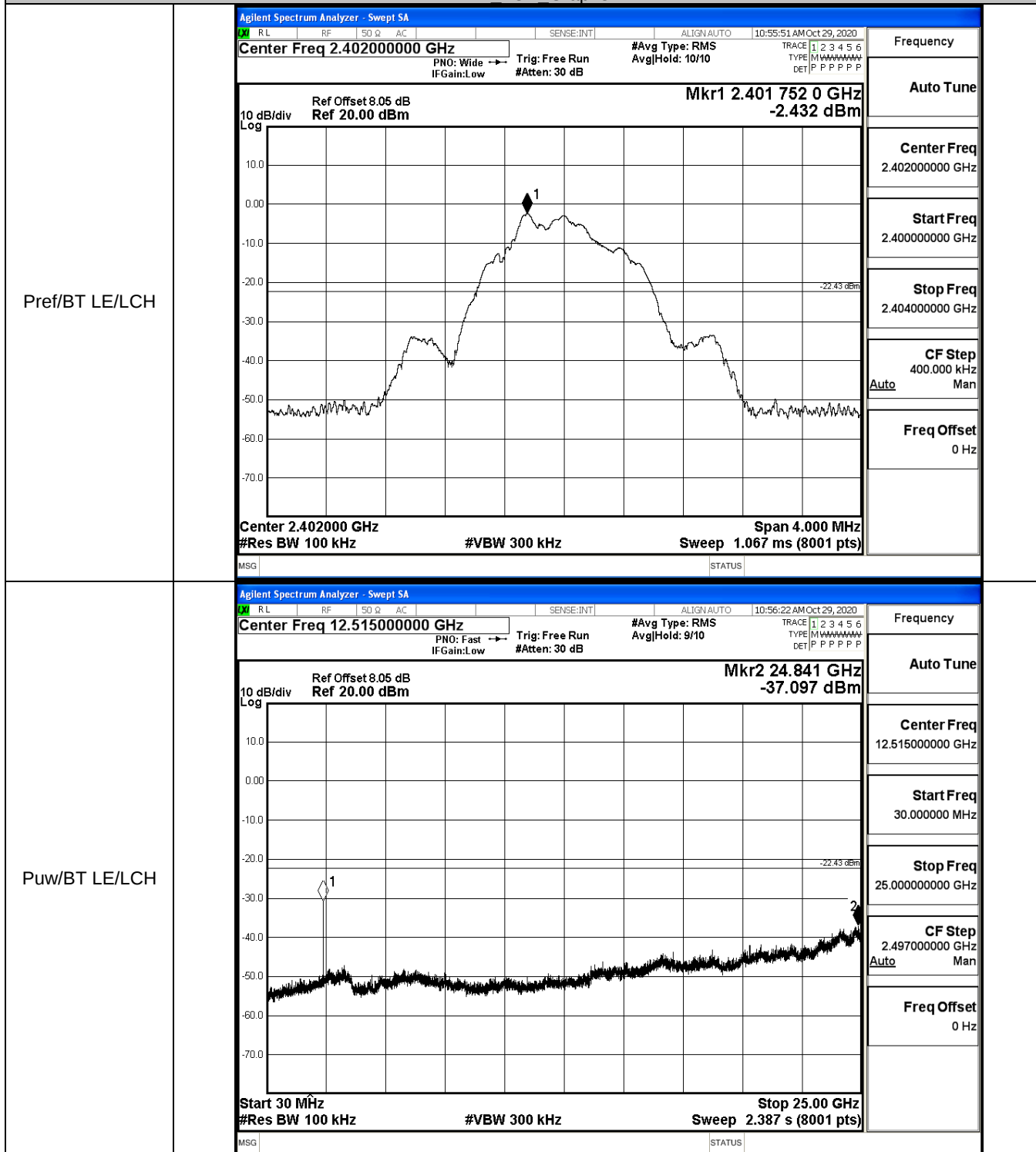


B.5 RF Conducted Spurious Emissions

BT LE

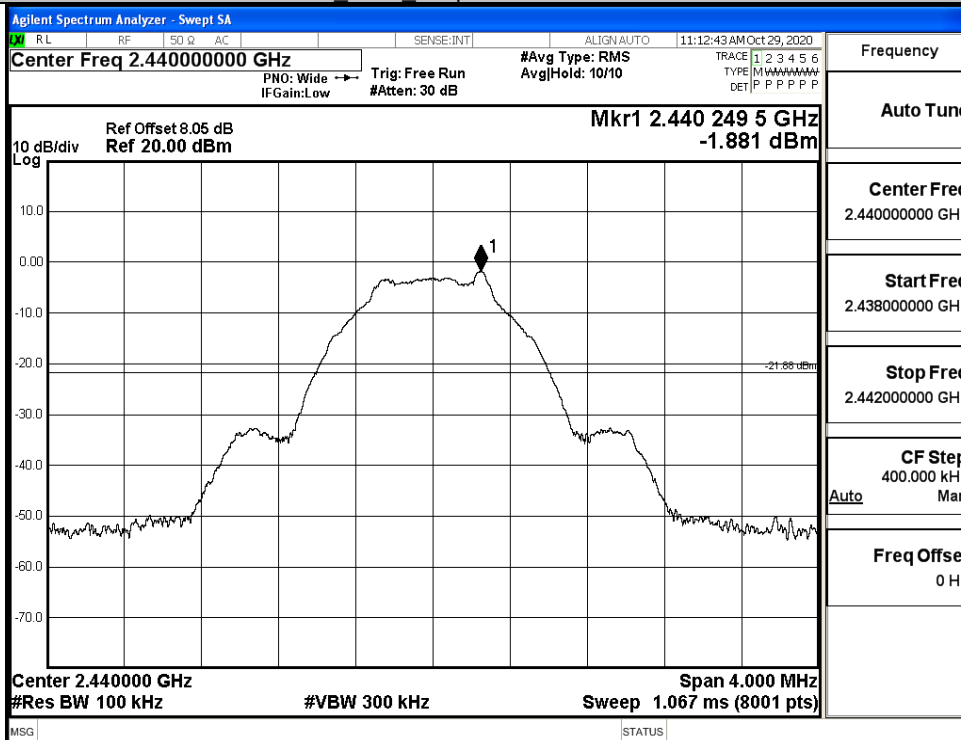
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.432	-37.097	-22.432	PASS
BT LE	MCH	-1.881	-37.044	-21.881	PASS
BT LE	HCH	-2.763	-36.820	-22.763	PASS

BT LE LCH Graphs

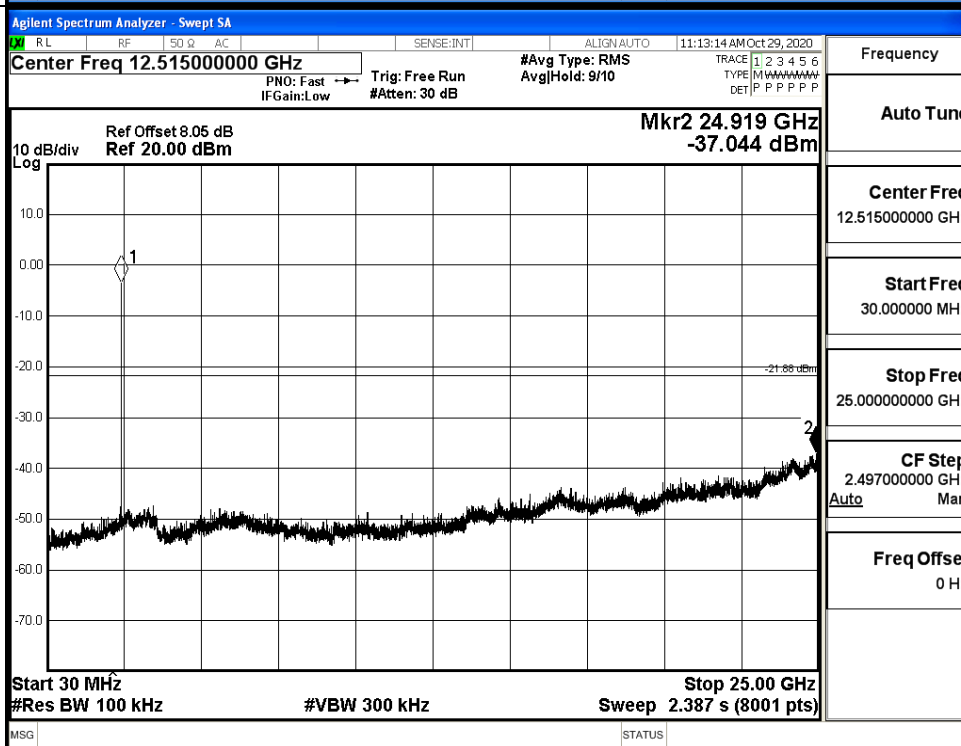


BT LE MCH Graphs

Pref/BT LE/MCH

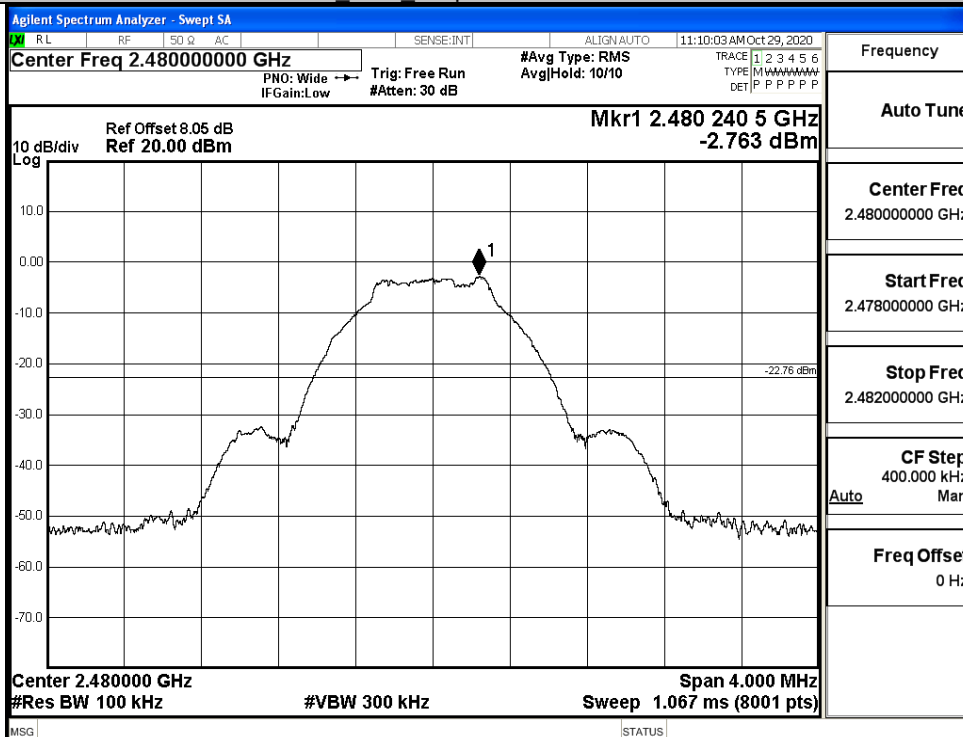


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

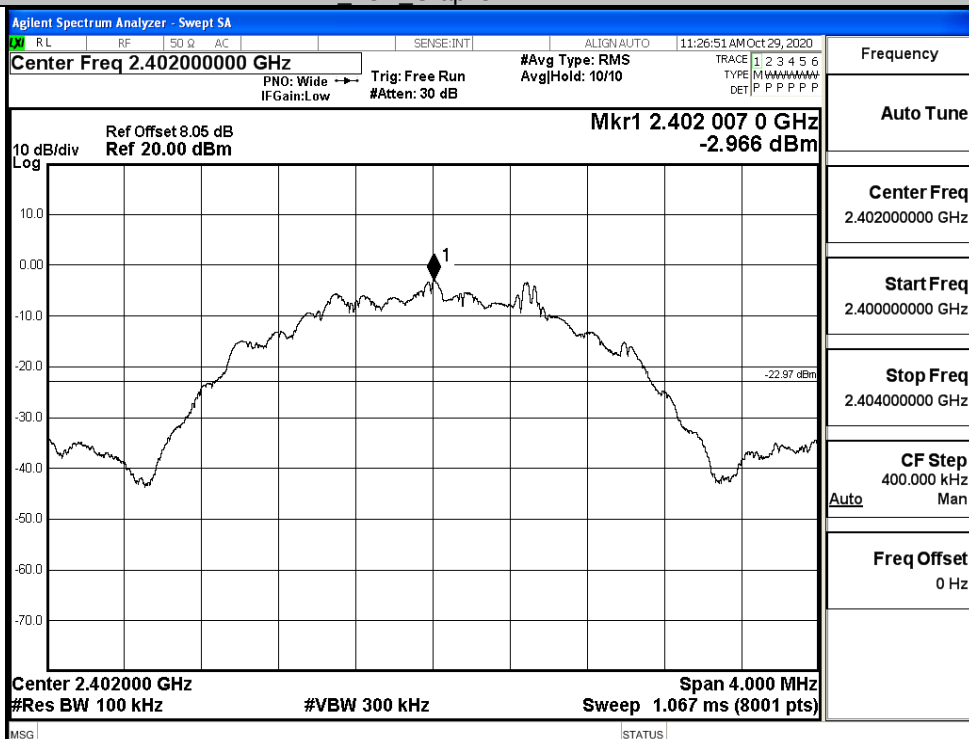


BT 2LE

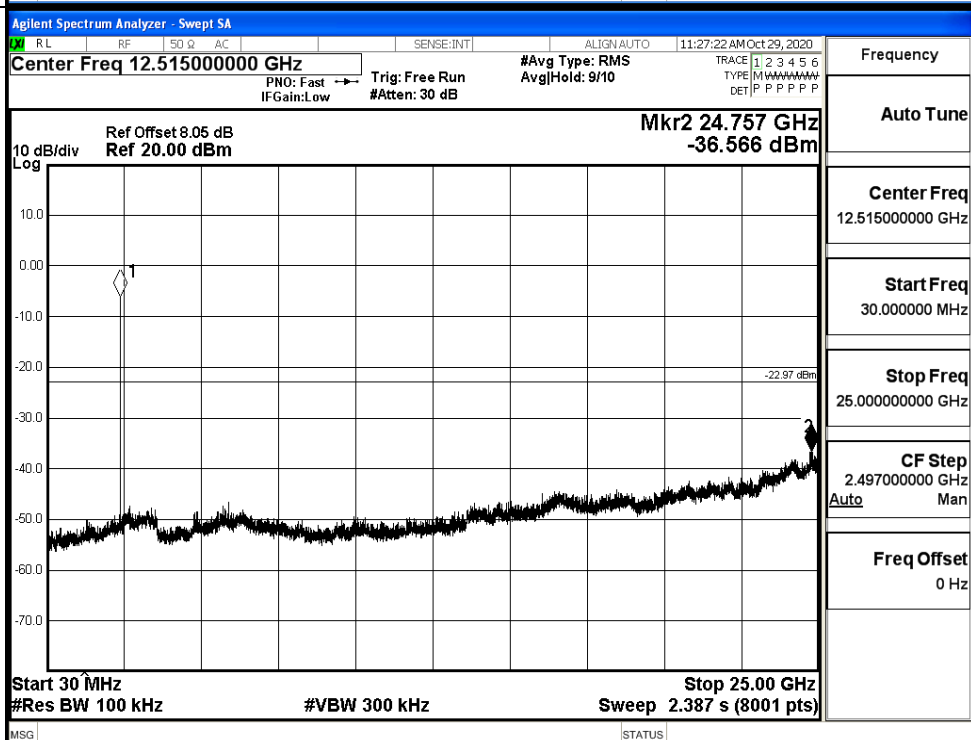
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.966	-36.566	-22.966	PASS
BT LE	MCH	-2.495	-37.445	-22.495	PASS
BT LE	HCH	-2.384	-37.553	-22.384	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

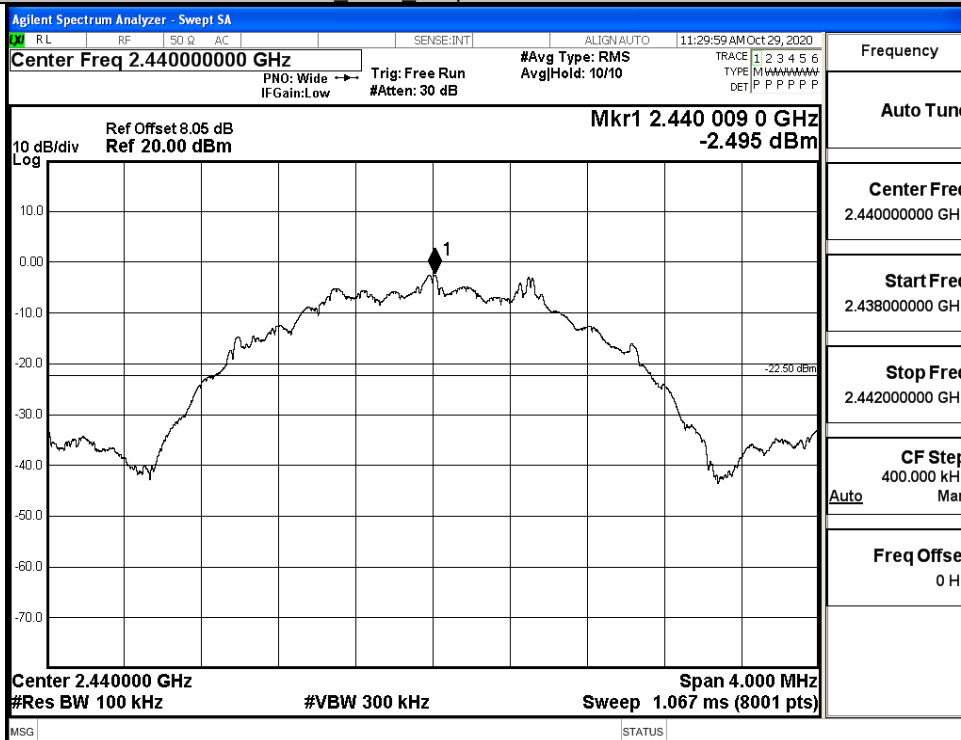


Puw/BT LE/LCH

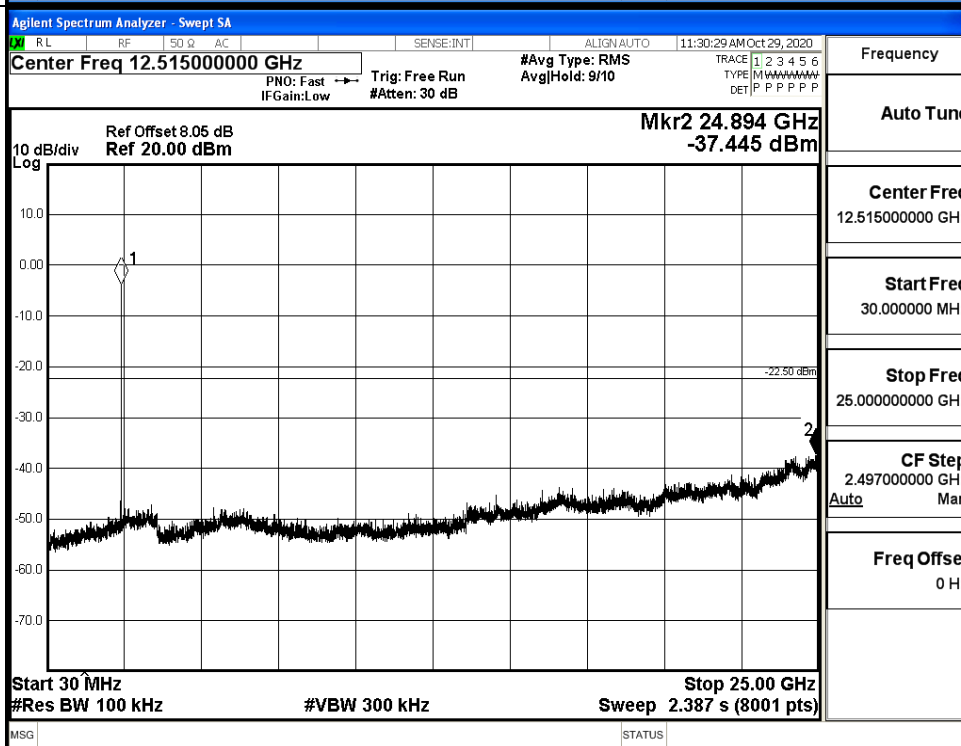


BT LE MCH Graphs

Pref/BT LE/MCH

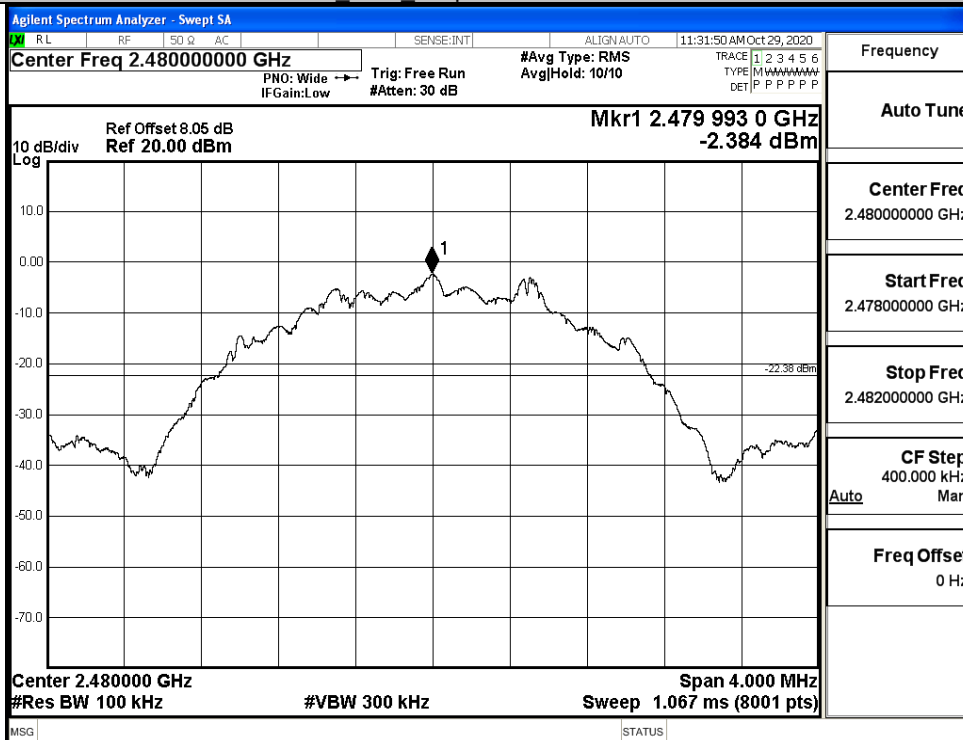


Puw/BT LE/MCH

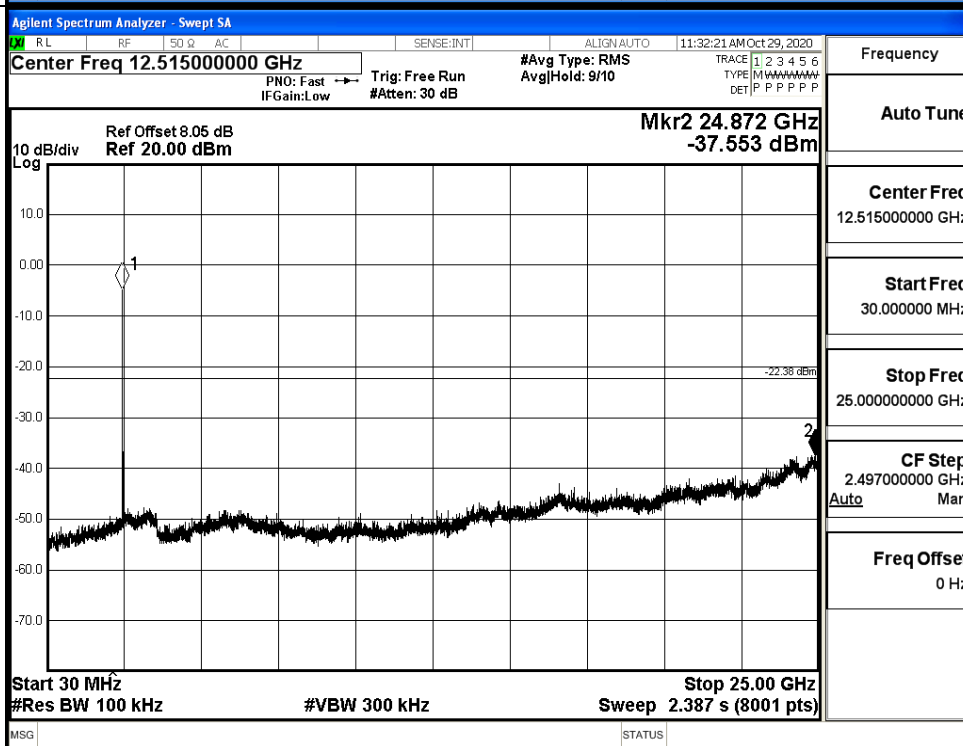


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



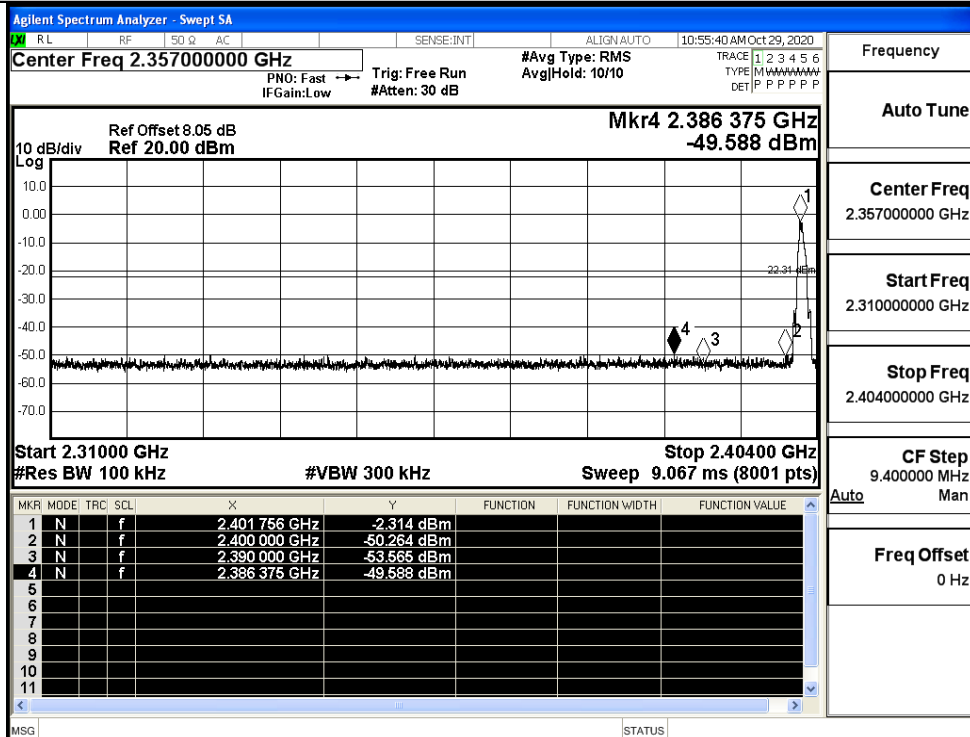
B.6 Band-edge for RF Conducted Emissions

BT LE

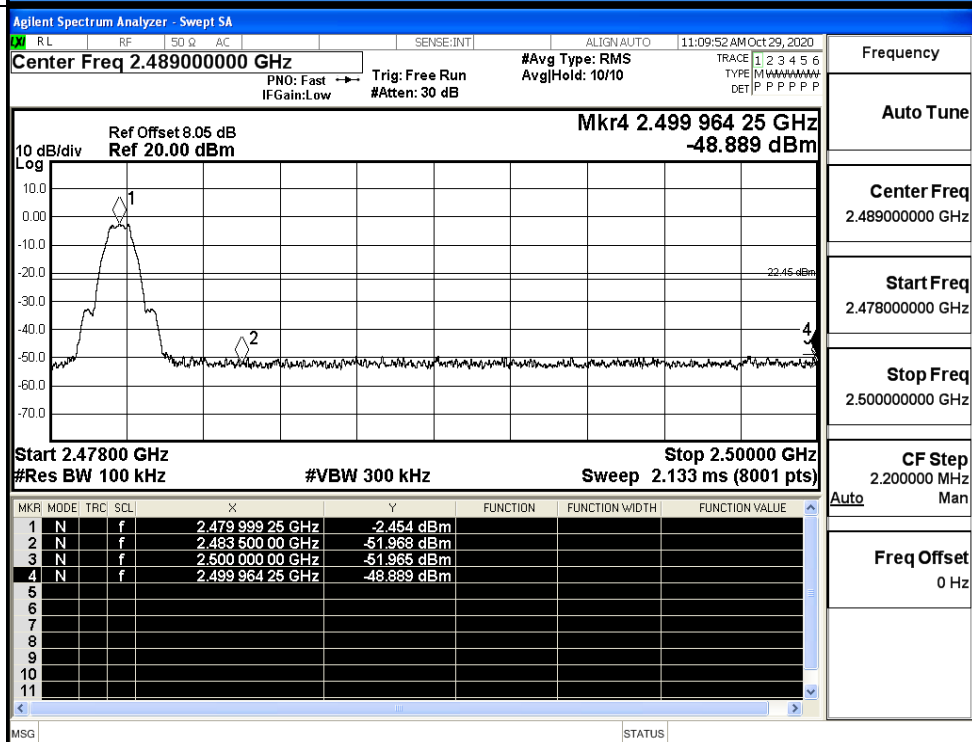
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.314	-49.588	-22.31	PASS
BT LE	HCH	-2.454	-48.889	-22.45	PASS

Test Graphs

LCH



HCH

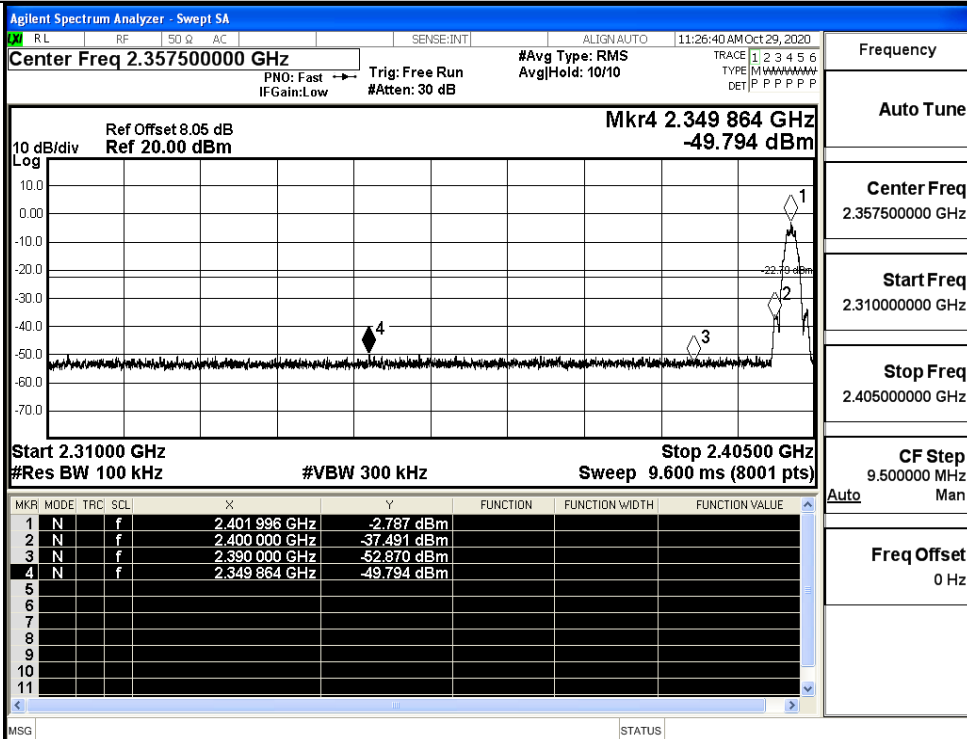


BT 2LE

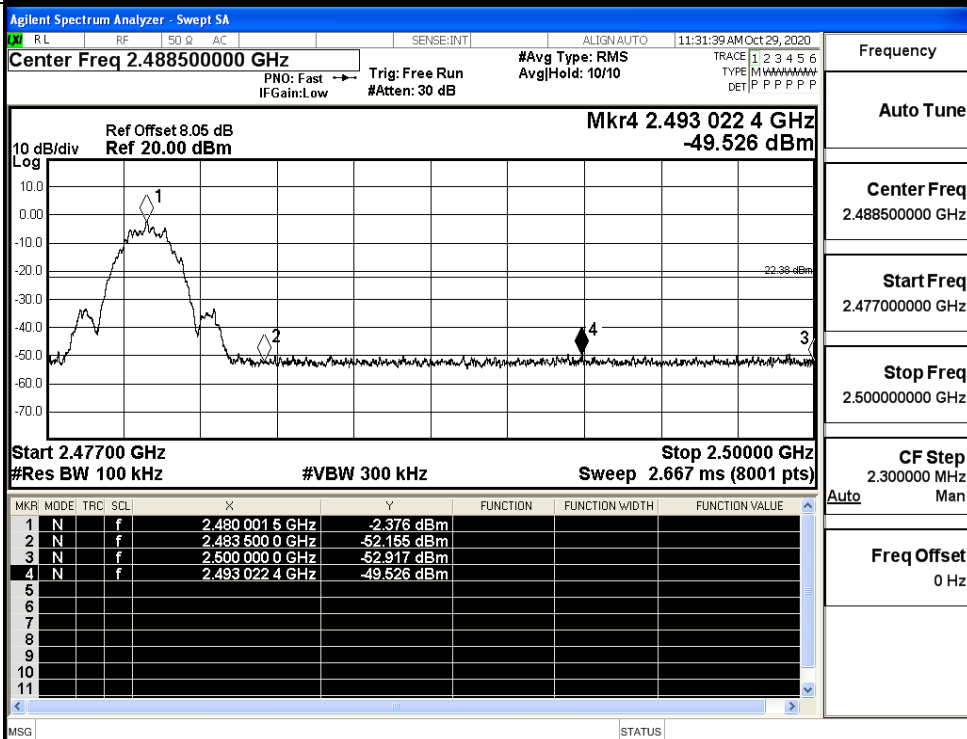
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.787	-49.794	-22.79	PASS
BT LE	HCH	-2.376	-49.526	-22.38	PASS

Test Graphs

LCH



HCH

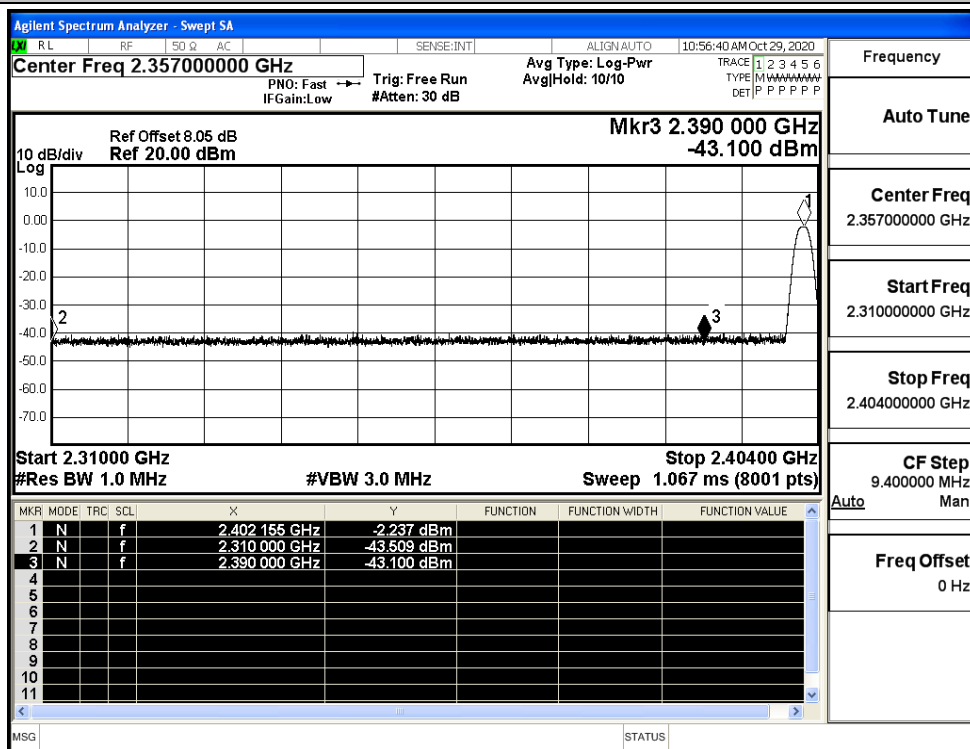


B.7 Restrict-band band-edge measurements

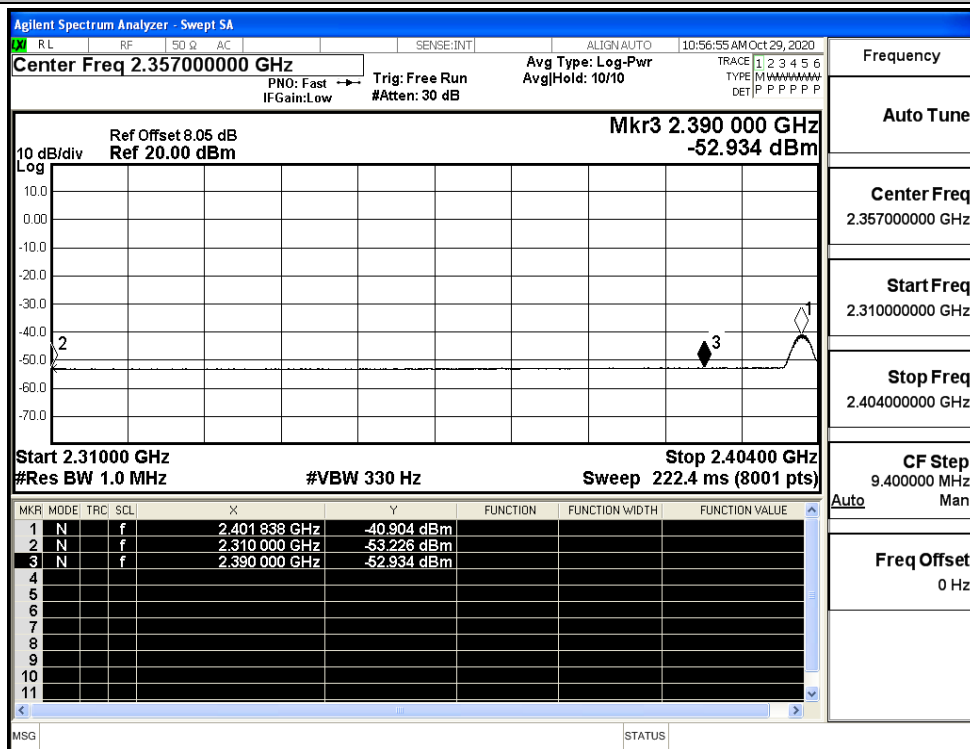
BT LE

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	-43.51	2.0	0	51.75	PEAK	74	PASS
		Ant1	2310.0	-53.23	2.0	0	42.03	AV	54	PASS
		Ant1	2390.0	-43.10	2.0	0	52.16	PEAK	74	PASS
		Ant1	2390.0	-52.93	2.0	0	42.32	AV	54	PASS
	2480	Ant1	2483.5	-42.75	2.0	0	52.51	PEAK	74	PASS
		Ant1	2483.5	-52.30	2.0	0	42.96	AV	54	PASS
		Ant1	2500.0	-41.89	2.0	0	53.37	PEAK	74	PASS
		Ant1	2500.0	-52.24	2.0	0	43.01	AV	54	PASS

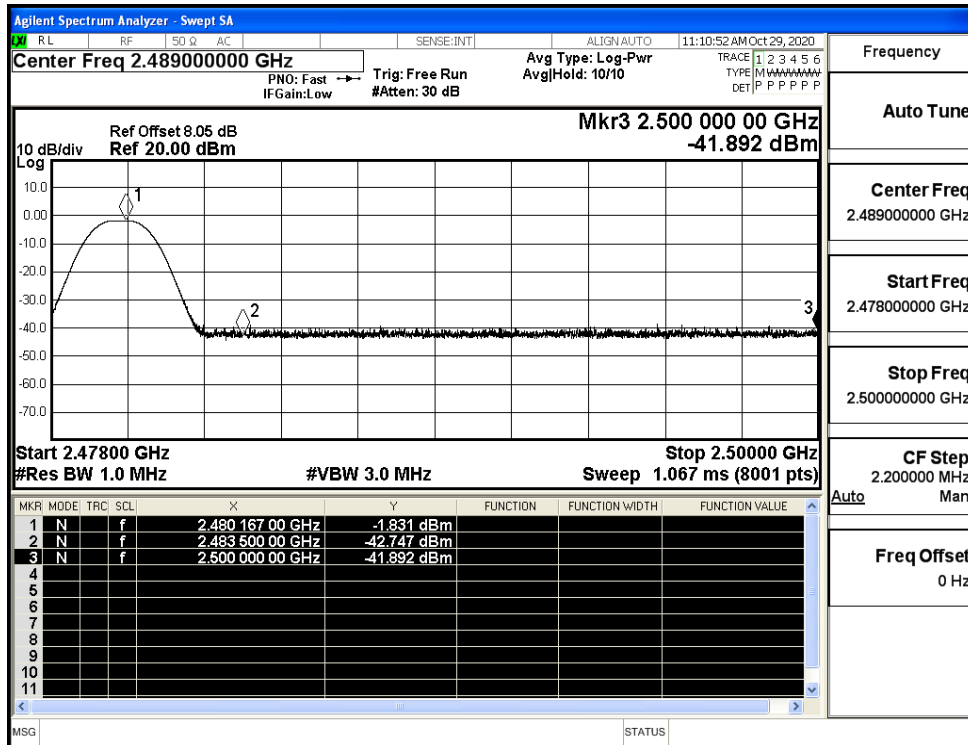
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



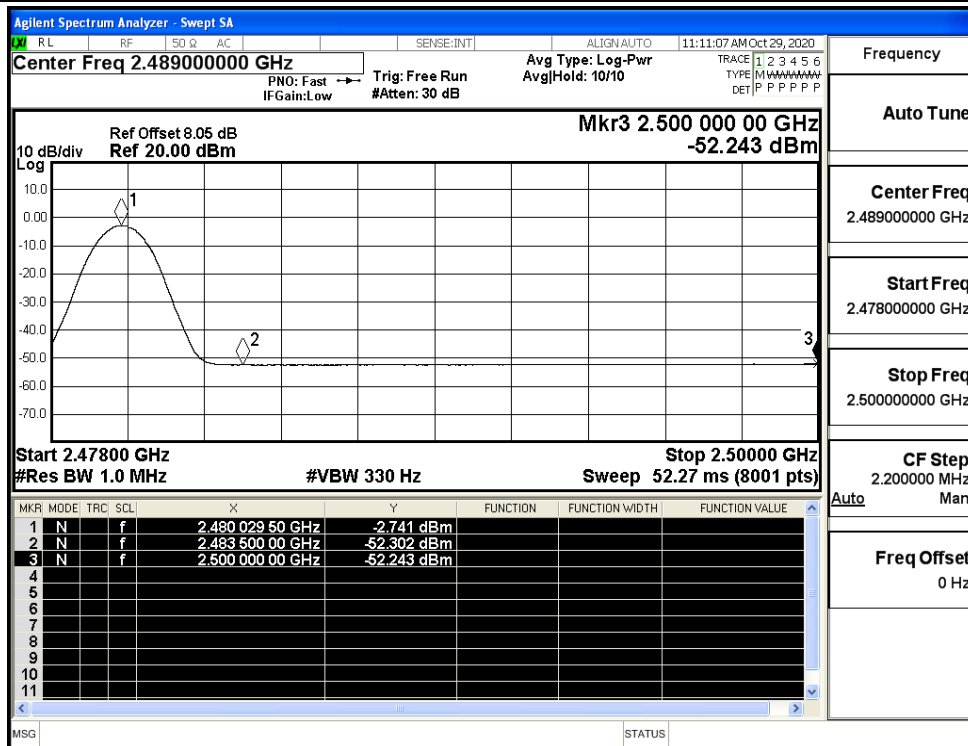
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



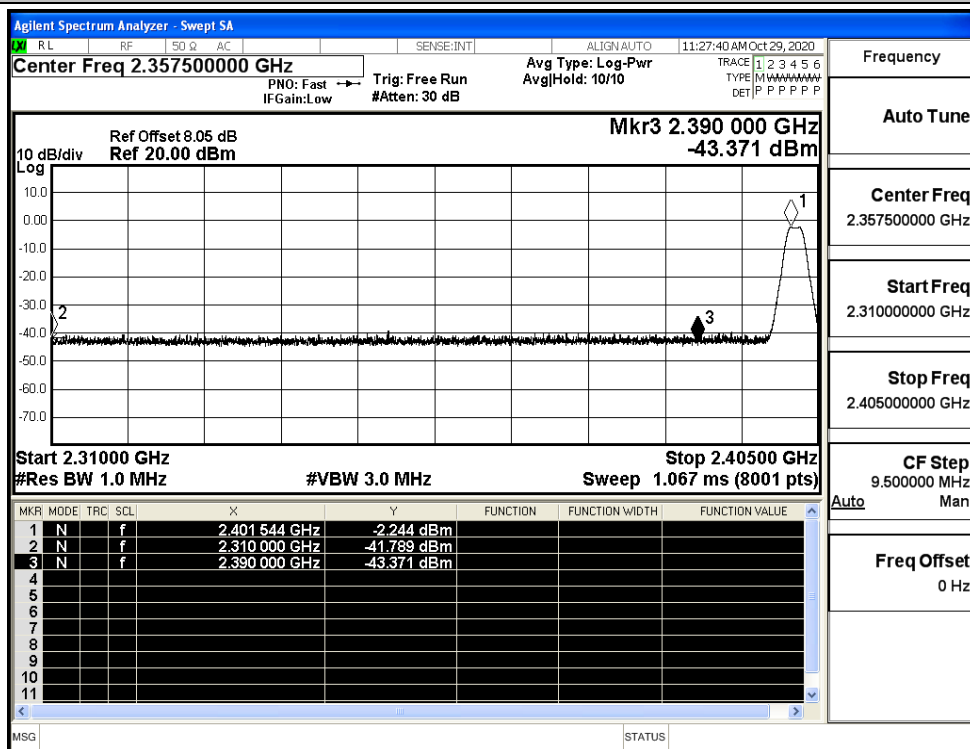
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



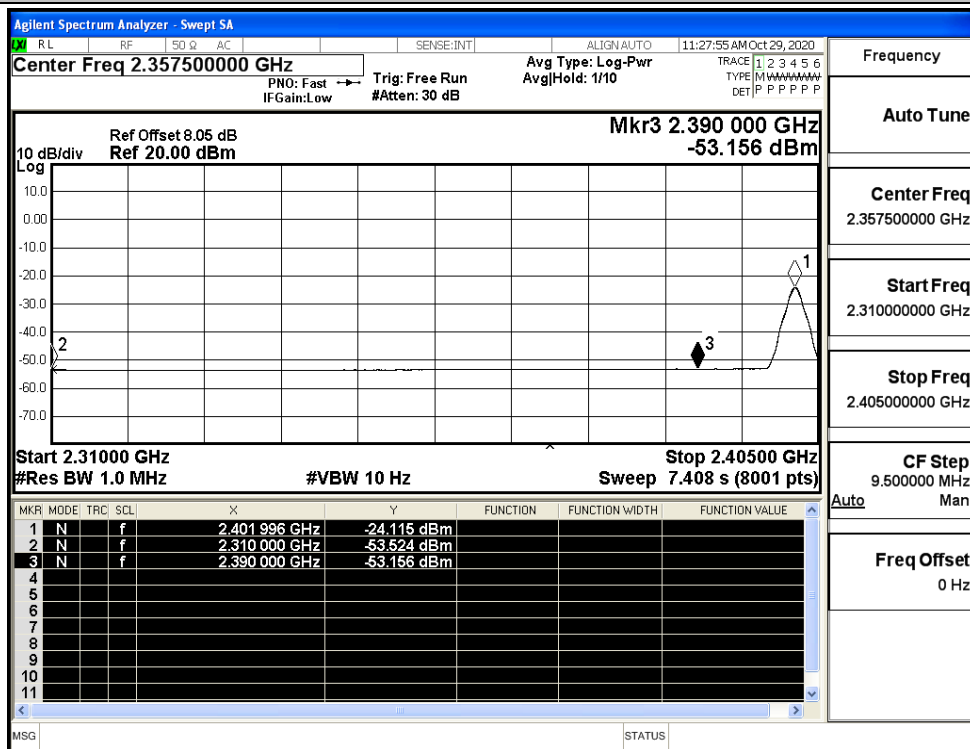
BT 2LE

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	-41.79	2.0	0	53.47	PEAK	74	PASS
		Ant1	2310.0	-53.52	2.0	0	41.73	AV	54	PASS
		Ant1	2390.0	-43.37	2.0	0	51.89	PEAK	74	PASS
		Ant1	2390.0	-53.16	2.0	0	42.10	AV	54	PASS
	2480	Ant1	2483.5	-41.42	2.0	0	53.84	PEAK	74	PASS
		Ant1	2483.5	-52.00	2.0	0	43.26	AV	54	PASS
		Ant1	2500.0	-41.43	2.0	0	53.83	PEAK	74	PASS
		Ant1	2500.0	-52.30	2.0	0	42.96	AV	54	PASS

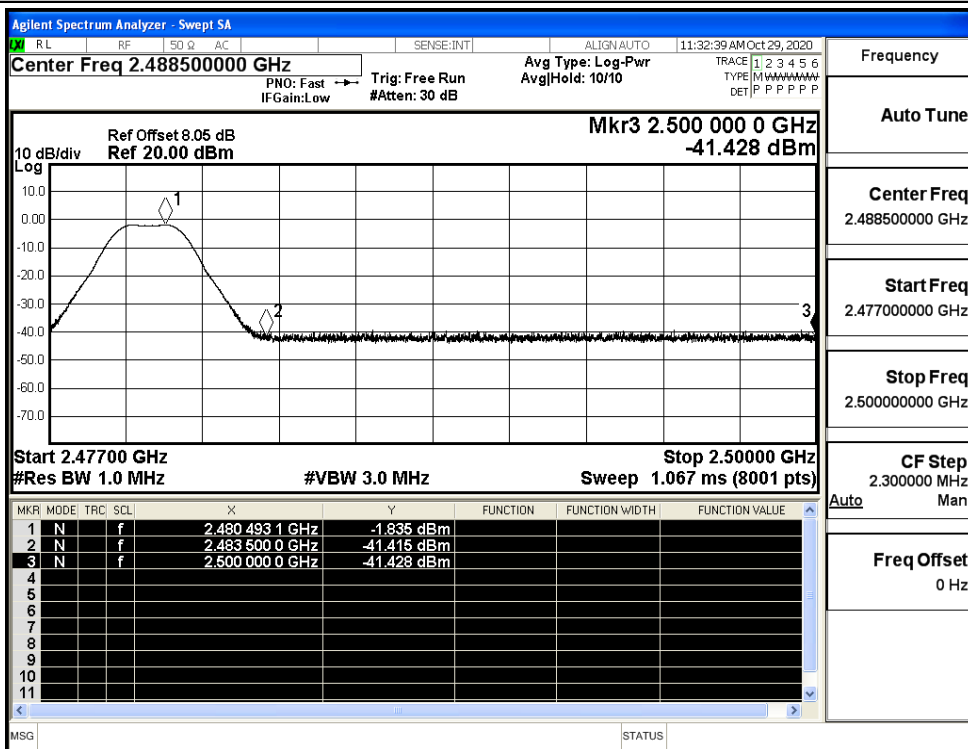
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

