

Appendix B

RF Test Data for BT V4.2(DSS/DTS) (Conducted Measurement)

Product Name: DP50-1

Trade Mark: **ODSTAR**®, **OBDPROG**

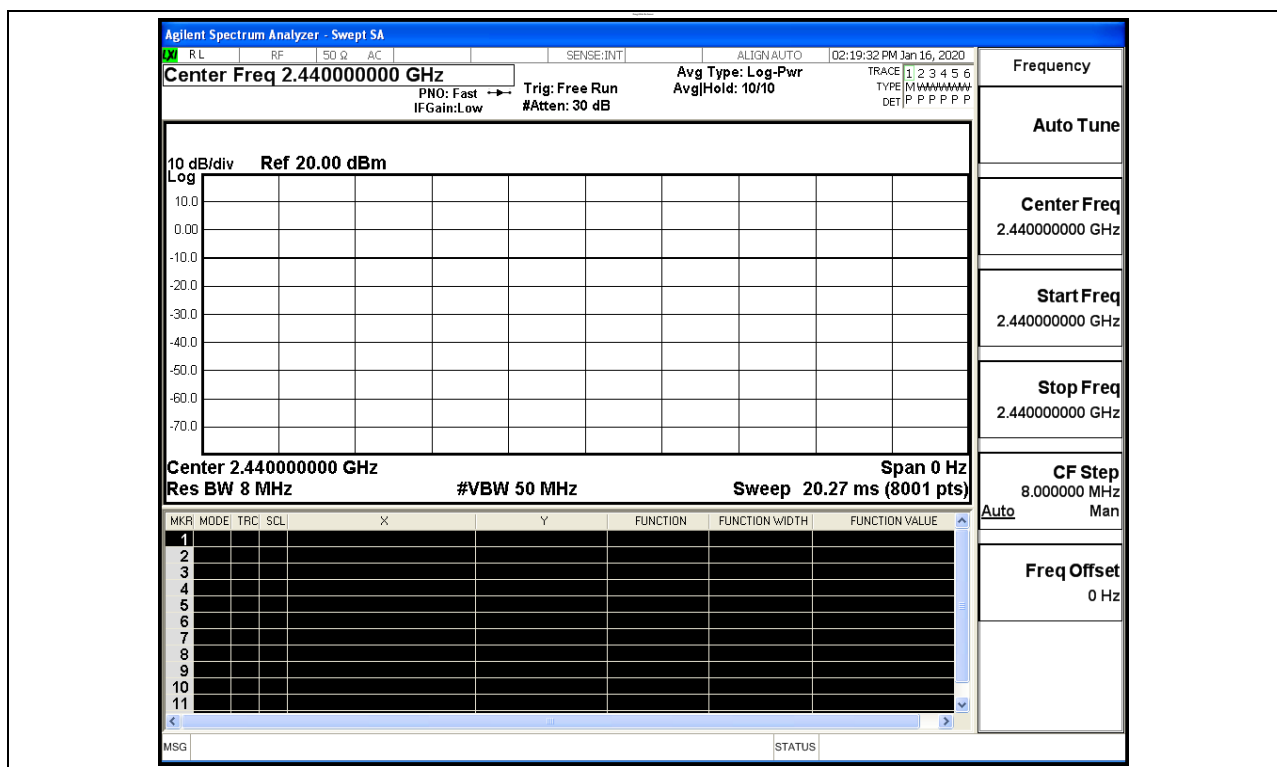
Test Model: DP50-1

Environmental Conditions

Temperature:	22.8°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom.Liu

B.1 Duty Cycle

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

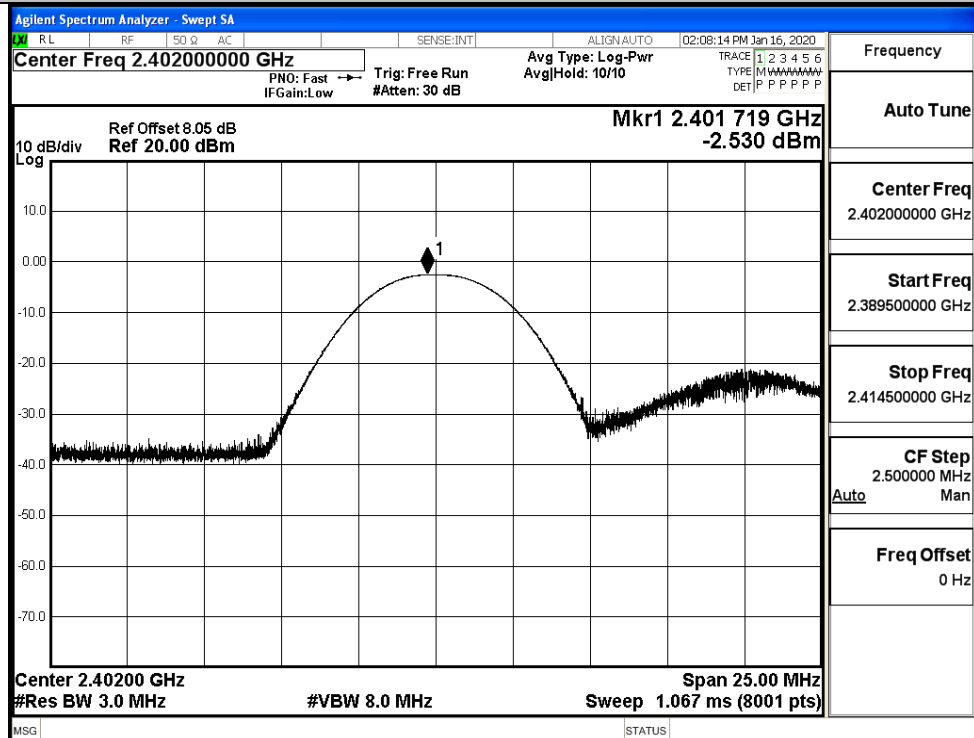


B.2 Maximum Conducted Peak Output Power

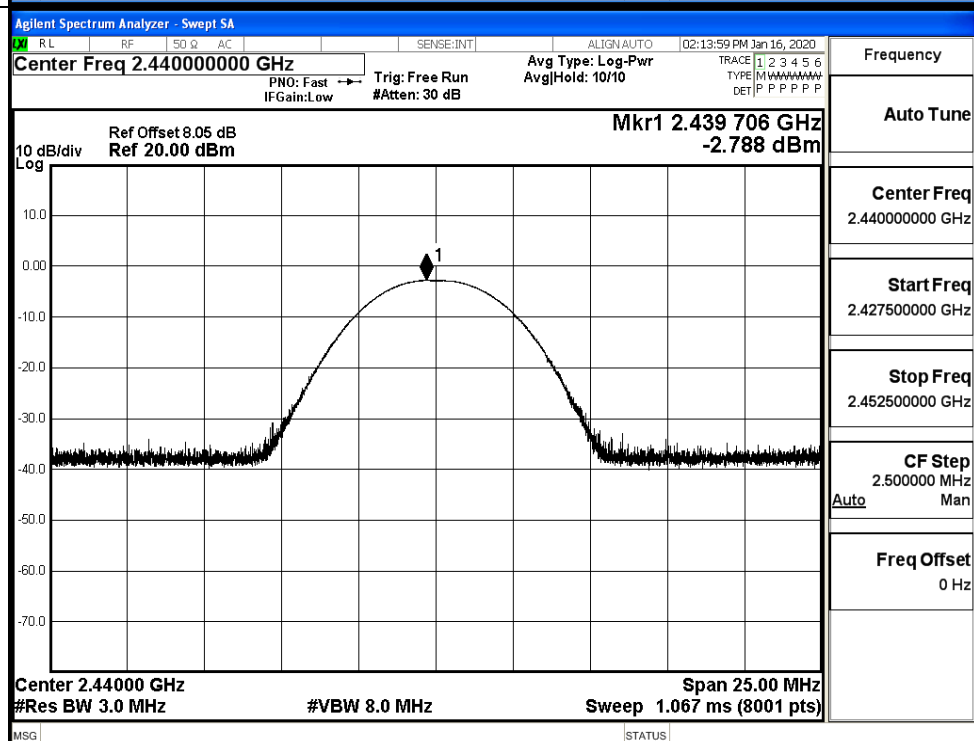
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.530	30	PASS
BT LE	MCH	-2.788	30	PASS
BT LE	HCH	-3.425	30	PASS

Test Graphs

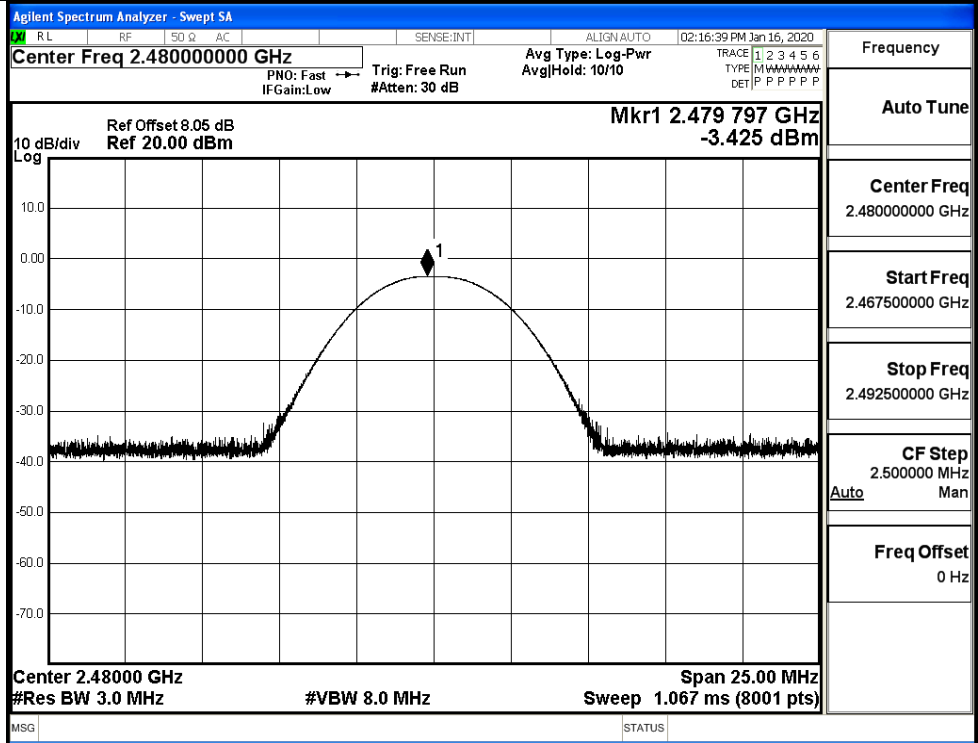
LCH



MCH

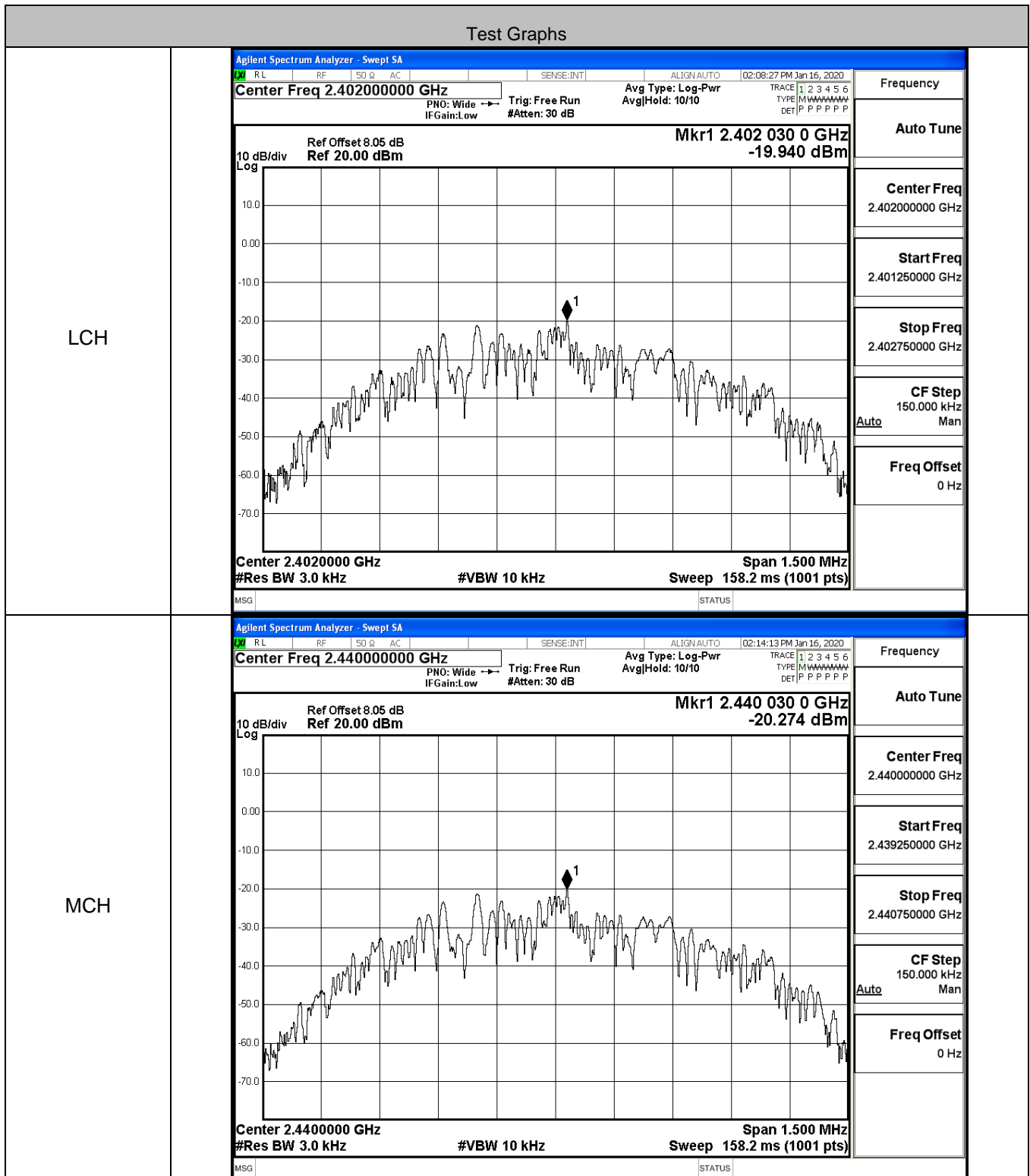


HCH

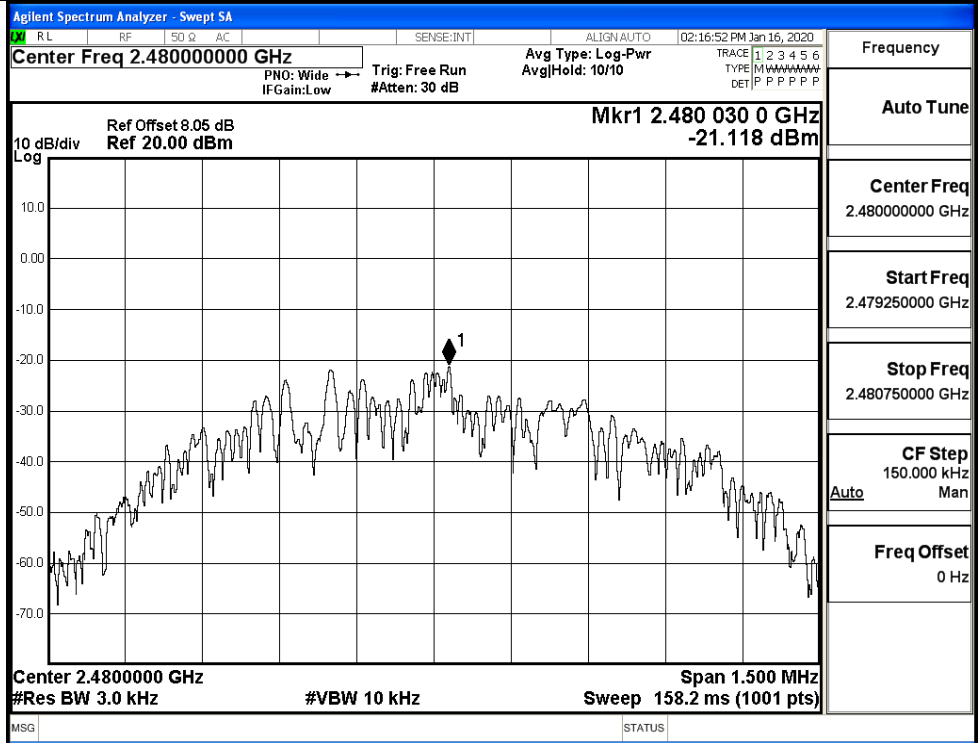


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.940	8	PASS
BT LE	MCH	-20.274	8	PASS
BT LE	HCH	-21.118	8	PASS



HCH

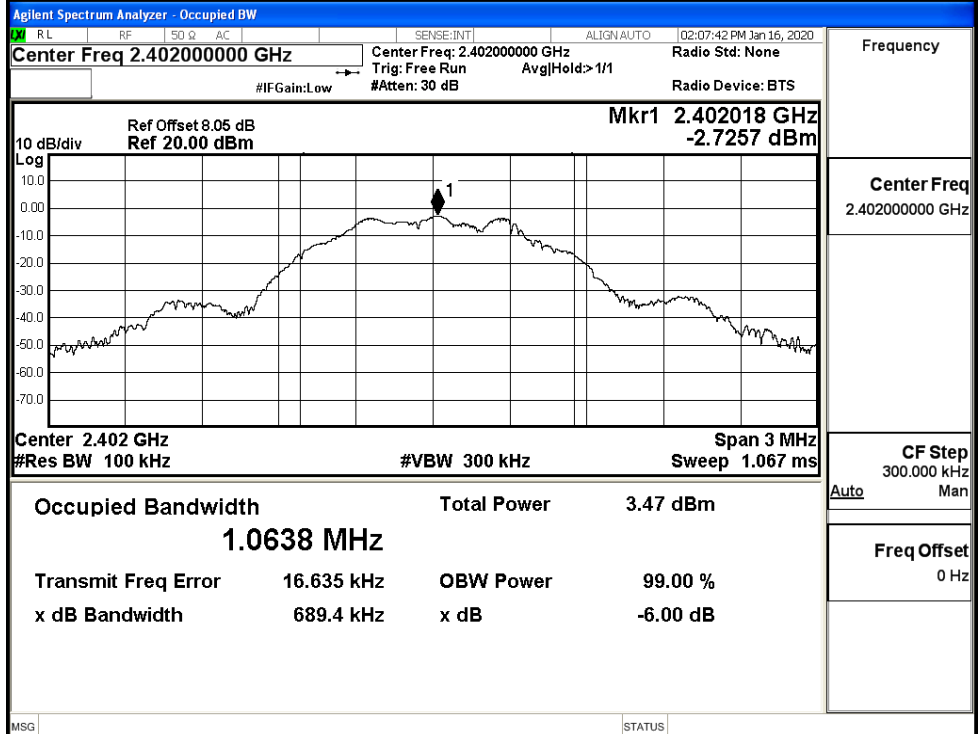


B.4 6dB Bandwidth

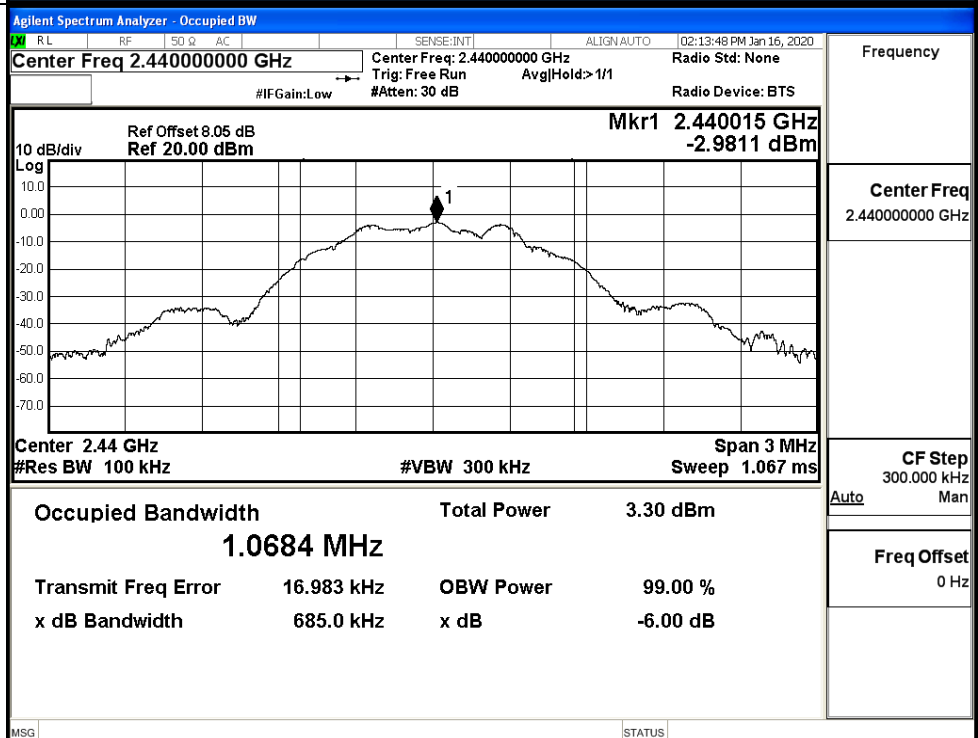
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6894	≥ 0.5	PASS
BT LE	MCH	0.6850	≥ 0.5	PASS
BT LE	HCH	0.6856	≥ 0.5	PASS

Test Graphs

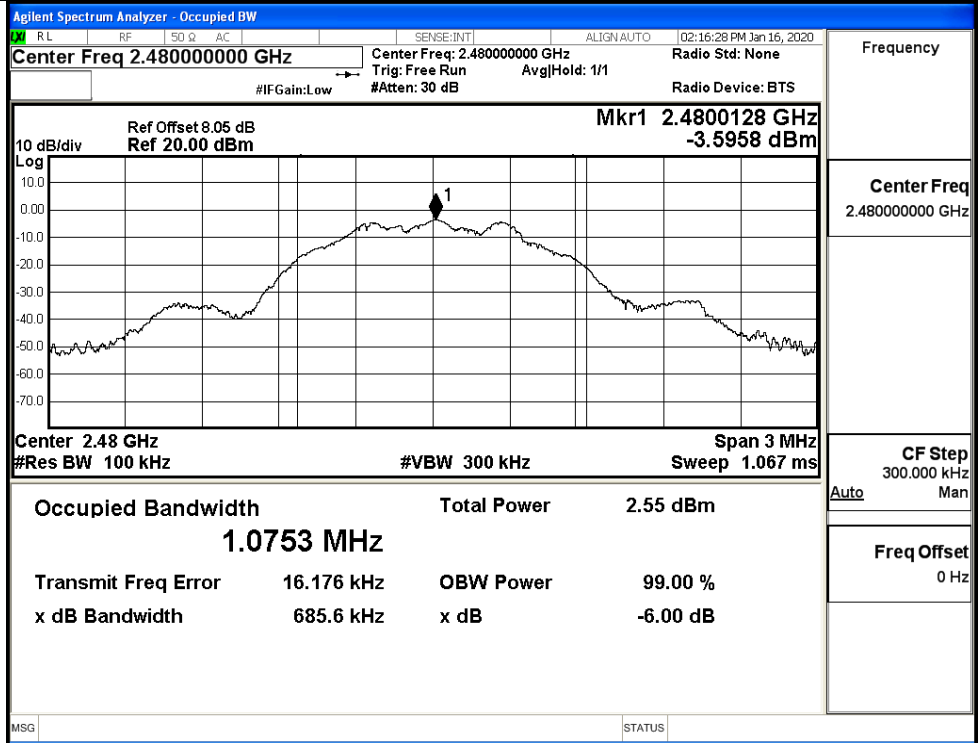
LCH



MCH



HCH



B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0331	≥ 0.5	PASS
BT LE	MCH	1.0373	≥ 0.5	PASS
BT LE	HCH	1.0407	≥ 0.5	PASS

Test Graphs

LCH



Frequency

Center Freq
2.402000000 GHzCF Step
400.000 kHz
ManFreq Offset
0 Hz

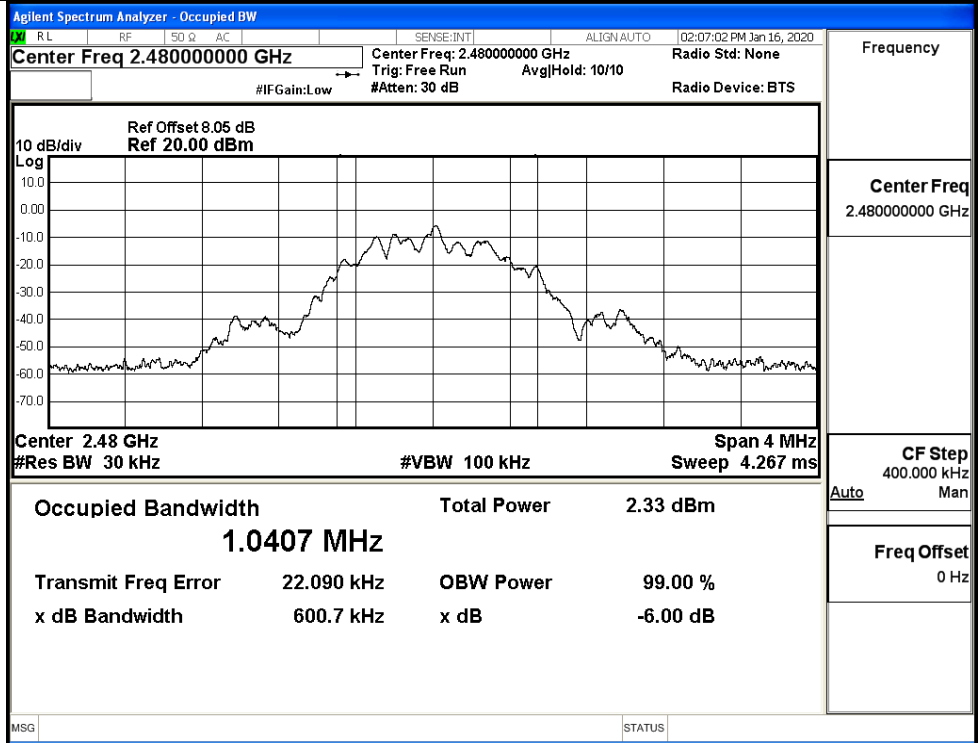
MCH



Frequency

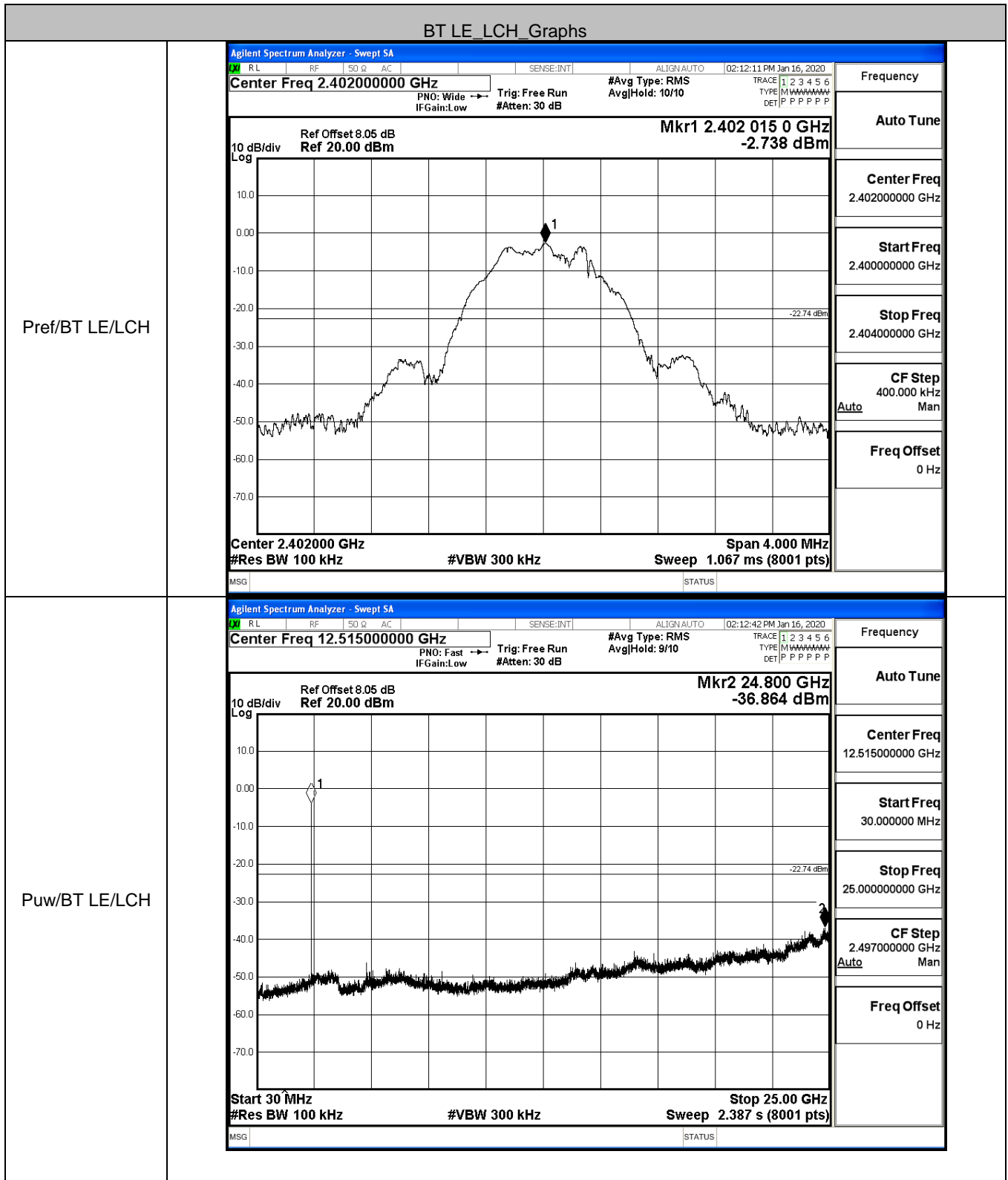
Center Freq
2.440000000 GHzCF Step
400.000 kHz
ManFreq Offset
0 Hz

HCH



B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.738	-36.864	-22.738	PASS
BT LE	MCH	-3.014	-29.827	-23.014	PASS
BT LE	HCH	-2.242	-25.116	-22.242	PASS



BT LE_MCH_Graphs

Pref/BT LE/MCH

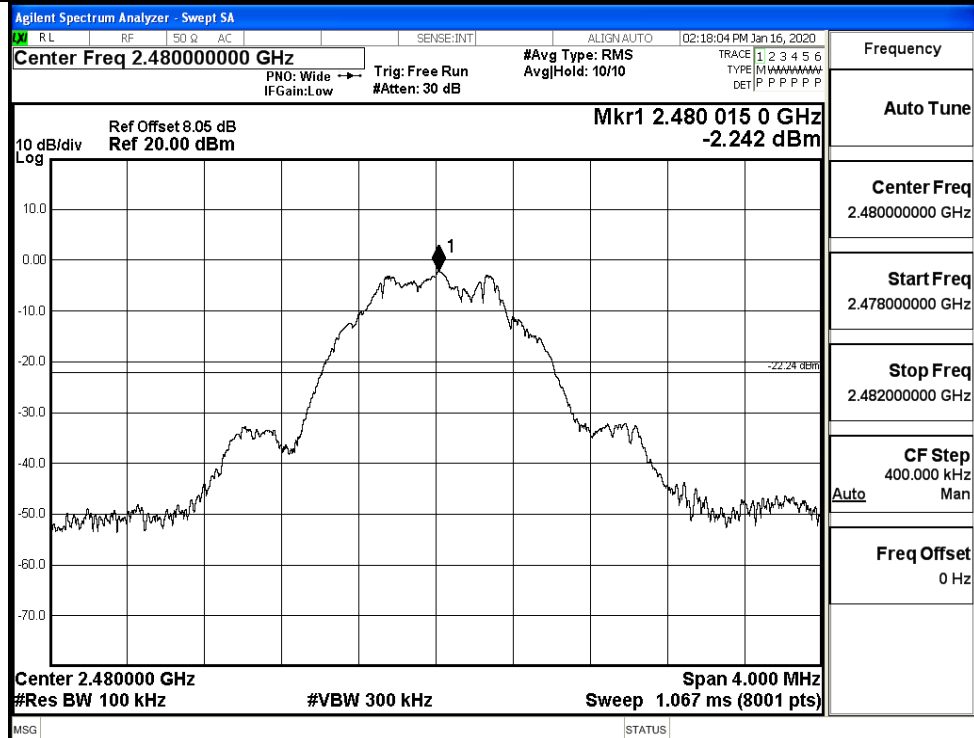


Puw/BT LE/MCH

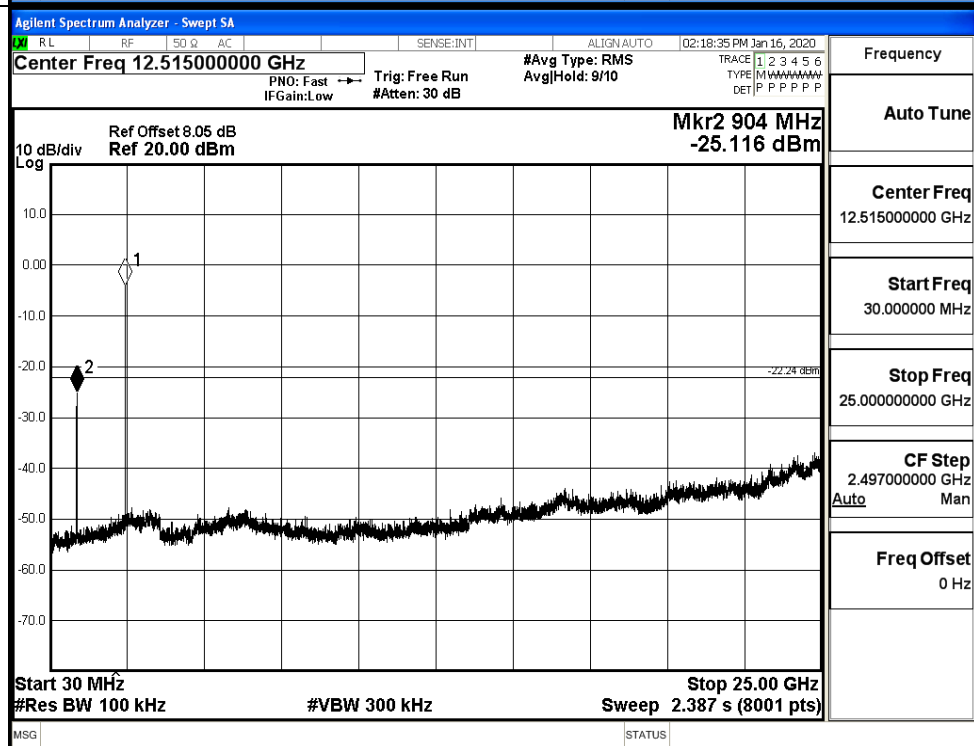


BT LE_HCH_Graphs

Pref/BT LE/HCH

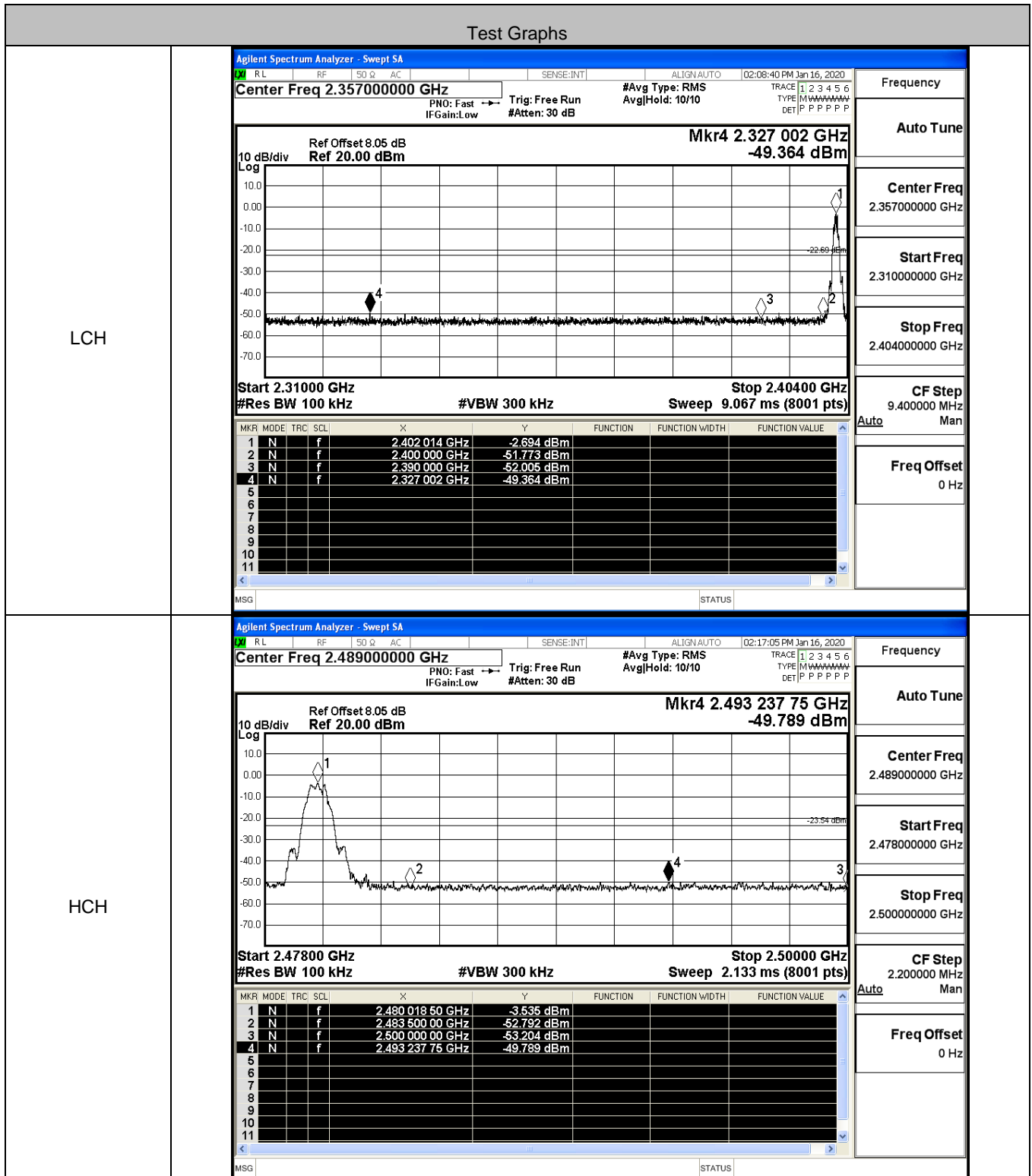


Puw/BT LE/HCH



B.7 Band-edge for RF Conducted Emissions

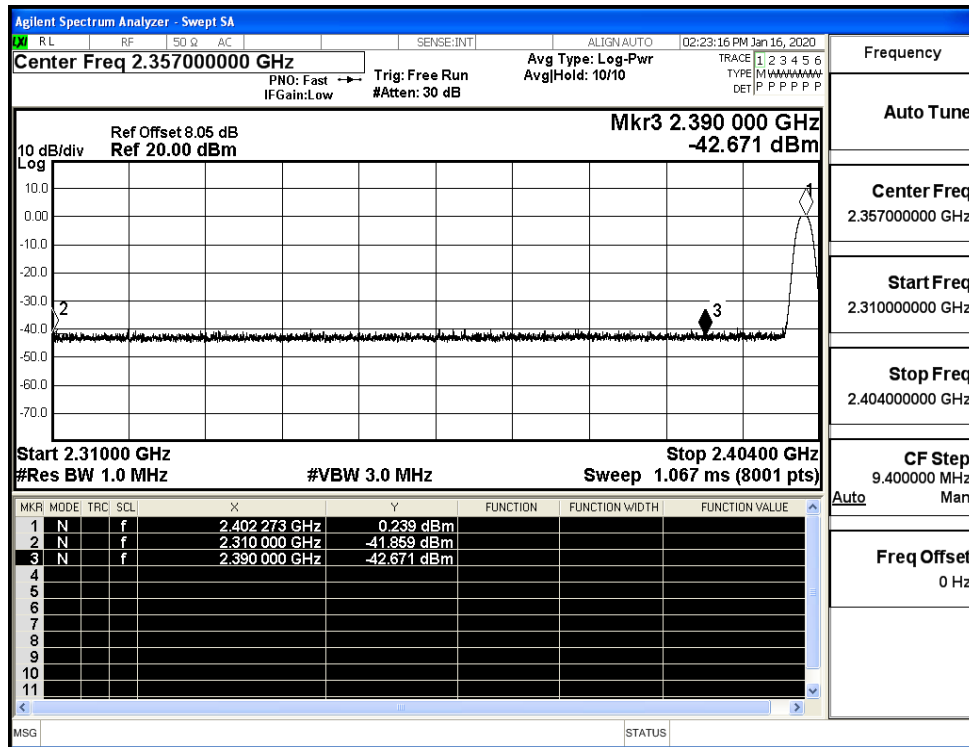
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.694	-49.364	-22.69	PASS
BT LE	HCH	-3.535	-49.789	-23.54	PASS



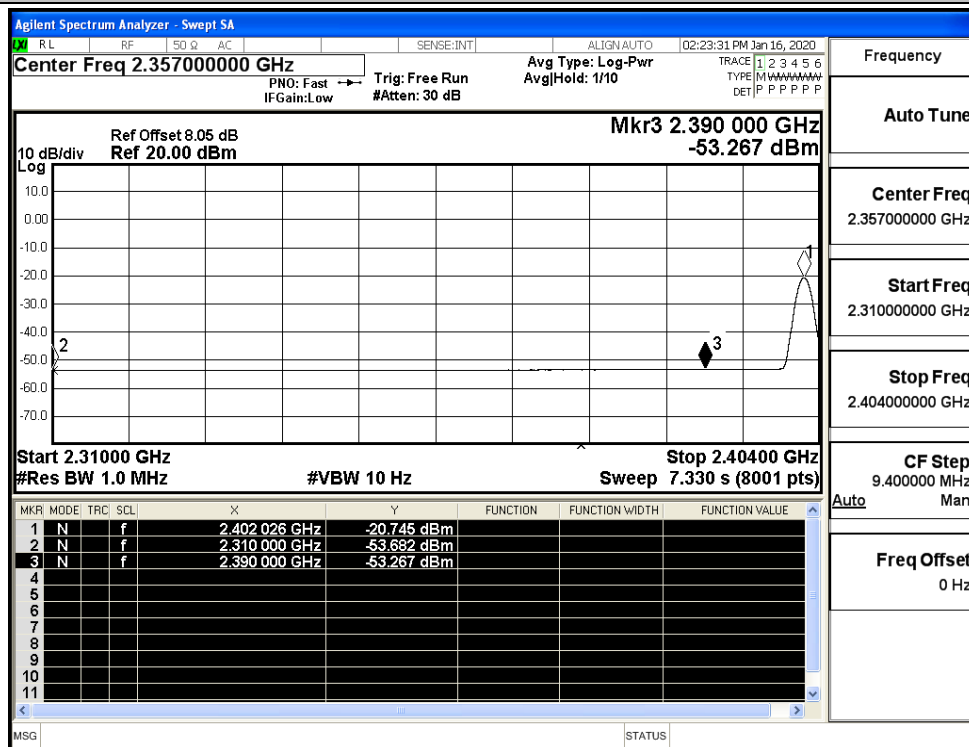
B.8 Restrict-band band-edge measurements

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	-41.86	3.0	0	56.37	PEAK	74	PASS
		Ant1	2310.0	-53.68	3.0	0	44.55	AV	54	PASS
		Ant1	2390.0	-42.67	3.0	0	55.56	PEAK	74	PASS
		Ant1	2390.0	-53.27	3.0	0	44.96	AV	54	PASS
	2480	Ant1	2483.5	-42.32	3.0	0	55.91	PEAK	74	PASS
		Ant1	2483.5	-52.70	3.0	0	45.53	AV	54	PASS
		Ant1	2500.0	-41.08	3.0	0	57.15	PEAK	74	PASS
		Ant1	2500.0	-52.69	3.0	0	45.54	AV	54	PASS

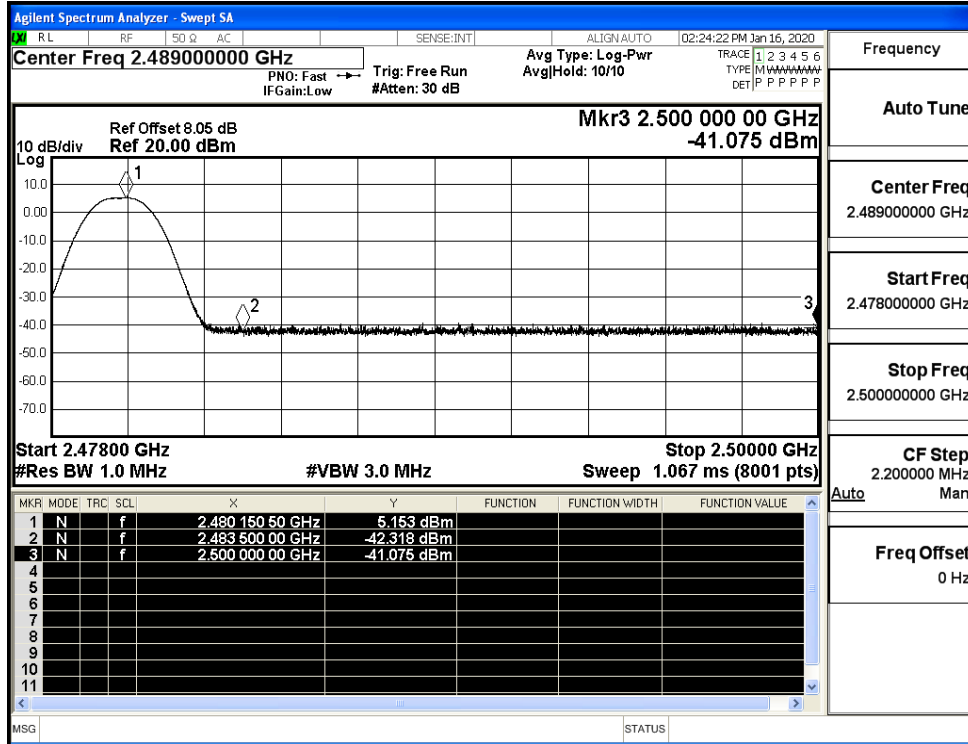
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

