

Appendix B

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

Product Name: 13.3 notebook

Trade Mark: N/A

Test Model: HTLB131NA58Z1EG

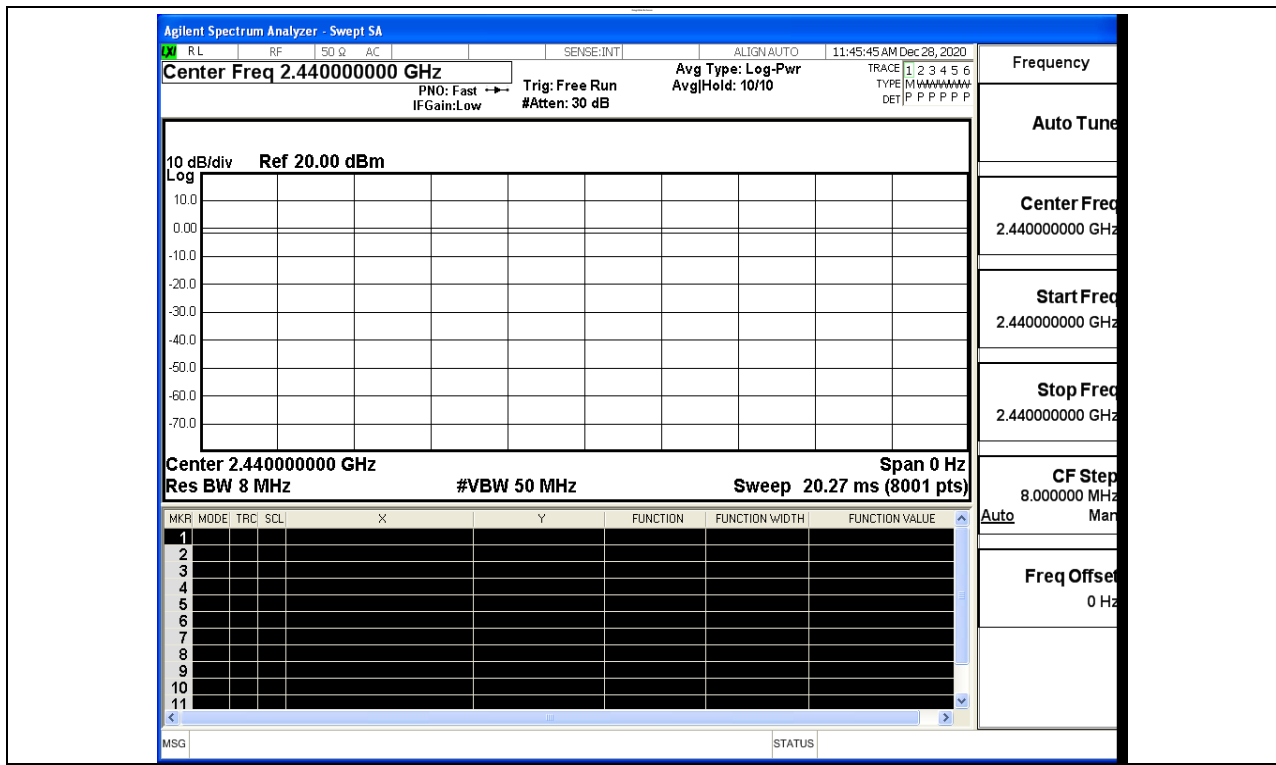
Environmental Conditions

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

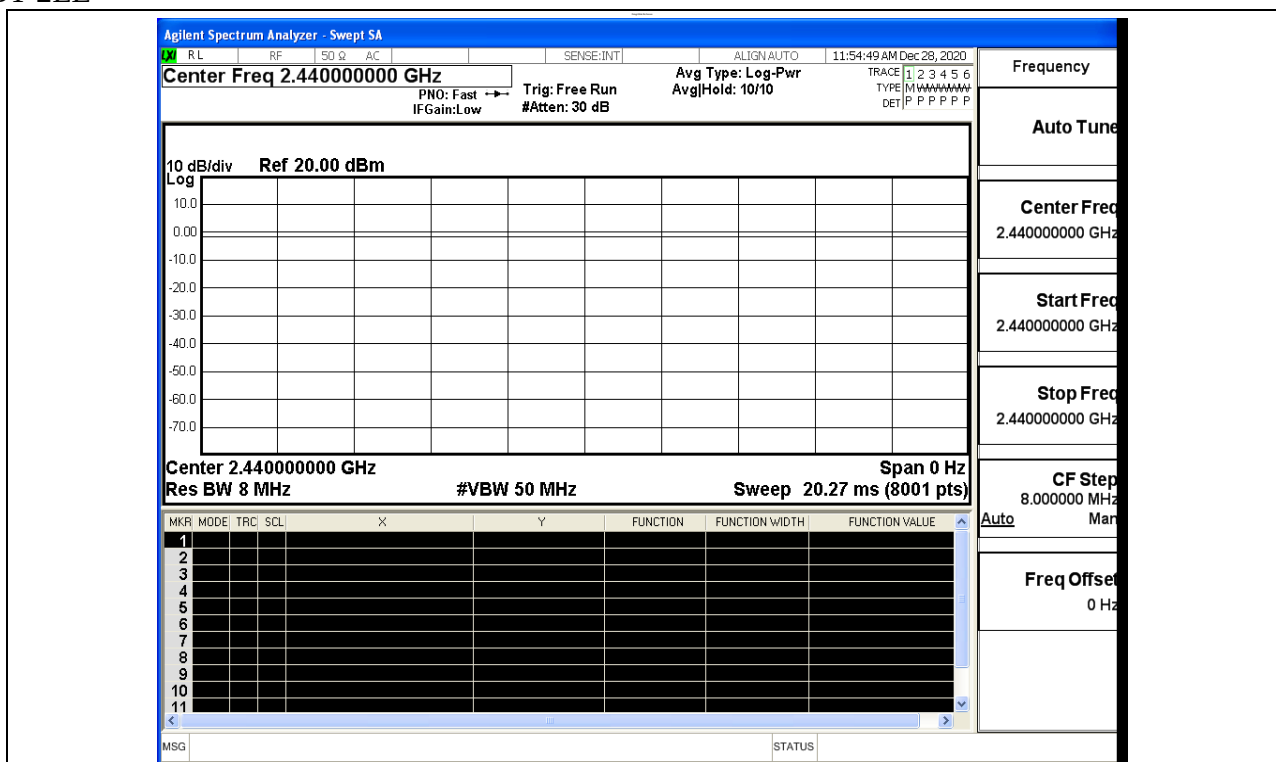
B.1 Duty Cycle

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

BT LE



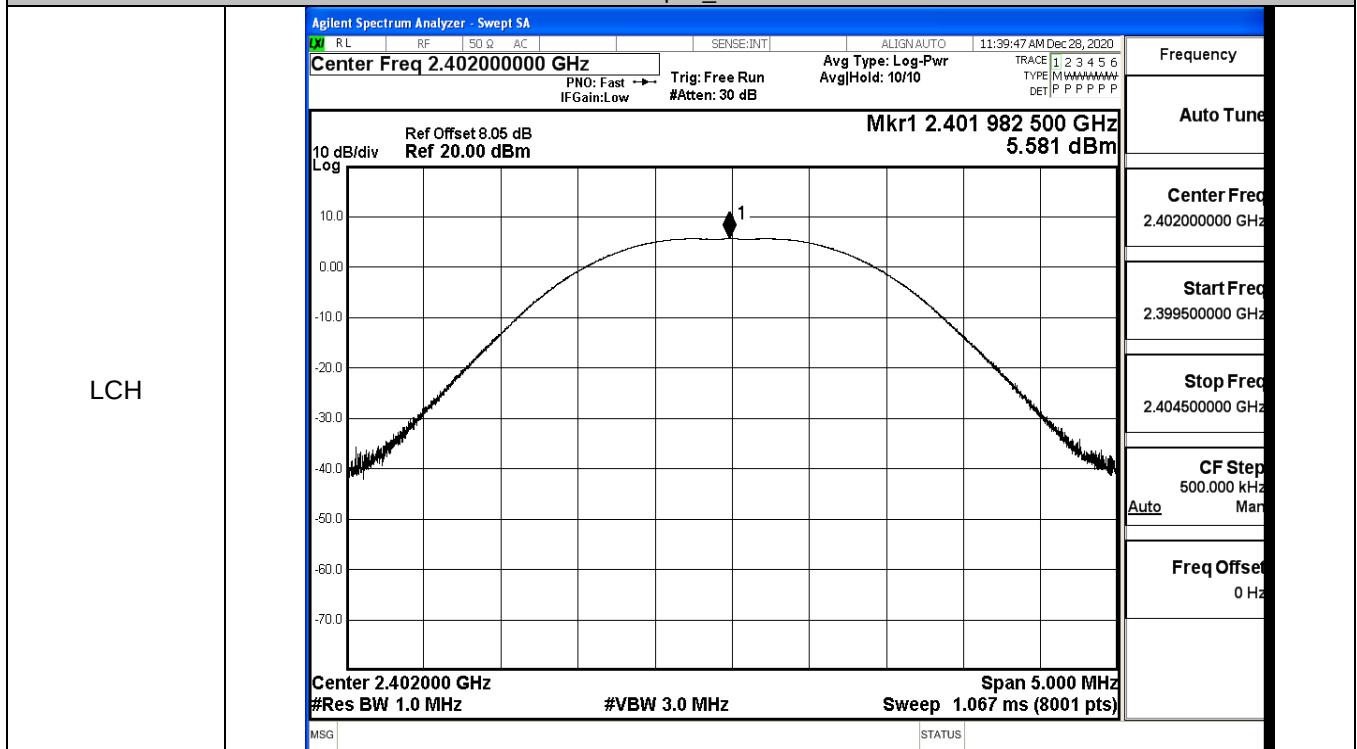
BT 2LE



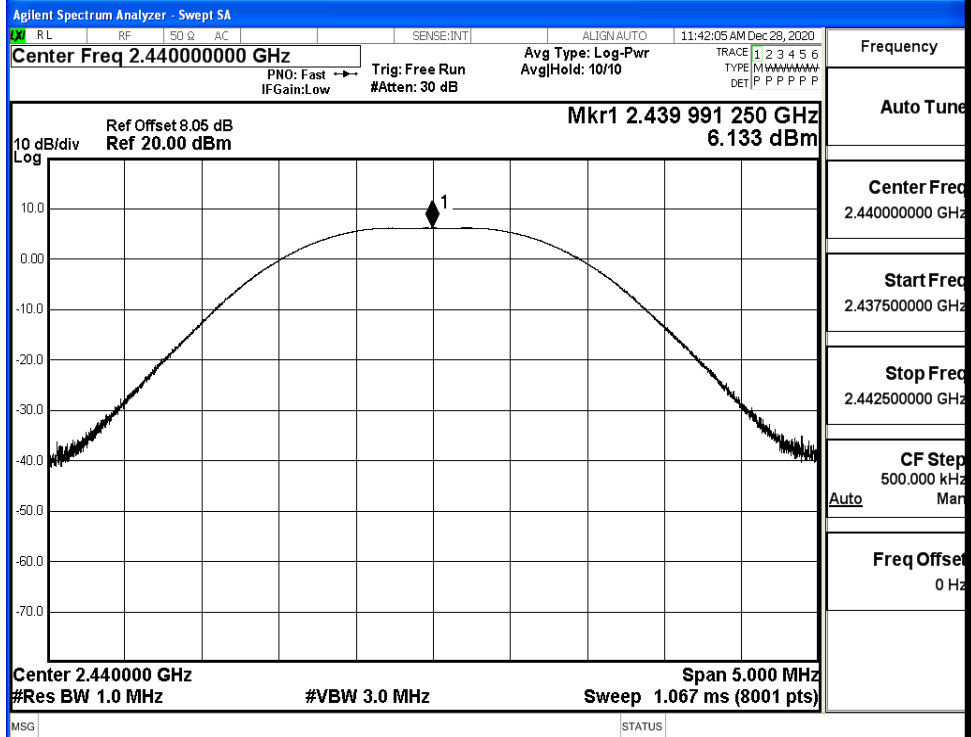
B.2 Maximum Conducted Peak Output Power

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

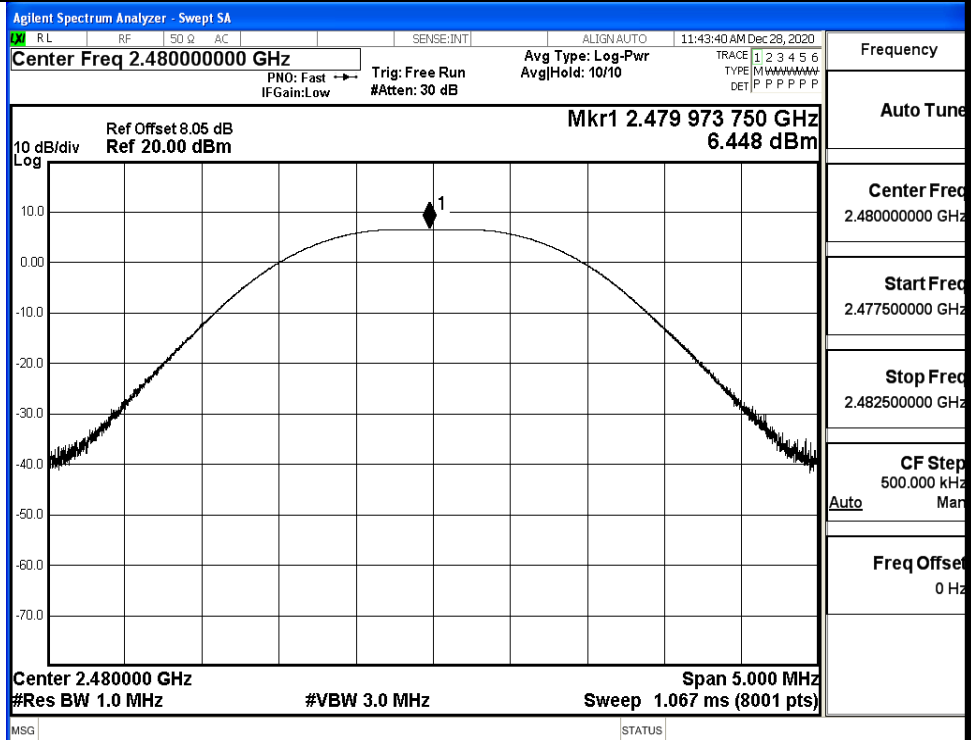
Test Graphs_ BT LE



MCH

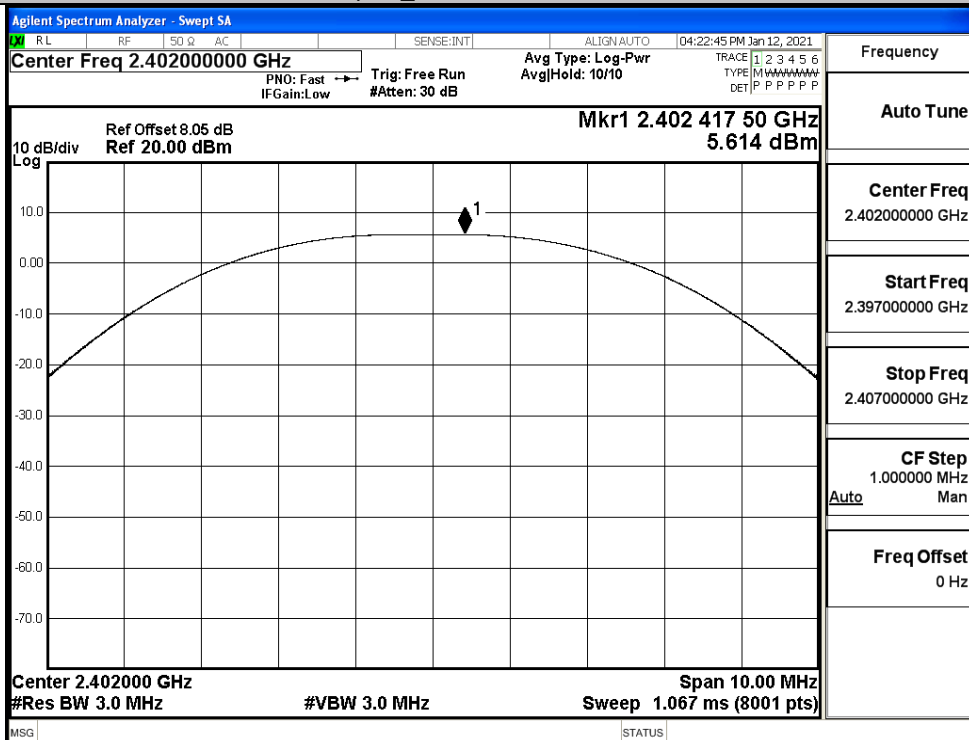


HCH

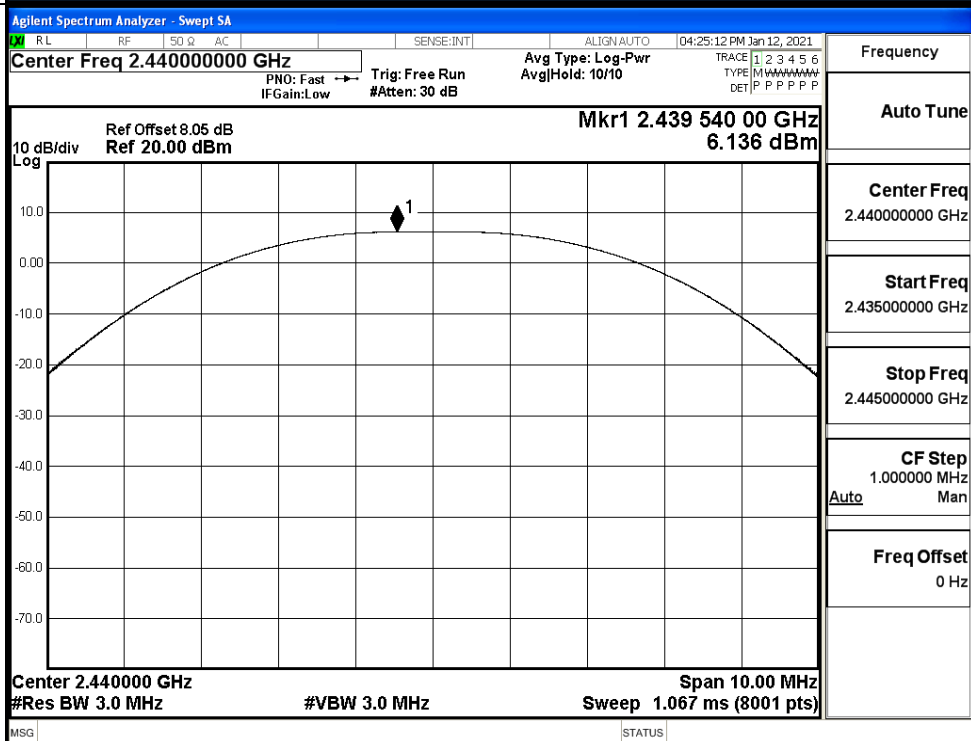


Test Graphs _ BT 2LE

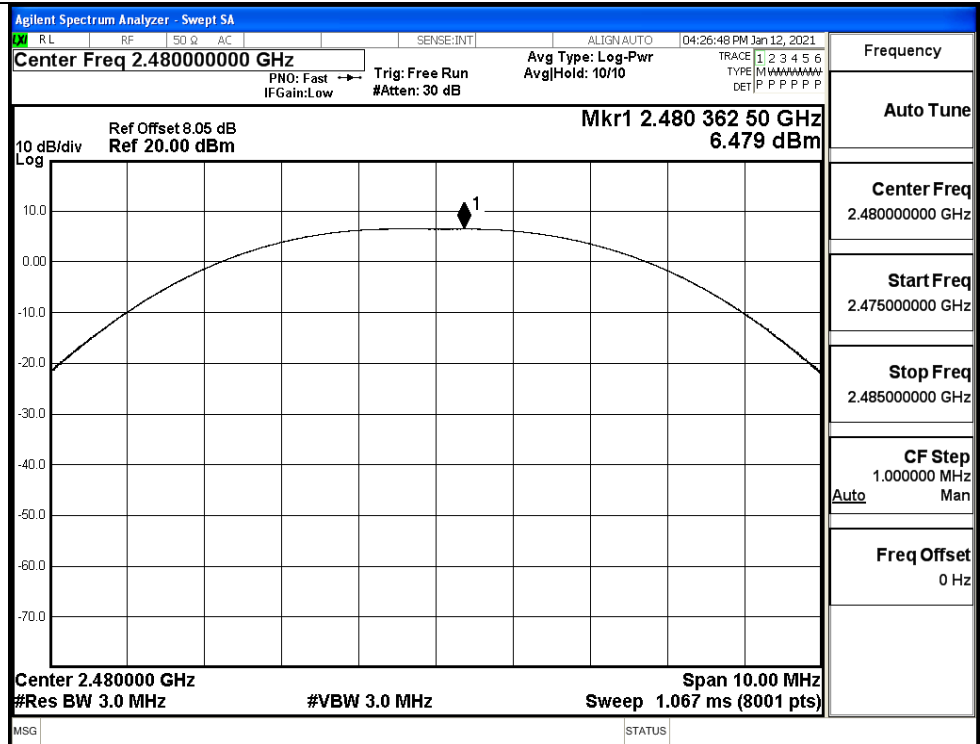
LCH



MCH



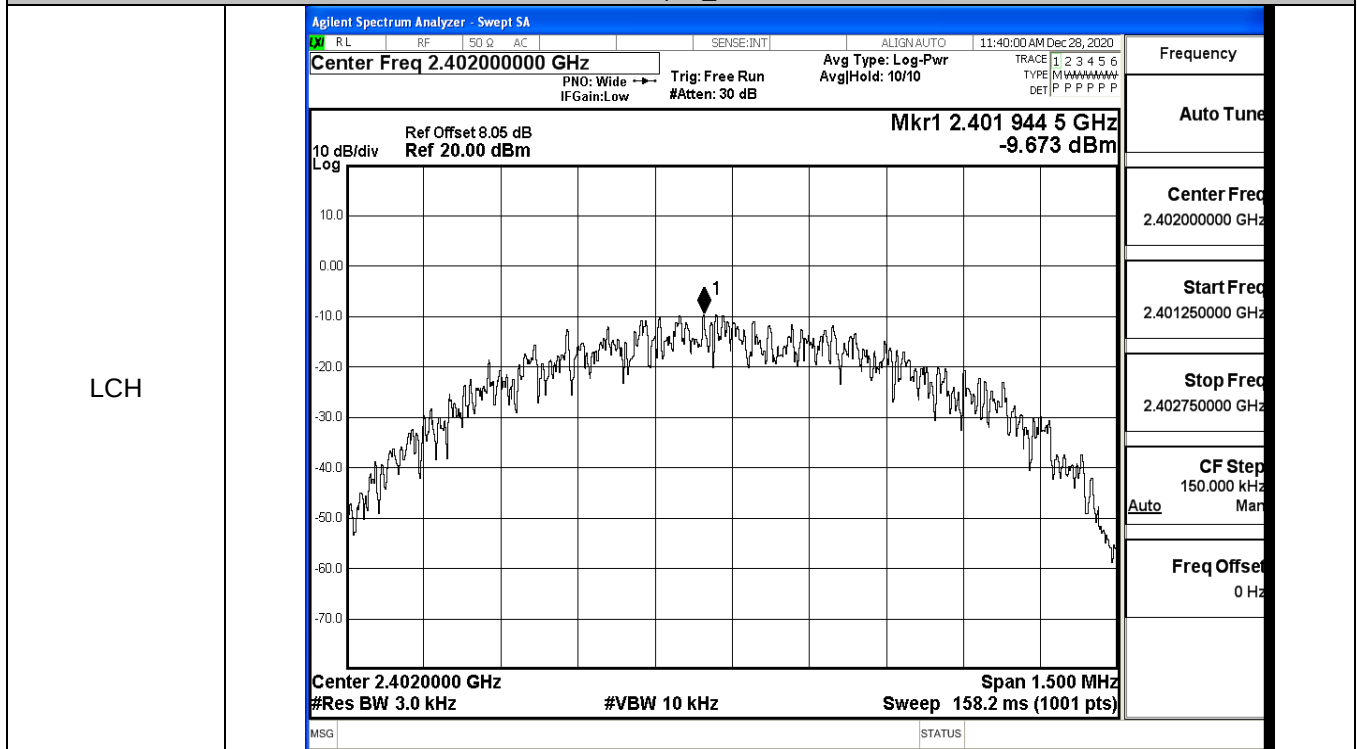
HCH



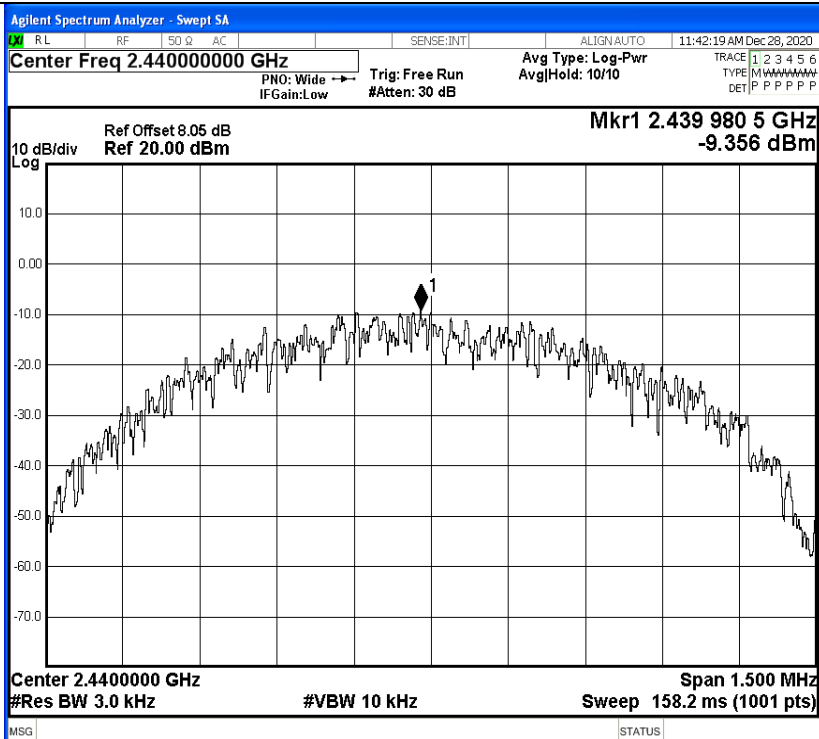
B.3 Maximum Power Spectral Density

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

Test Graphs_ BT LE



MCH

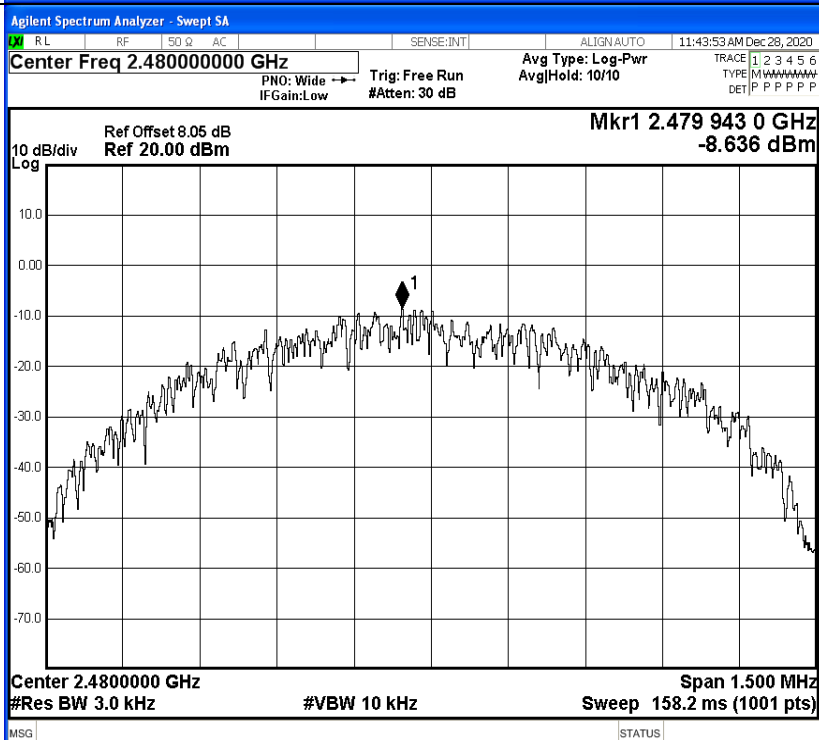


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH



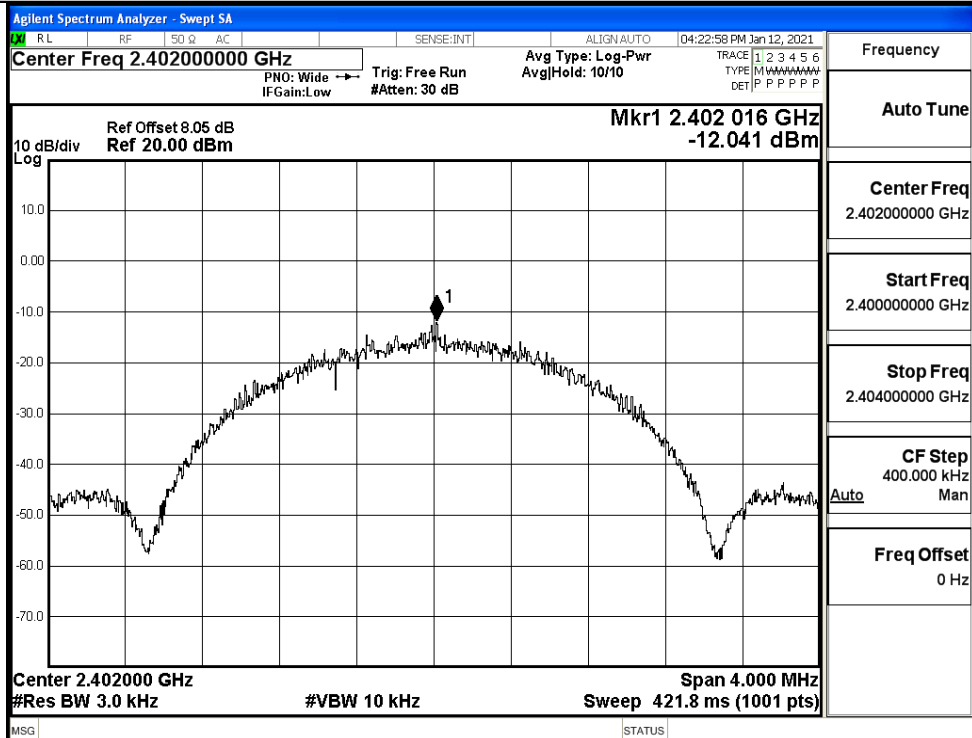
Frequency

Auto Tune

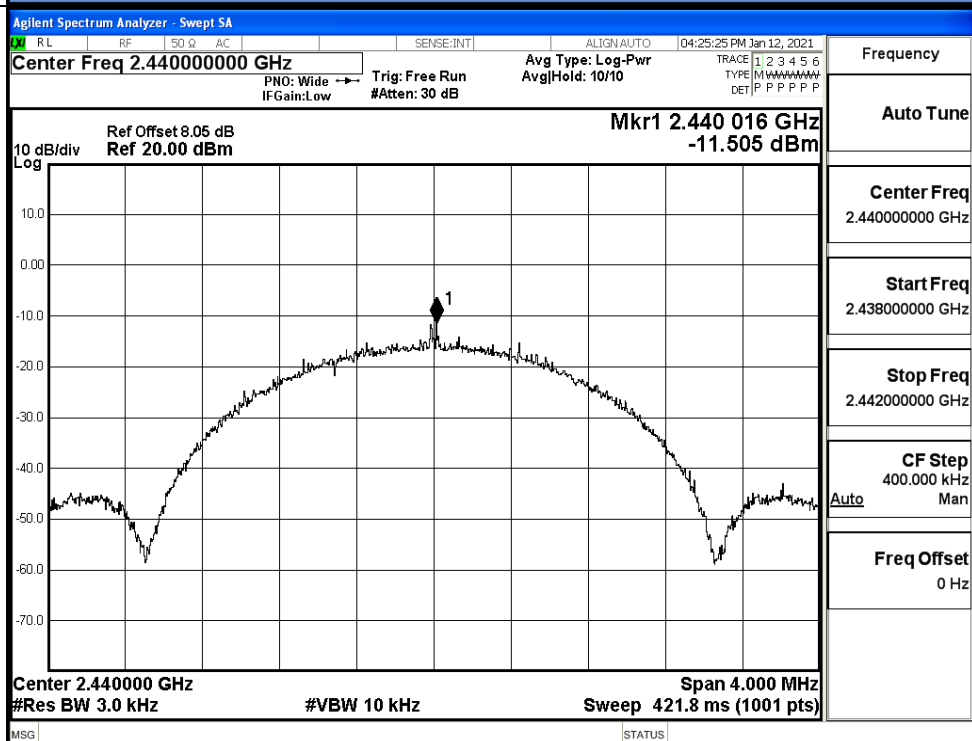
Center Freq
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2.479250000 GHzStop Freq
2.480750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

Test Graphs _ BT 2LE

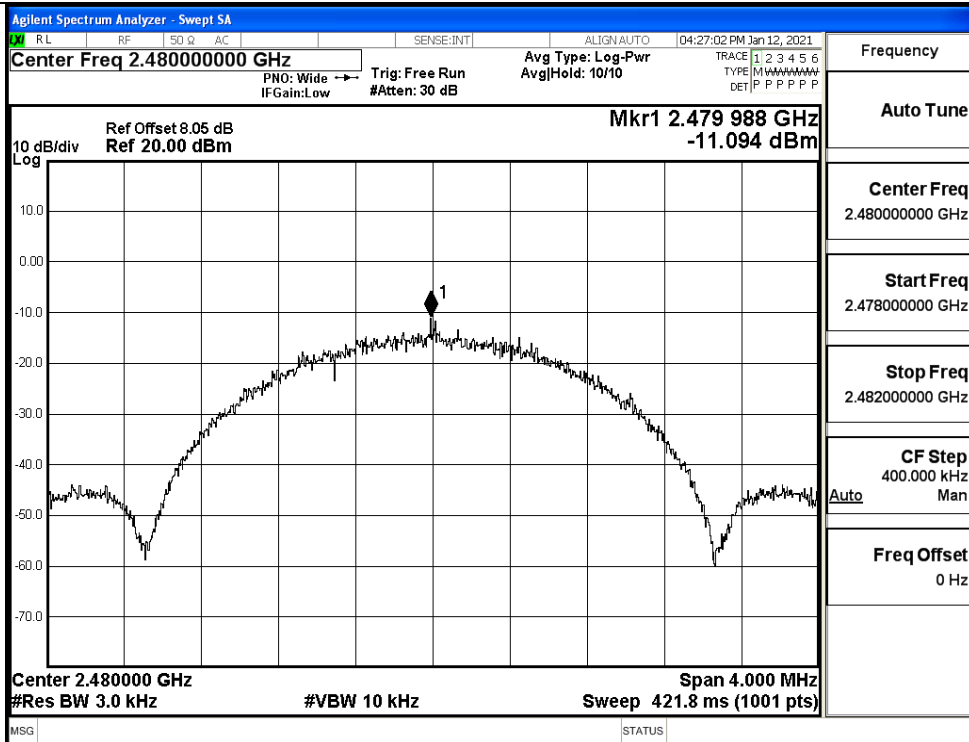
LCH



MCH



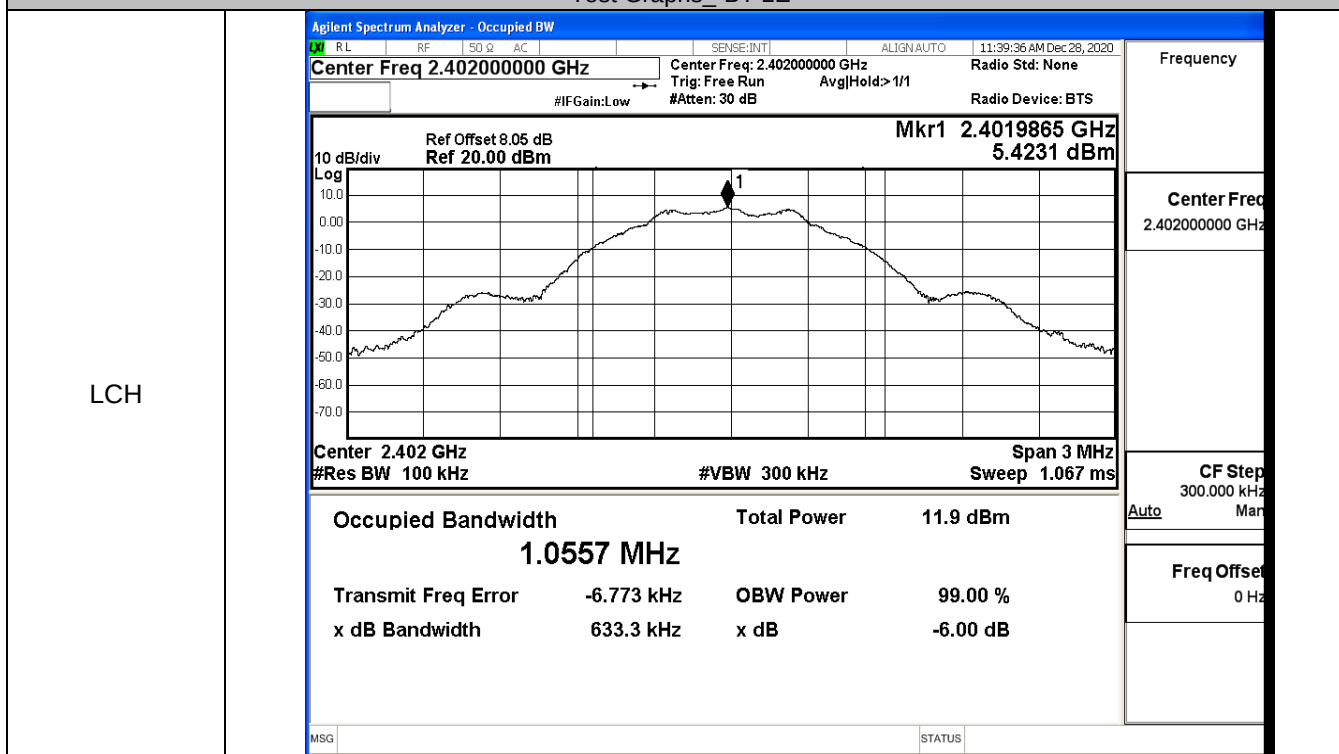
HCH



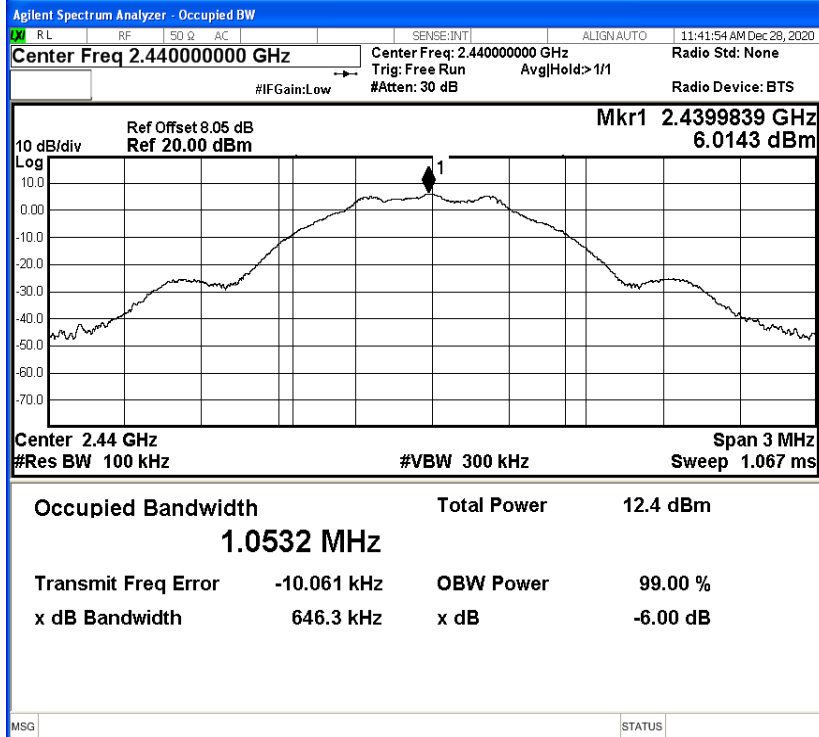
B.4 6dB Bandwidth

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

Test Graphs_ BT LE



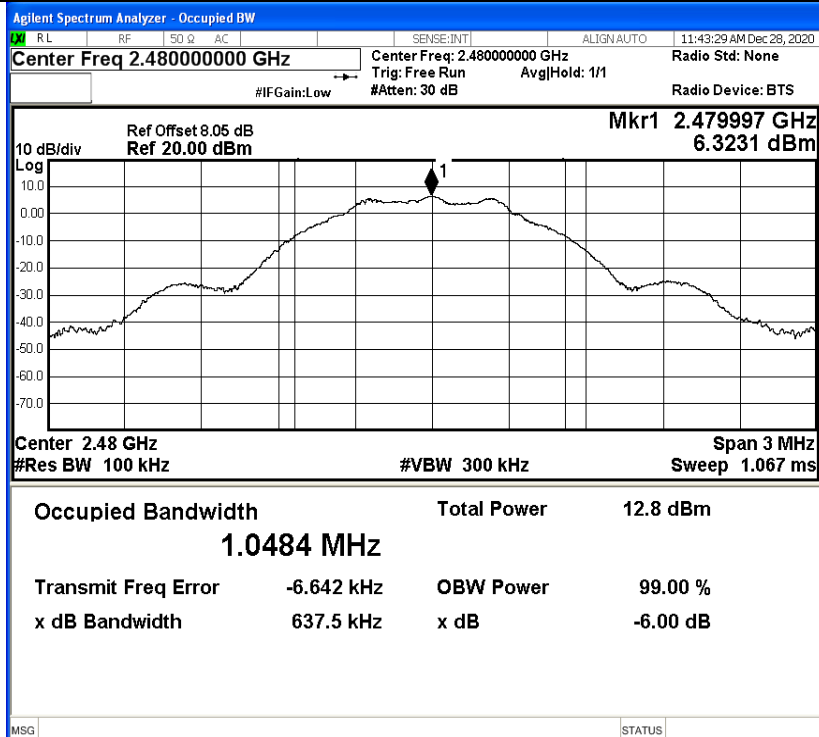
MCH



Frequency

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

HCH

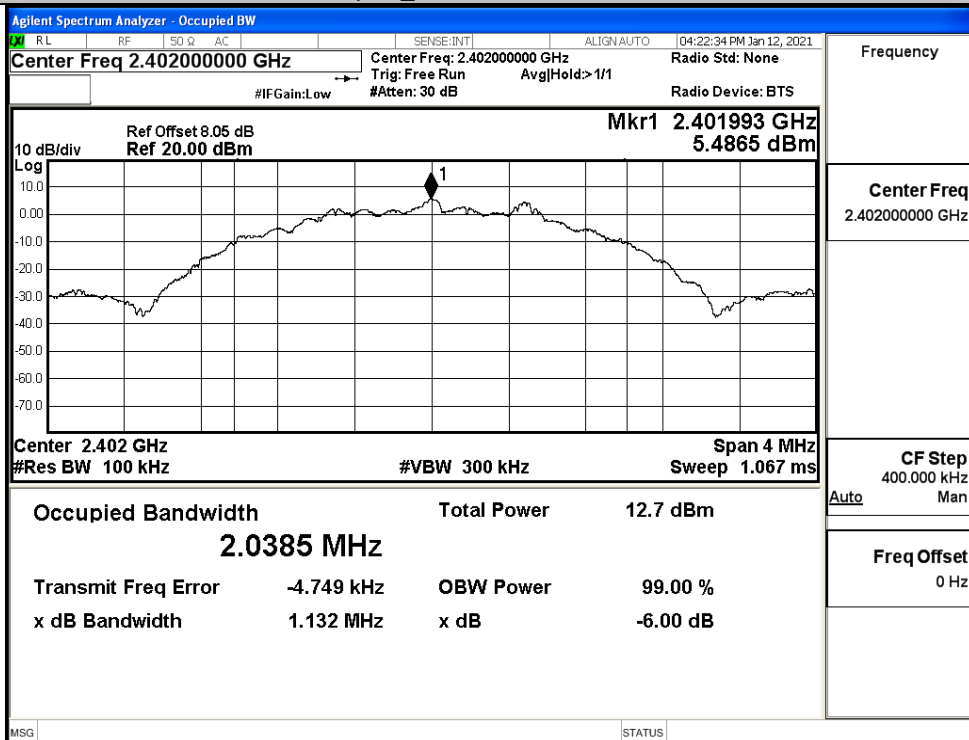


Frequency

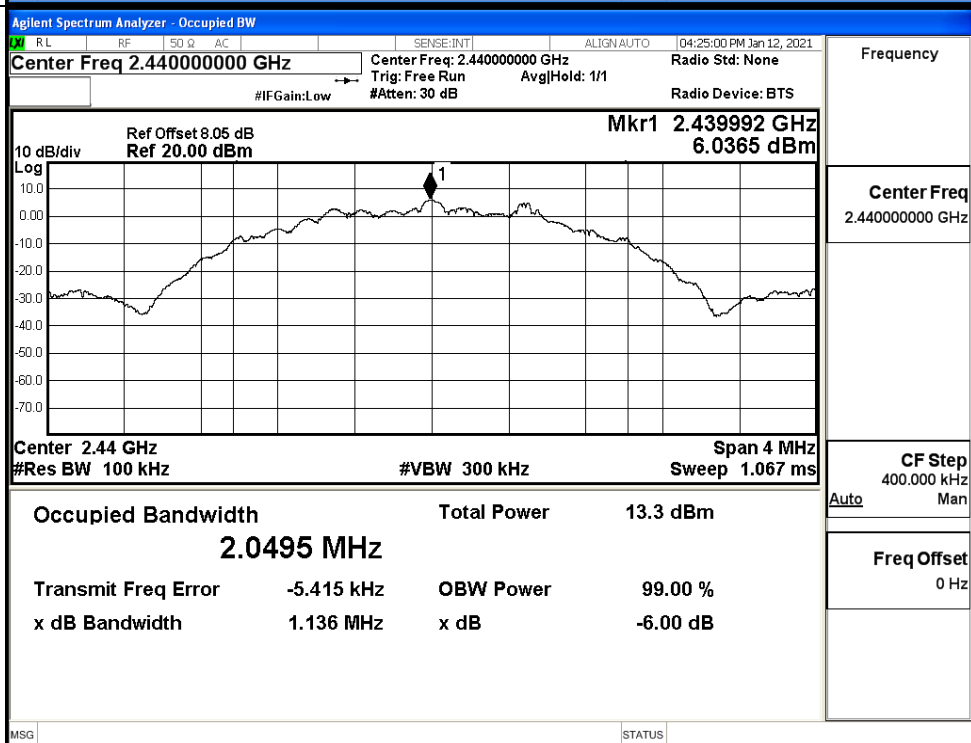
Center Freq
2.480000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

Test Graphs _ BT 2LE

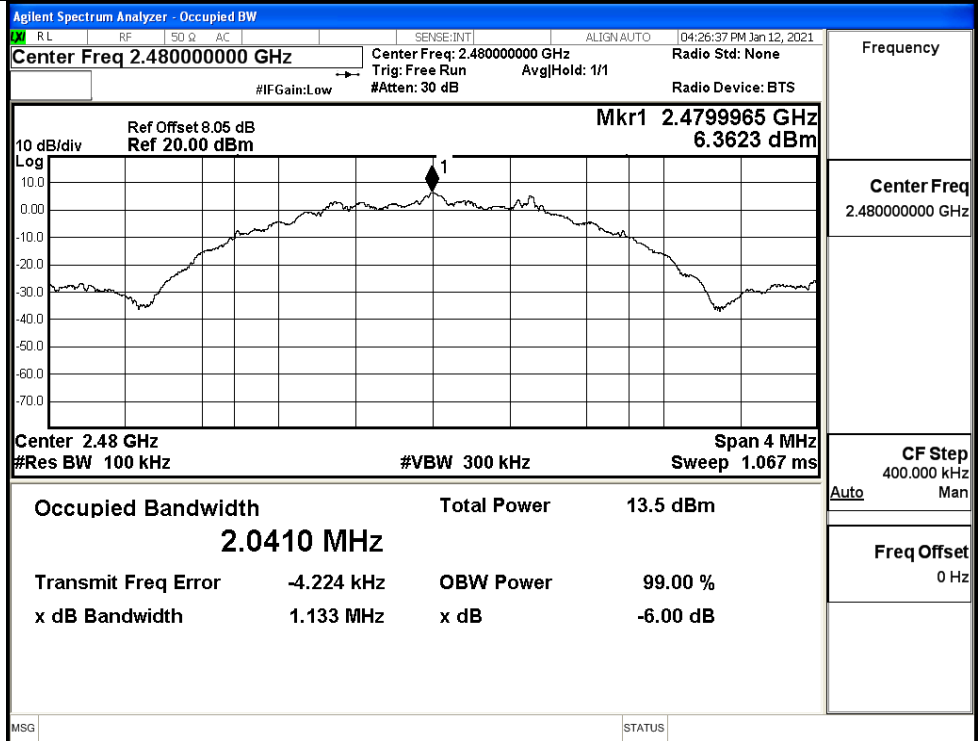
LCH



MCH



HCH

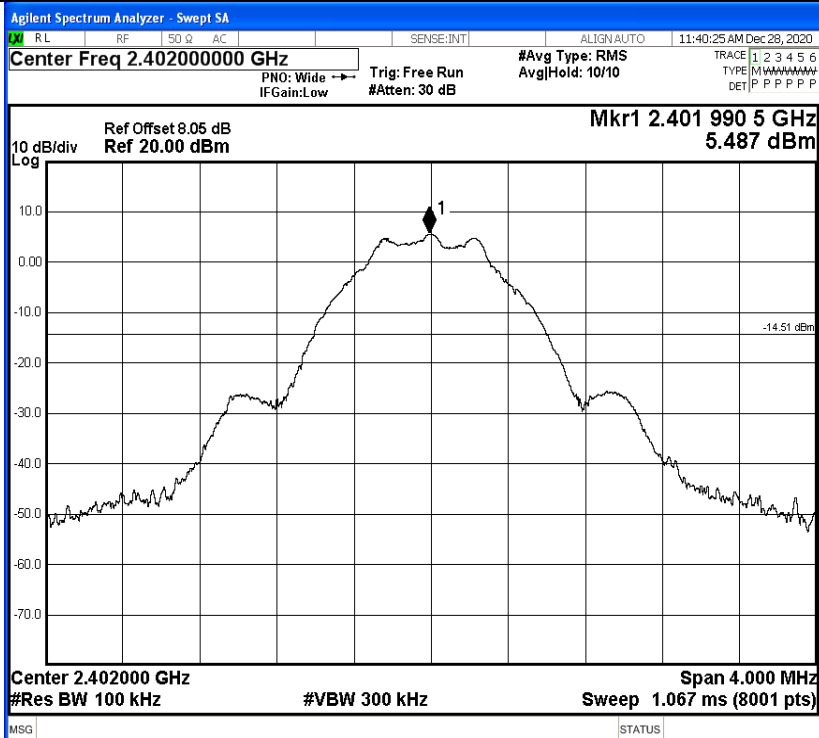


B.5 RF Conducted Spurious Emissions

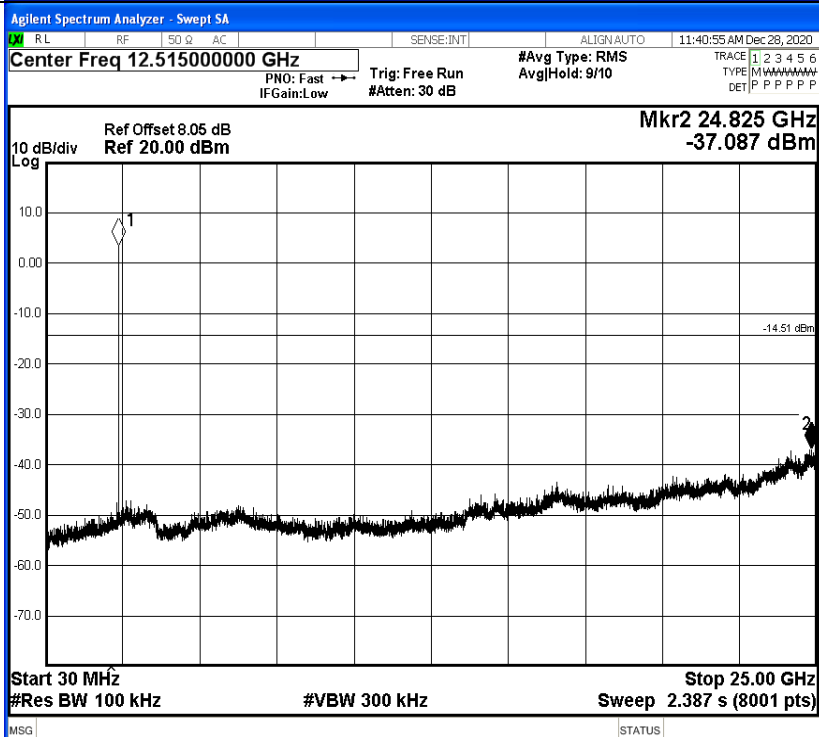
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.487	-37.087	-14.513	PASS
BT LE	MCH	6.063	-37.457	-13.937	PASS
BT LE	HCH	6.381	-35.763	-13.619	PASS
BT 2LE	LCH	5.585	-37.910	-14.415	PASS
BT 2LE	MCH	6.145	-37.348	-13.855	PASS
BT 2LE	HCH	6.377	-37.086	-13.623	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

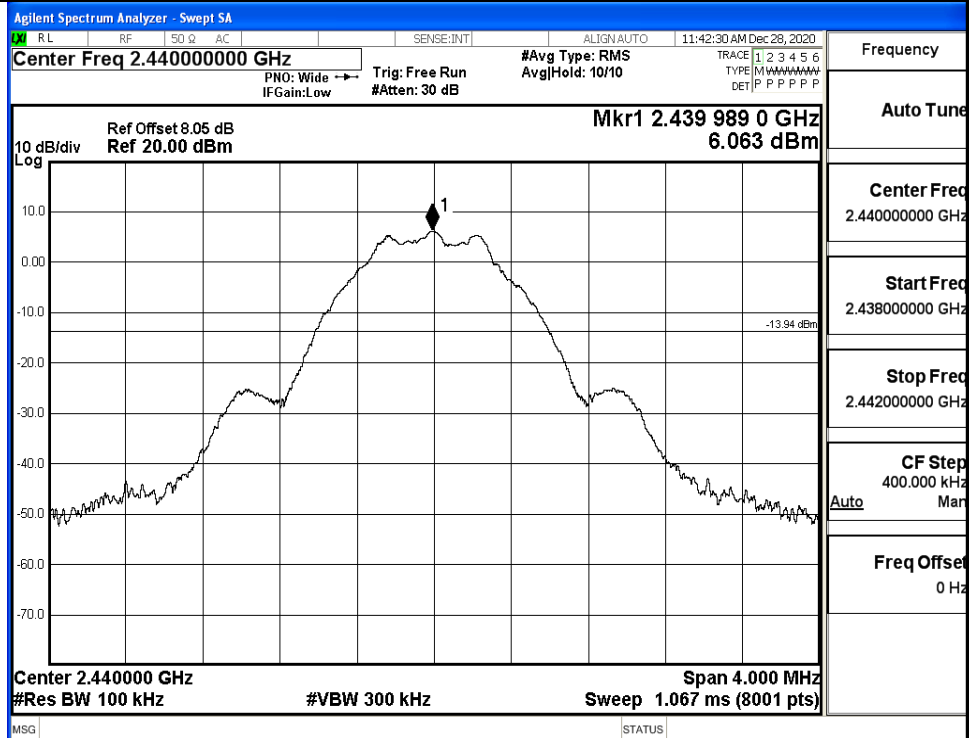


Puw/BT LE/LCH

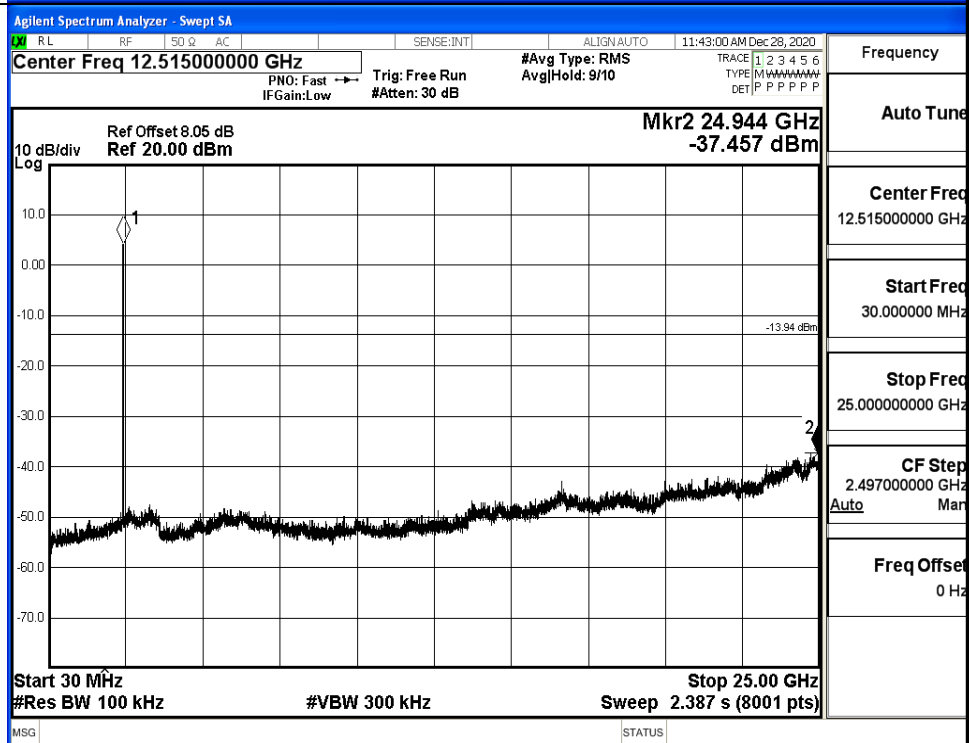


BT LE_MCH_Graphs

Pref/BT LE/MCH

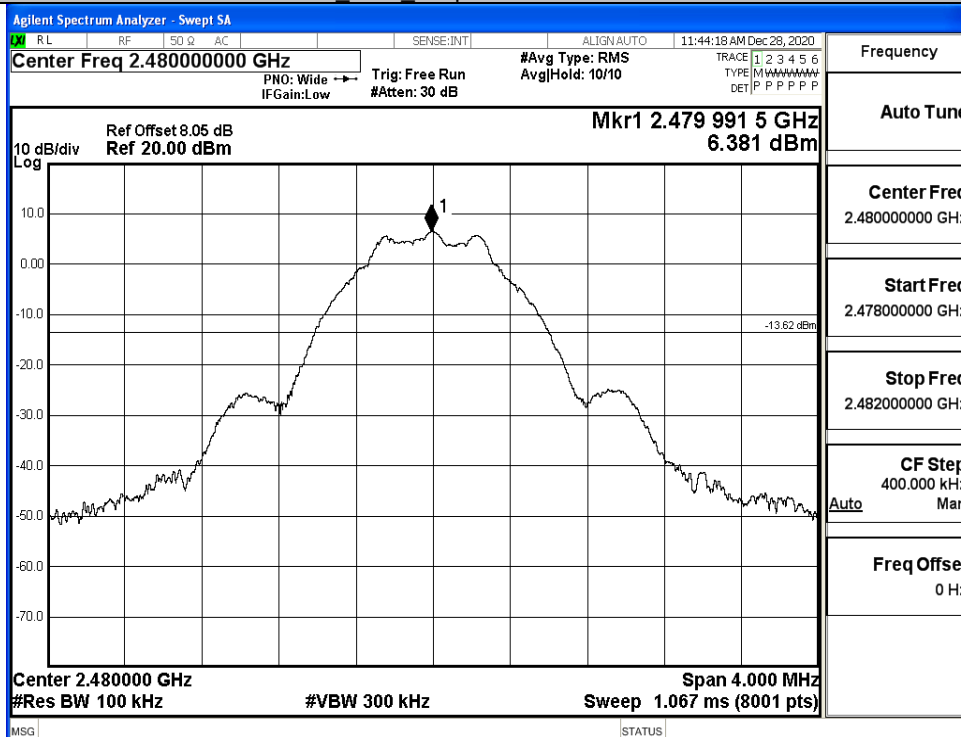


Puw/BT LE/MCH

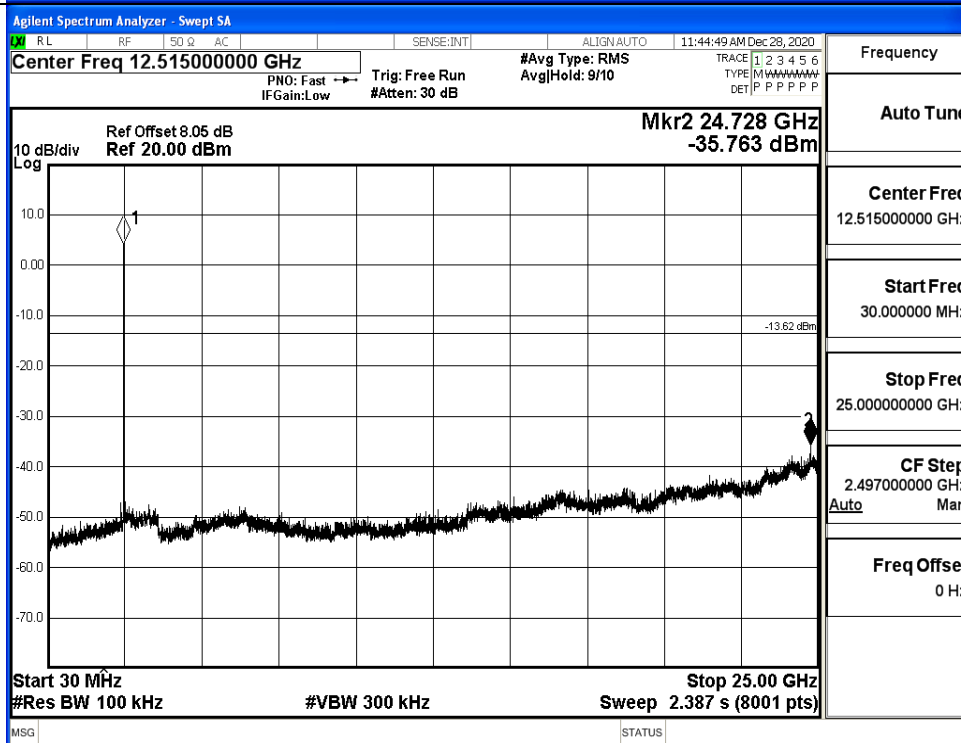


BT LE HCH Graphs

Pref/BT LE/HCH

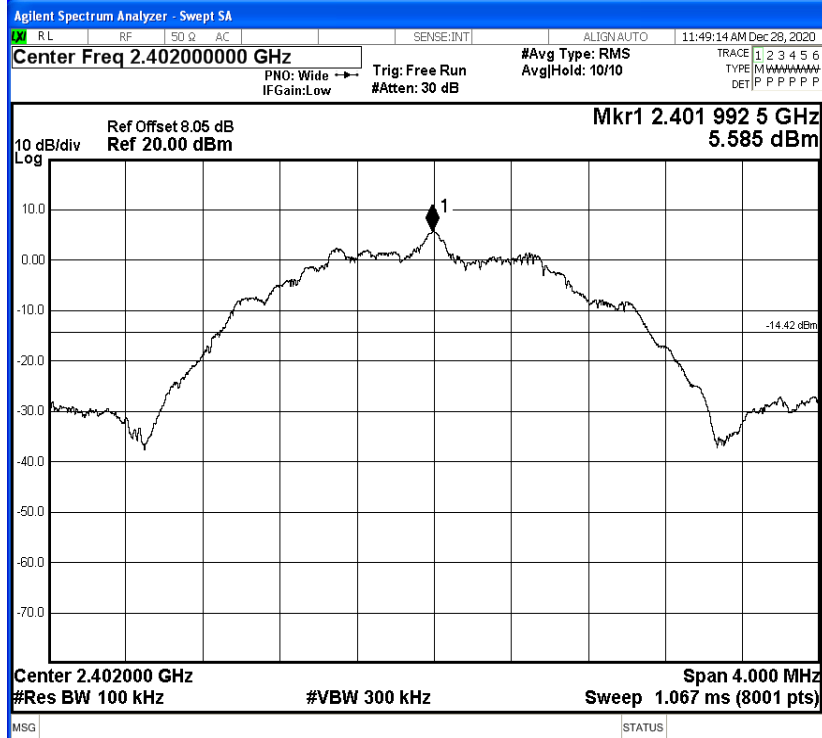


Puw/BT LE/HCH



BT 2LE_LCH_Graphs

Pref/BT 2LE/LCH

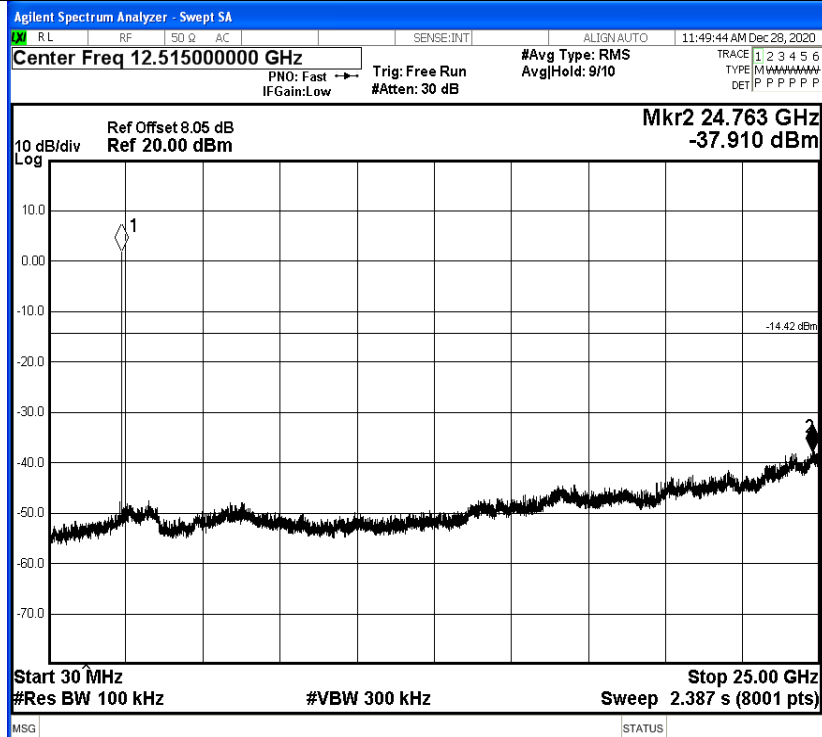


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.400000000 GHzStop Freq
2.404000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

Puw/BT 2LE/LCH

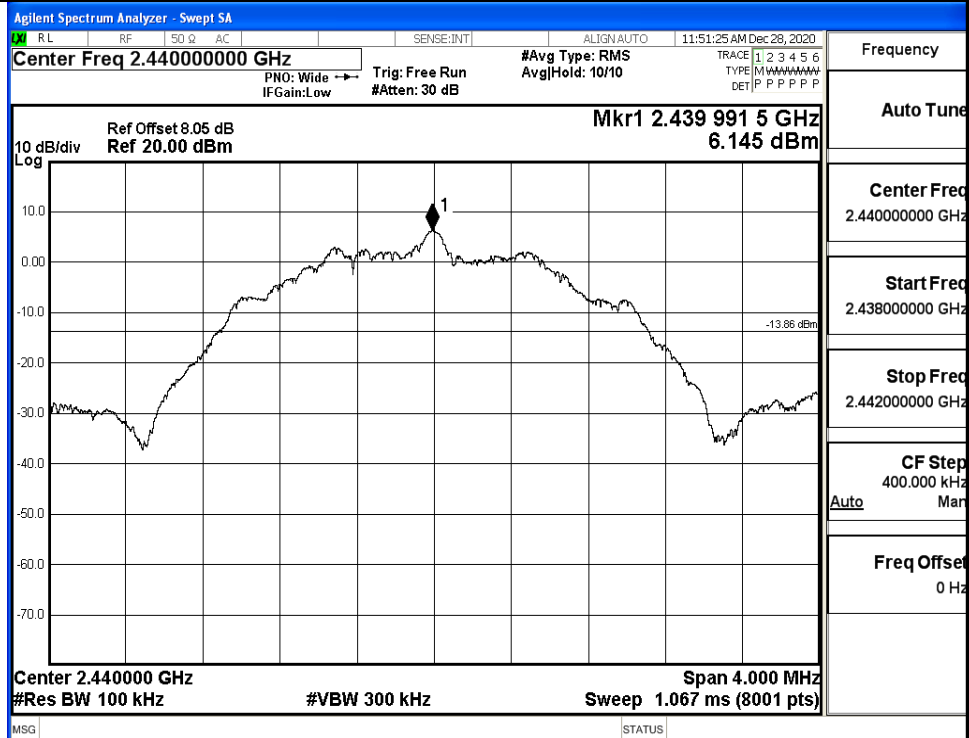
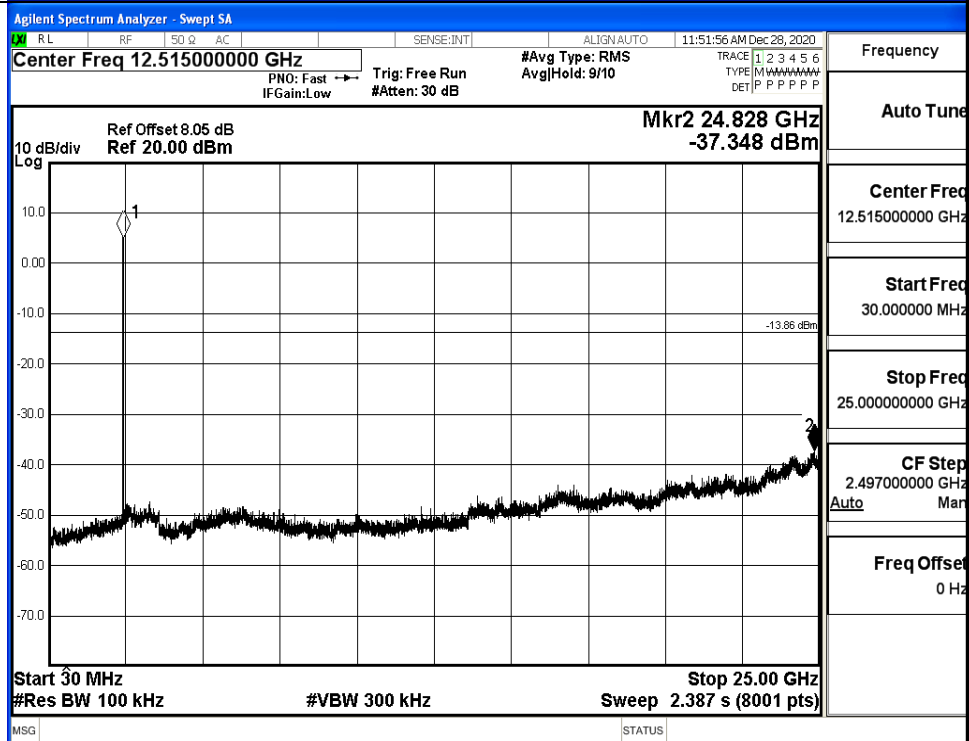


Frequency

Auto Tune

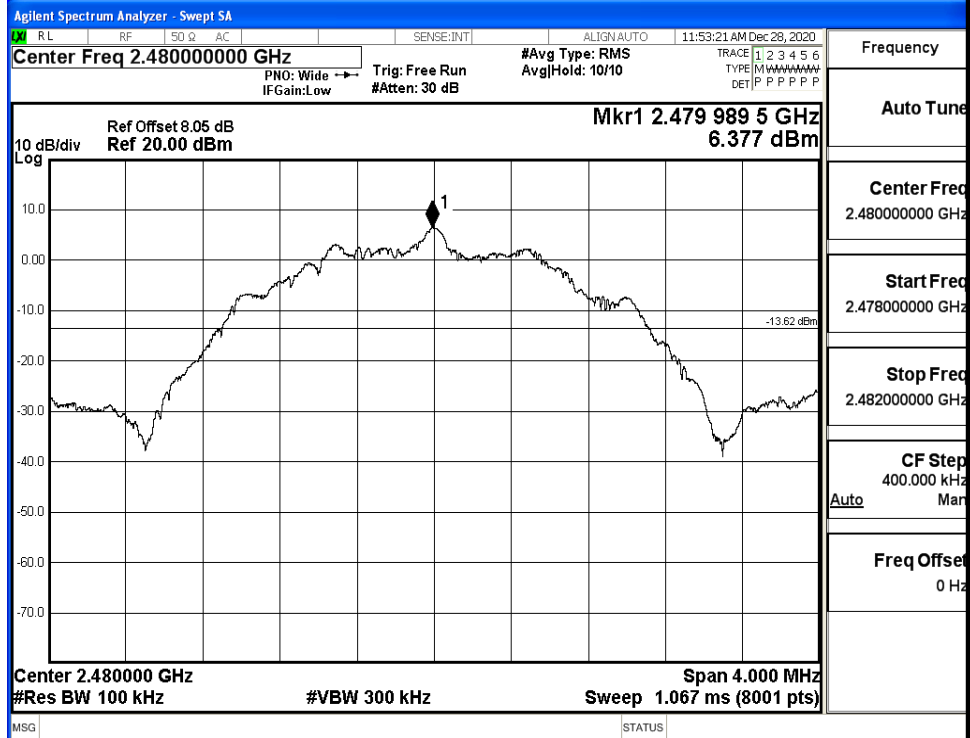
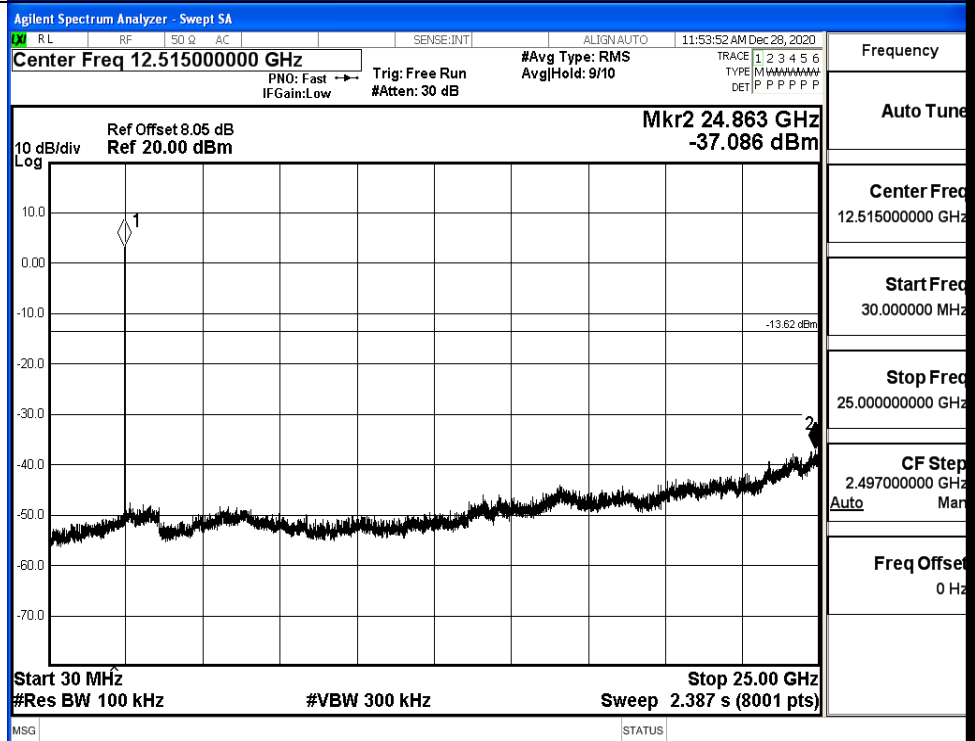
Center Freq
12.515000000 GHzStart Freq
30.000000 MHzStop Freq
25.000000000 GHzCF Step
2.497000000 GHz
Auto ManFreq Offset
0 Hz

BT 2LE_MCH_Graphs

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

BT 2LE_HCH_Graphs

Pref/BT 2LE/HCH

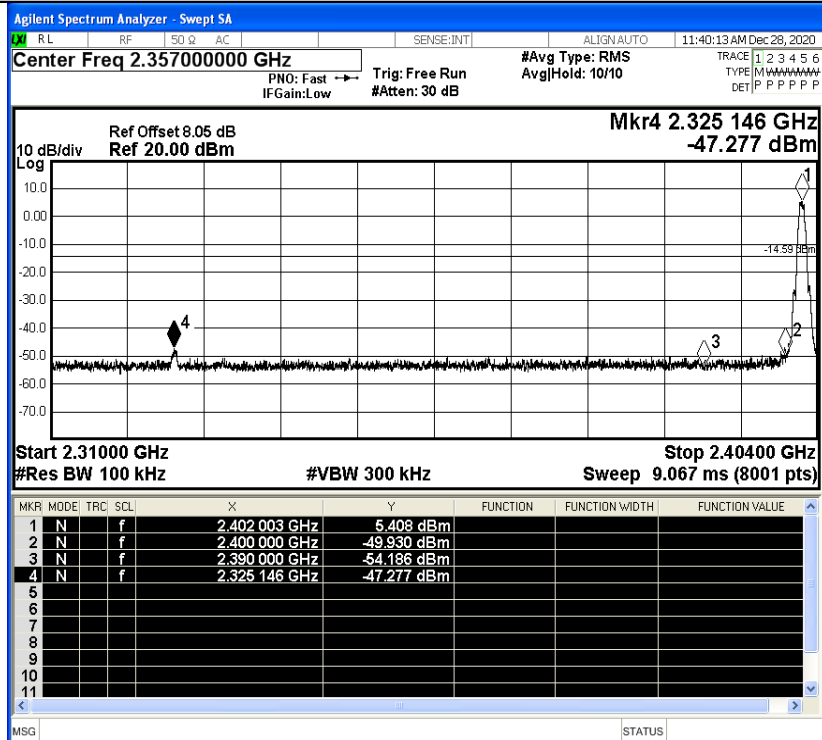
Puw/BT
2LE/HCH

B.6 Band-edge for RF Conducted Emissions

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



Frequency

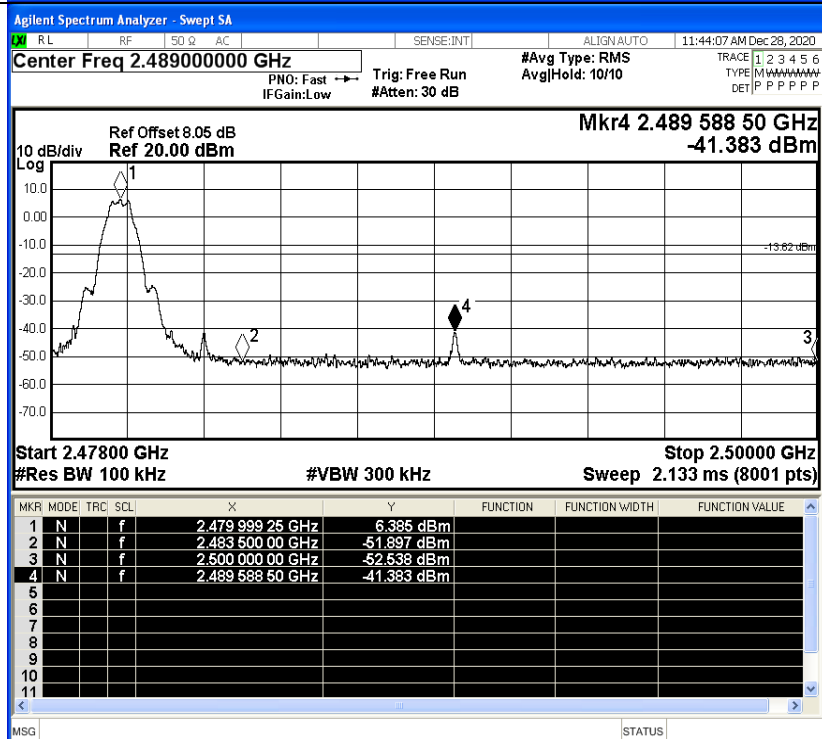
Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz

Auto Man

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

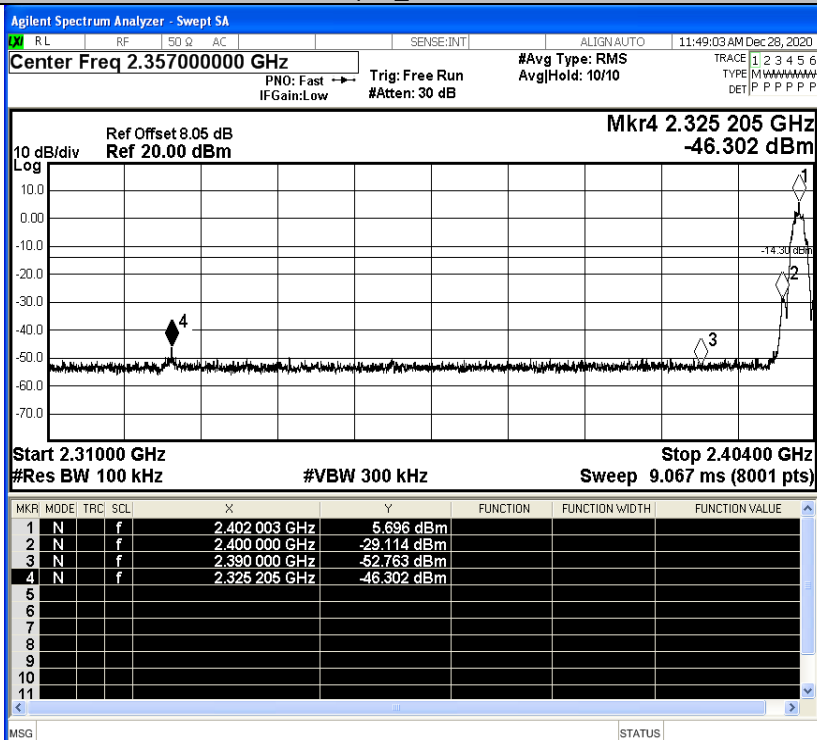
Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz

Auto Man

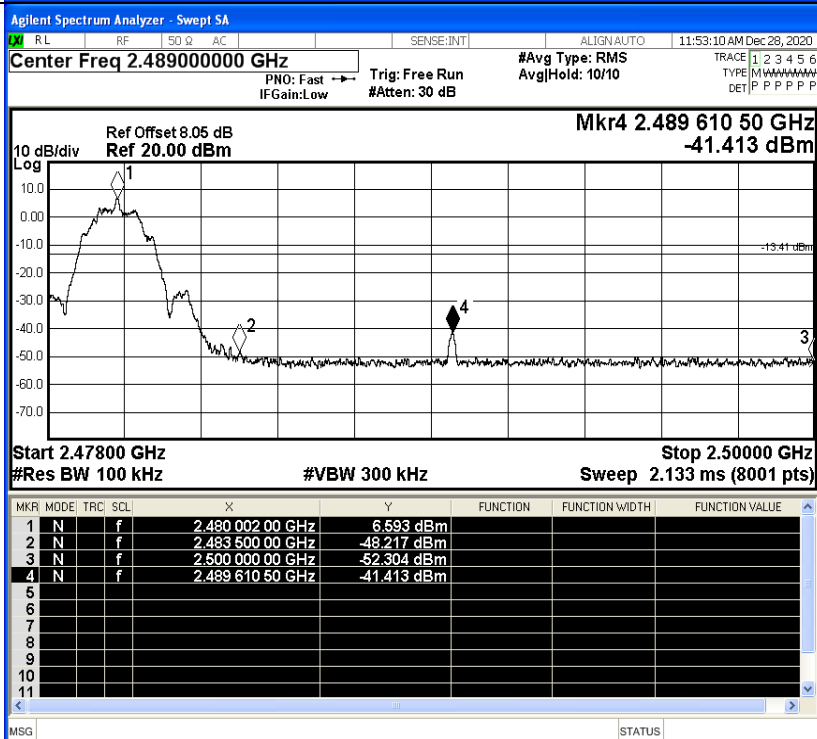
Freq Offset
0 Hz

Test Graphs_ BT 2LE

LCH



HCH

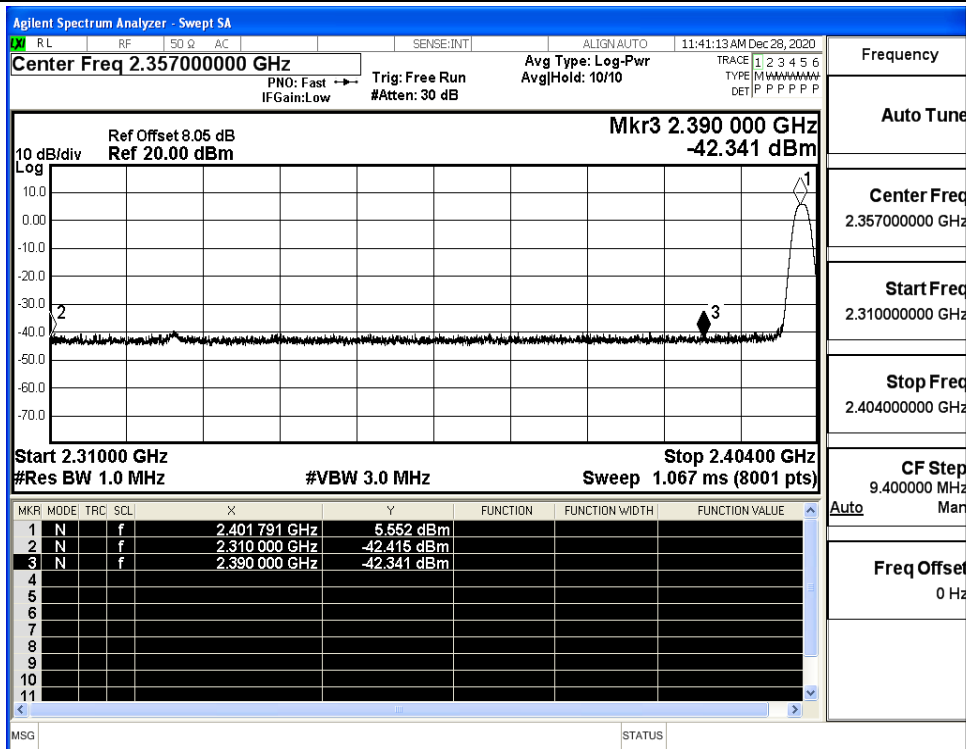


B.7 Restrict-band band-edge measurements

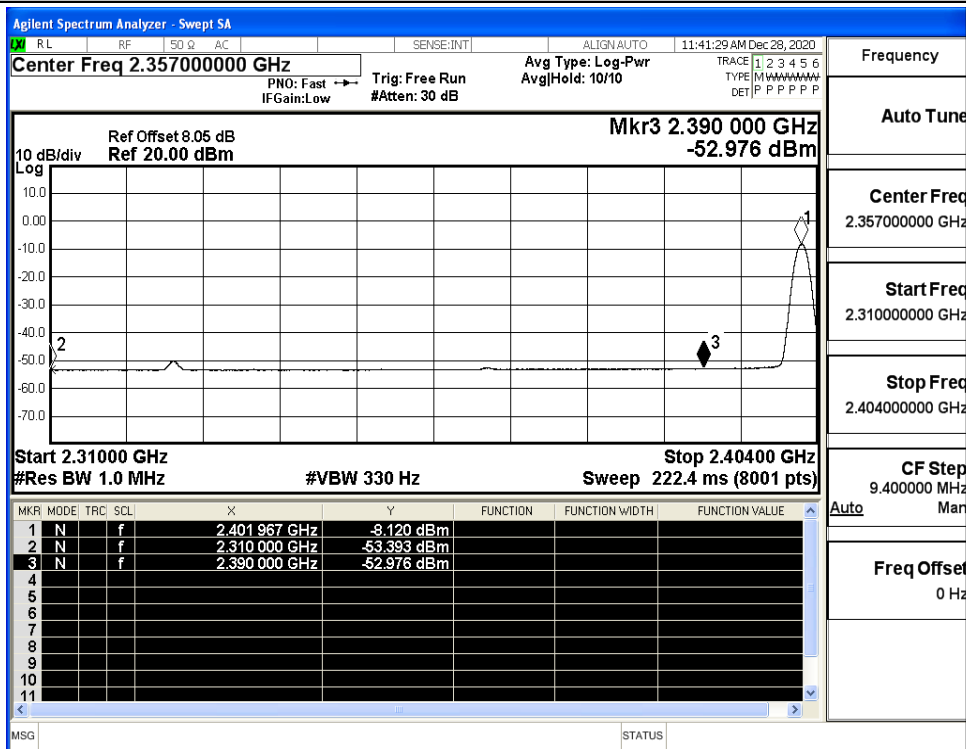
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-42.42	2.0	0	54.81	PEAK	74	PASS
		Ant1	2310.0	-53.39	2.0	0	43.84	AV	54	PASS
		Ant1	2390.0	-42.34	2.0	0	54.89	PEAK	74	PASS
		Ant1	2390.0	-52.98	2.0	0	44.25	AV	54	PASS
	2480	Ant1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

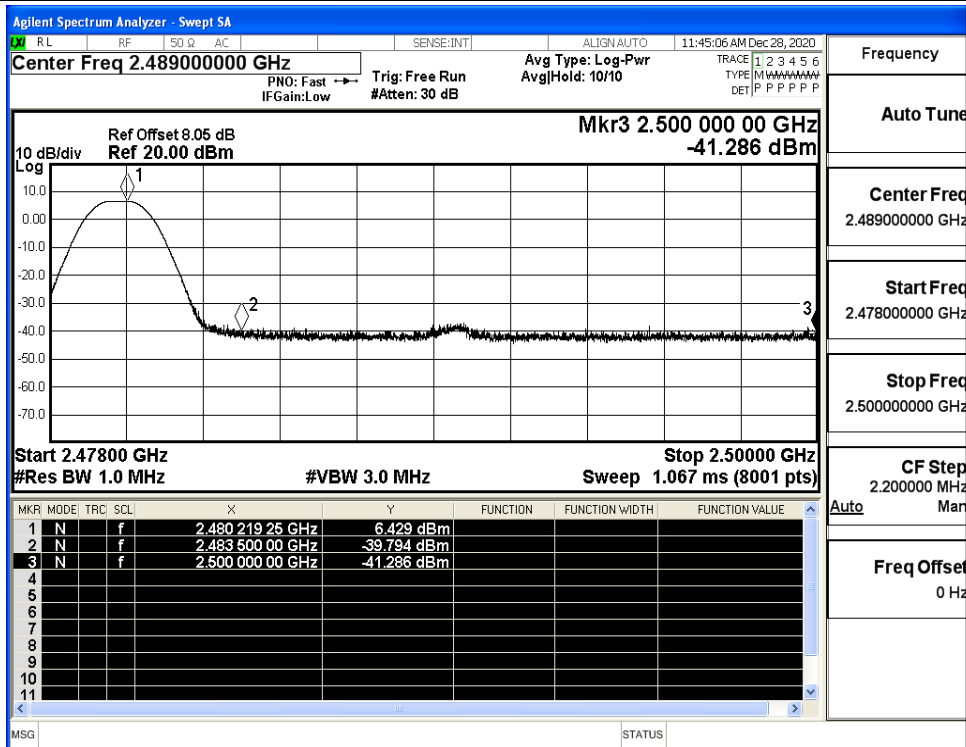
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



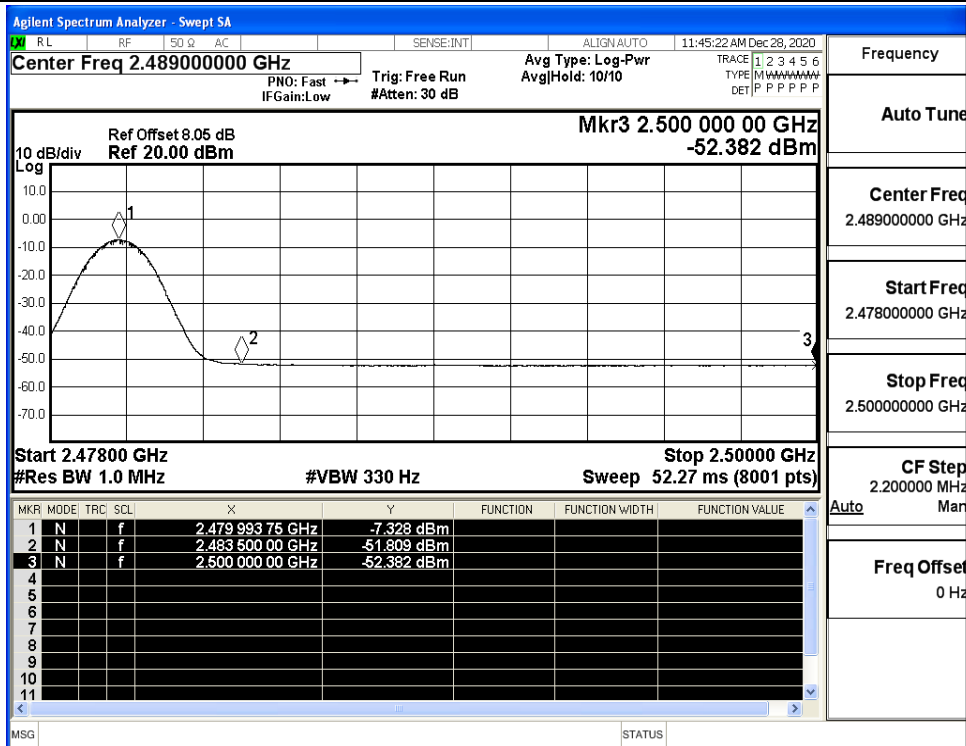
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



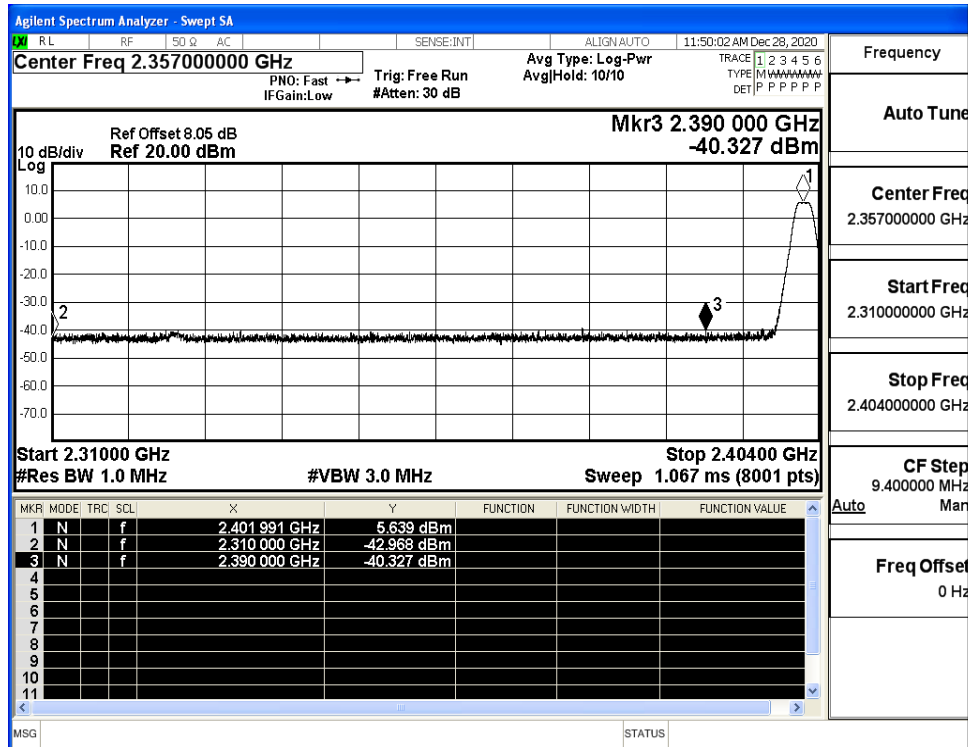
Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



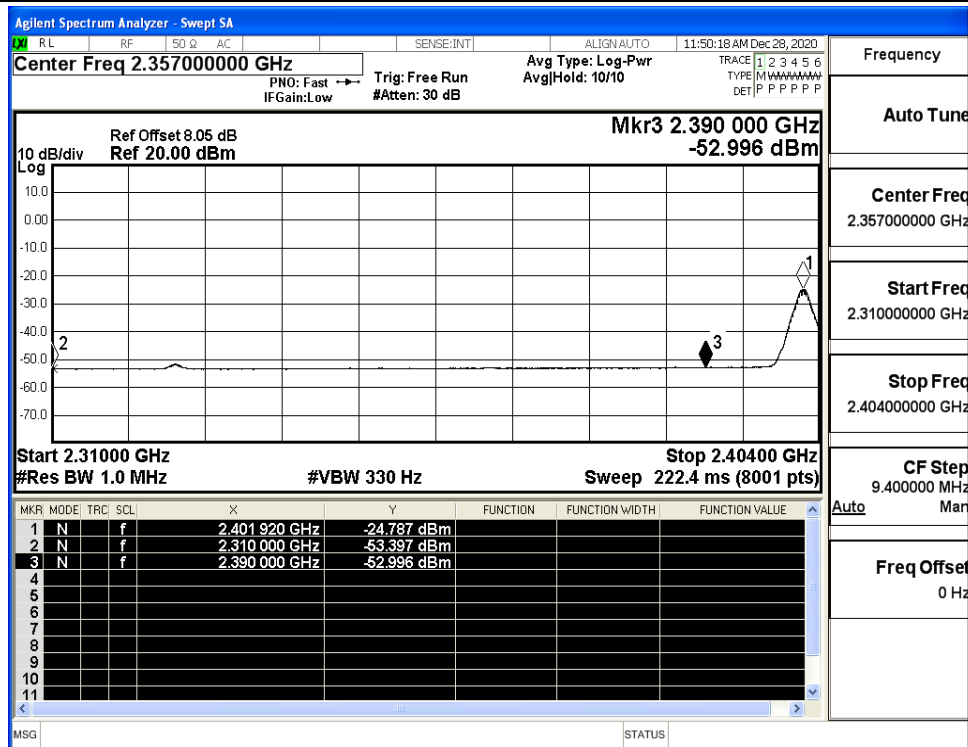
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



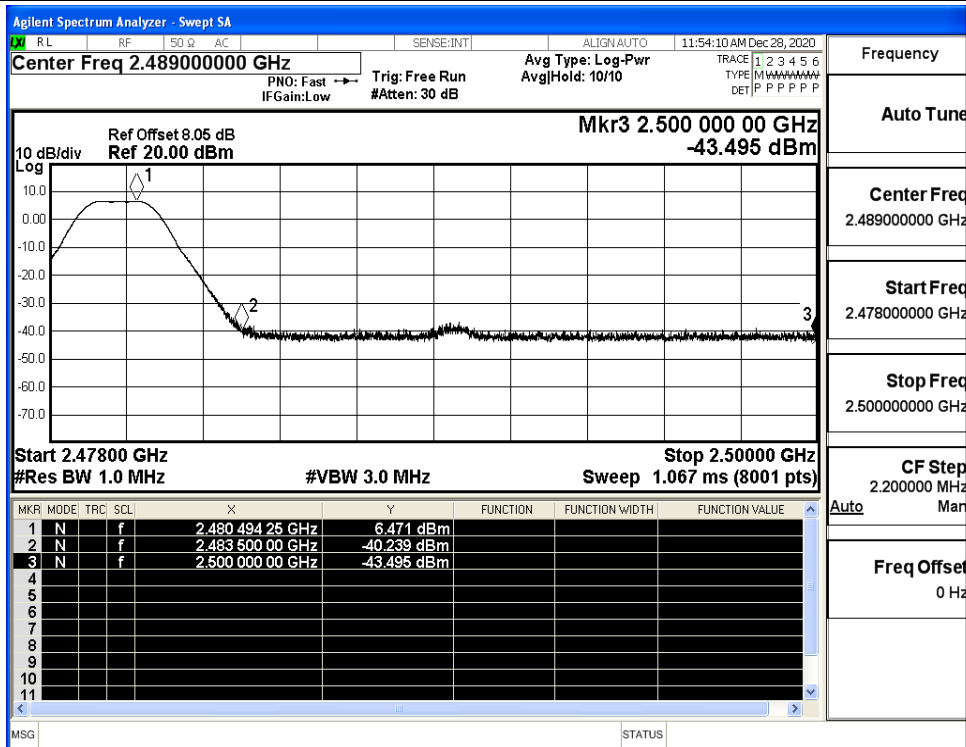
Restrict-band band-edge measurements_BT 2LE_2402_Ant1_PEAK



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

