

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Kraydel Hub

Trade Mark: Kraydel

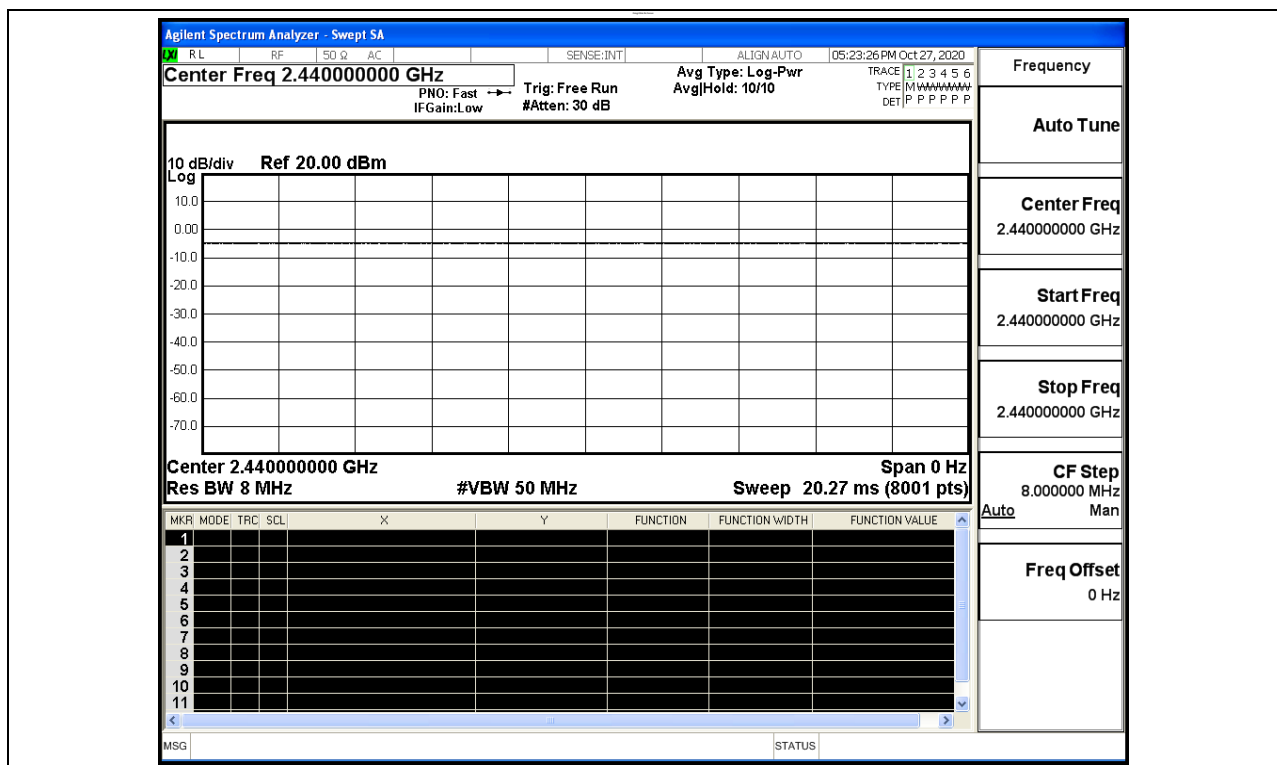
Test Model: Konnect

Environmental Conditions

Temperature:	25.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.5 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

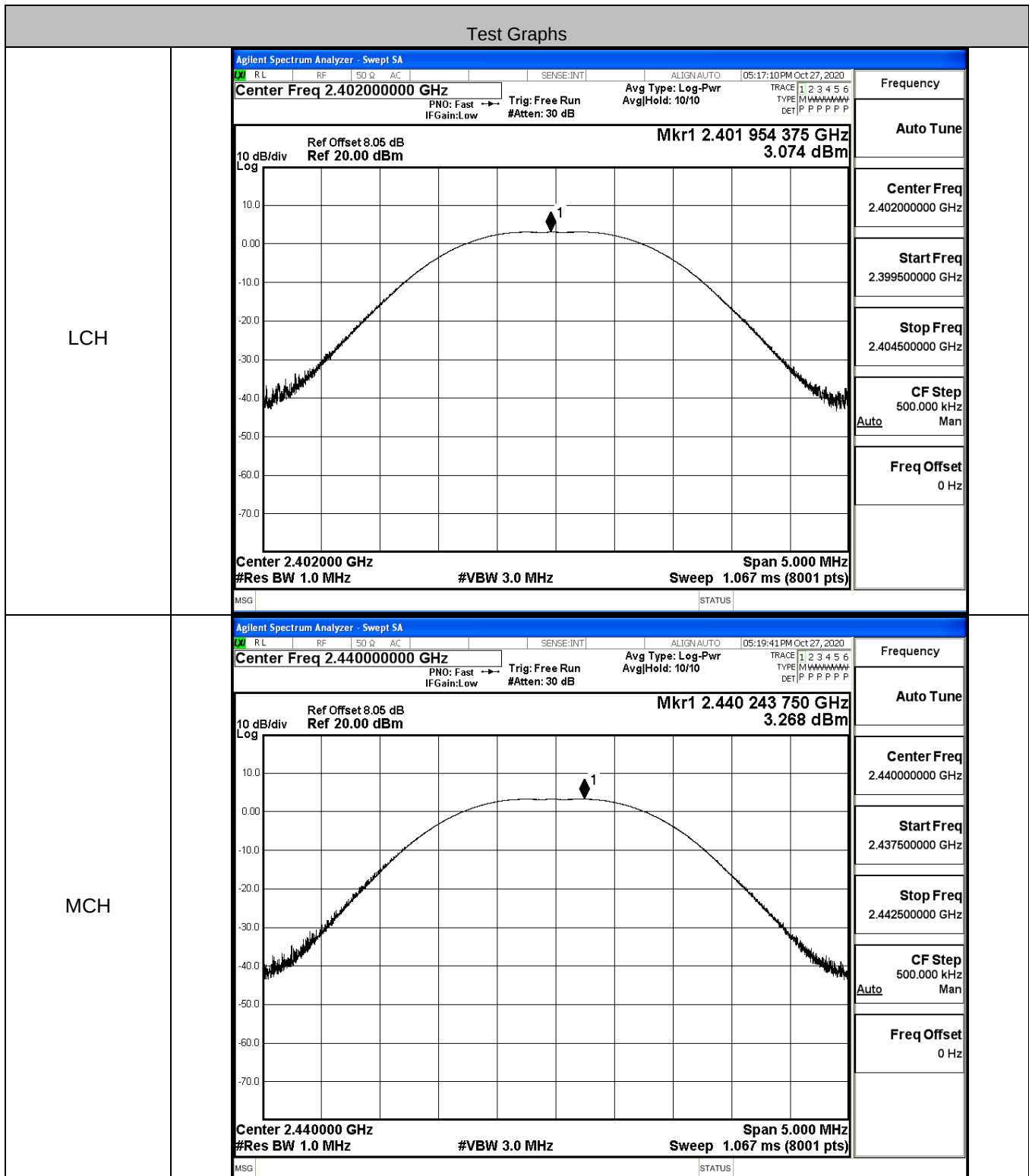
B.1 Duty Cycle

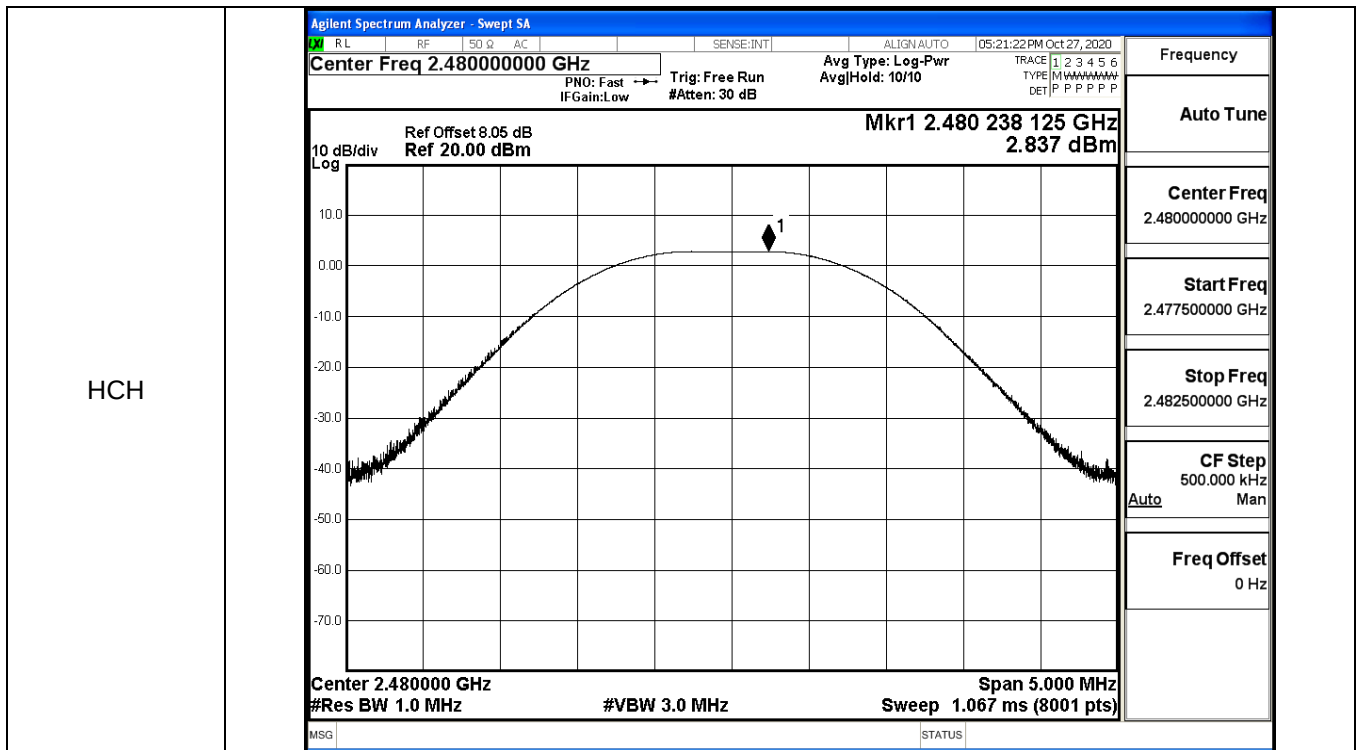
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.074	30	PASS
BT LE	MCH	3.268	30	PASS
BT LE	HCH	2.837	30	PASS



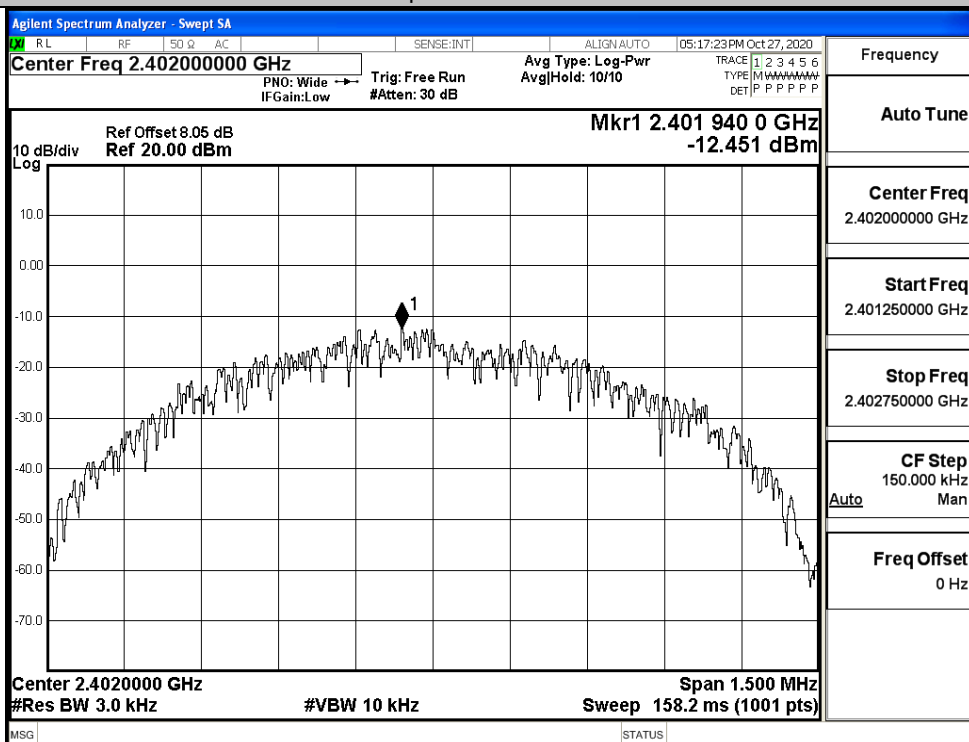


B.3 Maximum Power Spectral Density

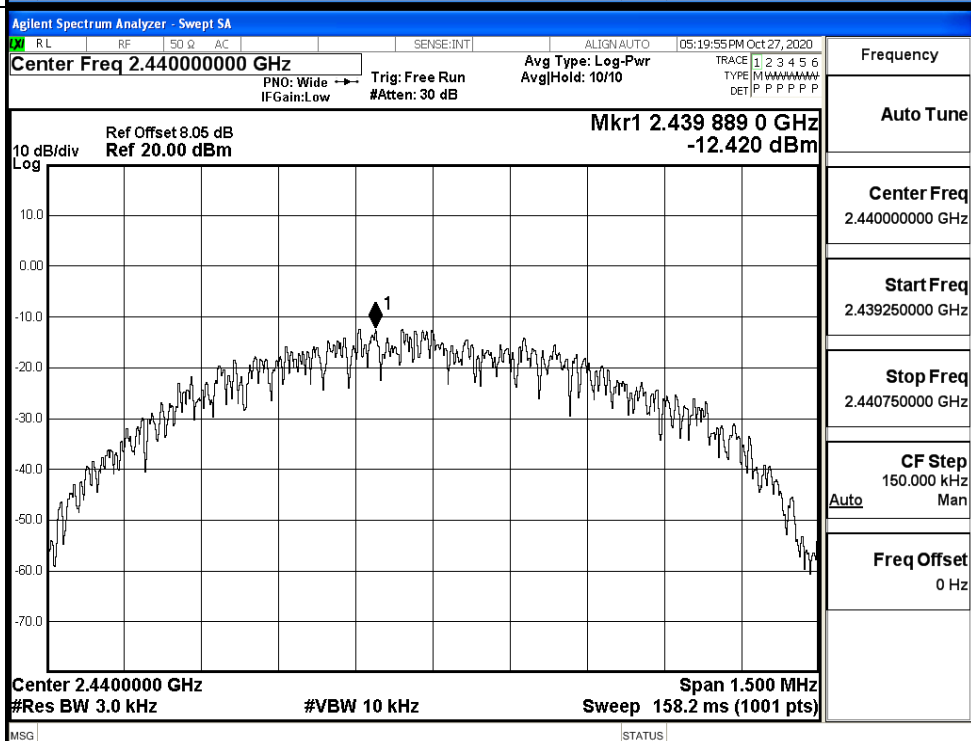
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.451	8	PASS
BT LE	MCH	-12.420	8	PASS
BT LE	HCH	-12.600	8	PASS

Test Graphs

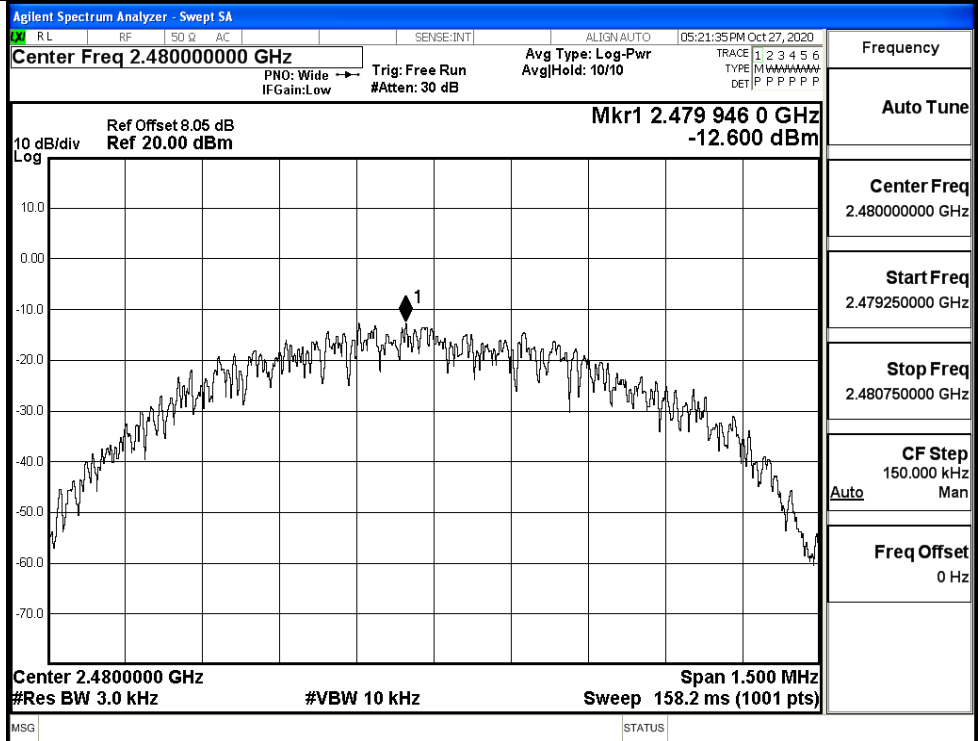
LCH



MCH



HCH

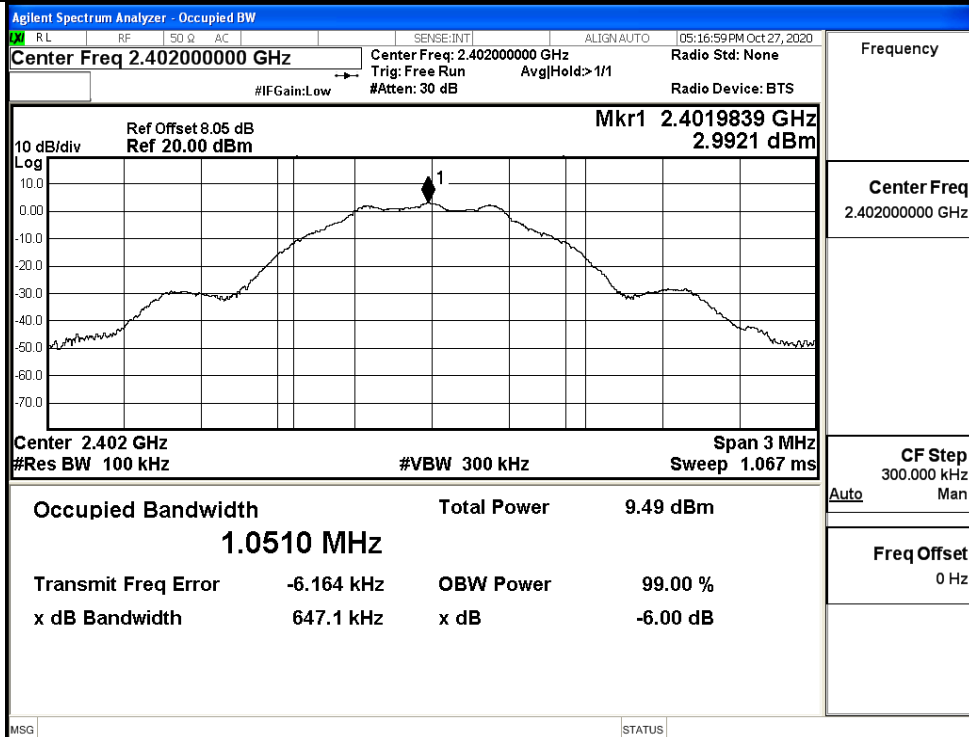


B.4 6dB Bandwidth

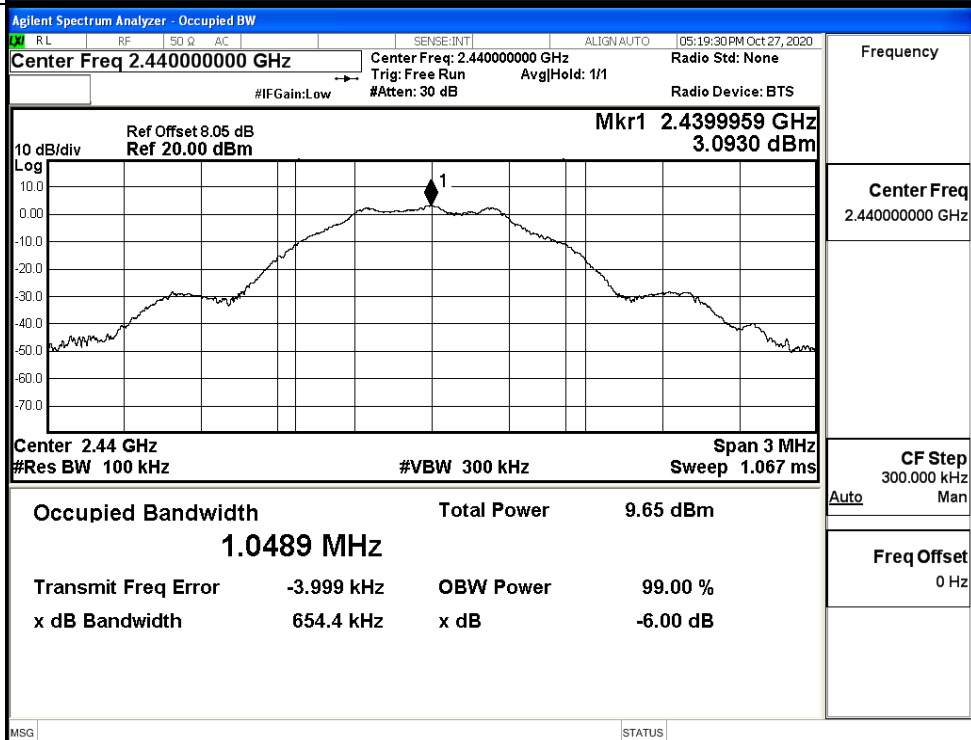
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6471	≥ 0.5	PASS
BT LE	MCH	0.6544	≥ 0.5	PASS
BT LE	HCH	0.6613	≥ 0.5	PASS

Test Graphs

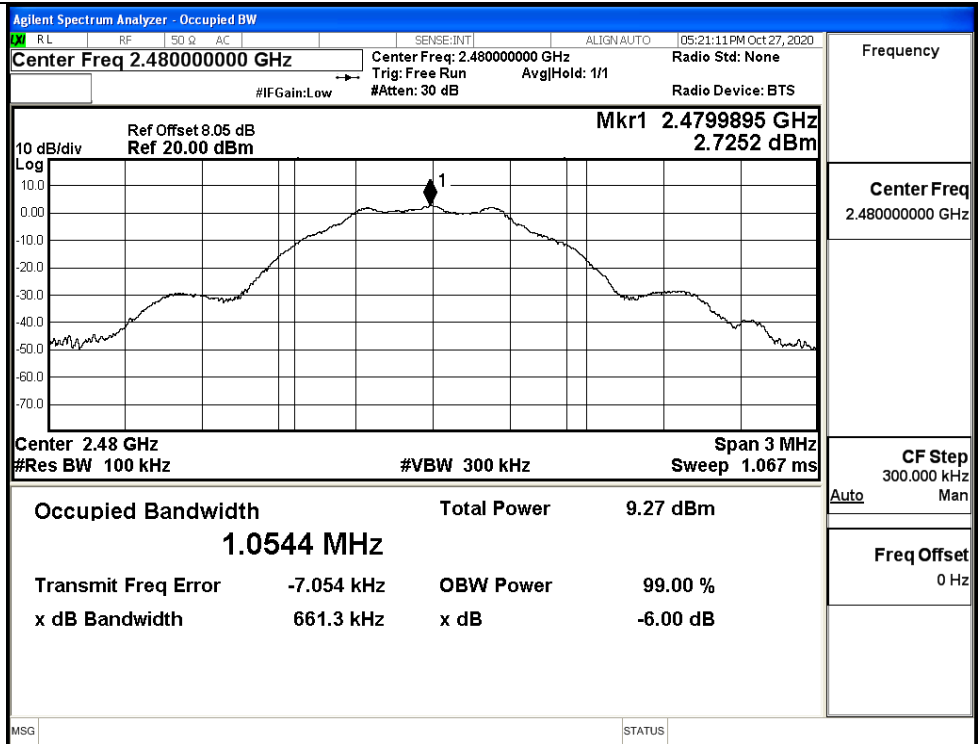
LCH



MCH



HCH

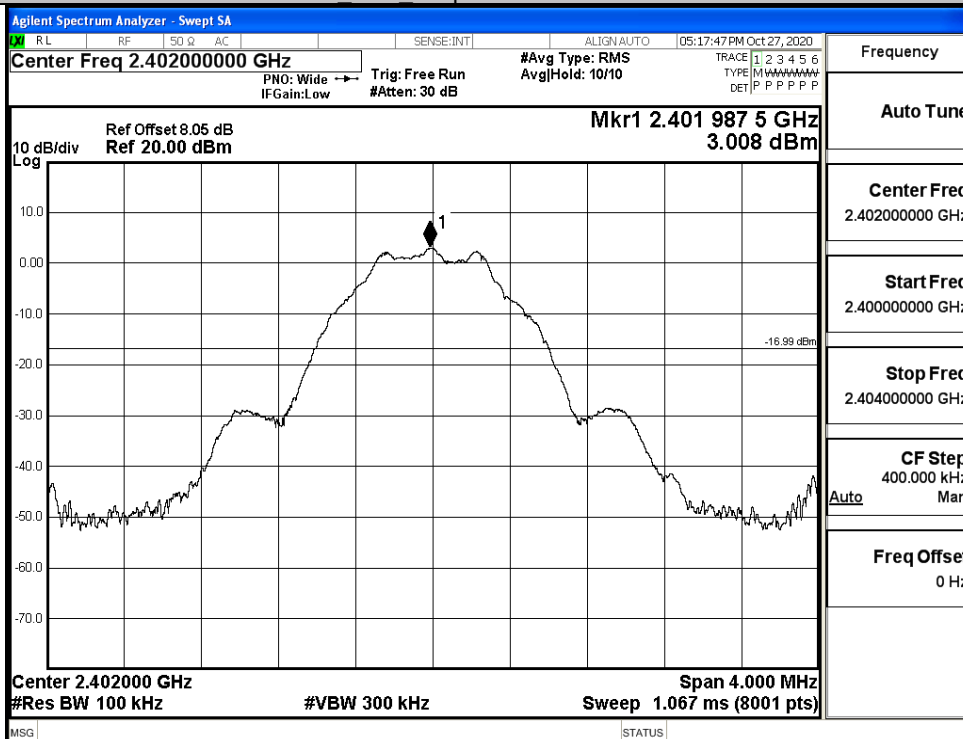


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.008	-37.428	-16.992	PASS
BT LE	MCH	3.194	-36.559	-16.806	PASS
BT LE	HCH	2.464	-36.132	-17.536	PASS

BT LE LCH Graphs

Pref/BT LE/LCH



Frequency

Auto Tune

Center Freq
2.402000000 GHz

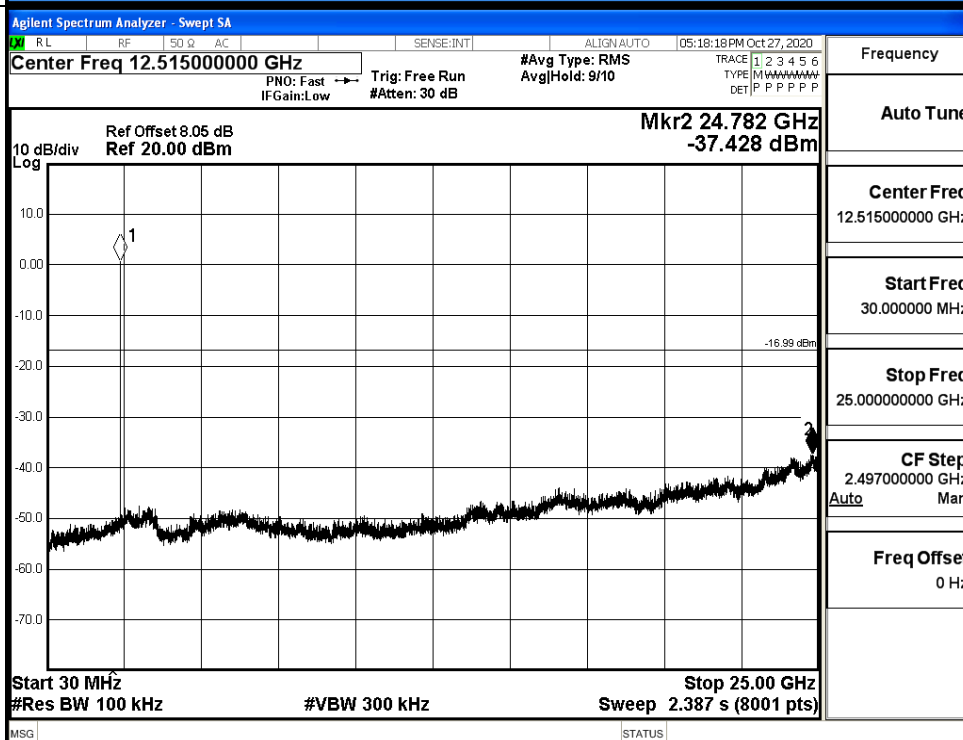
Start Freq
2.400000000 GHz

Stop Freq
2.404000000 GHz

CF Step
400.000 kHz
Auto Man

Freq Offset
0 Hz

Puw/BT LE/LCH



Frequency

Auto Tune

Center Freq
12.515000000 GHz

Start Freq
30.000000 MHz

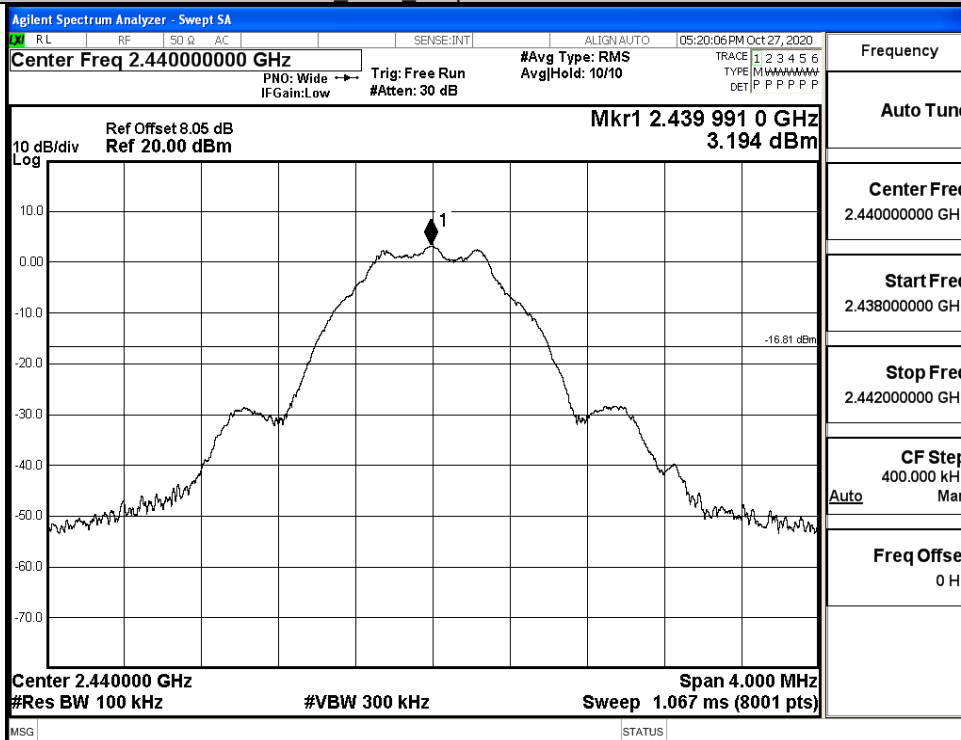
Stop Freq
25.000000000 GHz

CF Step
2.497000000 GHz
Auto Man

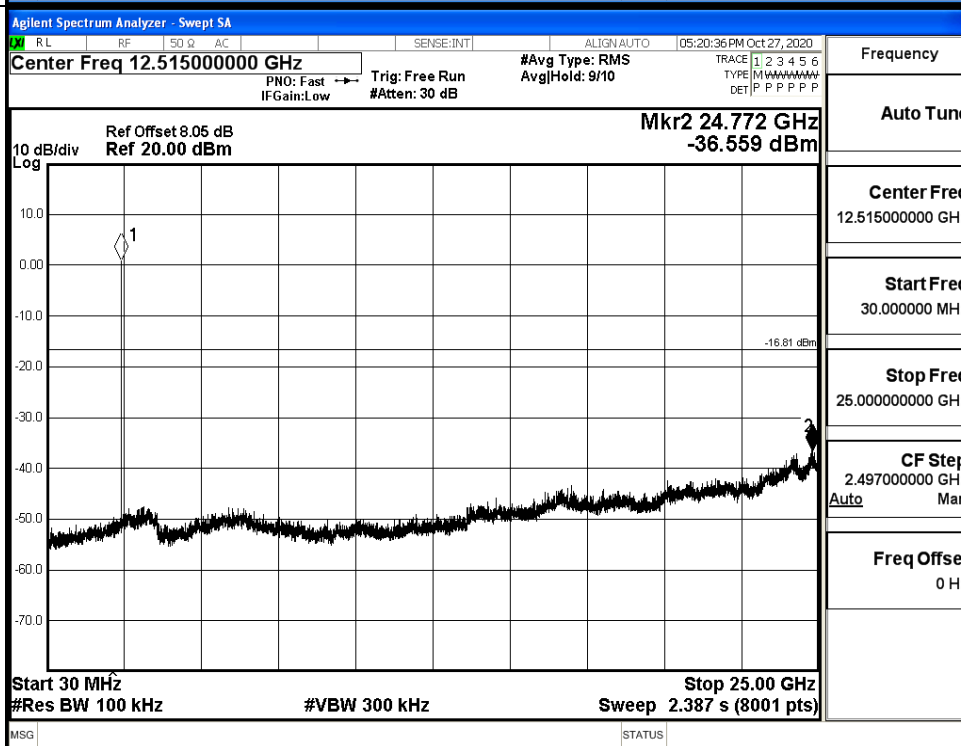
Freq Offset
0 Hz

BT LE MCH Graphs

Pref/BT LE/MCH

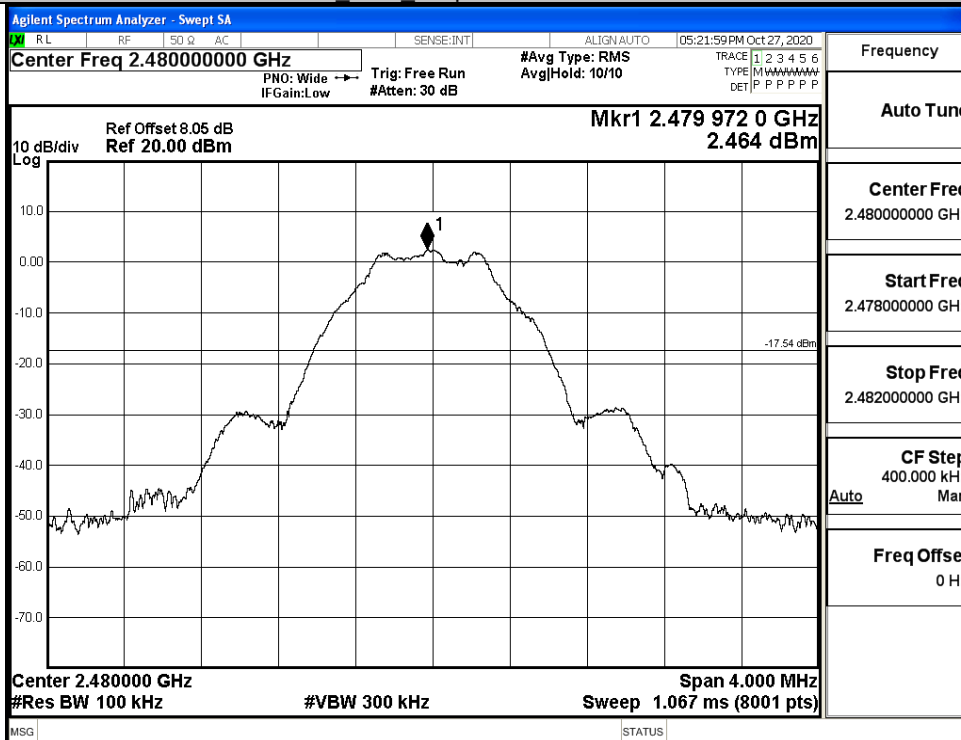


Puw/BT LE/MCH

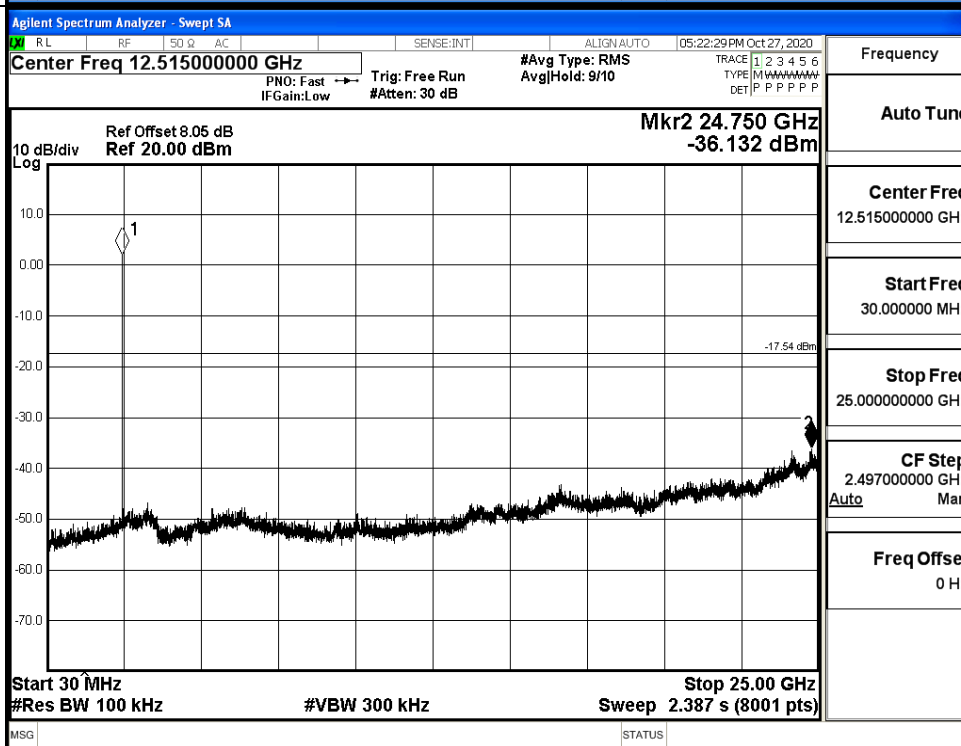


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

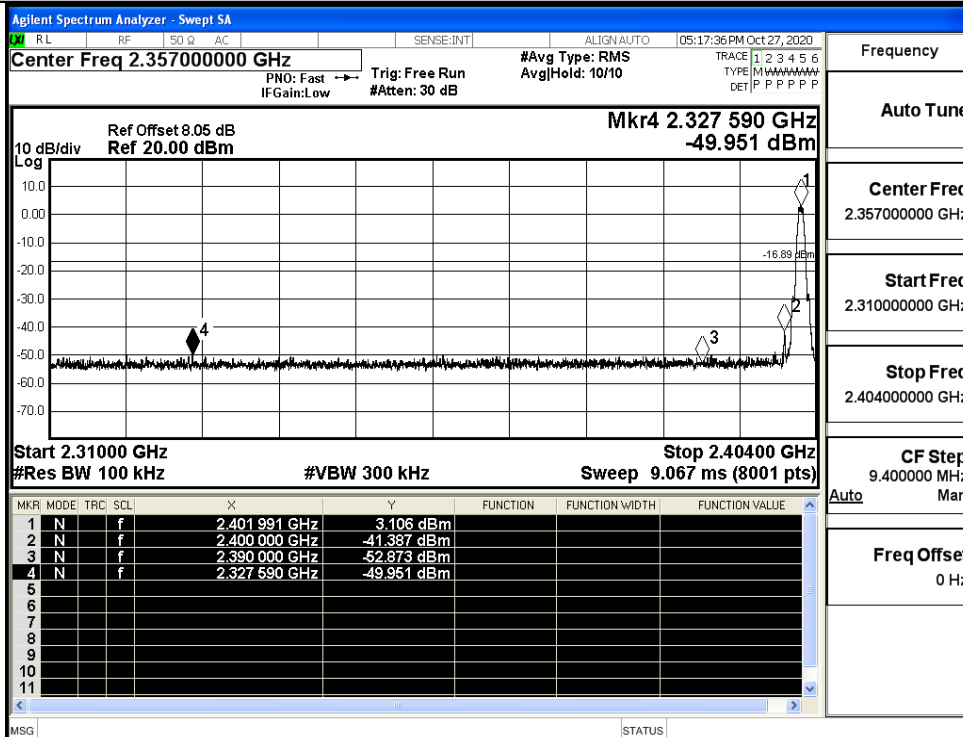


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.106	-49.951	-16.89	PASS
BT LE	HCH	2.784	-39.921	-17.22	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

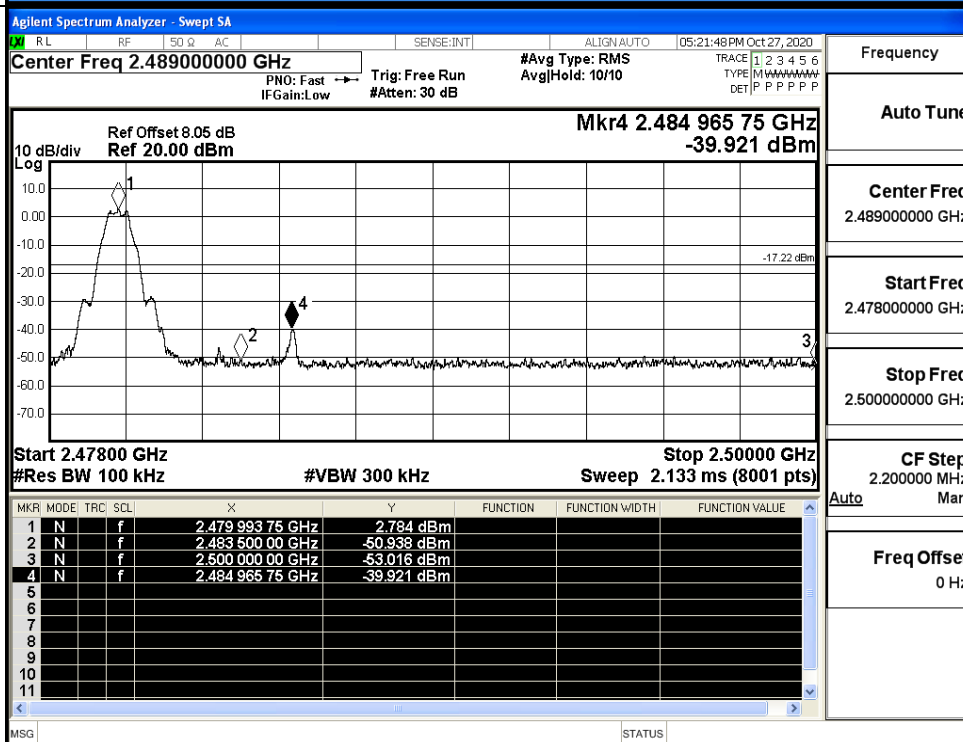
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

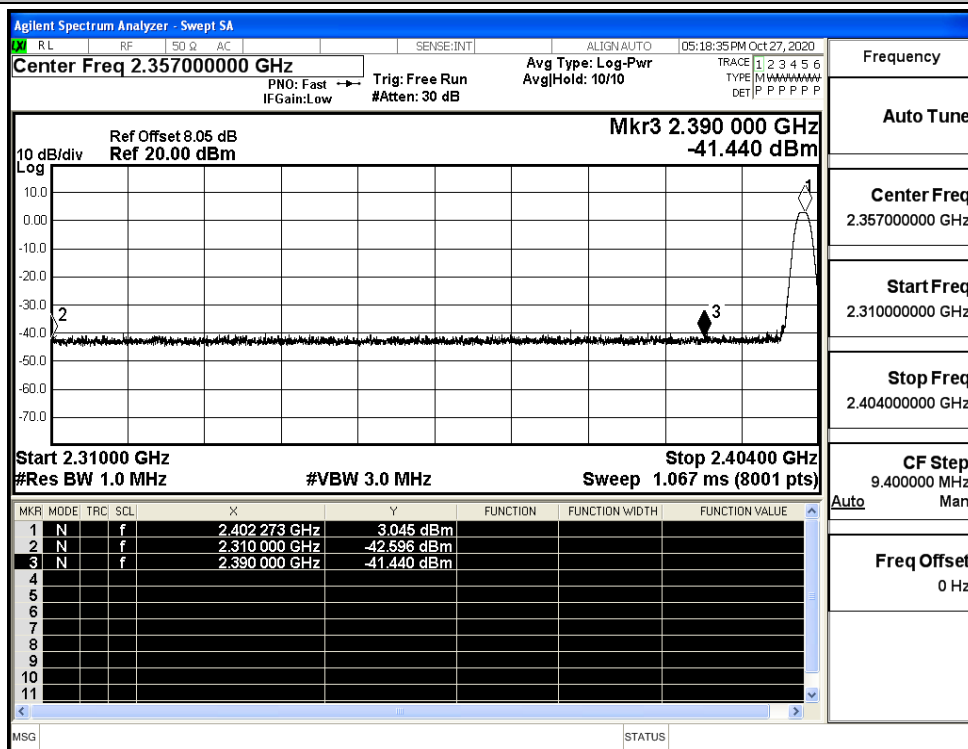
CF Step
2.200000 MHz

Freq Offset
0 Hz

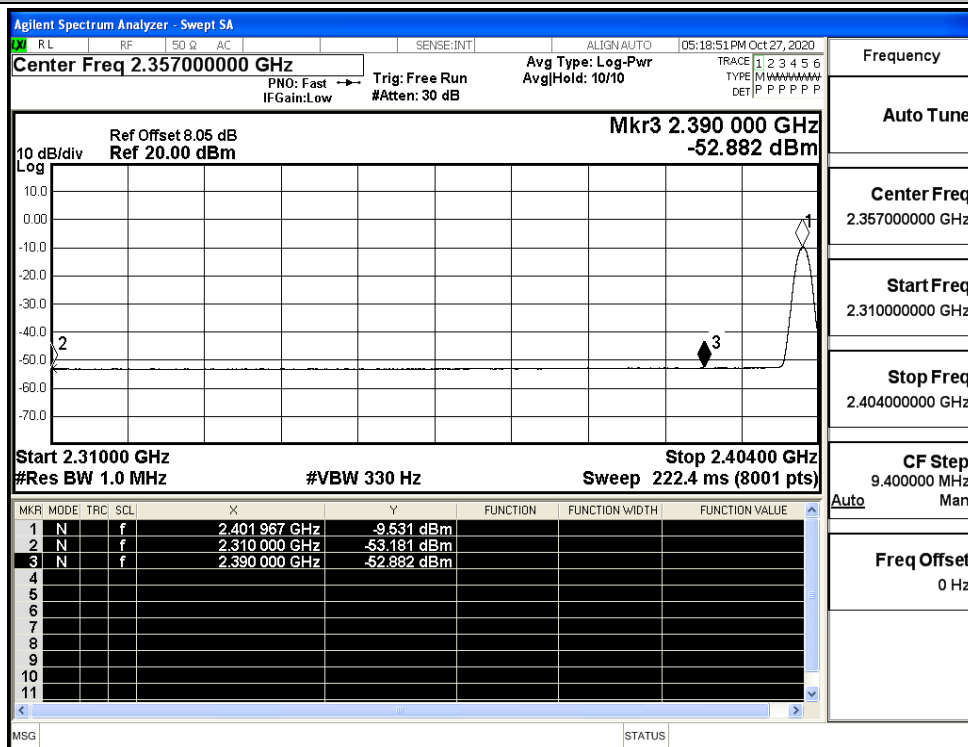
B.7 Restrict-band band-edge measurements

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	-42.60	2.0	0	54.63	PEAK	74	PASS
		Ant1	2310.0	-53.18	2.0	0	44.05	AV	54	PASS
		Ant1	2390.0	-41.44	2.0	0	55.79	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.0	0	44.35	AV	54	PASS
	2480	Ant1	2483.5	-42.48	2.0	0	54.75	PEAK	74	PASS
		Ant1	2483.5	-52.23	2.0	0	45.00	AV	54	PASS
		Ant1	2500.0	-42.77	2.0	0	54.46	PEAK	74	PASS
		Ant1	2500.0	-52.25	2.0	0	44.98	AV	54	PASS

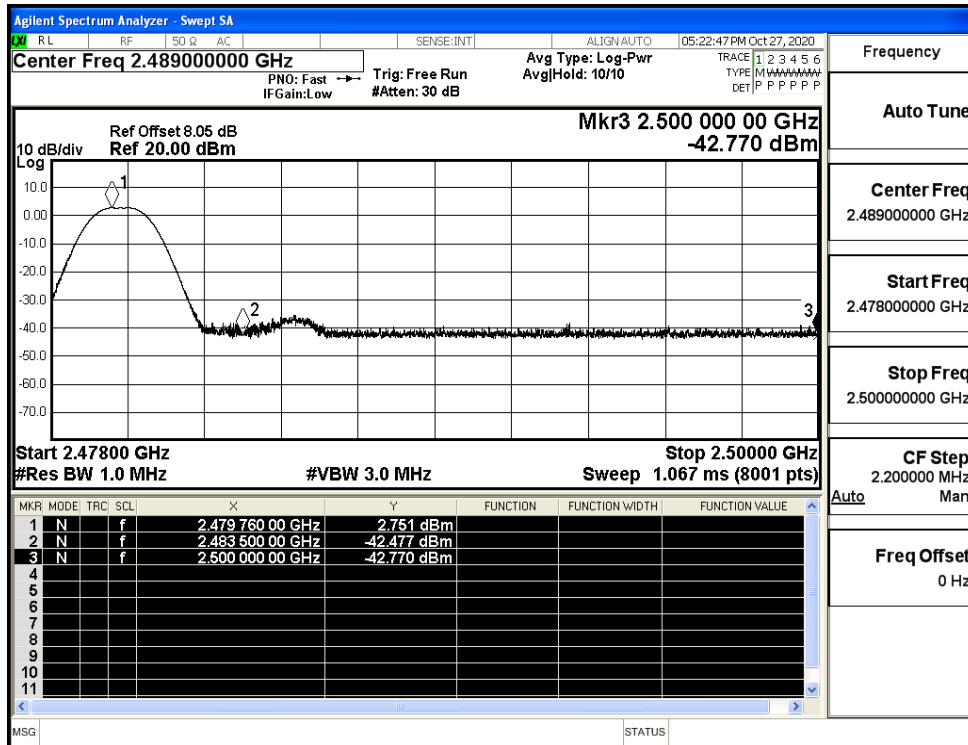
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

