

Appendix B

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

Product Name: Smart Phone

Trade Mark: DOOGEE

Test Model: S96Pro

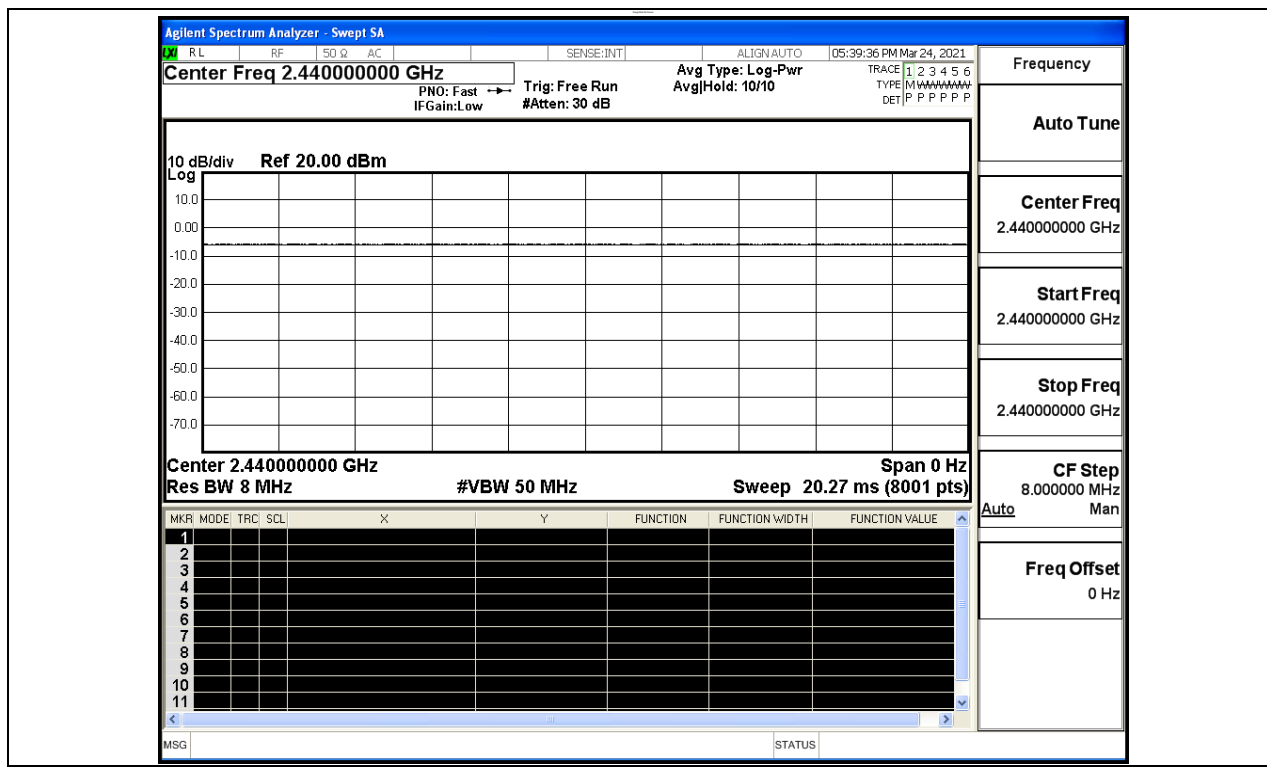
Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

B.1 Duty Cycle

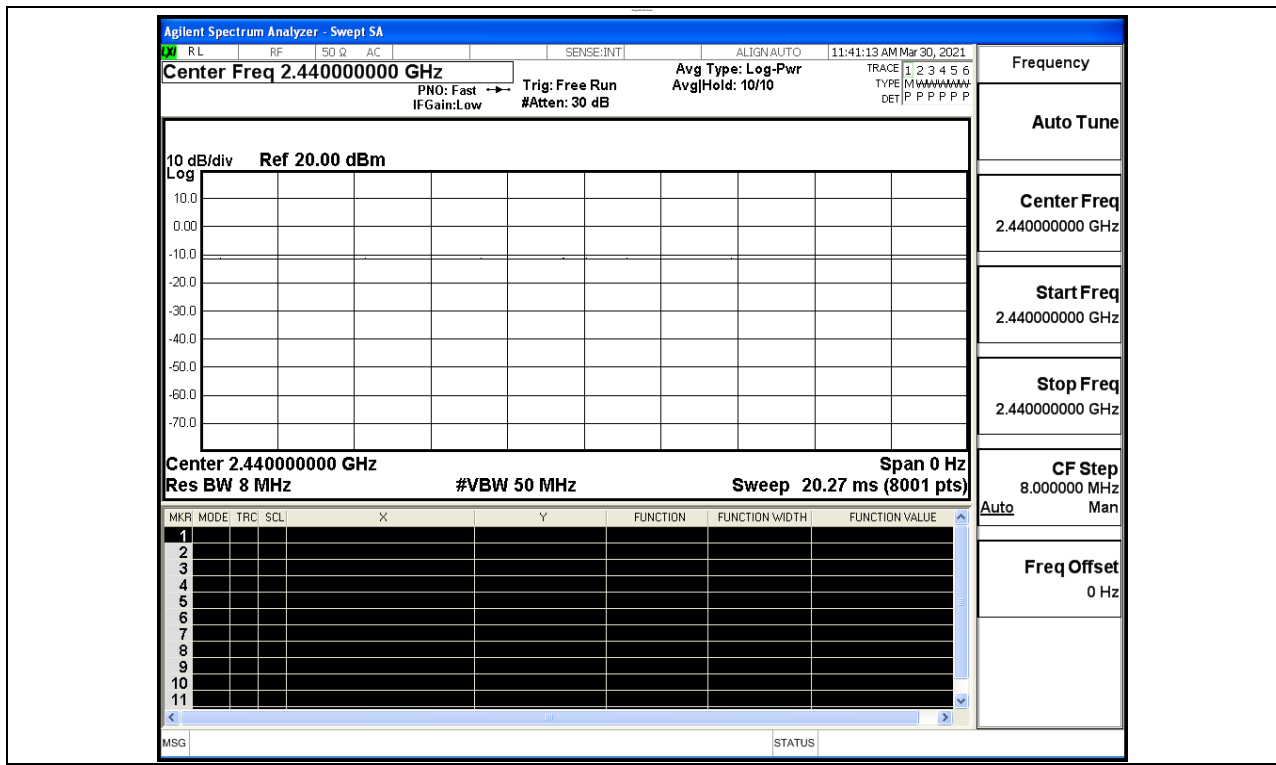
BT LE

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 2LE	2440	Ant1	100	PASS



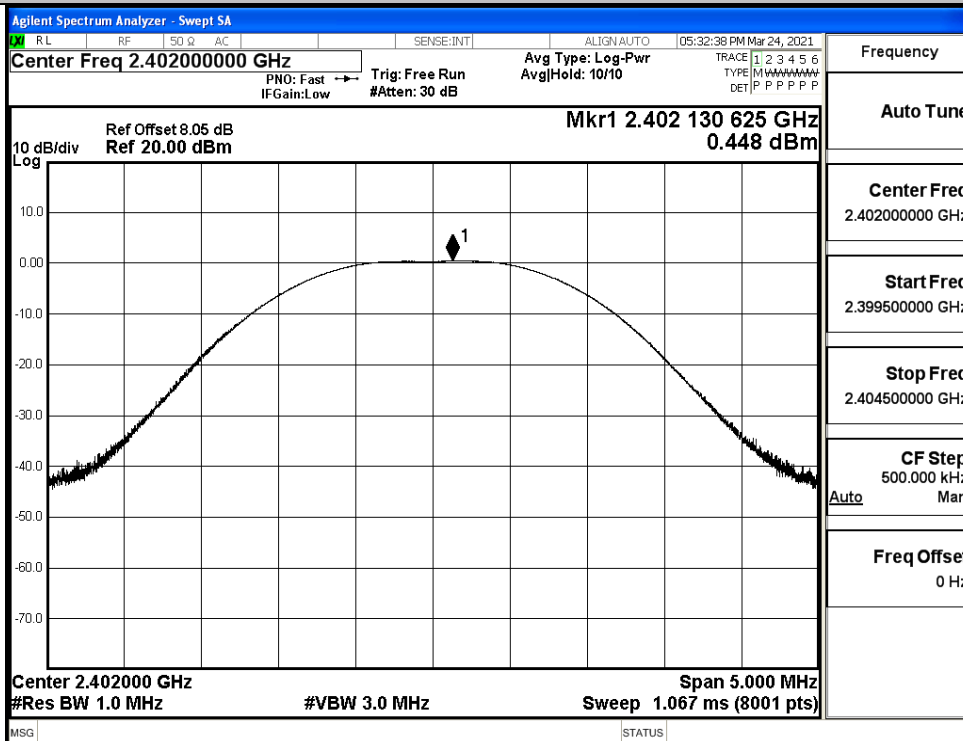
B.2 Maximum Conducted Peak Output Power

BT LE

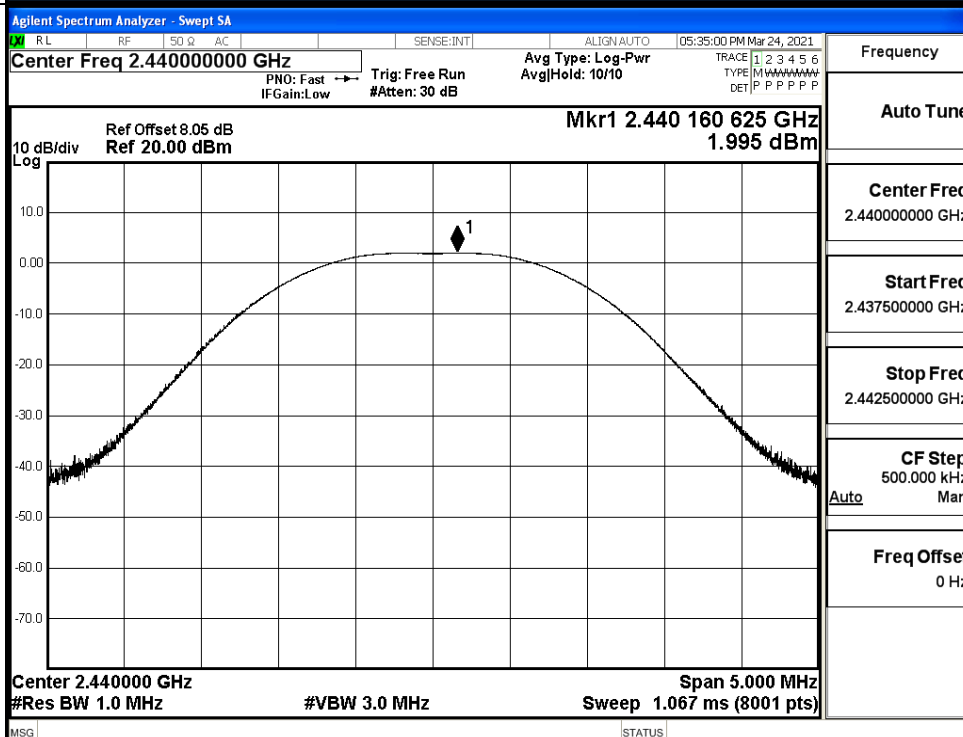
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.448	30	PASS
BT LE	MCH	1.995	30	PASS
BT LE	HCH	0.493	30	PASS

Test Graphs

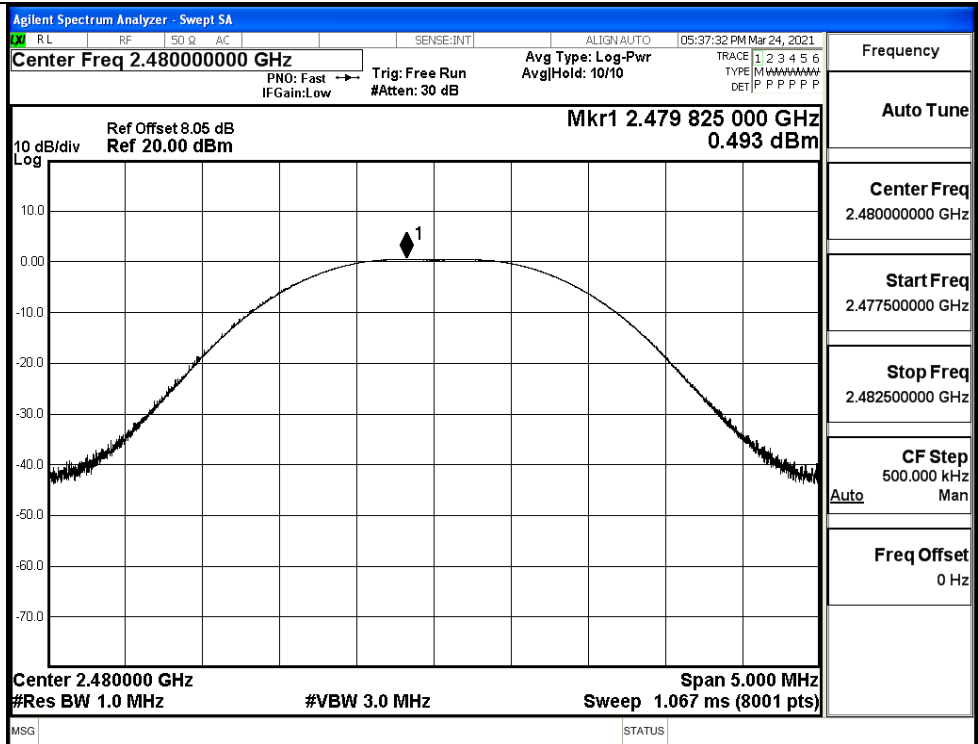
LCH



MCH



HCH

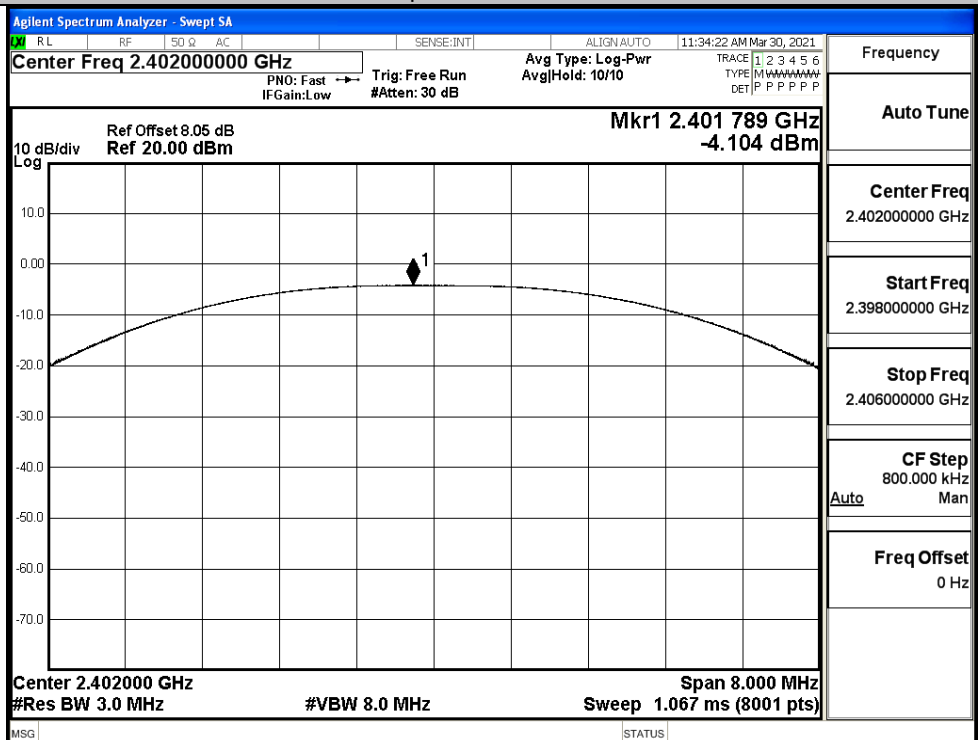


BT 2LE

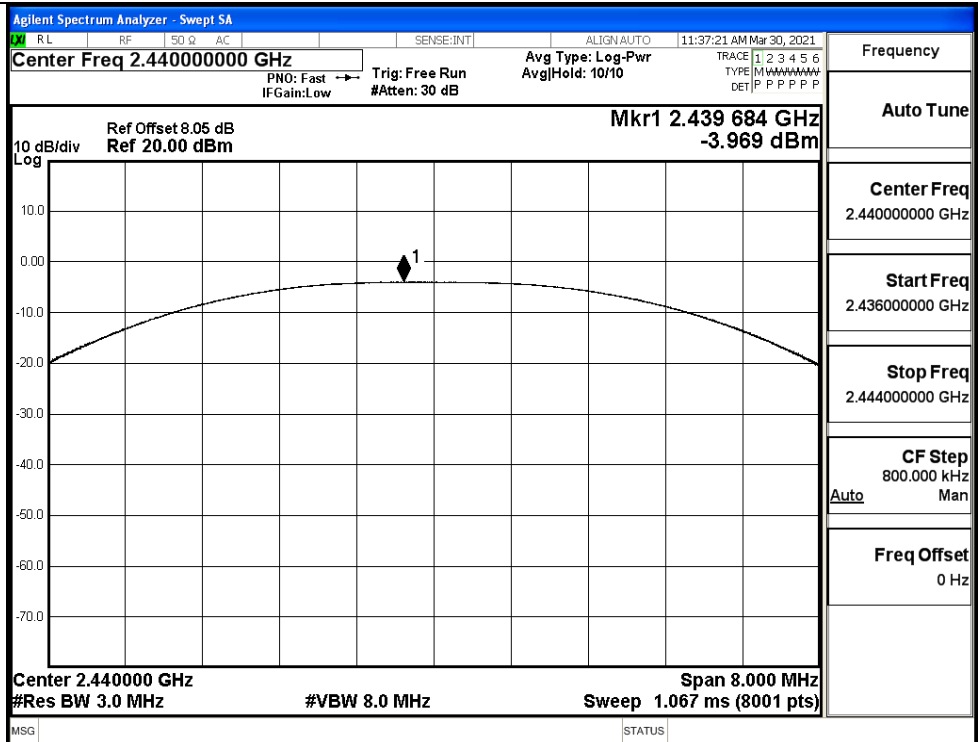
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-4.104	30	PASS
BT 2LE	MCH	-3.969	30	PASS
BT 2LE	HCH	-3.904	30	PASS

Test Graphs

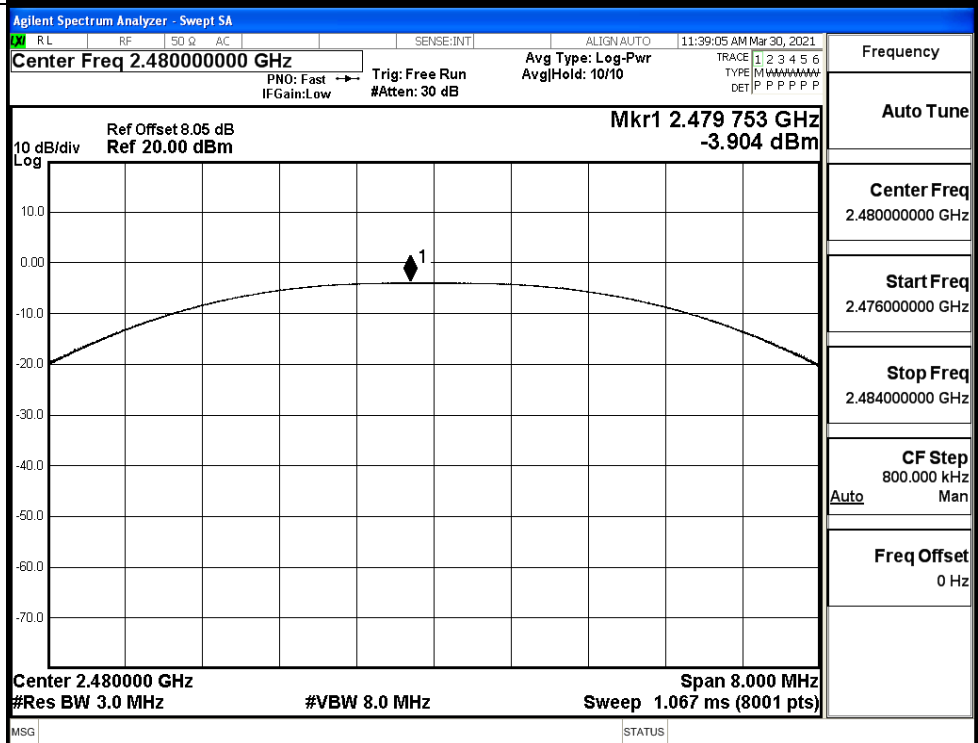
LCH



MCH



HCH



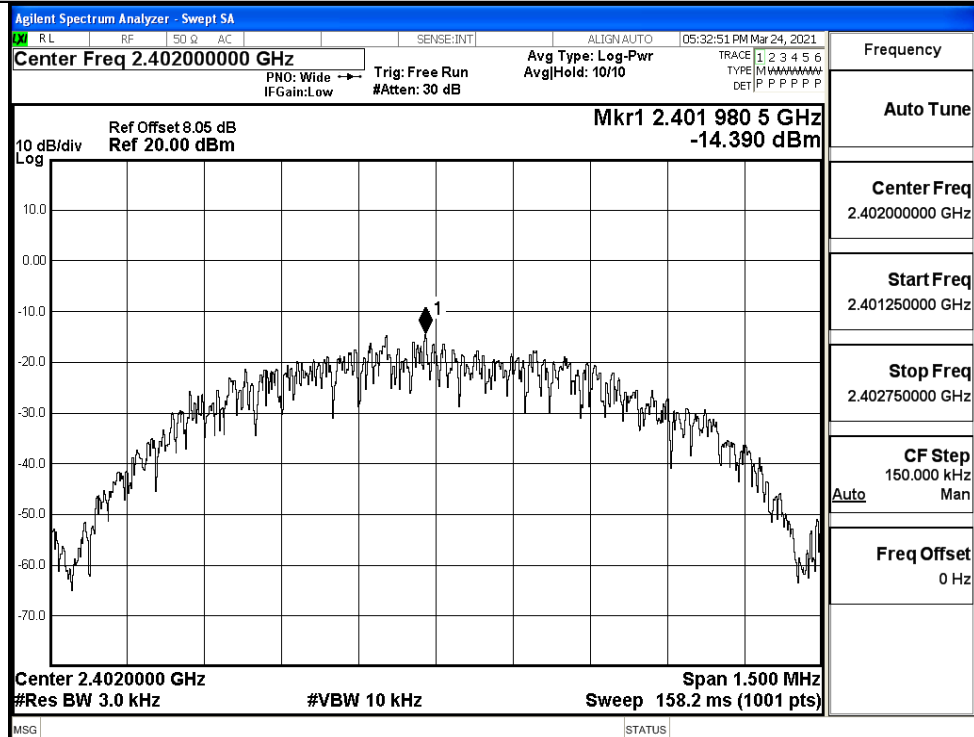
B.3 Maximum Power Spectral Density

BT LE

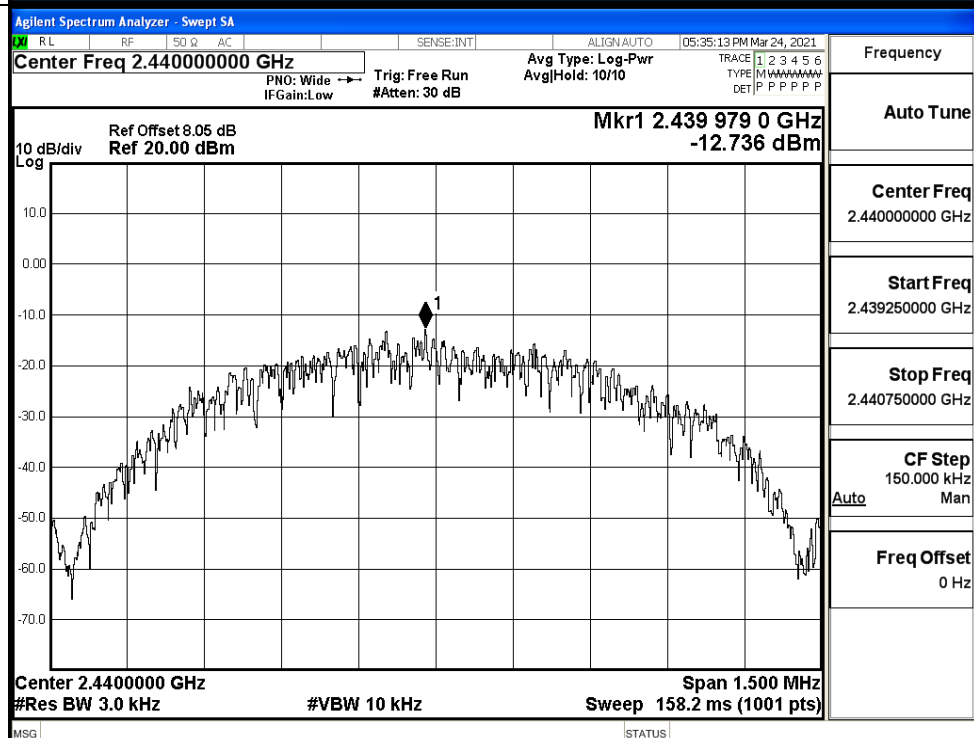
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.390	8	PASS
BT LE	MCH	-12.736	8	PASS
BT LE	HCH	-14.284	8	PASS

Test Graphs

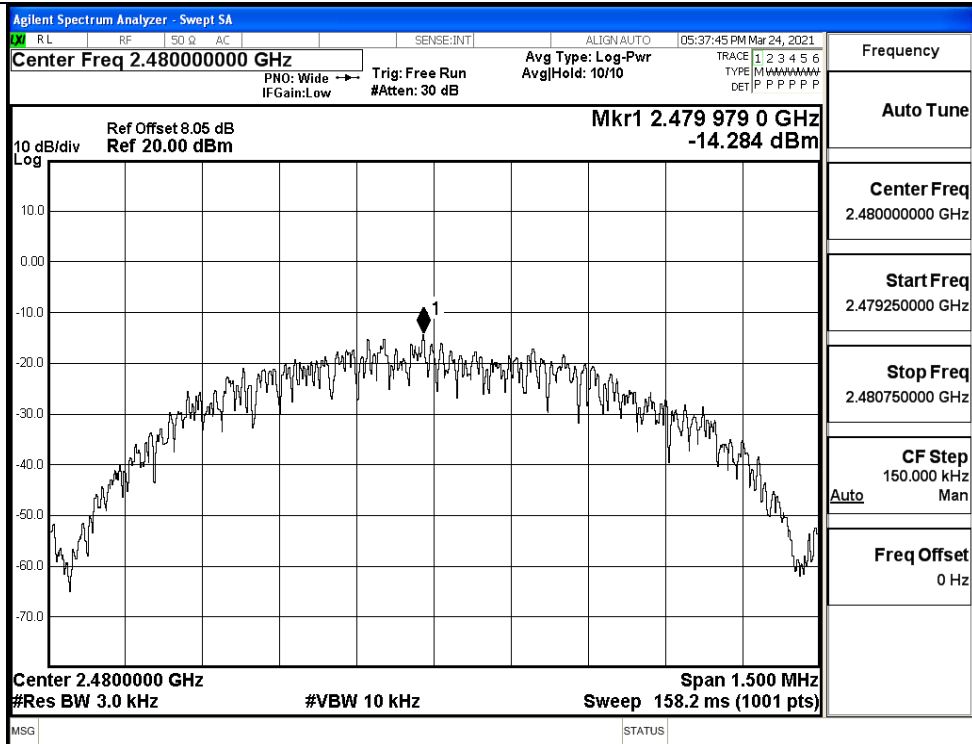
LCH



MCH



HCH

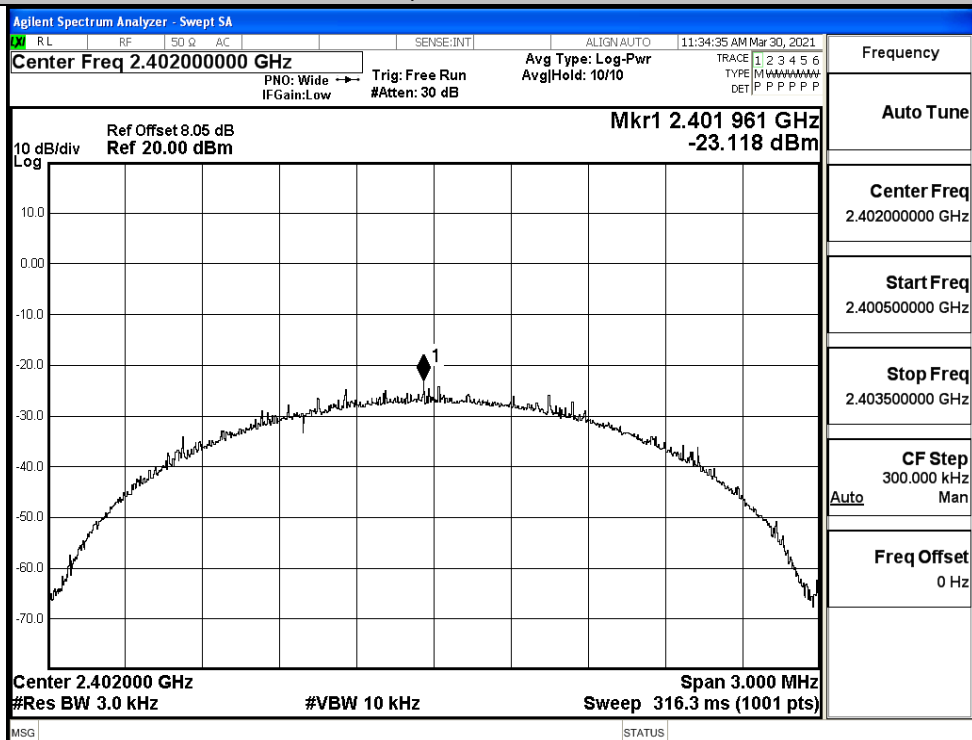


BT 2LE

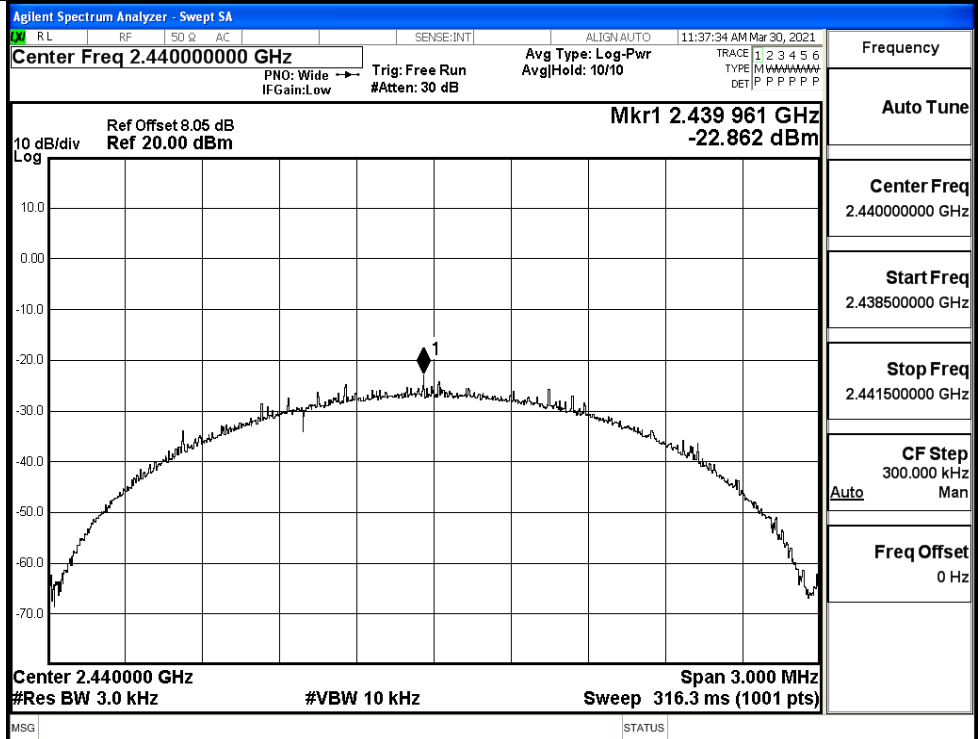
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT 2LE	LCH	-23.118	8	PASS
BT 2LE	MCH	-22.862	8	PASS
BT 2LE	HCH	-23.913	8	PASS

Test Graphs

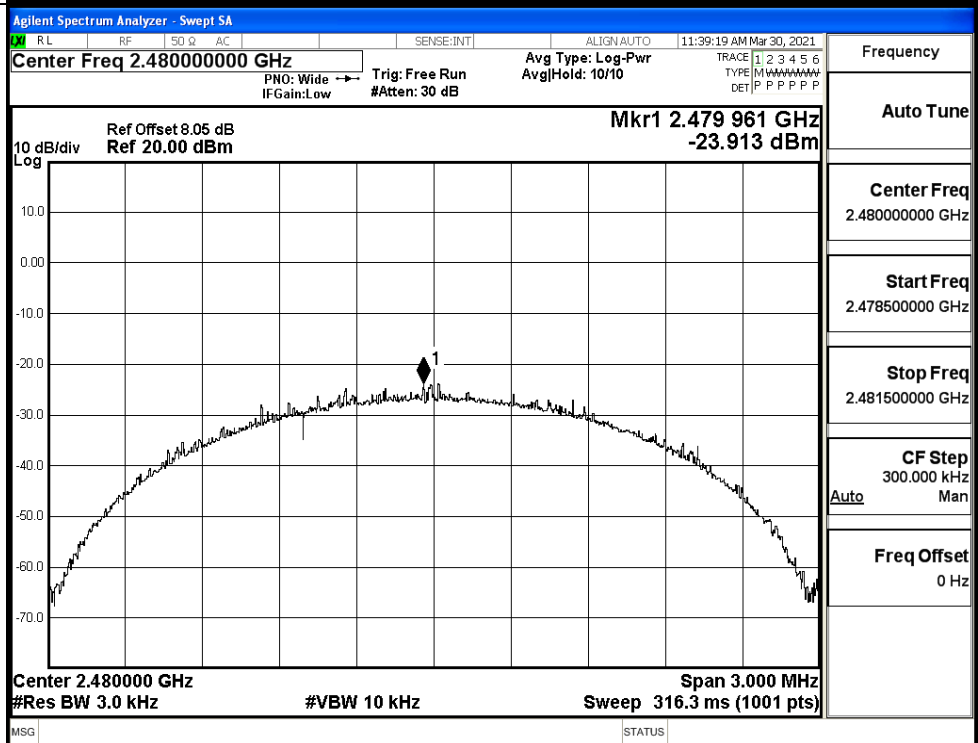
LCH



MCH



HCH



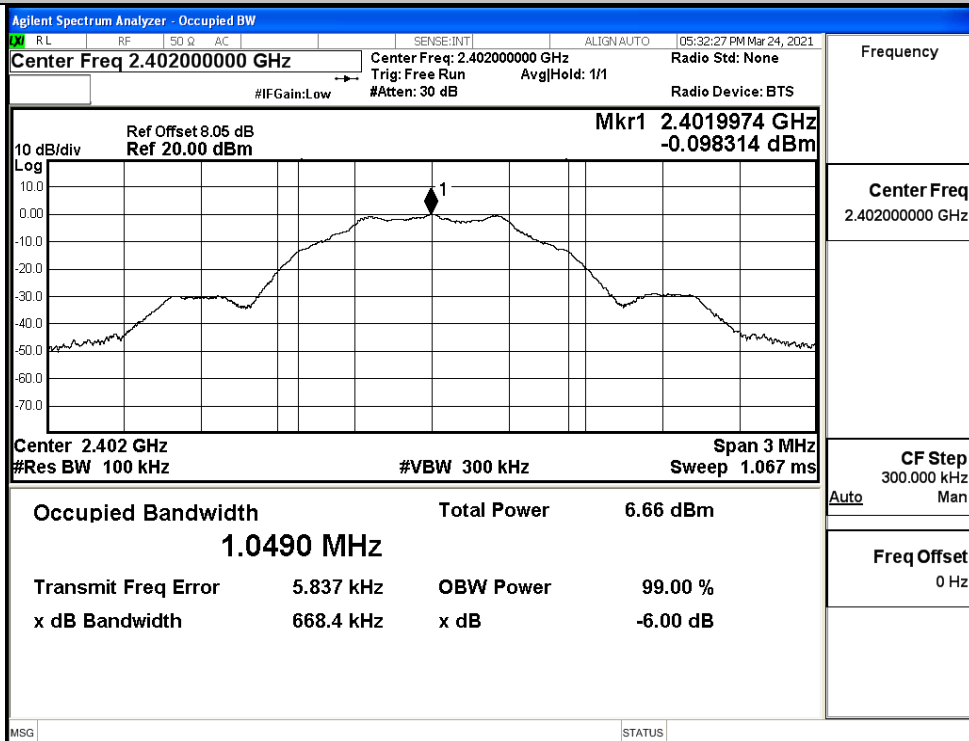
B.4 6dB Bandwidth

BT LE

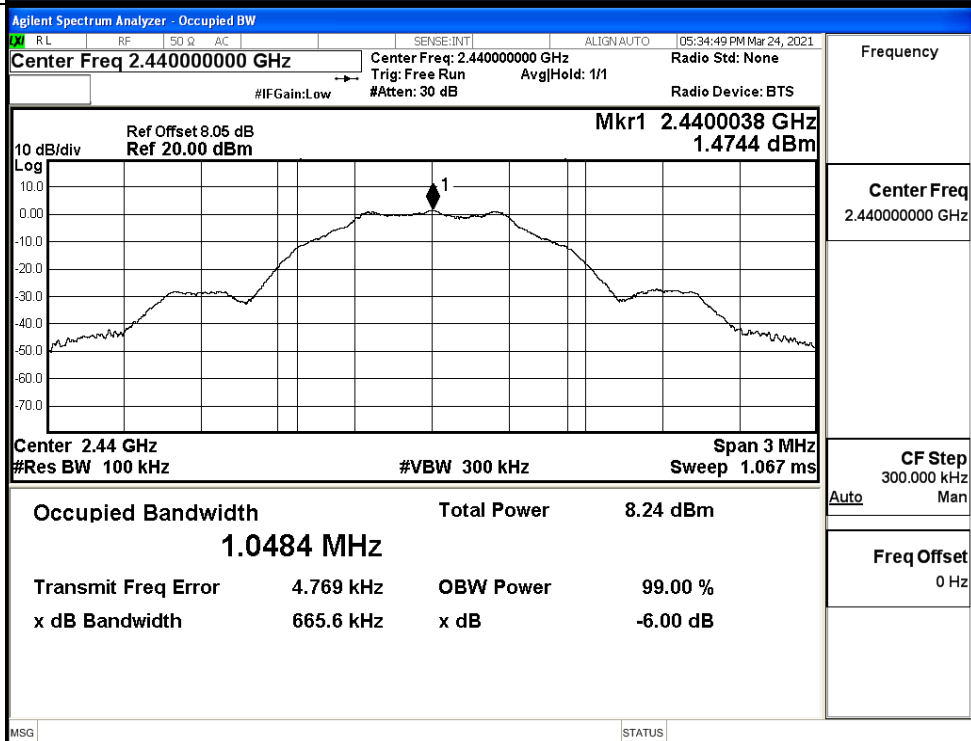
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6684	≥ 0.5	PASS
BT LE	MCH	0.6656	≥ 0.5	PASS
BT LE	HCH	0.6722	≥ 0.5	PASS

Test Graphs

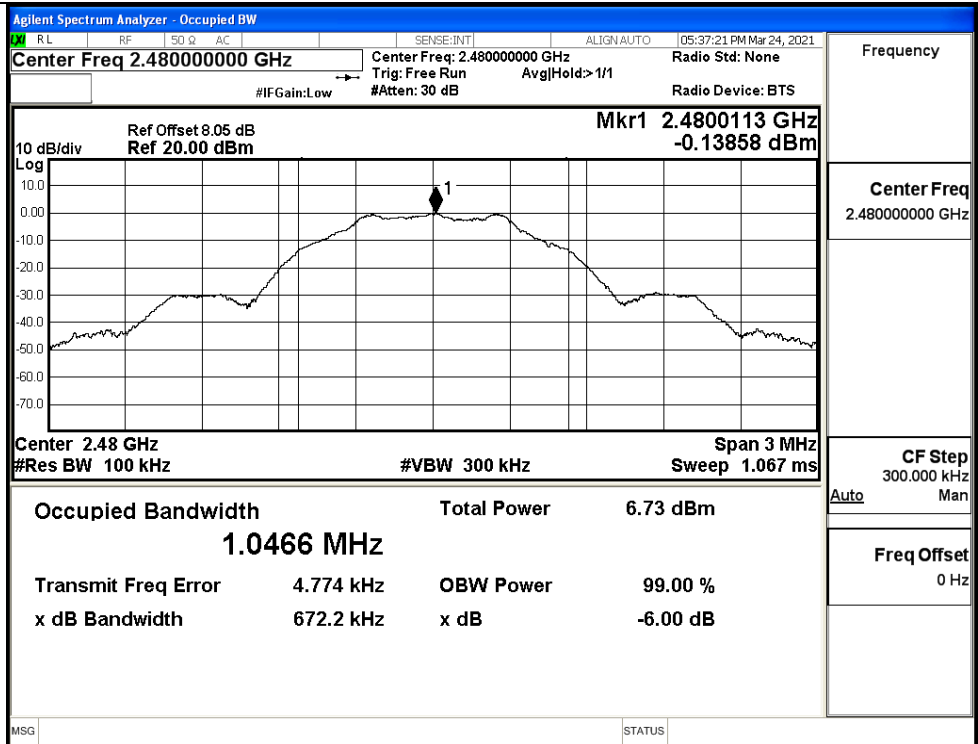
LCH



MCH



HCH

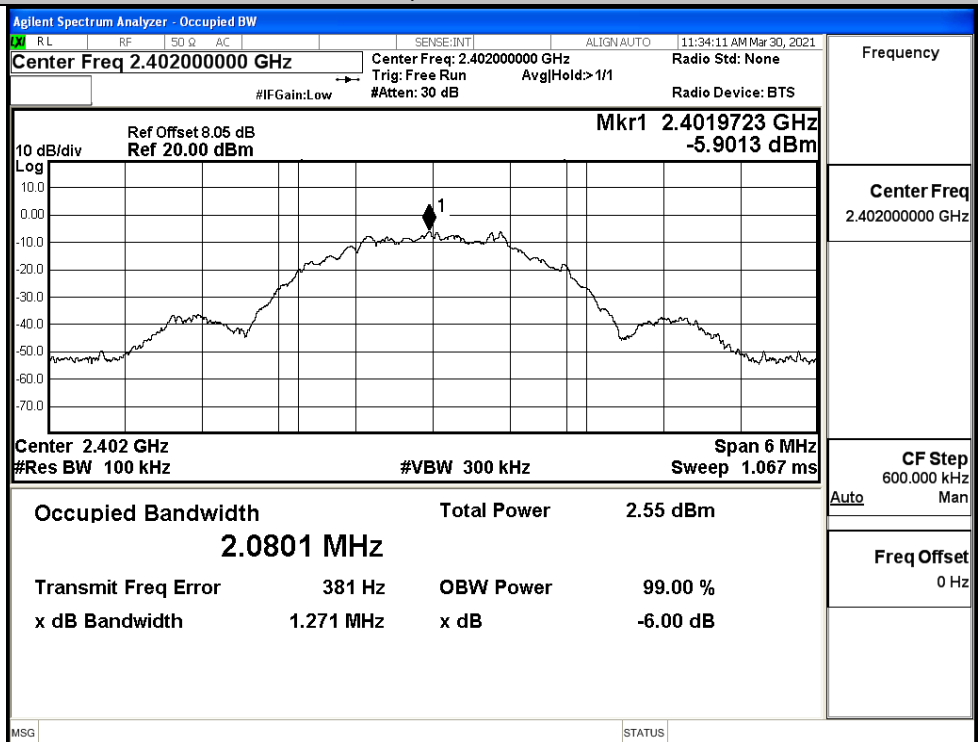


BT 2LE

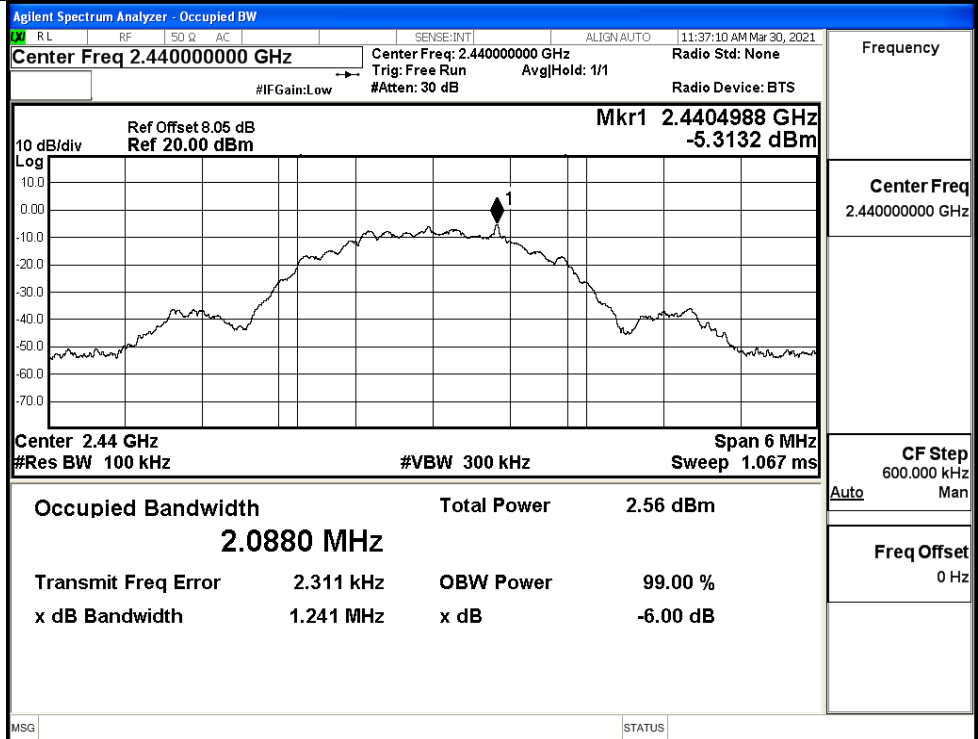
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT 2LE	LCH	1.271	≥ 0.5	PASS
BT 2LE	MCH	1.241	≥ 0.5	PASS
BT 2LE	HCH	1.182	≥ 0.5	PASS

Test Graphs

LCH



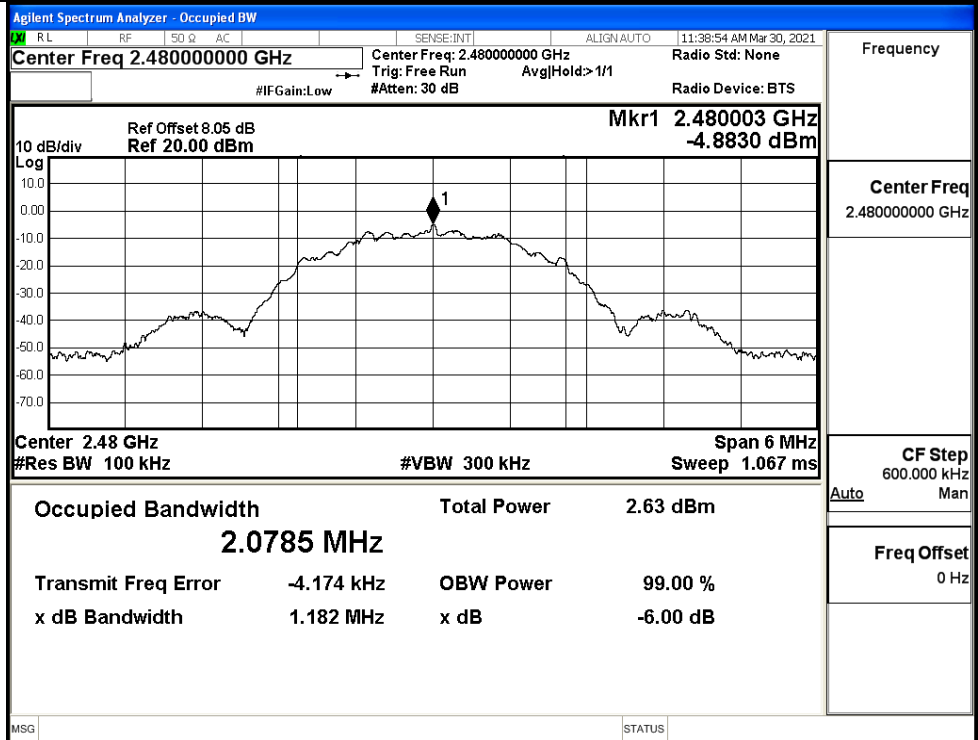
MCH



Frequency

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

HCH



Frequency

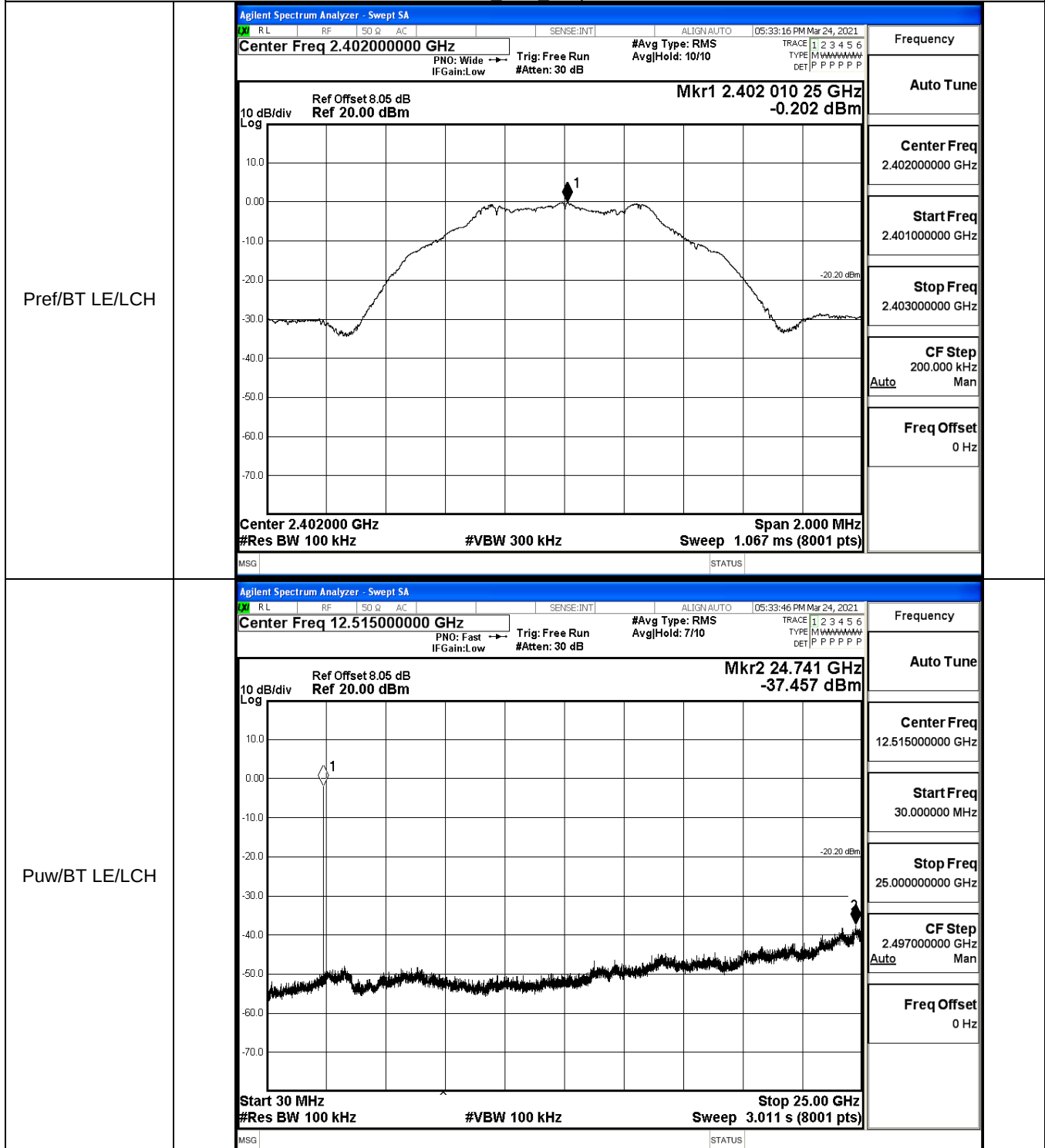
Center Freq
2.480000000 GHzCF Step
600.000 kHz
Auto ManFreq Offset
0 Hz

B.5 RF Conducted Spurious Emissions

BT LE

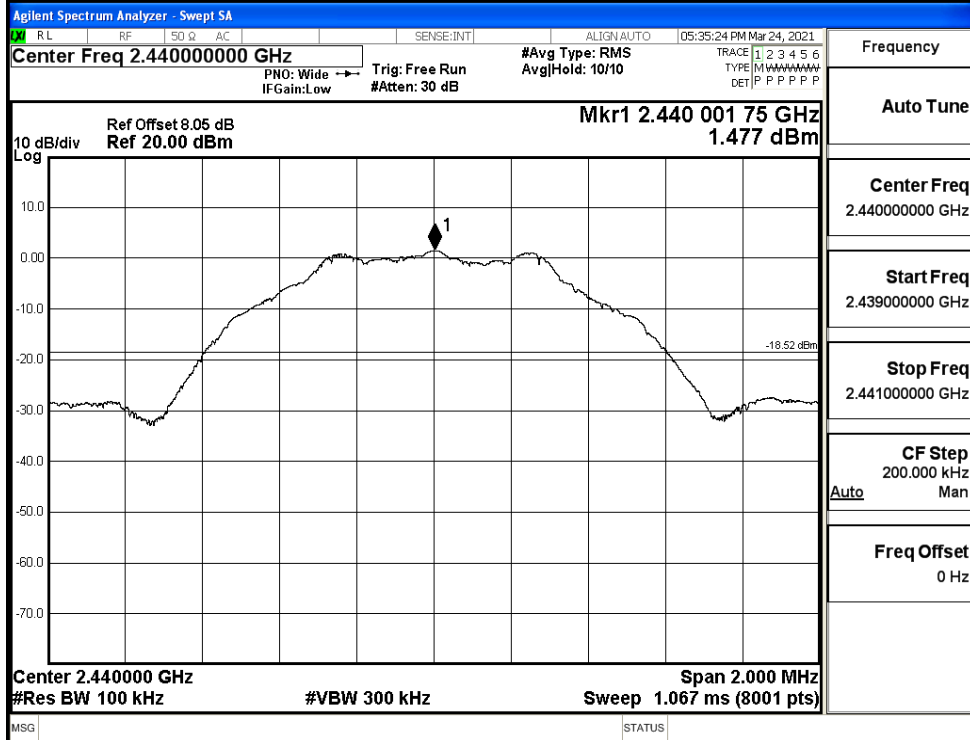
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.202	-37.457	-20.202	PASS
BT LE	MCH	1.477	-37.642	-18.523	PASS
BT LE	HCH	-0.043	-38.071	-20.043	PASS

BT LE LCH Graphs

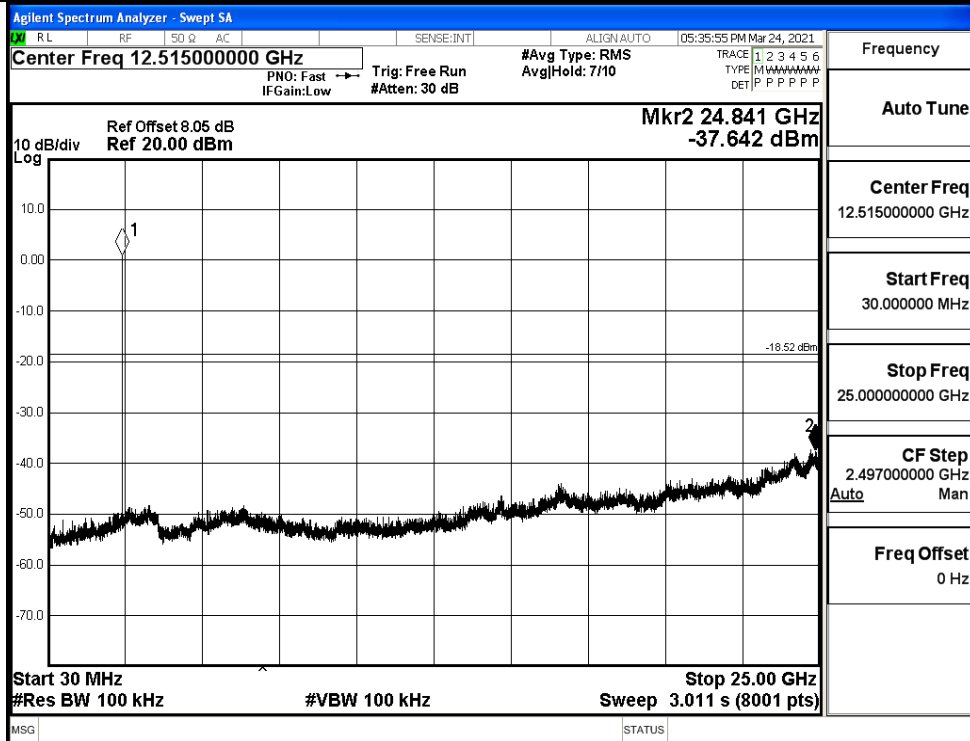


BT LE MCH Graphs

Pref/BT LE/MCH

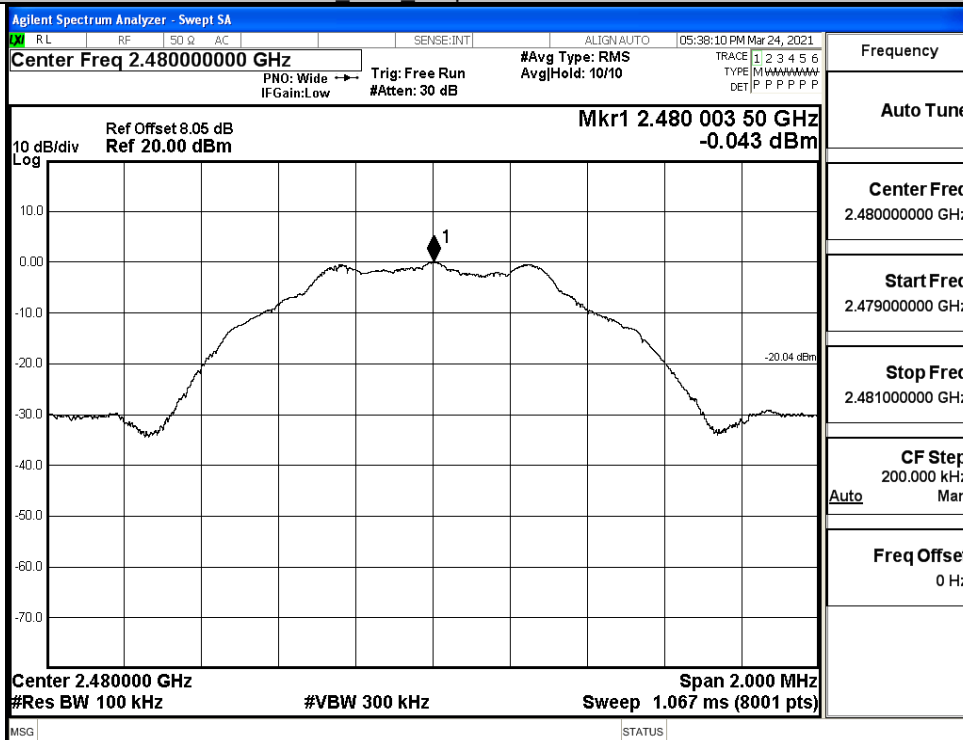


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Frequency

Auto Tune

Center Freq

2.480000000 GHz

Start Freq

2.479000000 GHz

Stop Freq

2.481000000 GHz

CF Step

200.000 kHz

Auto Man

Freq Offset

0 Hz

Puw/BT LE/HCH



Frequency

Auto Tune

Center Freq

12.515000000 GHz

Start Freq

30.000000 MHz

Stop Freq

25.000000000 GHz

CF Step

2.497000000 GHz

Auto Man

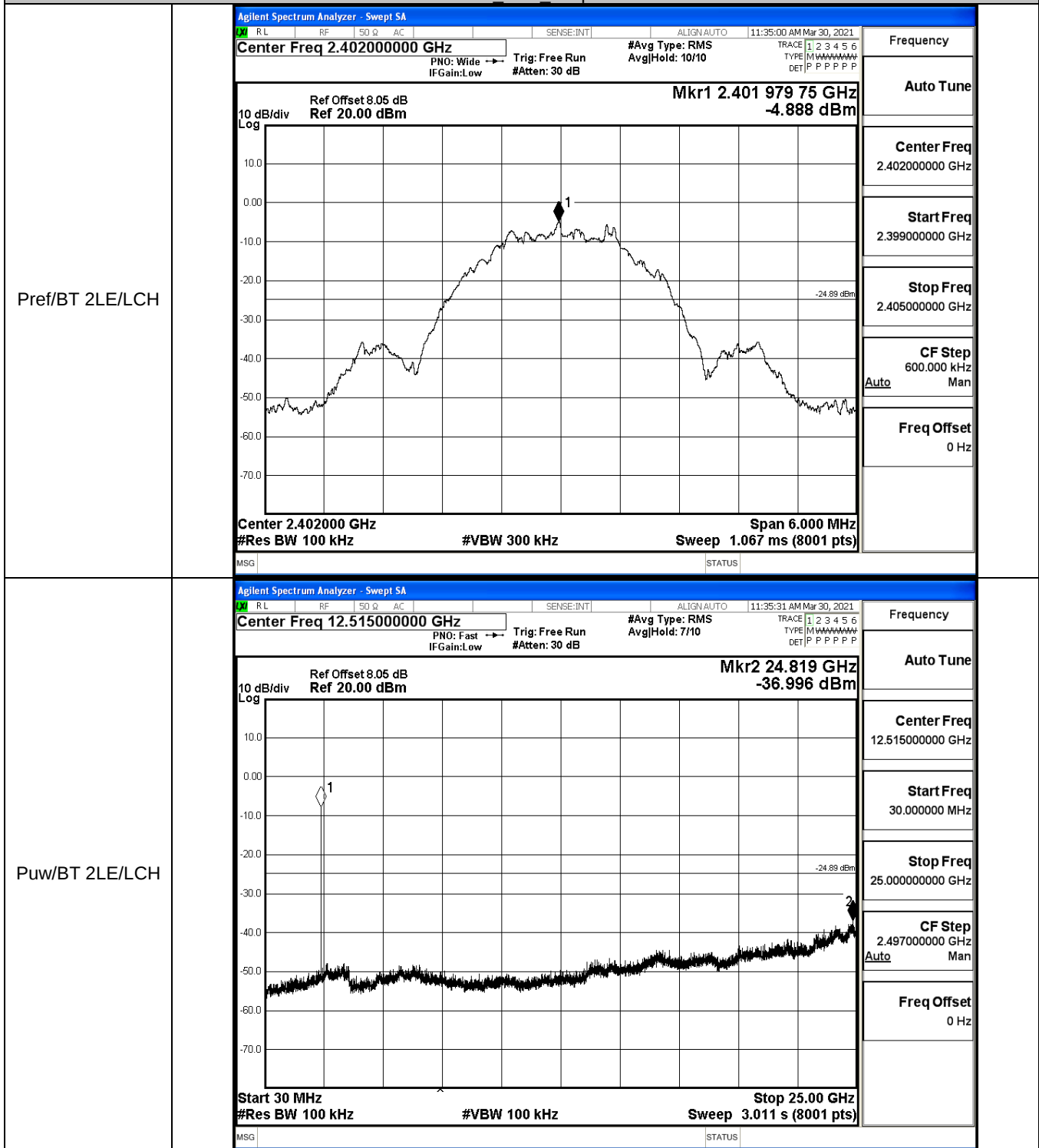
Freq Offset

0 Hz

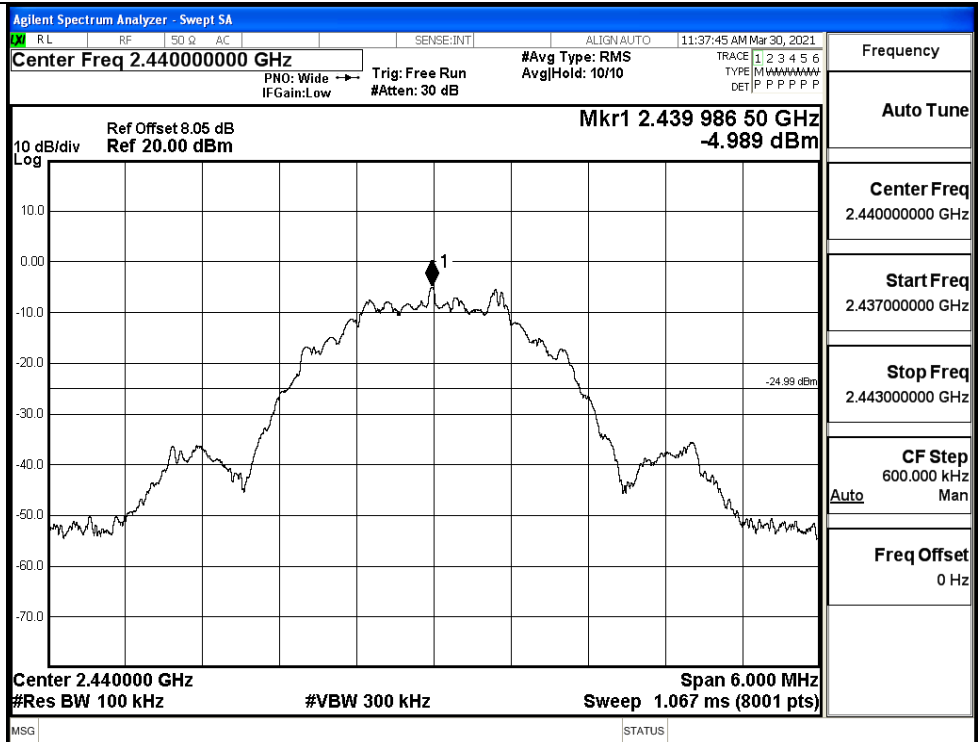
BT 2LE

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-4.888	-36.996	-24.888	PASS
BT 2LE	MCH	-4.989	-38.219	-24.989	PASS
BT 2LE	HCH	-4.808	-37.191	-24.808	PASS

BT 2LE LCH Graphs

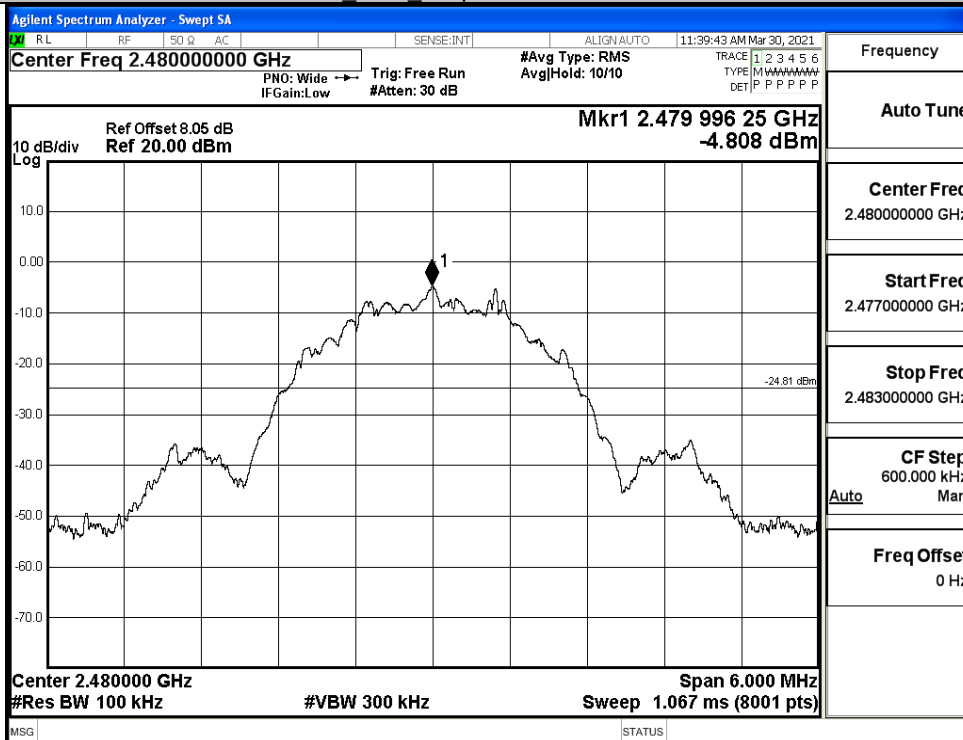


BT 2LE MCH Graphs

Pref/BT
2LE/MCHPuw/BT
2LE/MCH

BT 2LE HCH Graphs

Pref/BT 2LE/HCH

Puw/BT
2LE/HCH

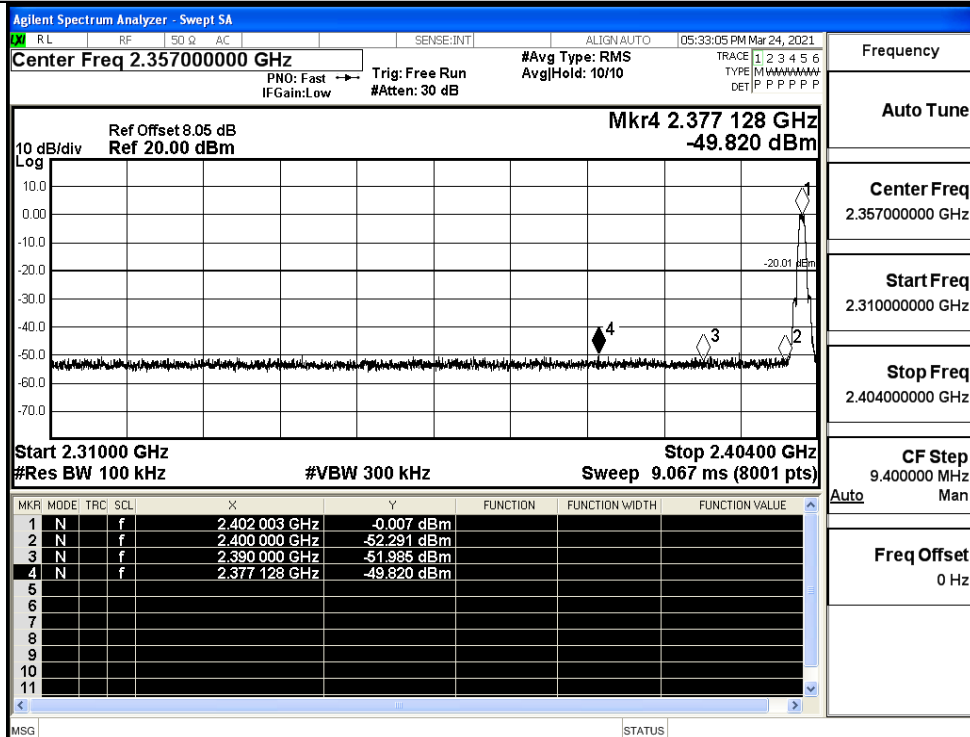
B.6 Band-edge for RF Conducted Emissions

BT LE

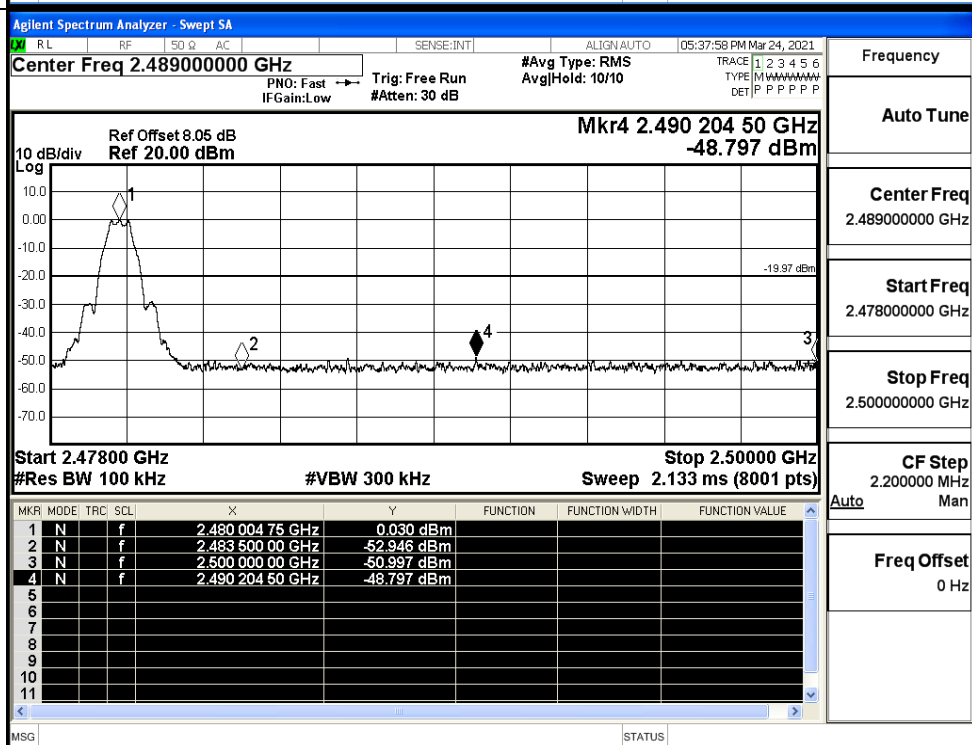
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.007	-49.820	-20.01	PASS
BT LE	HCH	0.030	-48.797	-19.97	PASS

Test Graphs

LCH



HCH

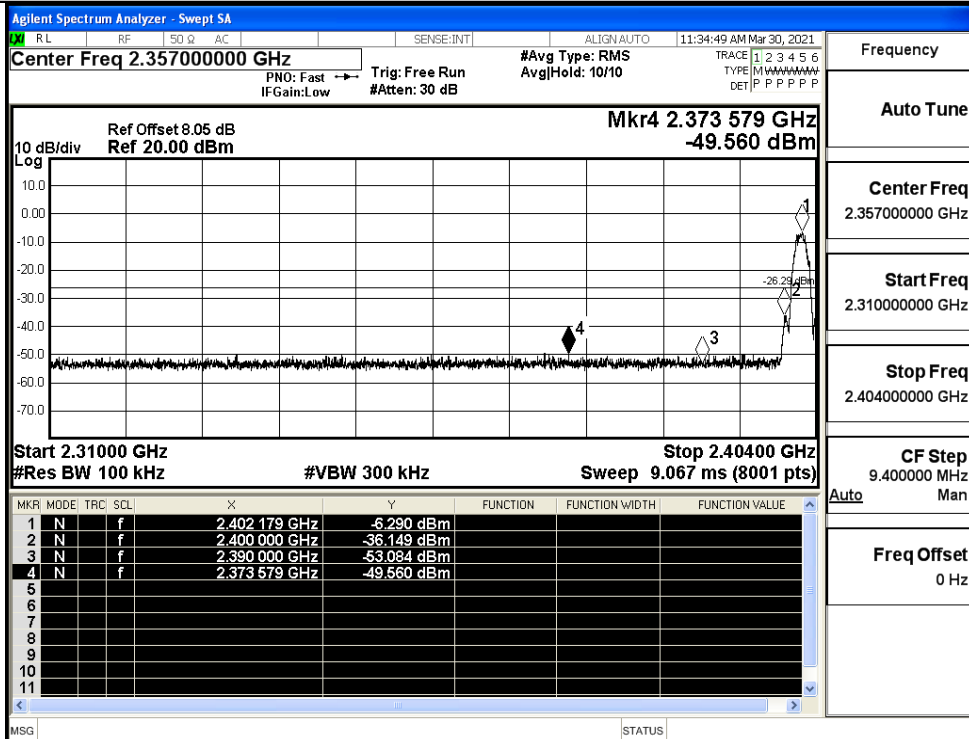


BT 2LE

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-6.290	-49.560	-26.29	PASS
BT 2LE	HCH	-4.727	-49.191	-24.73	PASS

Test Graphs

LCH

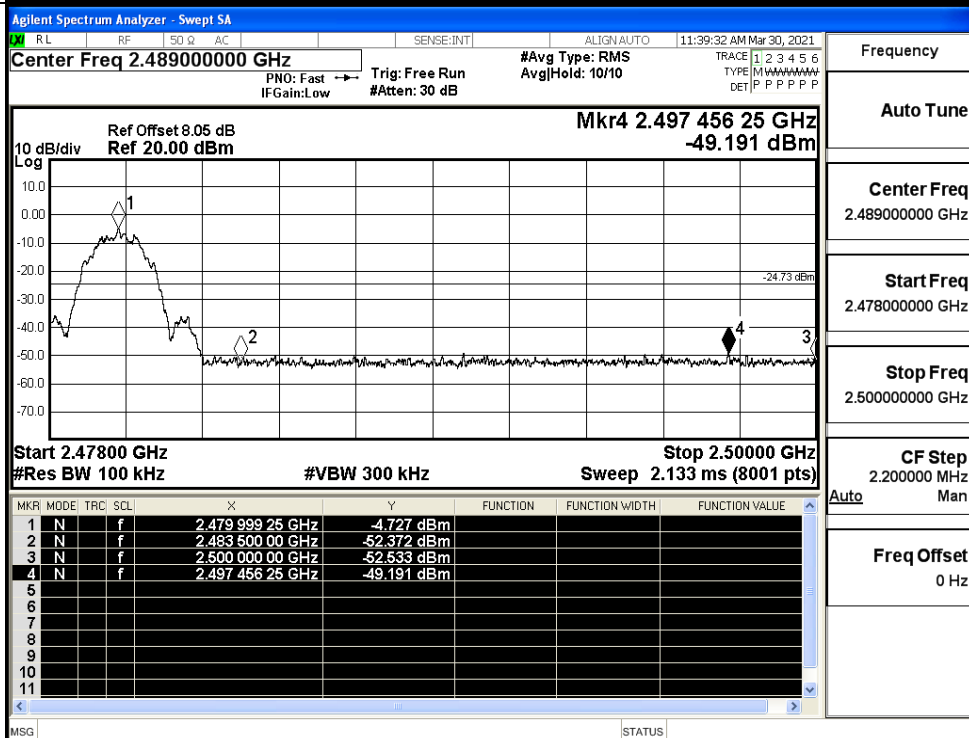


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

Auto Tune

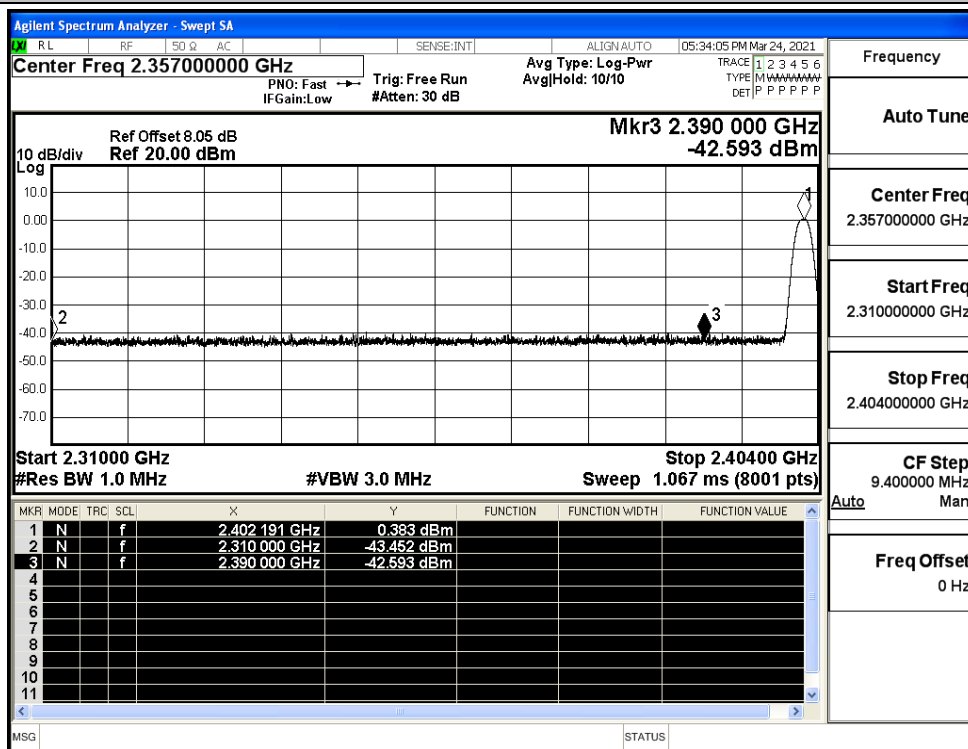
Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

B.7 Restrict-band band-edge measurements

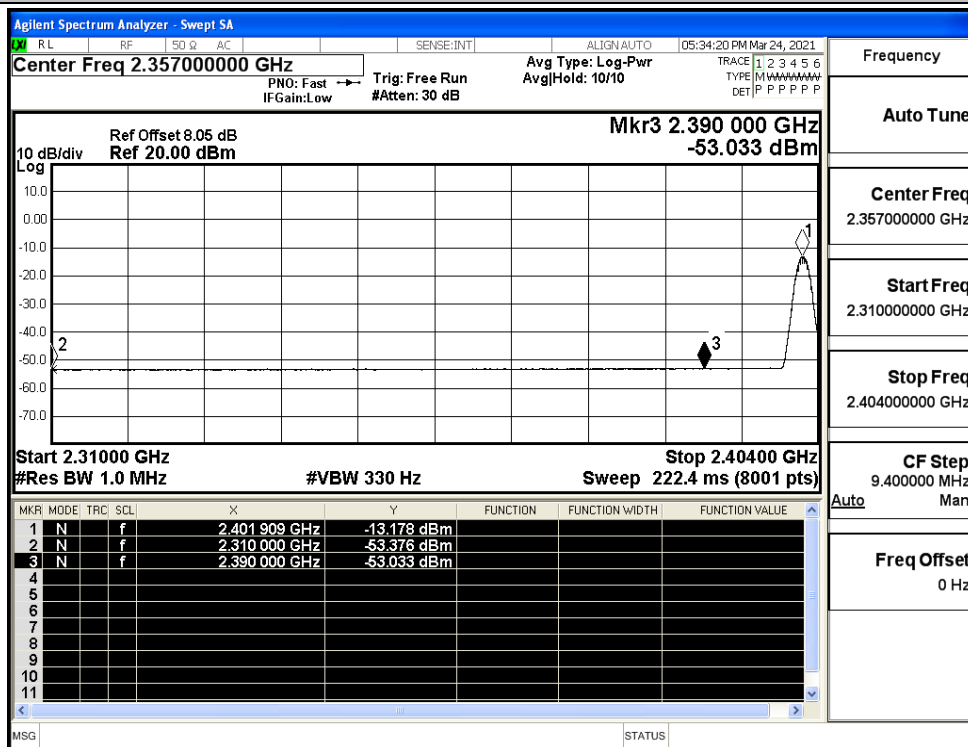
BT LE

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	-43.45	2.0	0	51.81	PEAK	74	PASS
		Ant1	2310.0	-53.38	2.0	0	41.88	AV	54	PASS
		Ant1	2390.0	-42.59	2.0	0	52.66	PEAK	74	PASS
		Ant1	2390.0	-53.03	2.0	0	42.22	AV	54	PASS
	2480	Ant1	2483.5	-42.49	2.0	0	52.77	PEAK	74	PASS
		Ant1	2483.5	-52.57	2.0	0	42.69	AV	54	PASS
		Ant1	2500.0	-40.11	2.0	0	55.15	PEAK	74	PASS
		Ant1	2500.0	-52.46	2.0	0	42.80	AV	54	PASS

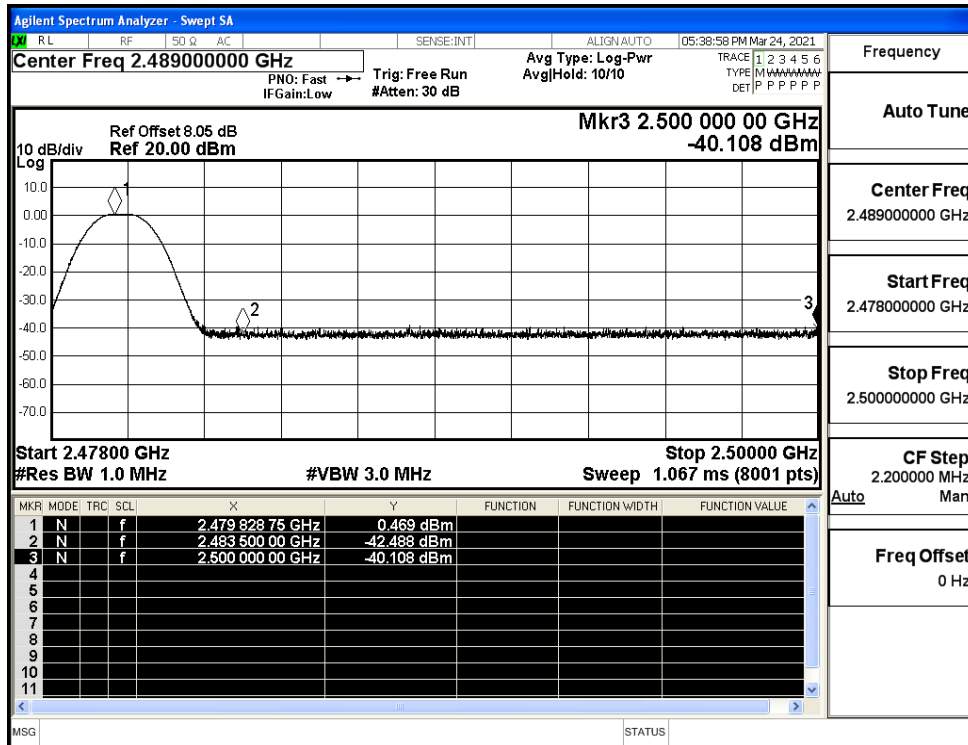
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



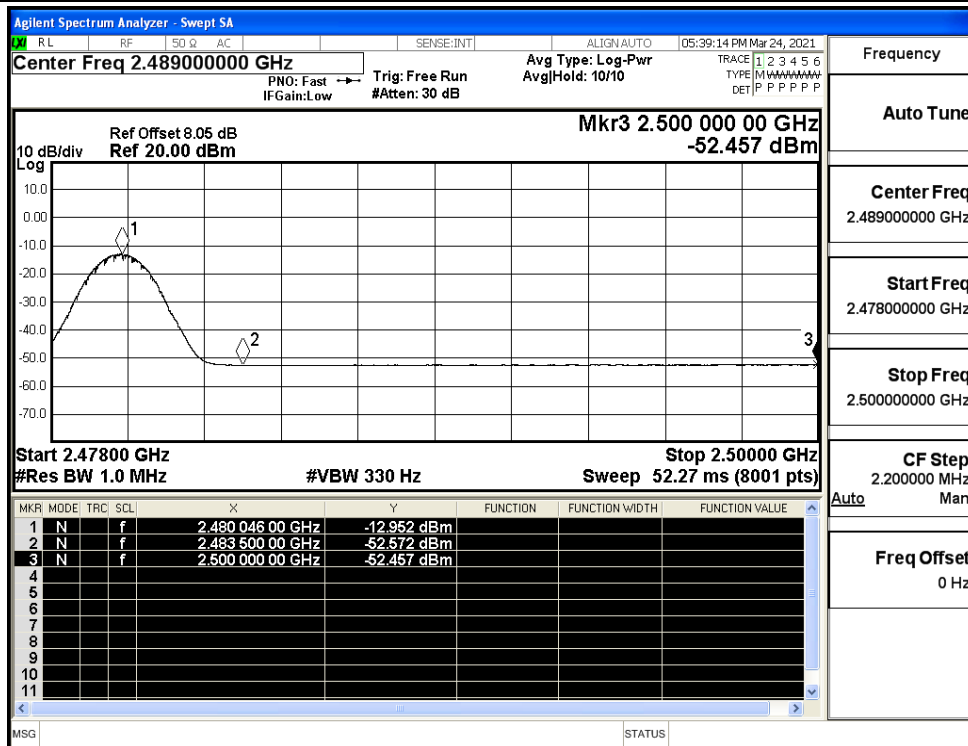
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



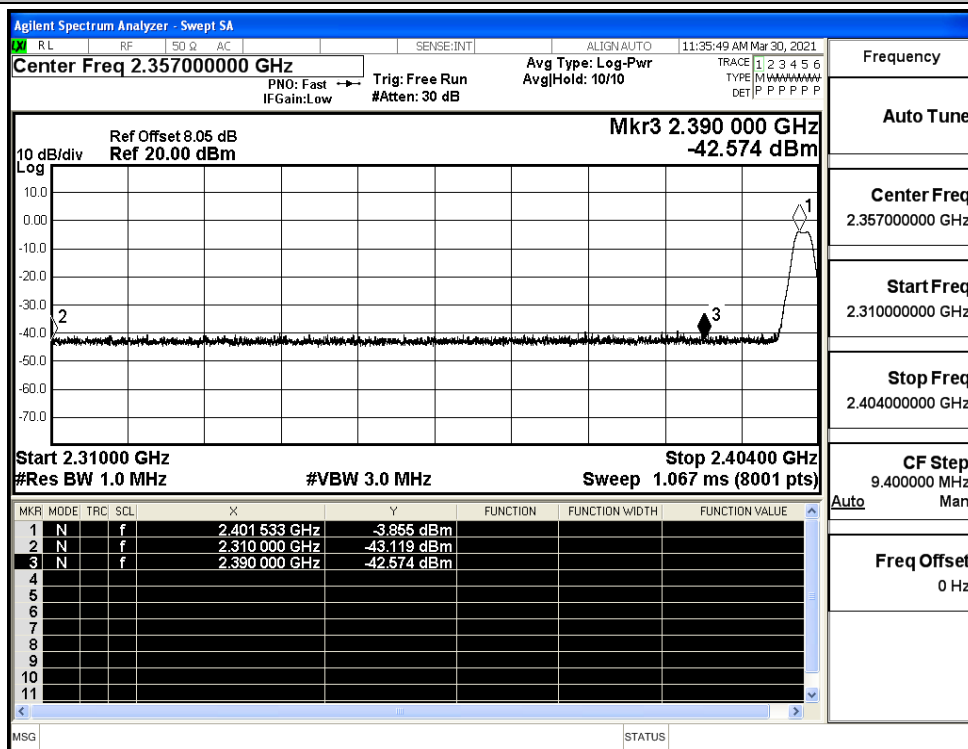
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



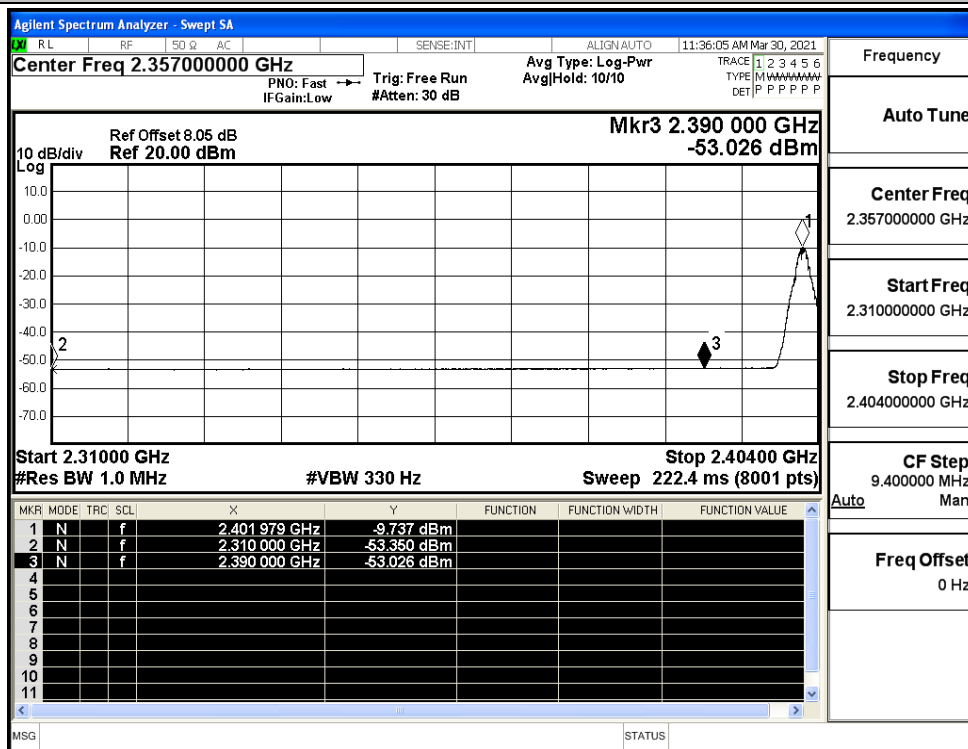
BT 2LE

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT 2LE	2402	Ant1	2310.0	-43.12	2.0	0	52.14	PEAK	74	PASS
		Ant1	2310.0	-53.35	2.0	0	41.91	AV	54	PASS
		Ant1	2390.0	-42.57	2.0	0	52.68	PEAK	74	PASS
		Ant1	2390.0	-53.03	2.0	0	42.23	AV	54	PASS
	2480	Ant1	2483.5	-43.20	2.0	0	52.06	PEAK	74	PASS
		Ant1	2483.5	-52.13	2.0	0	43.13	AV	54	PASS
		Ant1	2500.0	-43.00	2.0	0	52.26	PEAK	74	PASS
		Ant1	2500.0	-52.29	2.0	0	42.96	AV	54	PASS

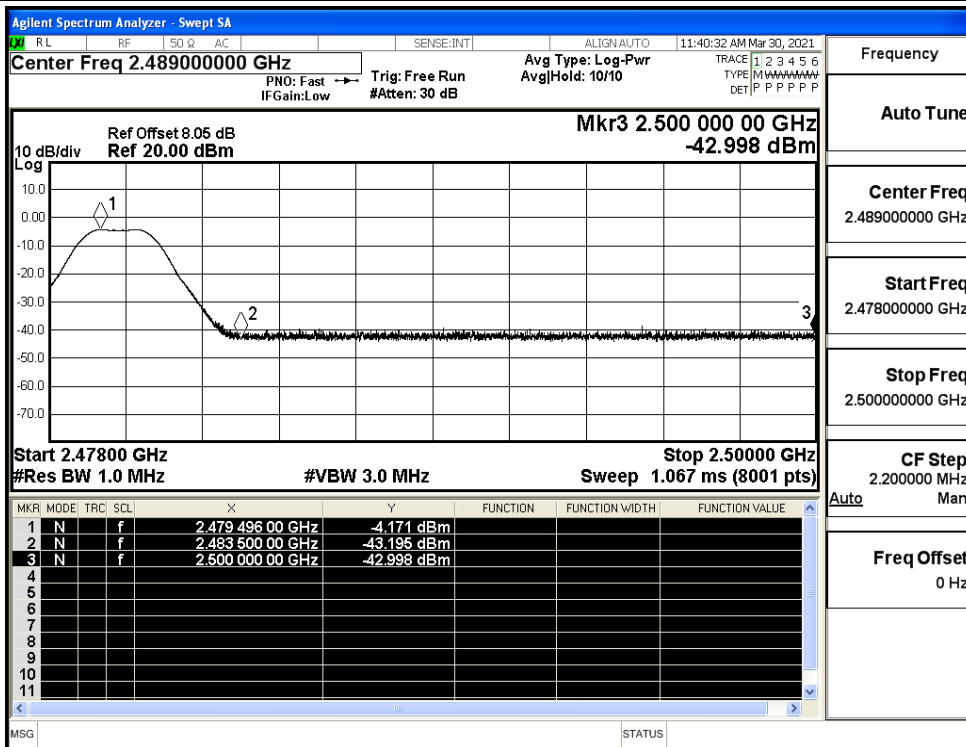
Restrict-band band-edge measurements_BT 2LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT 2LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT 2LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT 2LE_2480_Ant1_AV

