

Appendix B

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

Product Name: 13.3 notebook

Trade Mark: N/A

Test Model: HTLB131NA58Z1EG

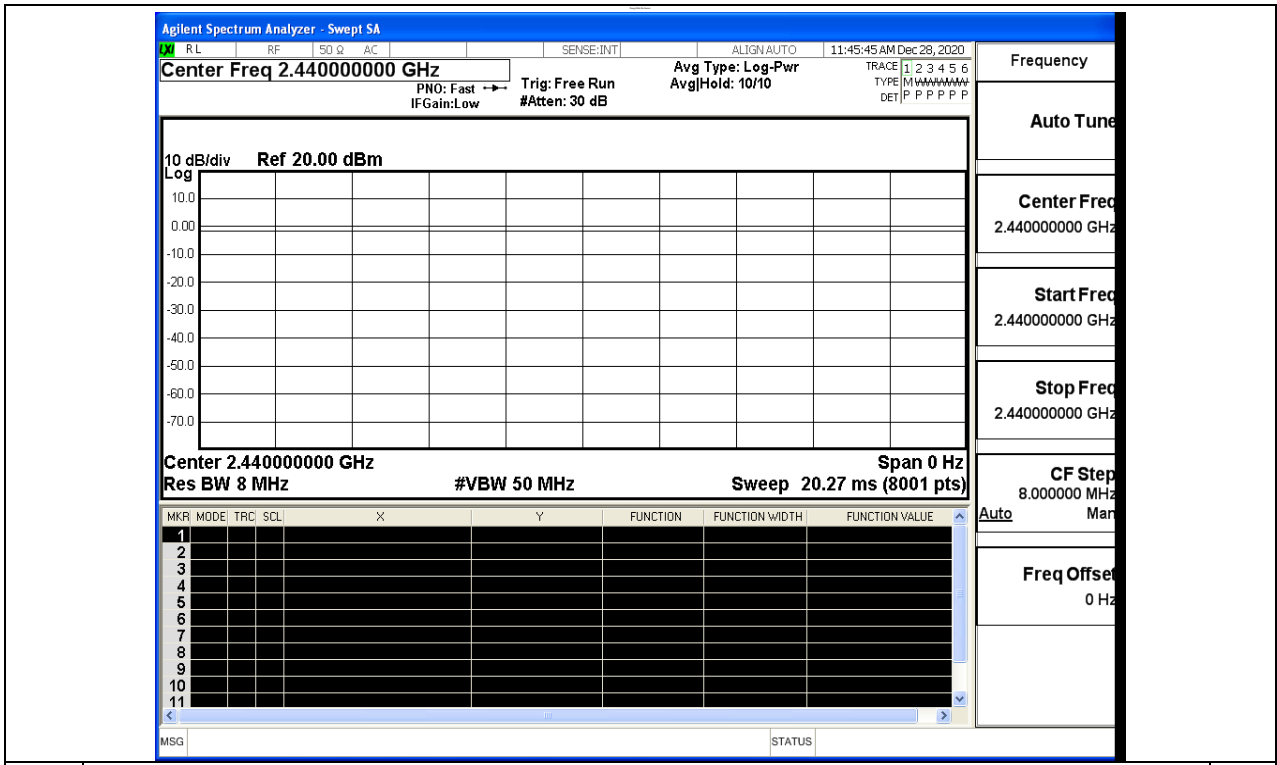
Environmental Conditions

Temperature:	23.2° C
Relative Humidity:	51.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

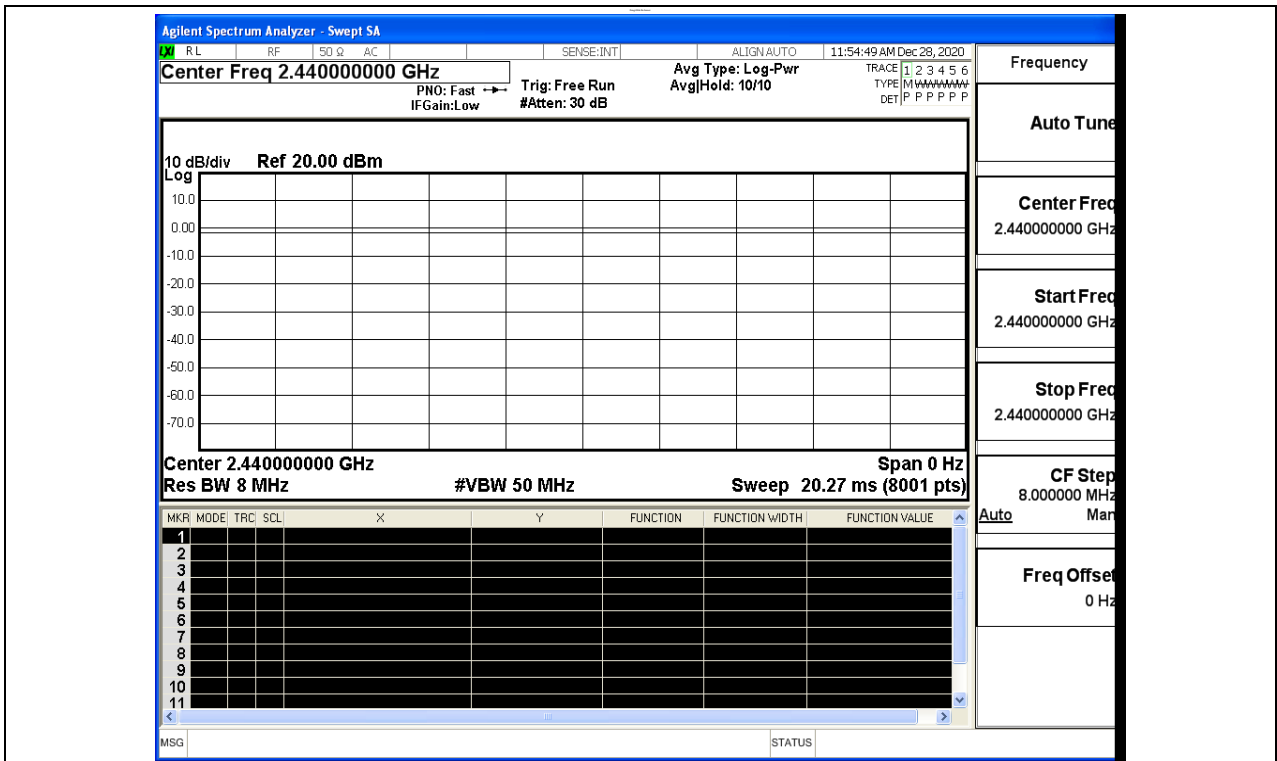
B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS
BT 2LE	2440	Ant1	100	PASS

BT LE

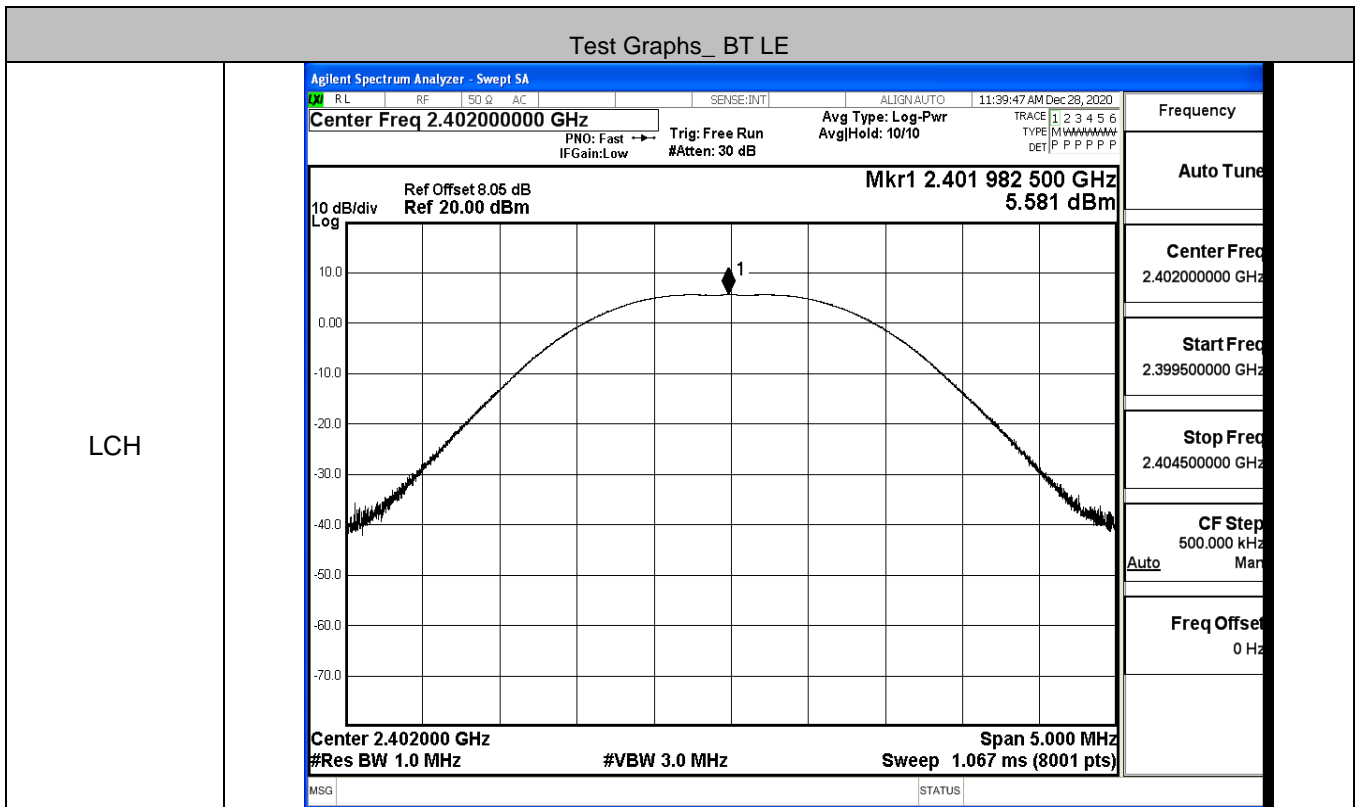


BT 2LE

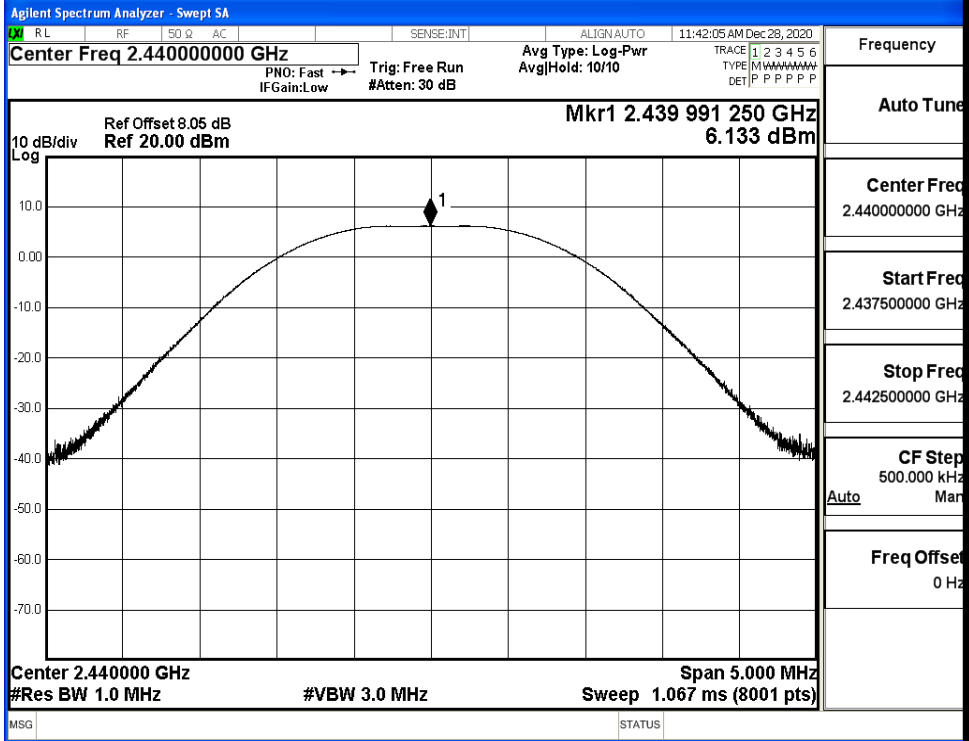


B.2 Maximum Conducted Peak Output Power

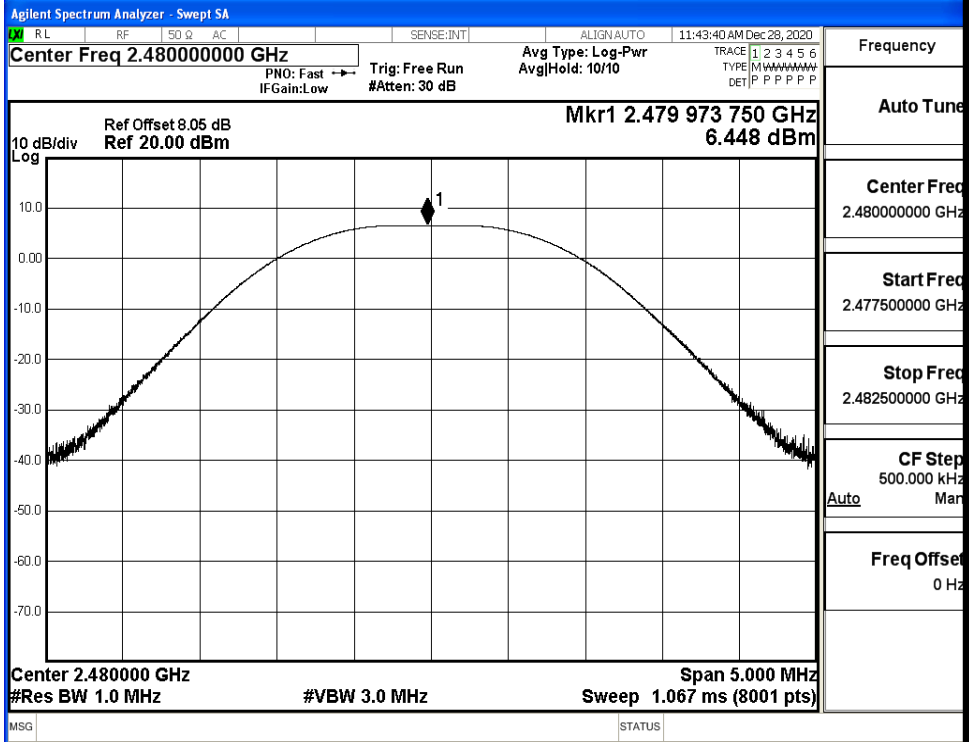
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.581	30	PASS
BT LE	MCH	6.133	30	PASS
BT LE	HCH	6.448	30	PASS
BT 2LE	LCH	5.614	30	PASS
BT 2LE	MCH	6.136	30	PASS
BT 2LE	HCH	6.479	30	PASS



MCH

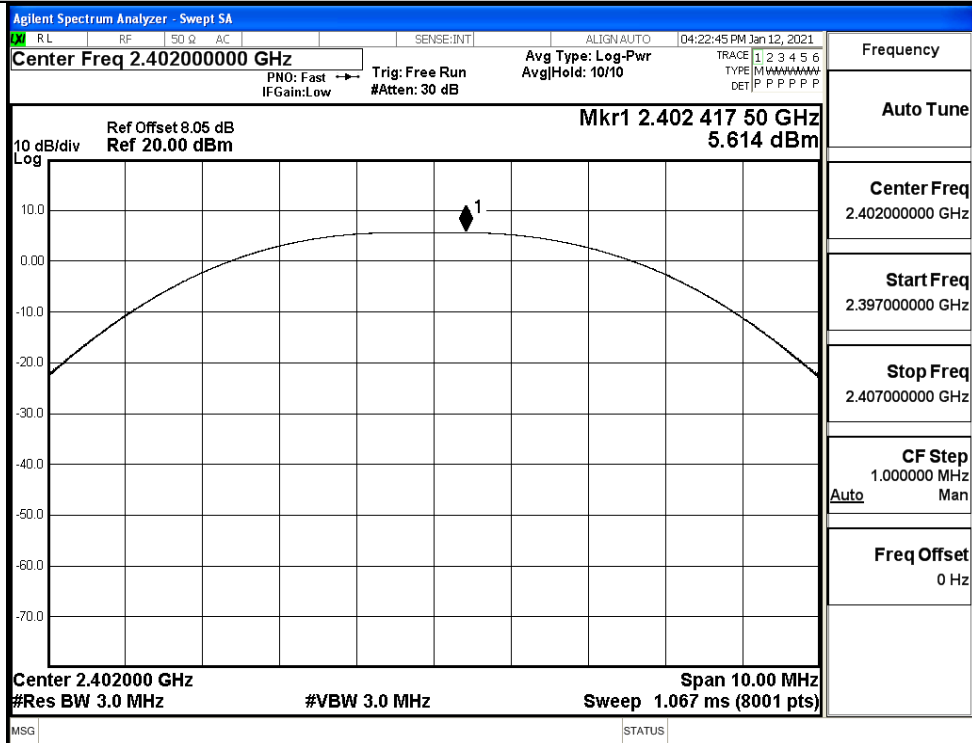


HCH

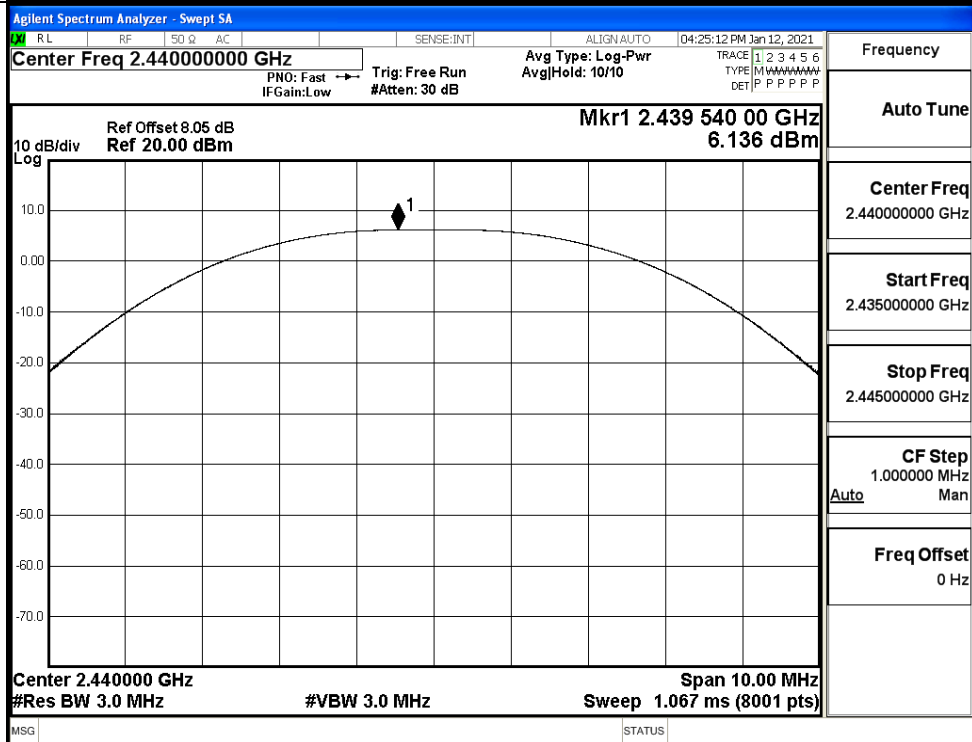


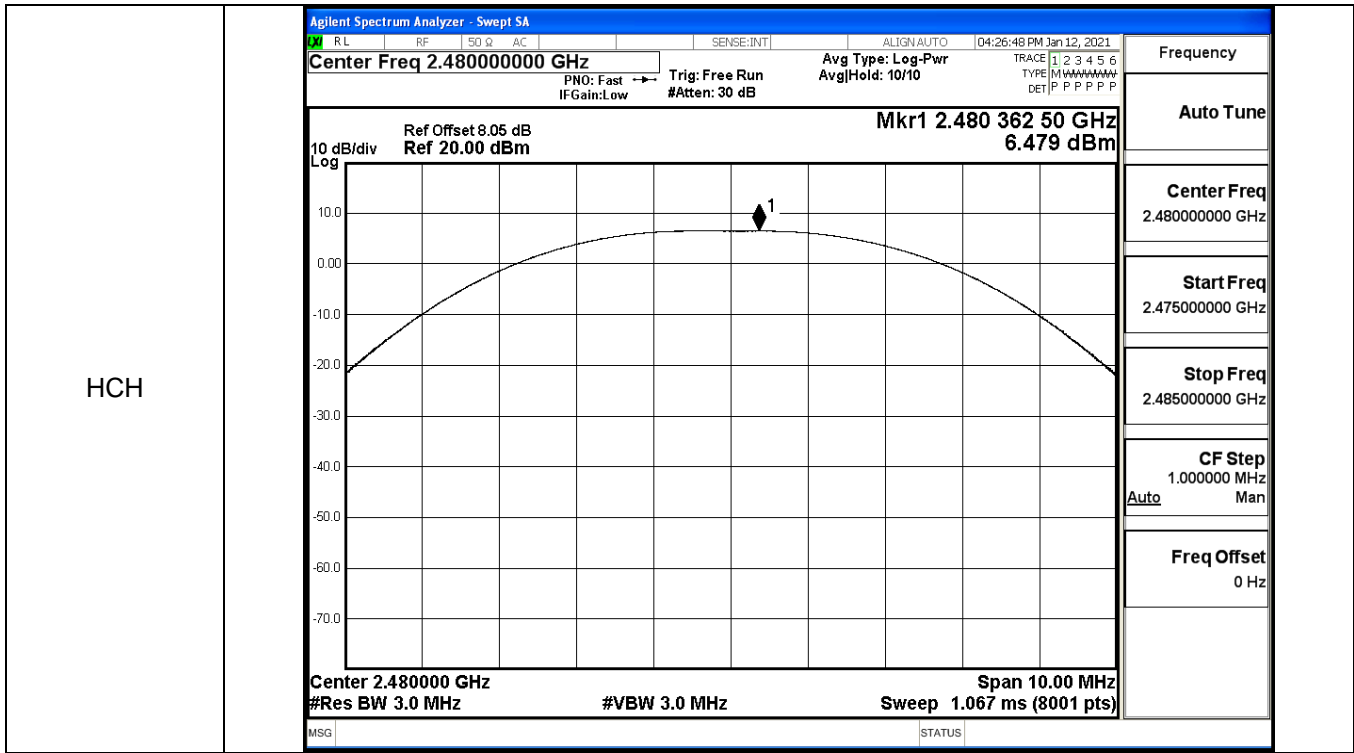
Test Graphs _ BT 2LE

LCH



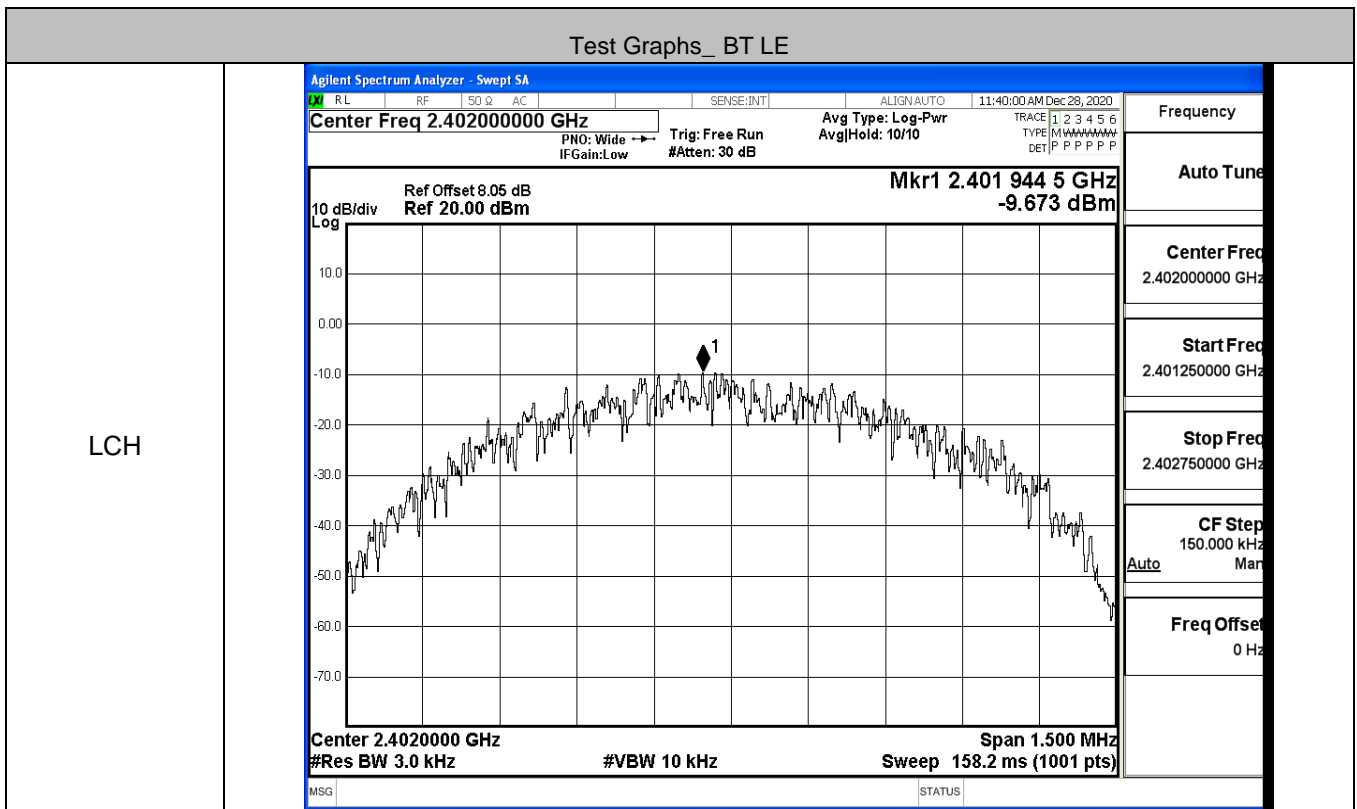
MCH



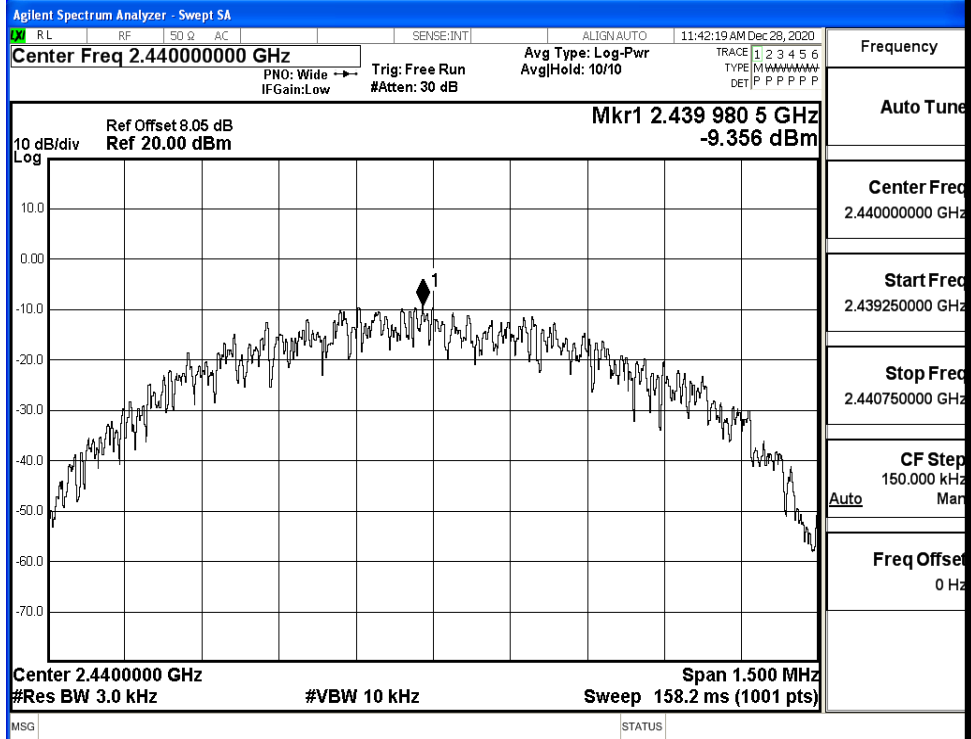


B.3 Maximum Power Spectral Density

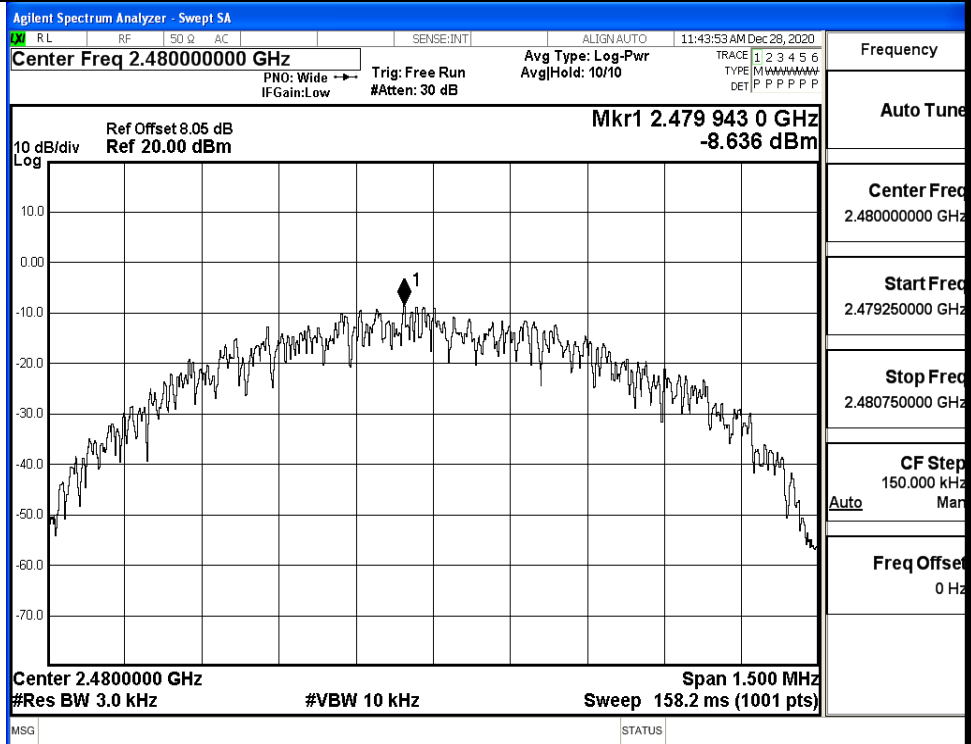
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-9.673	8	PASS
BT LE	MCH	-9.356	8	PASS
BT LE	HCH	-8.636	8	PASS
BT 2LE	LCH	-12.041	8	PASS
BT 2LE	MCH	-11.505	8	PASS
BT 2LE	HCH	-11.094	8	PASS



MCH

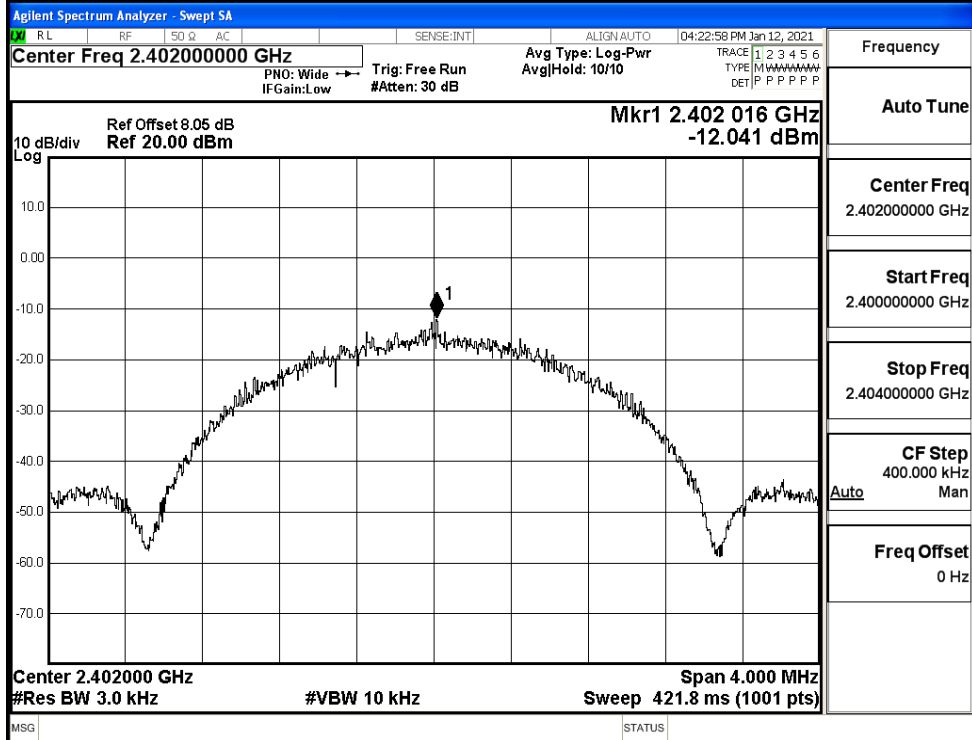


HCH

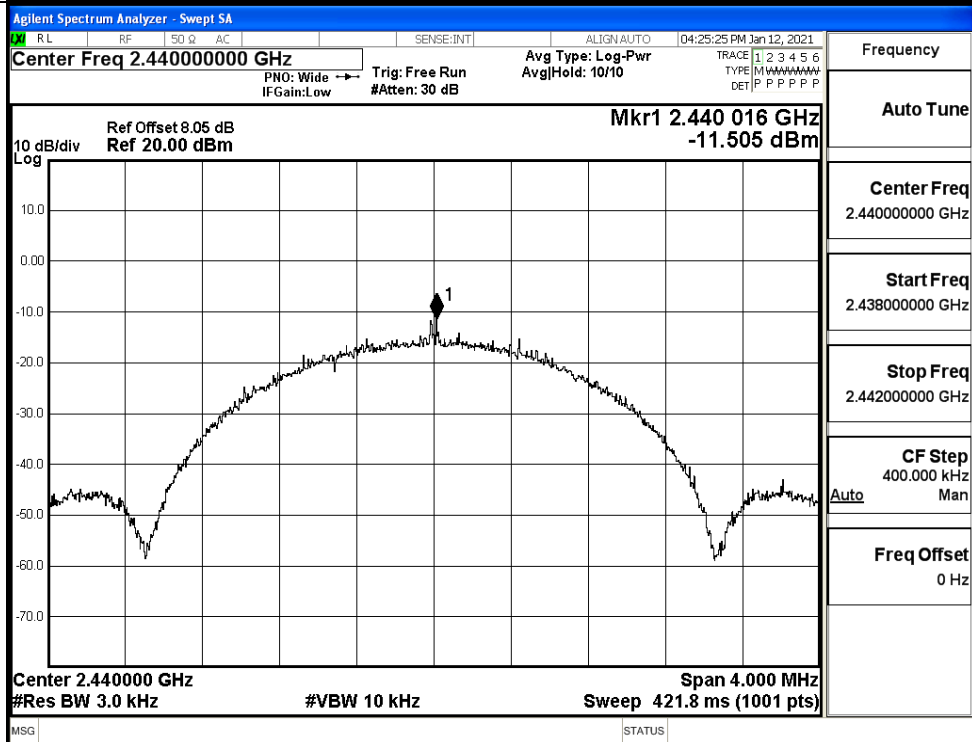


Test Graphs _ BT 2LE

LCH

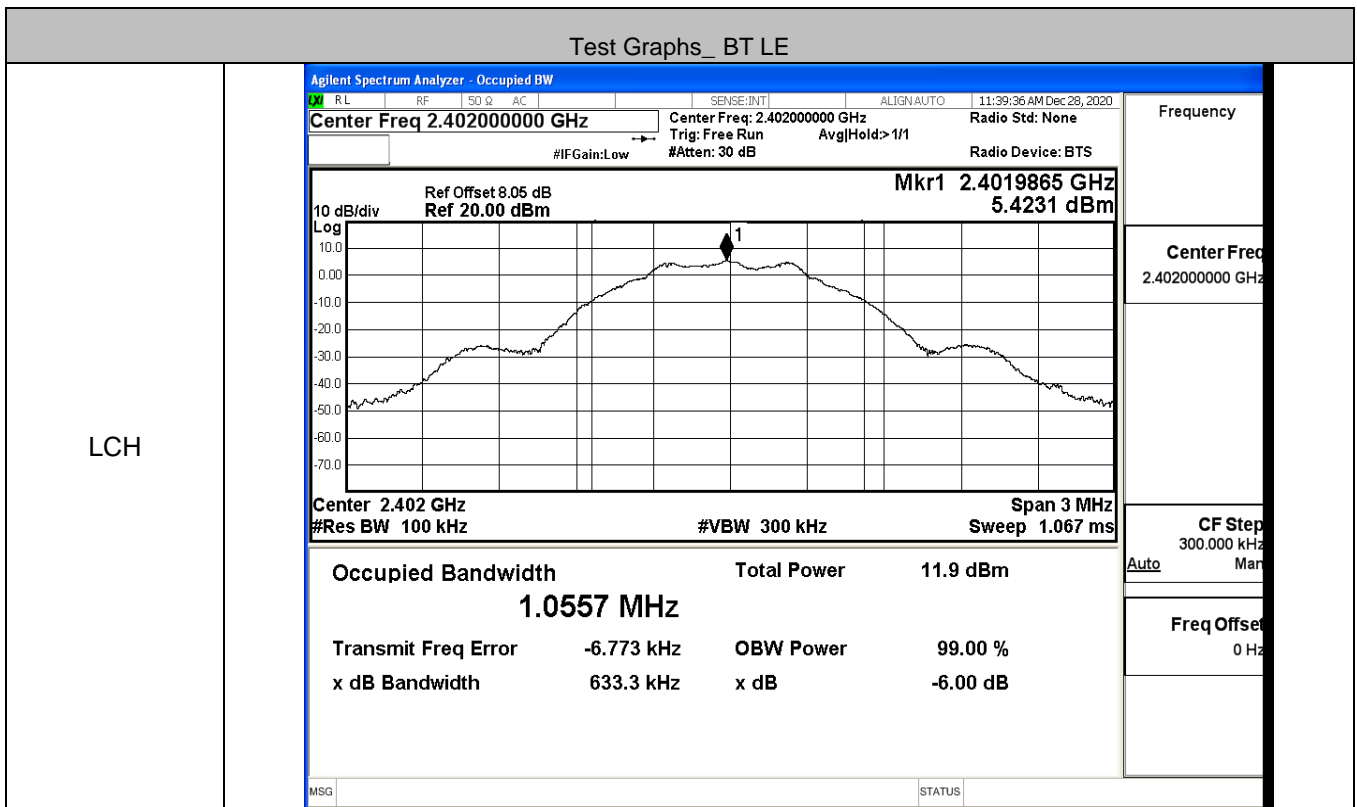


MCH

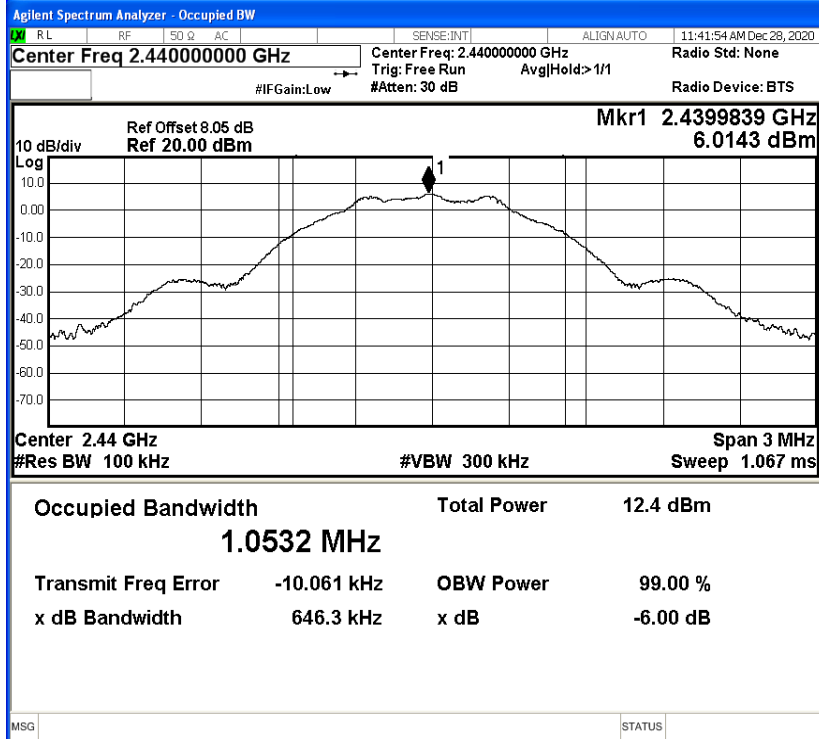


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6333	≥0.5	PASS
BT LE	MCH	0.6463	≥0.5	PASS
BT LE	HCH	0.6375	≥0.5	PASS
BT 2LE	LCH	1.132	≥0.5	PASS
BT 2LE	MCH	1.136	≥0.5	PASS
BT 2LE	HCH	1.133	≥0.5	PASS

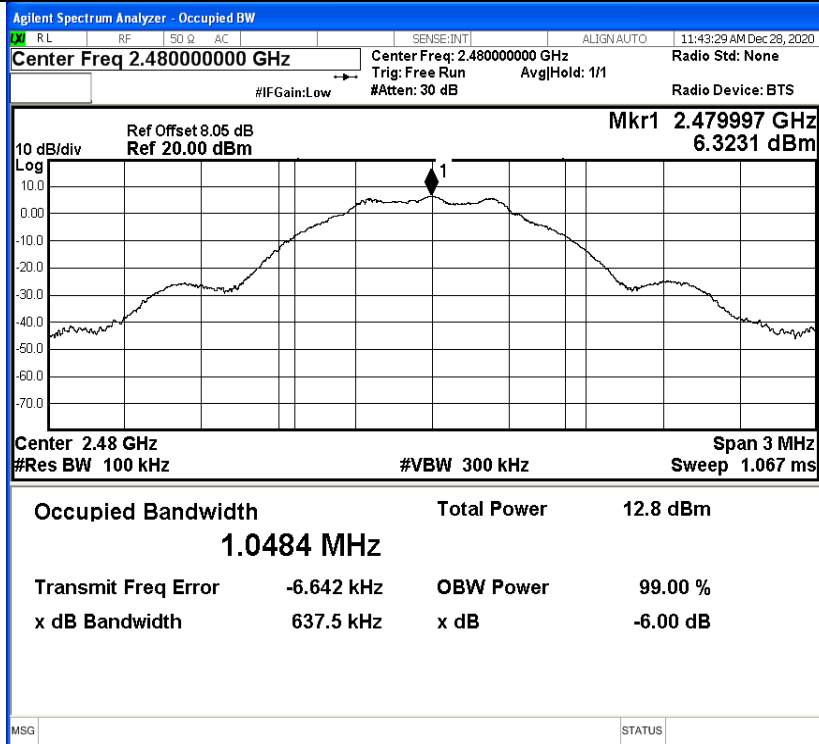


MCH



Frequency	2.44000000 GHz
Center Freq	2.44000000 GHz
CF Step	300.000 kHz
Freq Offset	0 Hz

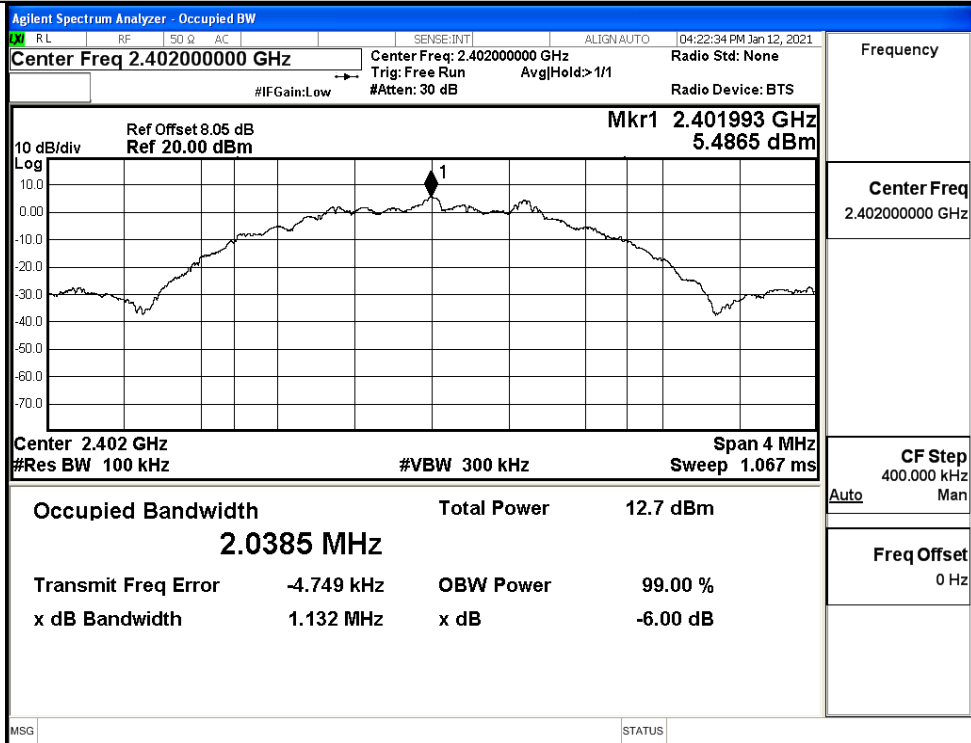
HCH



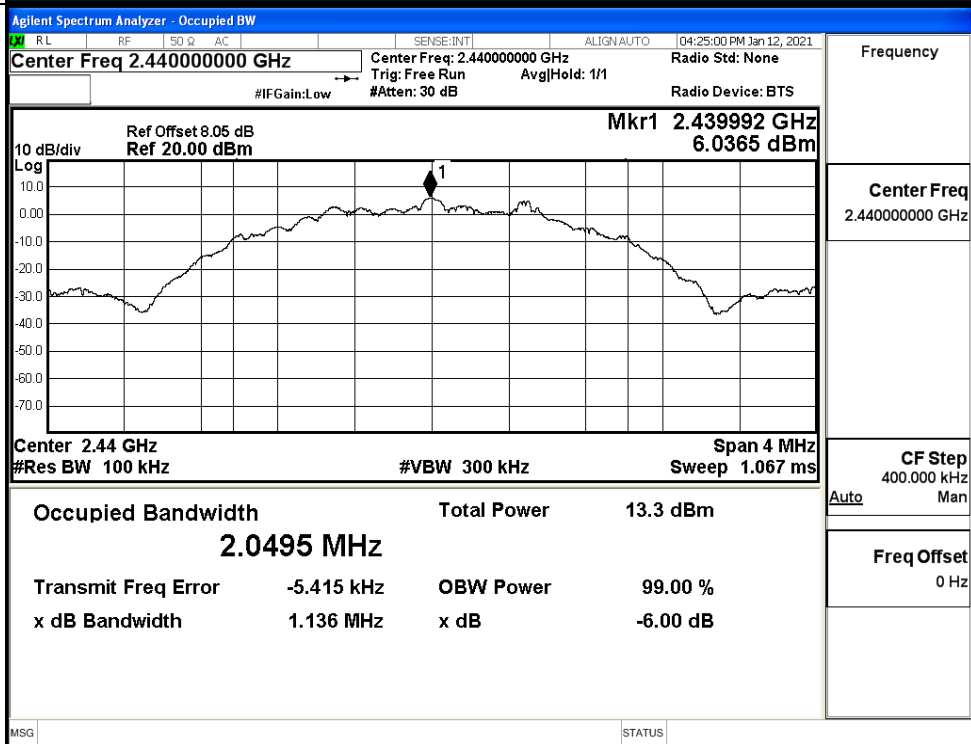
Frequency	2.48000000 GHz
Center Freq	2.48000000 GHz
CF Step	300.000 kHz
Freq Offset	0 Hz

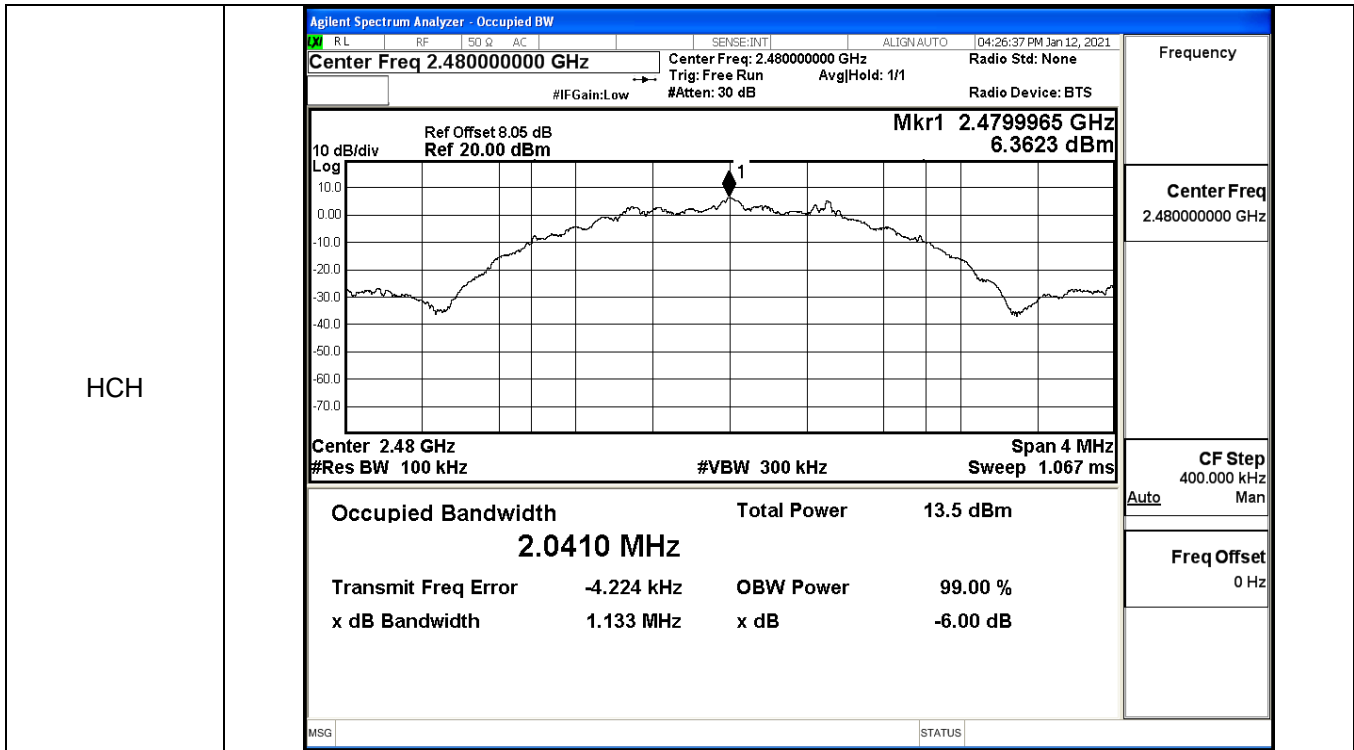
Test Graphs _ BT 2LE

LCH



MCH



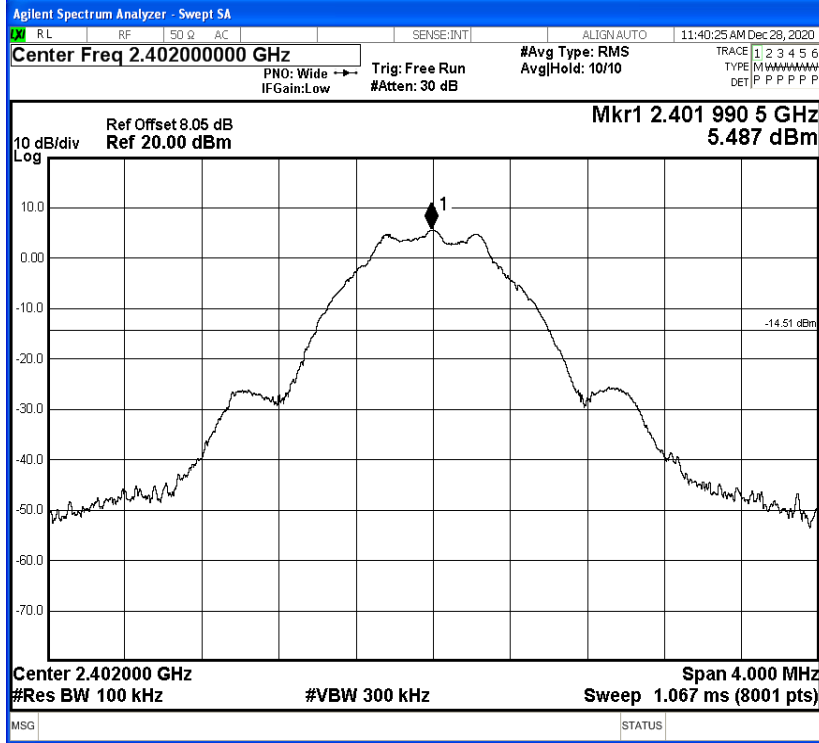


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.487	-37.087	-14.513	PASS
BT LE	MCH	6.063	-37.457	-13.937	PASS
BT LE	HCH	6.381	-35.763	-13.619	PASS
BT 2LE	LCH	5.585	-37.910	-14.415	PASS
BT 2LE	MCH	6.145	-37.348	-13.855	PASS
BT 2LE	HCH	6.377	-37.086	-13.623	PASS

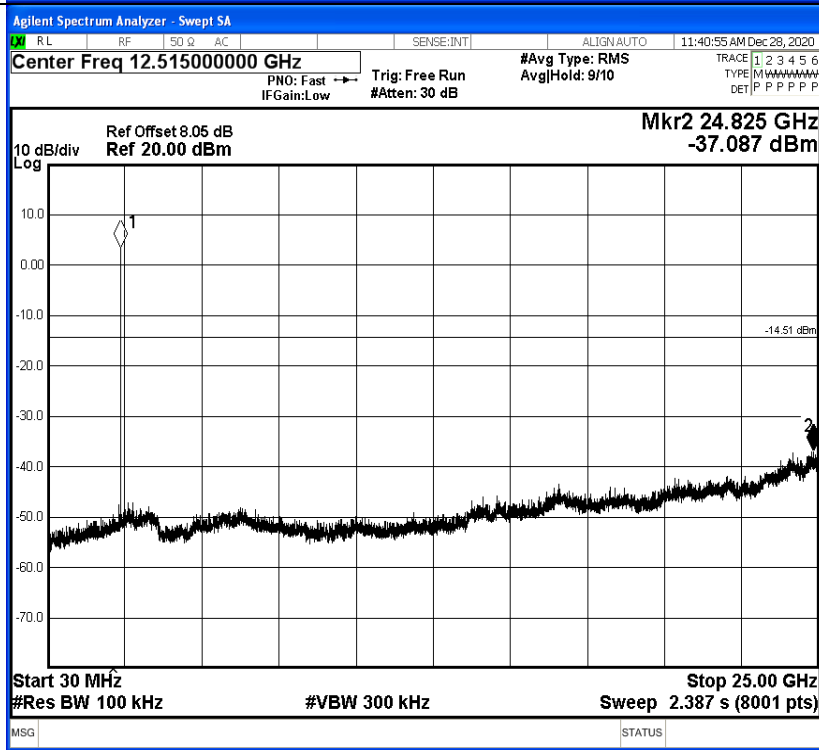
BT LE_LCH_Graphs

Pref/BT LE/LCH



Frequency	2.402000000 GHz
Auto Tune	
Center Freq	2.402000000 GHz
Start Freq	2.400000000 GHz
Stop Freq	2.404000000 GHz
CF Step	400.000 kHz
Auto	Man
Freq Offset	0 Hz

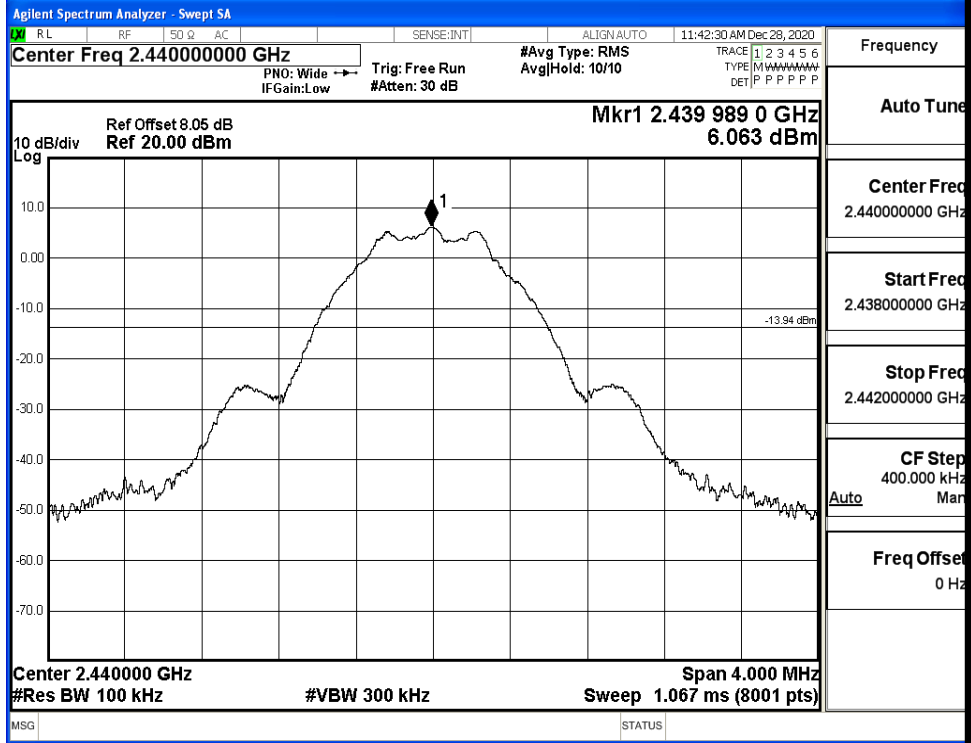
Puw/BT LE/LCH



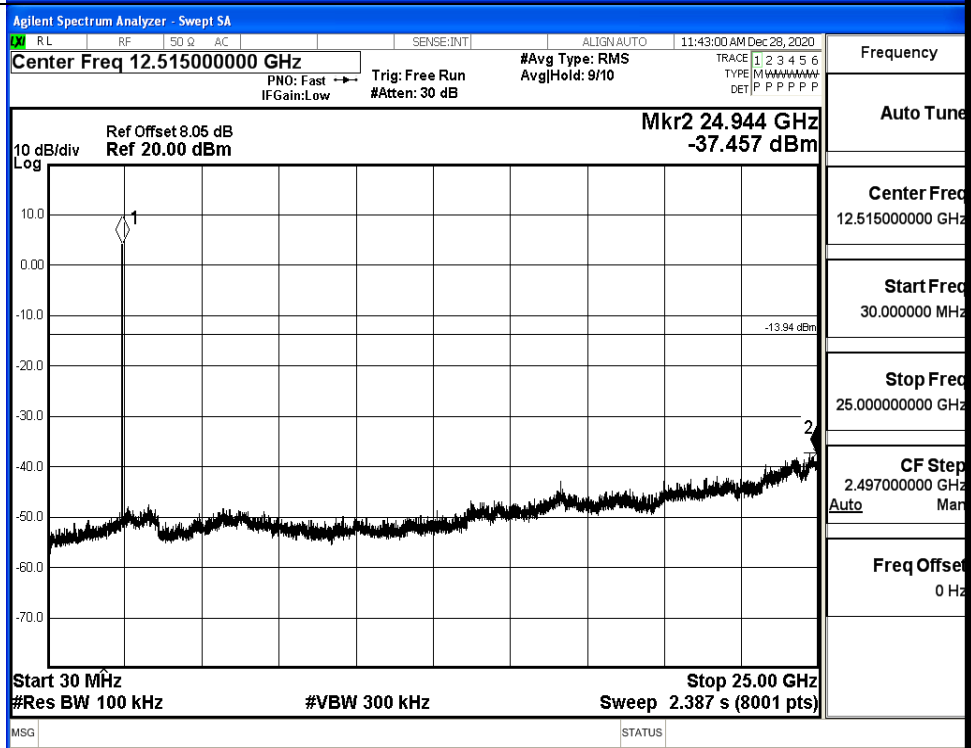
Frequency	12.515000000 GHz
Auto Tune	
Center Freq	12.515000000 GHz
Start Freq	30.000000 MHz
Stop Freq	25.000000000 GHz
CF Step	2.497000000 GHz
Auto	Man
Freq Offset	0 Hz

BT LE_MCH_Graphs

Pref/BT LE/MCH

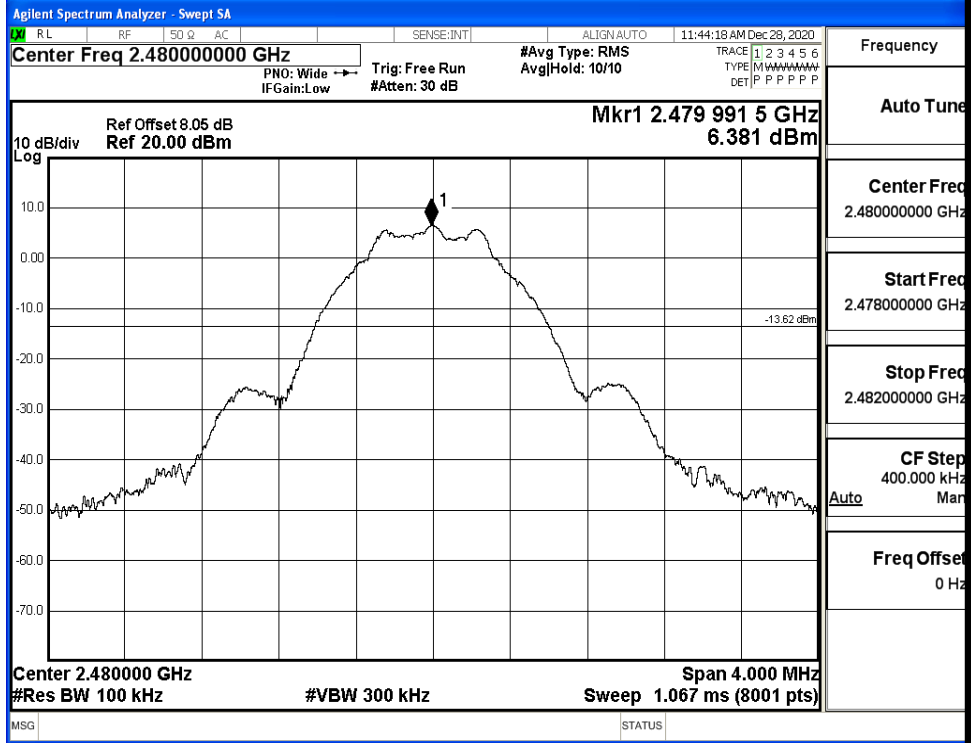


Puw/BT LE/MCH

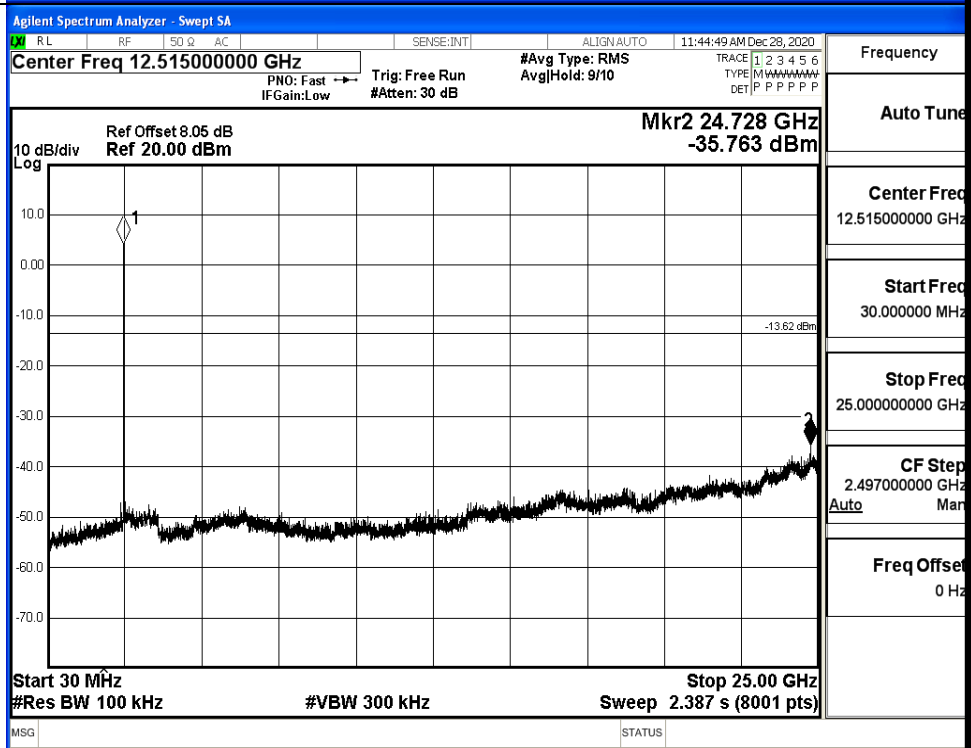


BT LE_HCH_Graphs

Pref/BT LE/HCH

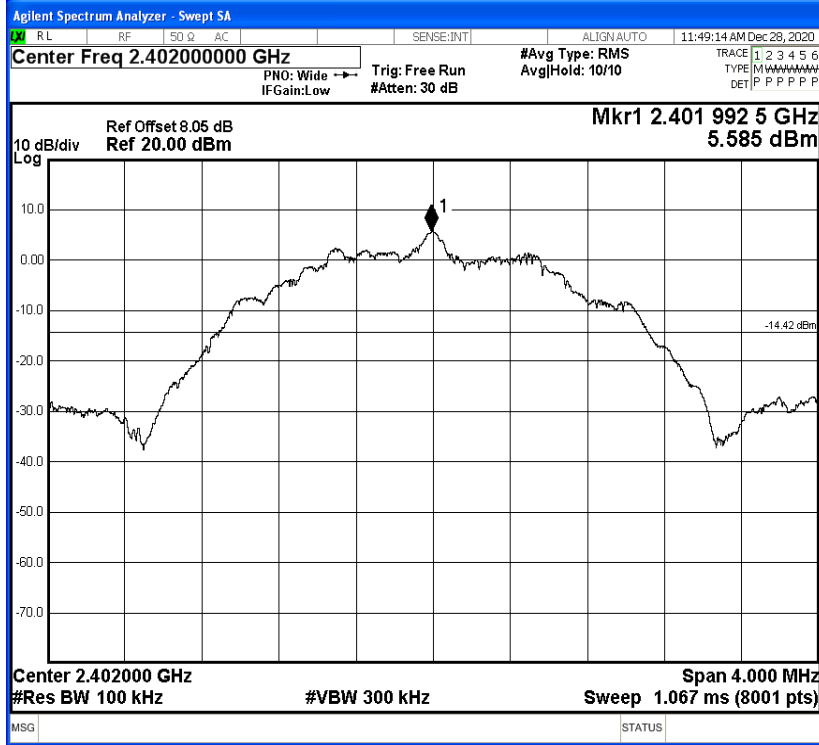


Puw/BT LE/HCH



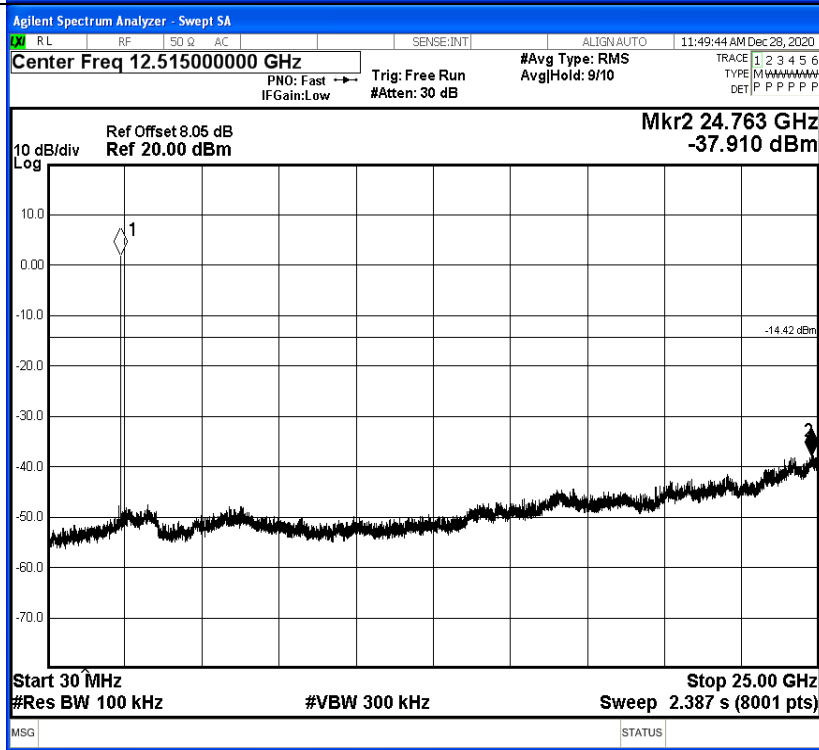
BT 2LE_LCH_Graphs

Pref/BT 2LE/LCH



Frequency	2.40200000 GHz
Auto Tune	
Center Freq	2.40200000 GHz
Start Freq	2.40000000 GHz
Stop Freq	2.40400000 GHz
CF Step	400.000 kHz
Auto	Man
Freq Offset	0 Hz

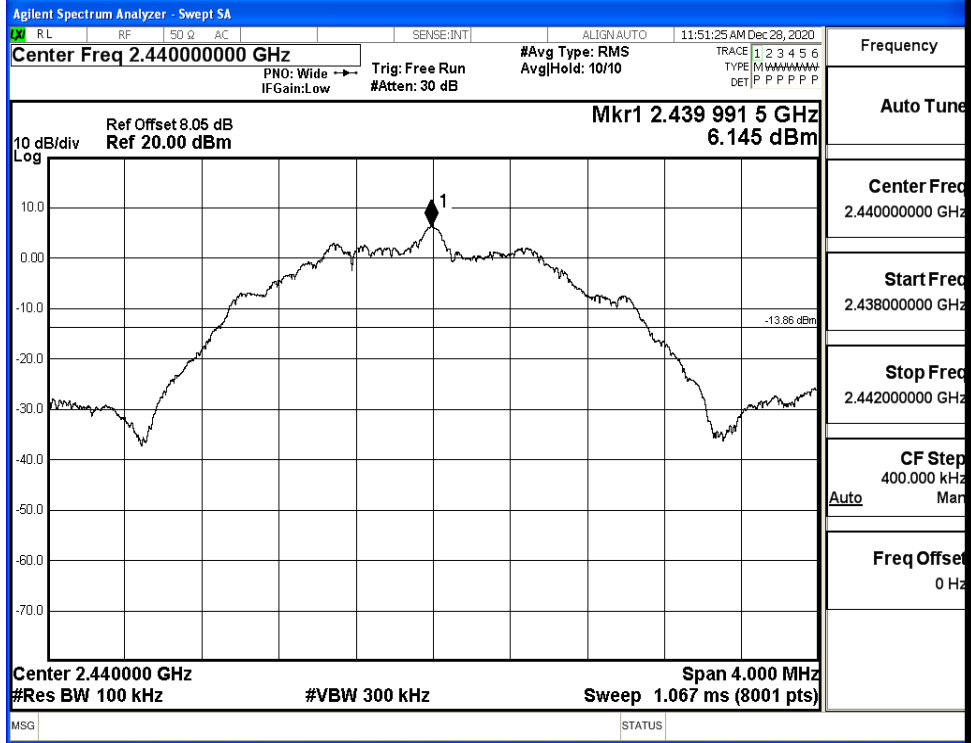
Puw/BT 2LE/LCH



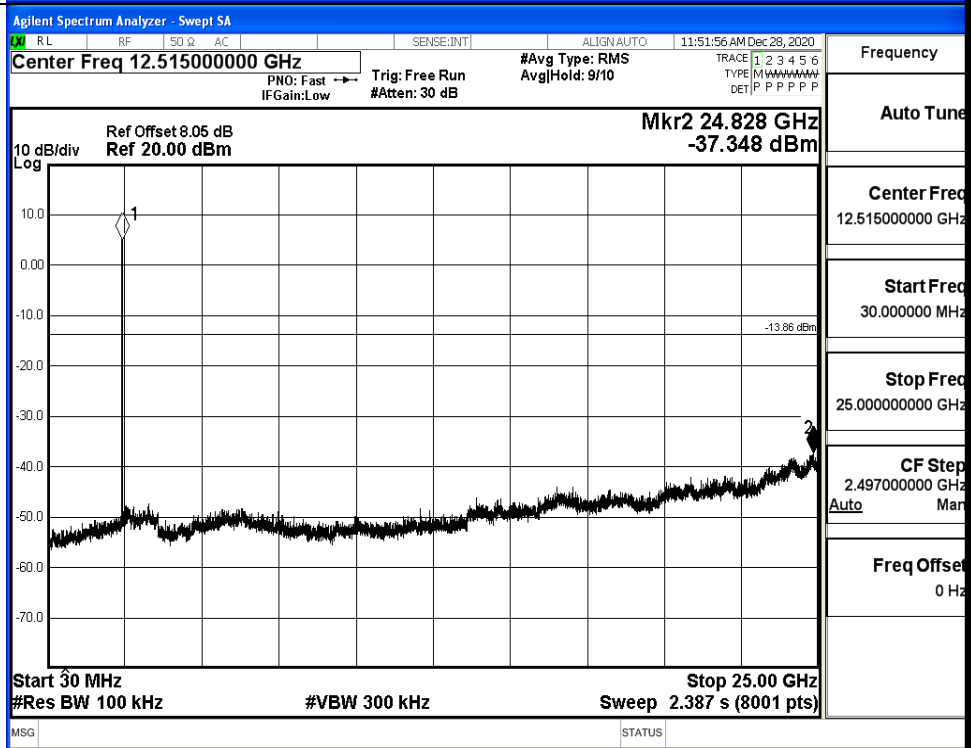
Frequency	12.51500000 GHz
Auto Tune	
Center Freq	12.51500000 GHz
Start Freq	30.000000 MHz
Stop Freq	25.00000000 GHz
CF Step	2.497000000 GHz
Auto	Man
Freq Offset	0 Hz

BT 2LE_MCH_Graphs

Pref/BT
2LE/MCH

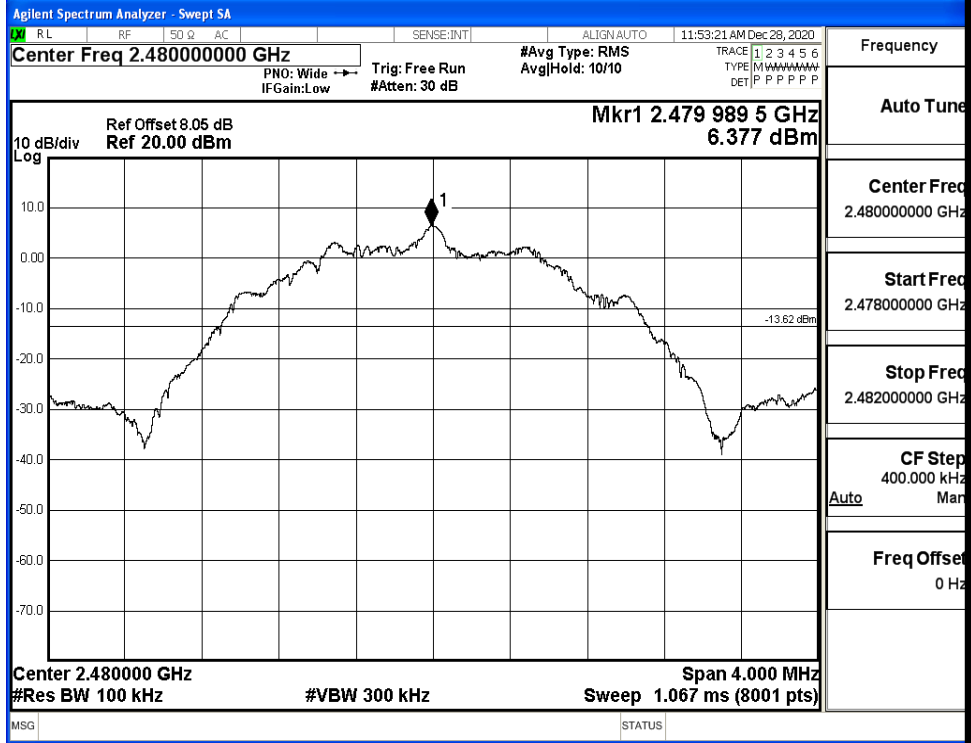


Puw/BT
2LE/MCH

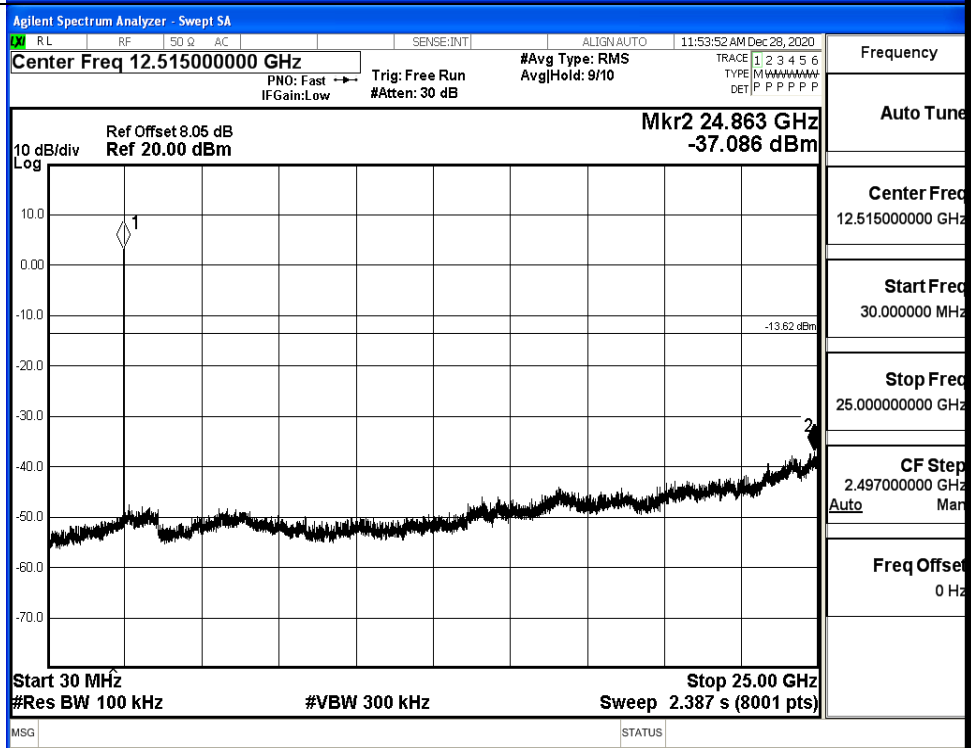


BT 2LE_HCH_Graphs

Pref/BT 2LE/HCH



Puw/BT 2LE/HCH

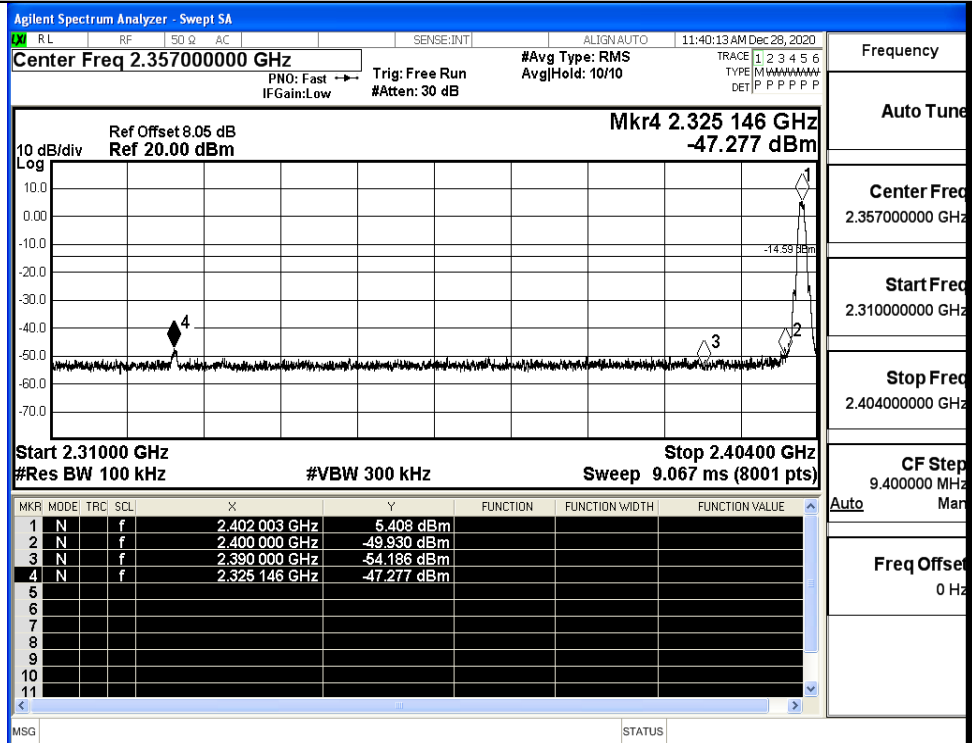


B.6 Band-edge for RF Conducted Emissions

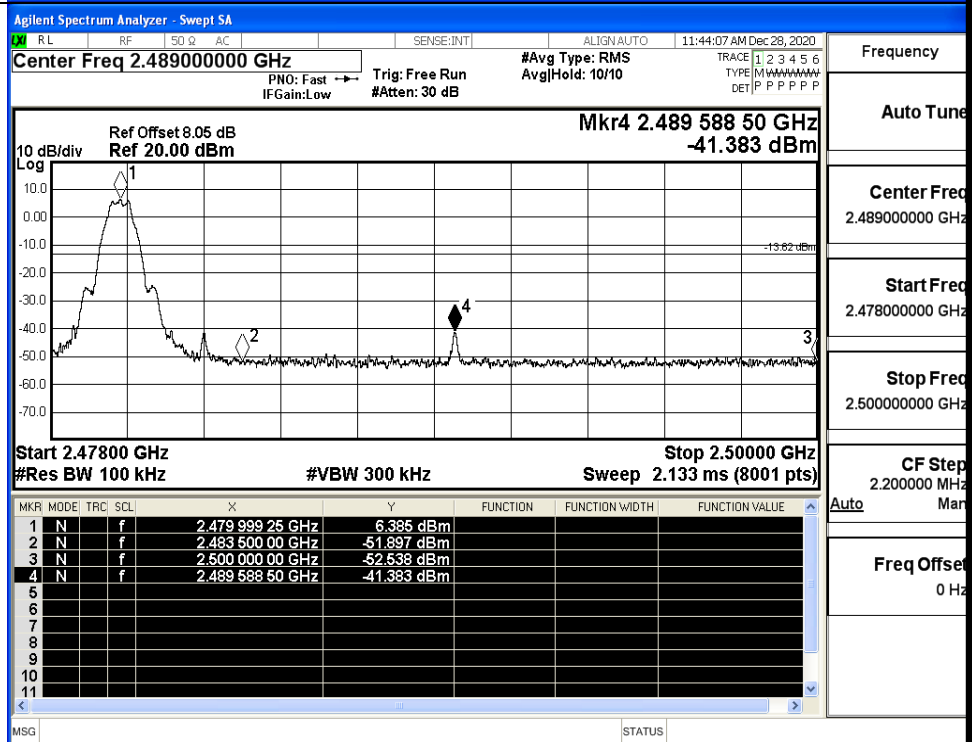
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.408	-47.277	-14.59	PASS
BT LE	HCH	6.385	-41.383	-13.62	PASS
BT 2LE	LCH	5.696	-46.302	-14.3	PASS
BT 2LE	HCH	6.593	-41.413	-13.41	PASS

Test Graphs_ BT LE

LCH

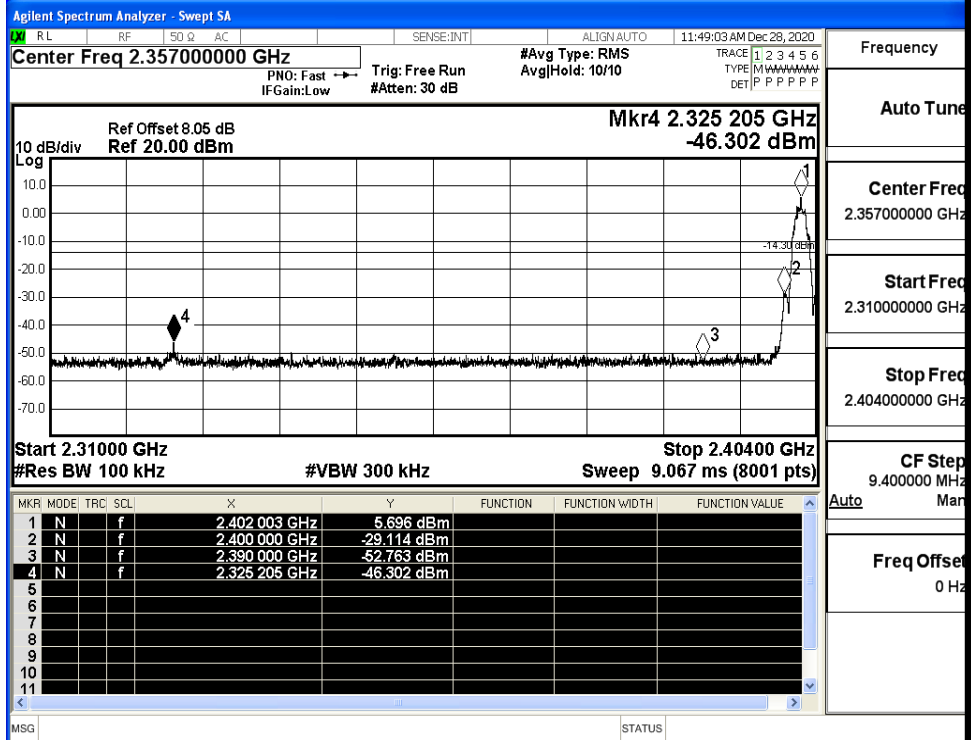


HCH

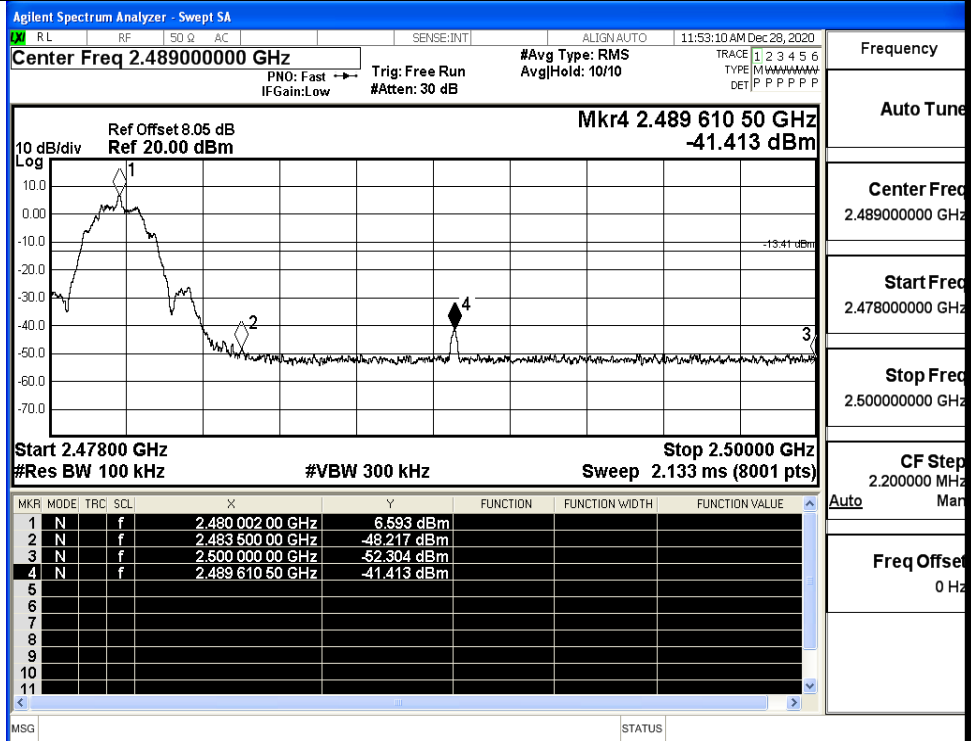


Test Graphs_ BT 2LE

LCH



HCH

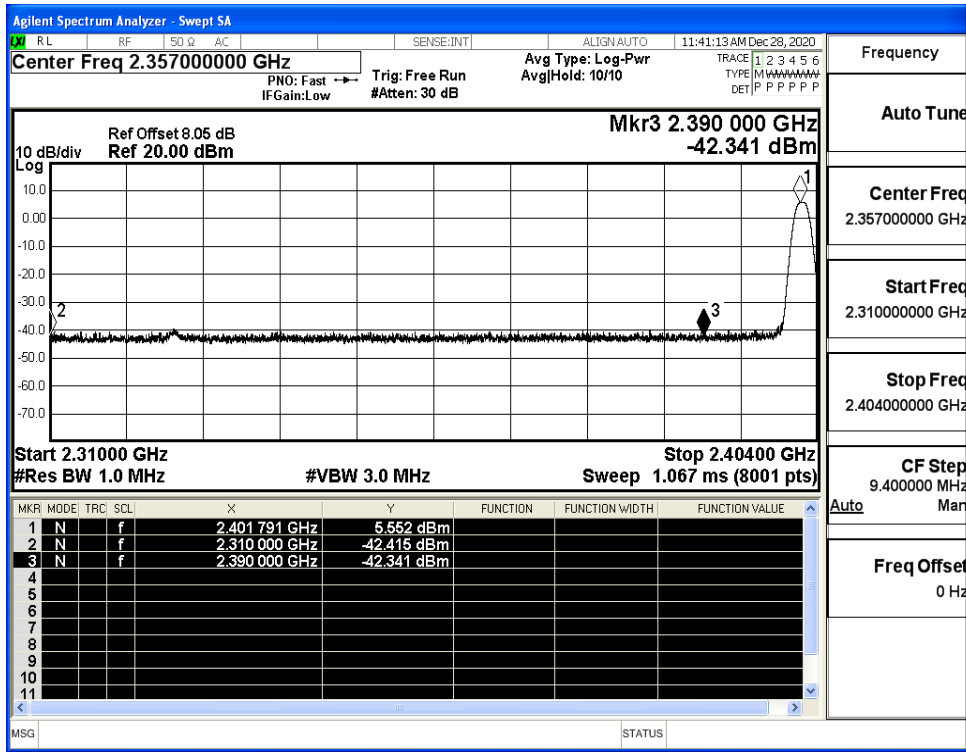


B.7 Restrict-band band-edge measurements

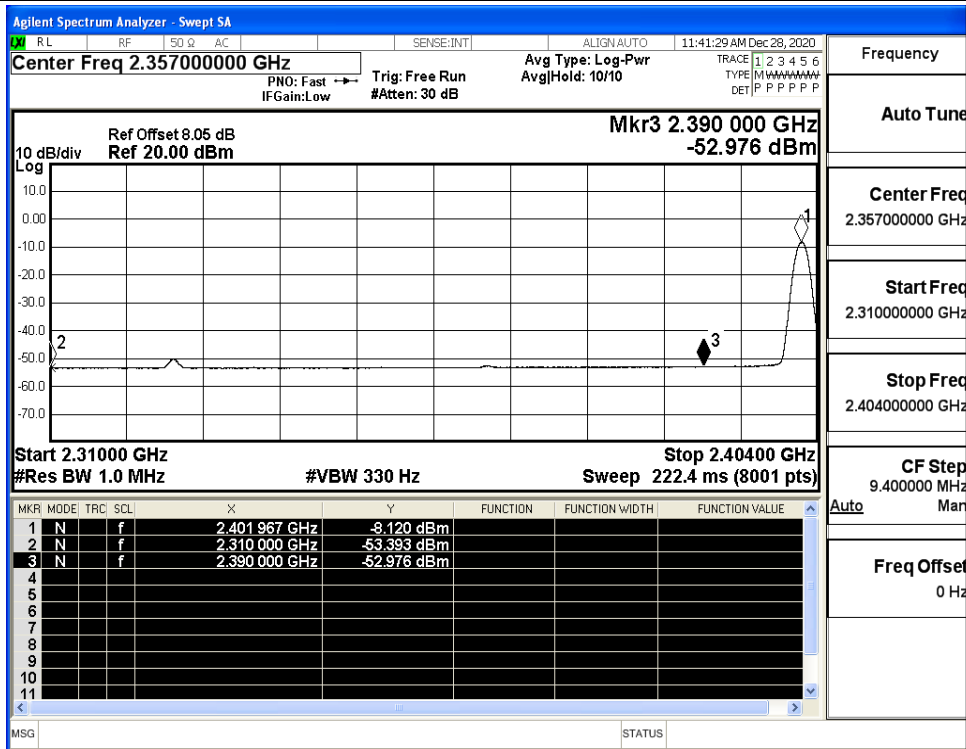
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-42.42	2.0	0	54.81	PEAK	74	PASS
		Ant1	2310.0	-53.39	2.0	0	43.84	AV	54	PASS
		Ant1	2390.0	-42.34	2.0	0	54.89	PEAK	74	PASS
		Ant1	2390.0	-52.98	2.0	0	44.25	AV	54	PASS
	2480	Ant1	2483.5	-39.79	2.0	0	57.44	PEAK	74	PASS
		Ant1	2483.5	-51.81	2.0	0	45.42	AV	54	PASS
		Ant1	2500.0	-41.29	2.0	0	55.94	PEAK	74	PASS
		Ant1	2500.0	-52.38	2.0	0	44.85	AV	54	PASS

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	-42.97	2.0	0	54.26	PEAK	74	PASS
		Ant1	2310.0	-53.40	2.0	0	43.83	AV	54	PASS
		Ant1	2390.0	-40.33	2.0	0	56.90	PEAK	74	PASS
		Ant1	2390.0	-53.00	2.0	0	44.23	AV	54	PASS
	2480	Ant1	2483.5	-40.24	2.0	0	56.99	PEAK	74	PASS
		Ant1	2483.5	-51.05	2.0	0	46.18	AV	54	PASS
		Ant1	2500.0	-43.50	2.0	0	53.73	PEAK	74	PASS
		Ant1	2500.0	-52.39	2.0	0	44.84	AV	54	PASS

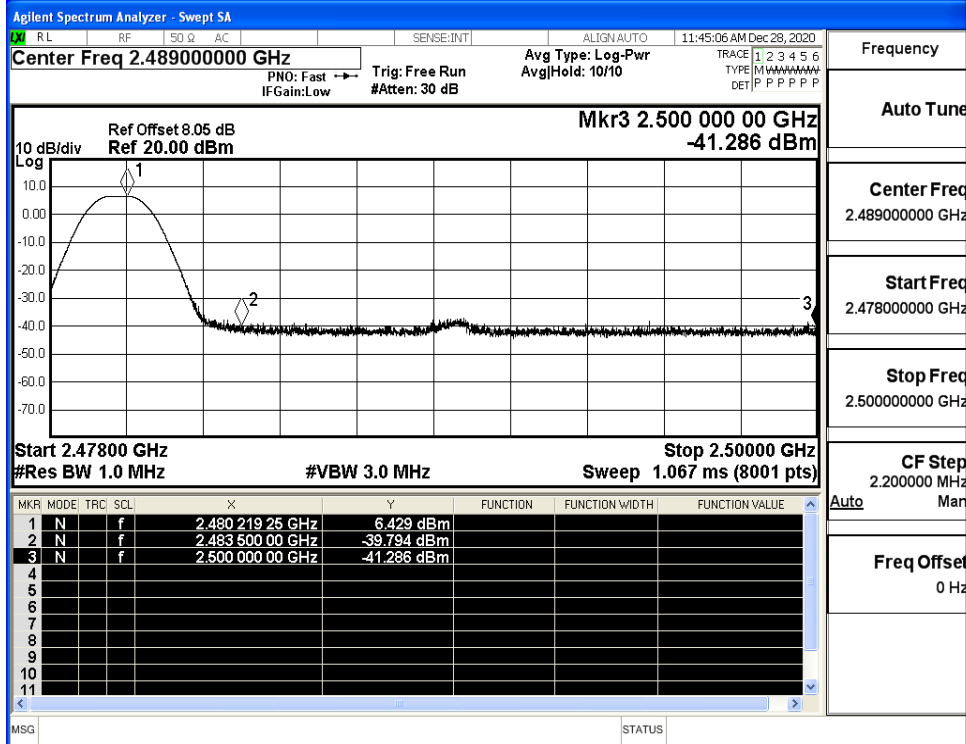
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



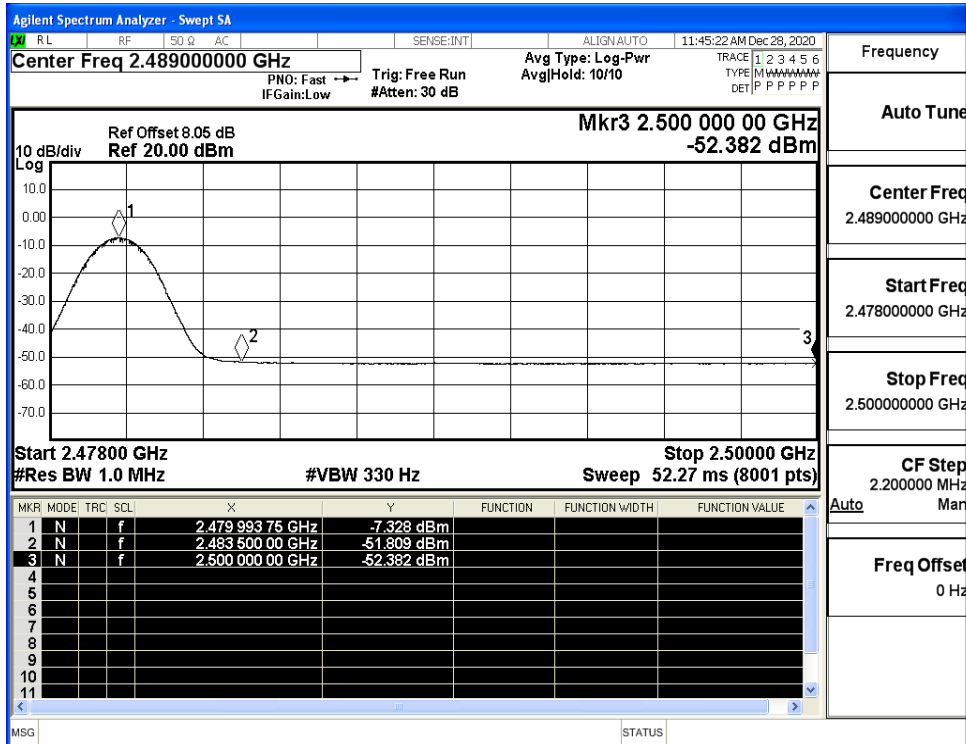
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



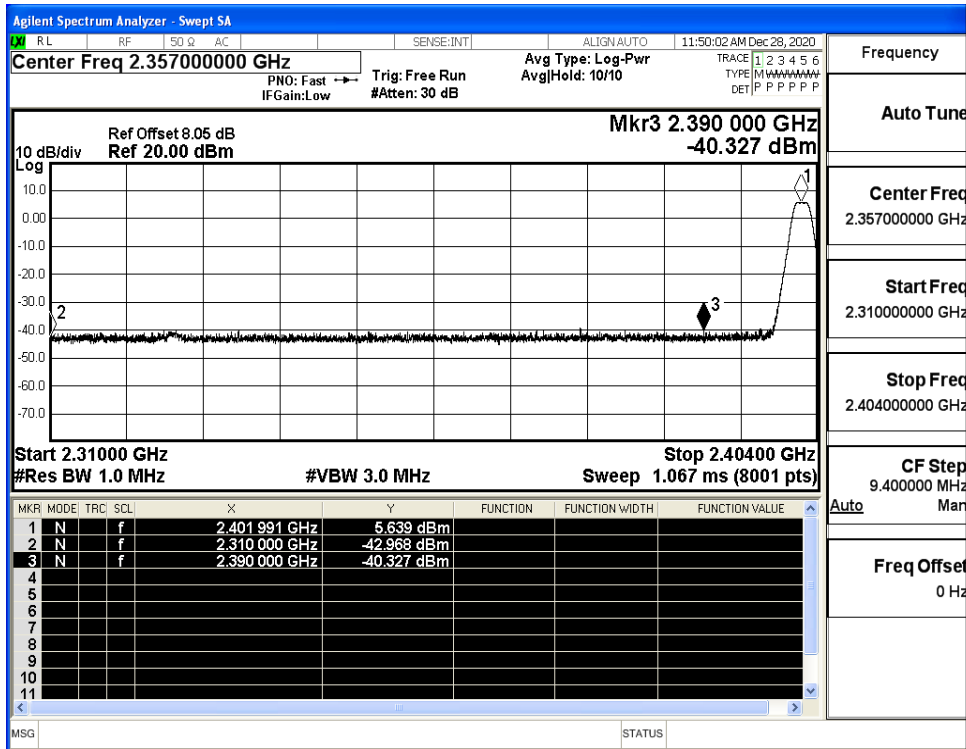
Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



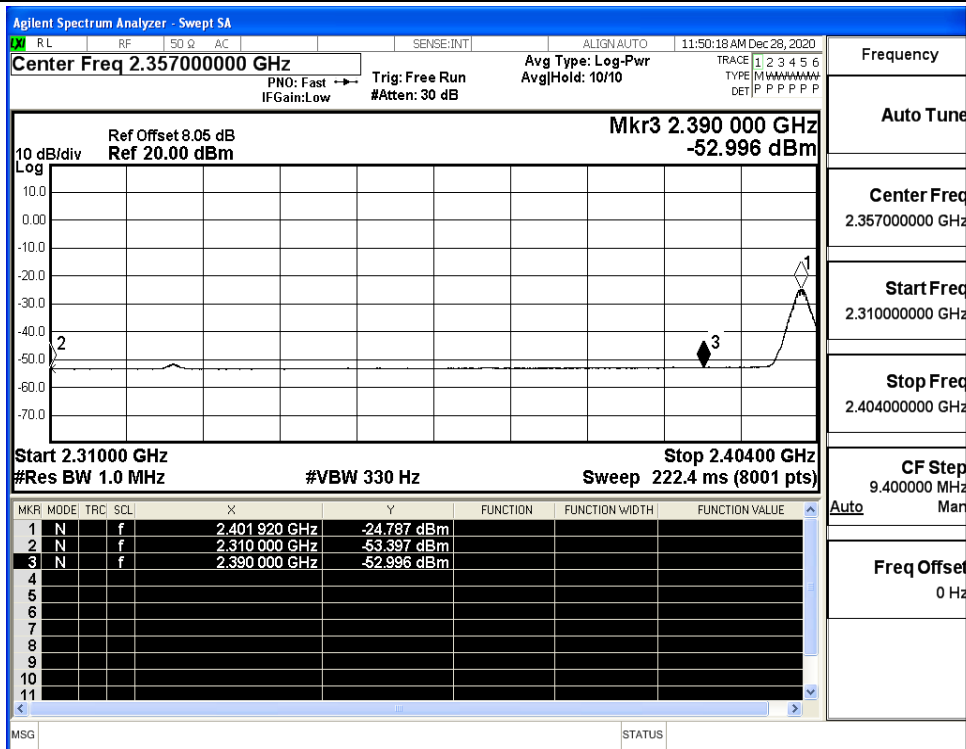
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



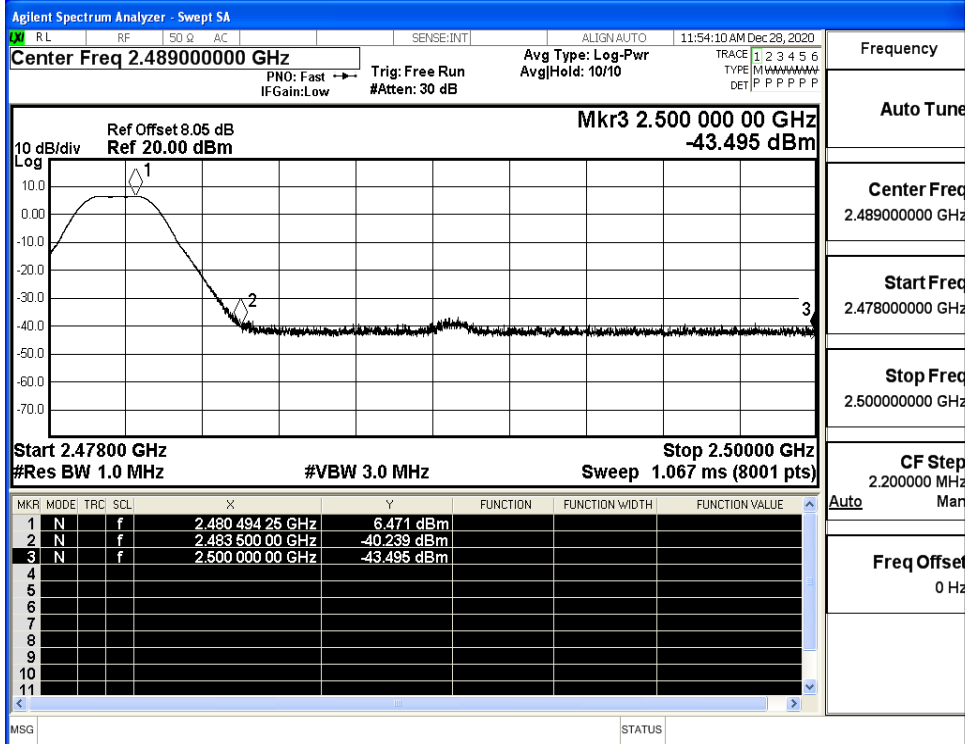
Restrict-band band-edge measurements_BT 2LE_2402_Ant1_PEAK



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

