

Appendix B

RF Test Data for BLE V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Music Planet

Trade Mark: Cosmic Island

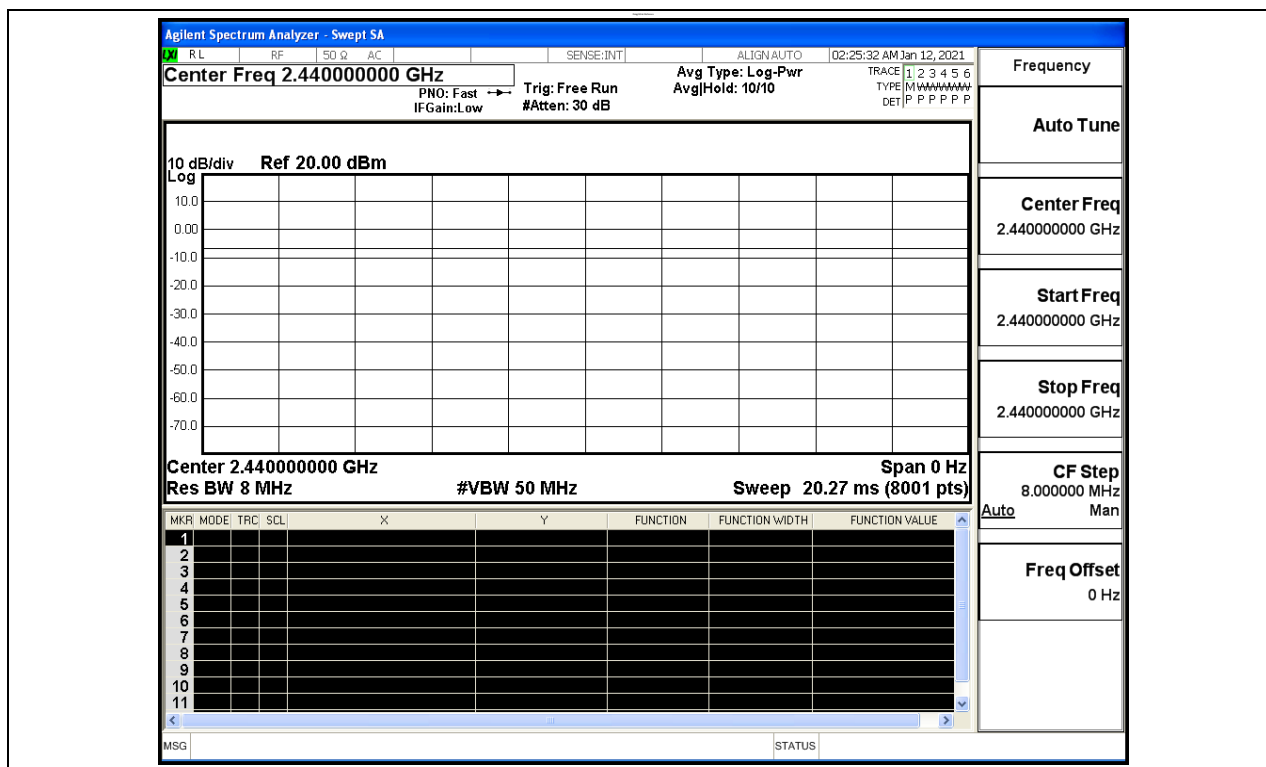
Test Model: MP-1

Environmental Conditions

Temperature:	25.3 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

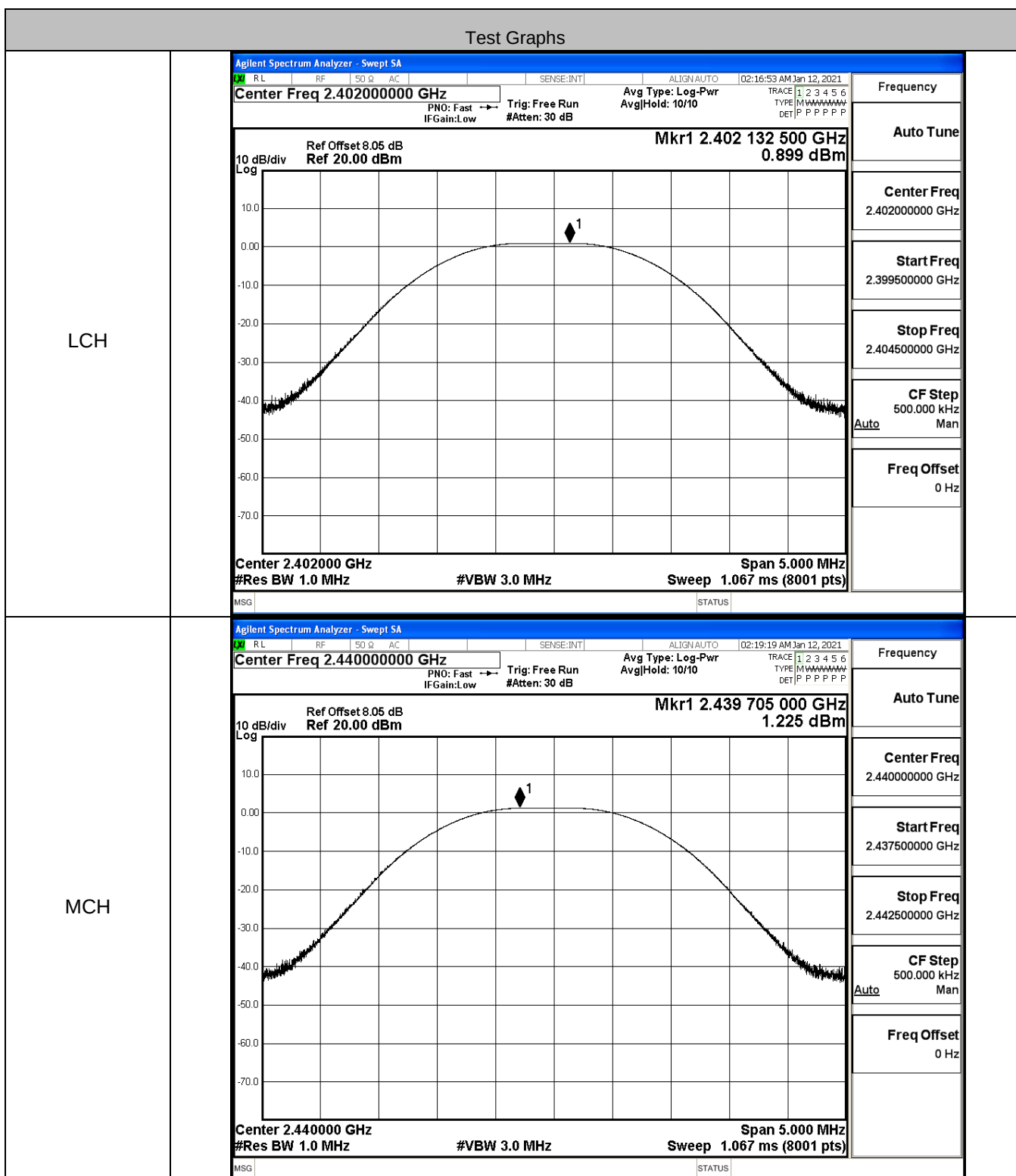
B.1 Duty Cycle

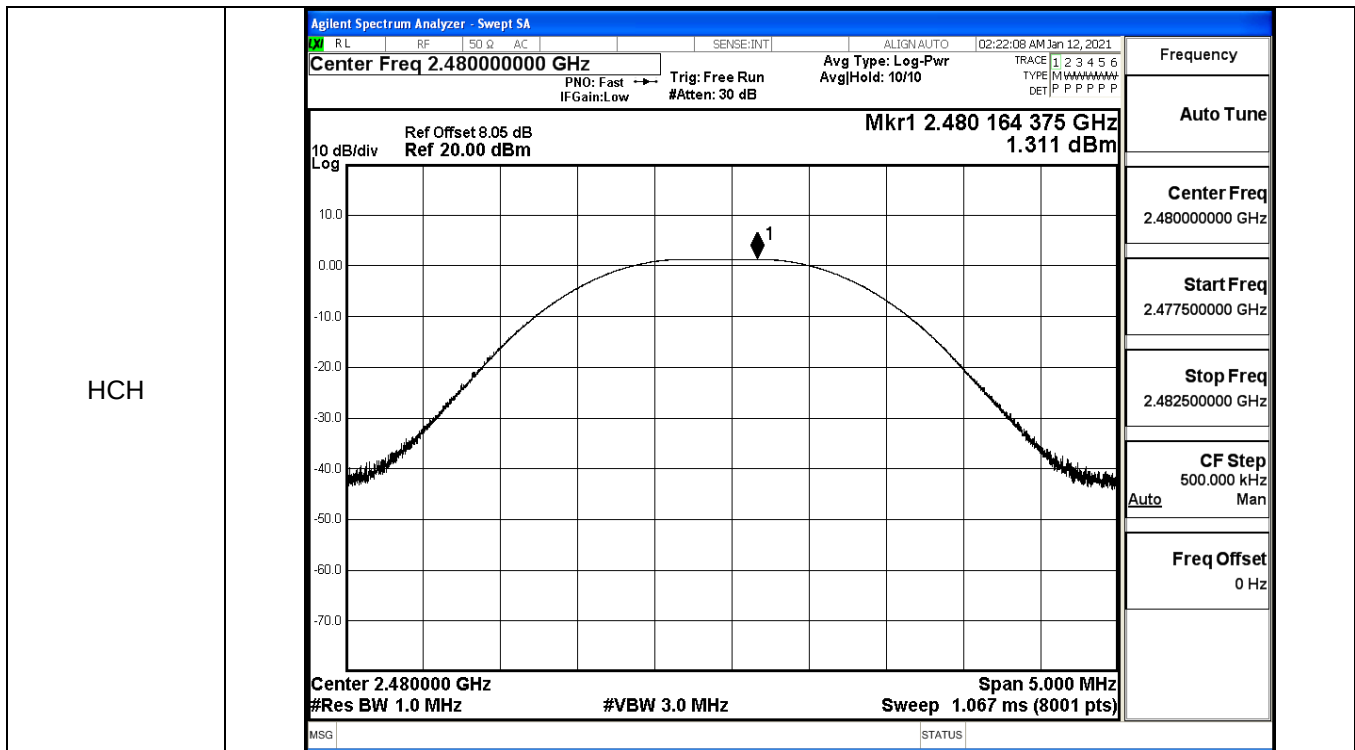
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.899	30	PASS
BT LE	MCH	1.225	30	PASS
BT LE	HCH	1.311	30	PASS



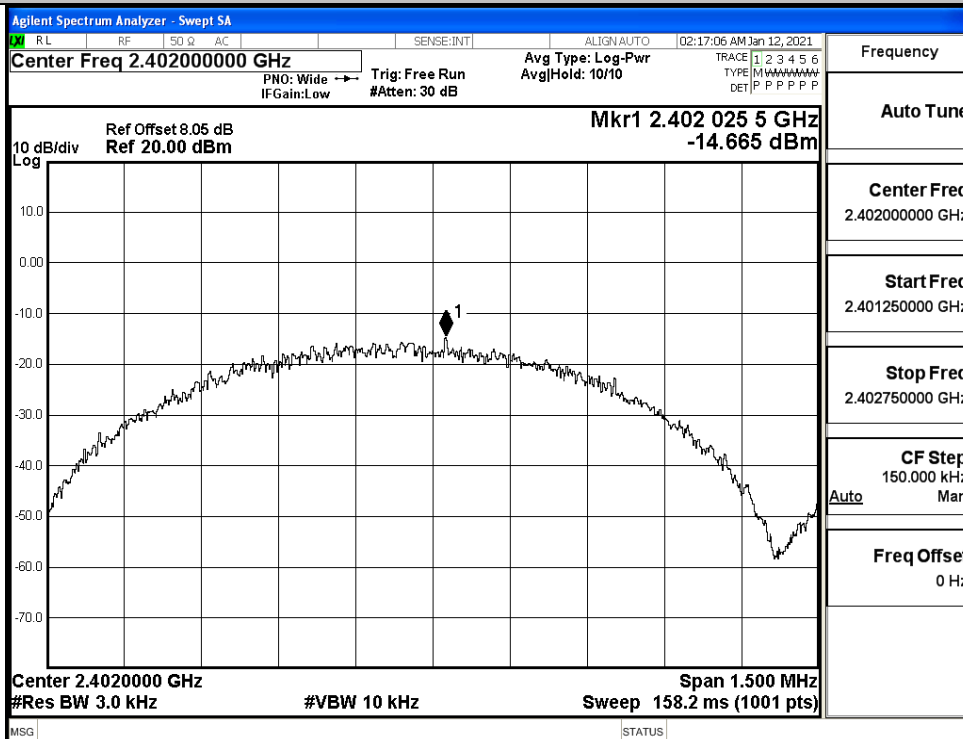


B.3 Maximum Power Spectral Density

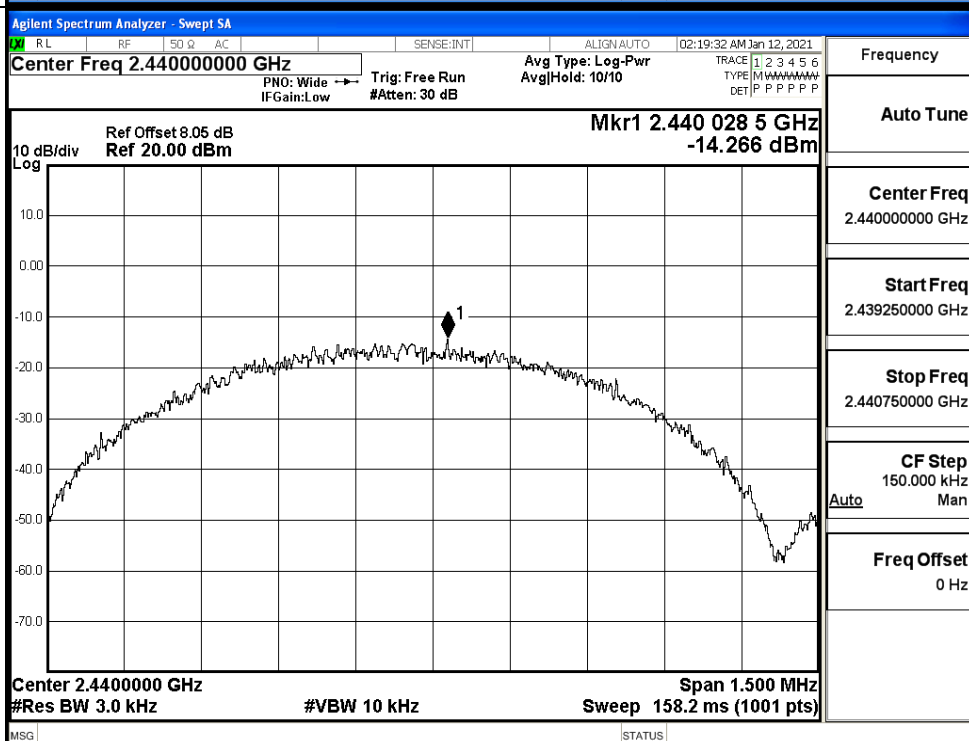
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.665	8	PASS
BT LE	MCH	-14.266	8	PASS
BT LE	HCH	-14.201	8	PASS

Test Graphs

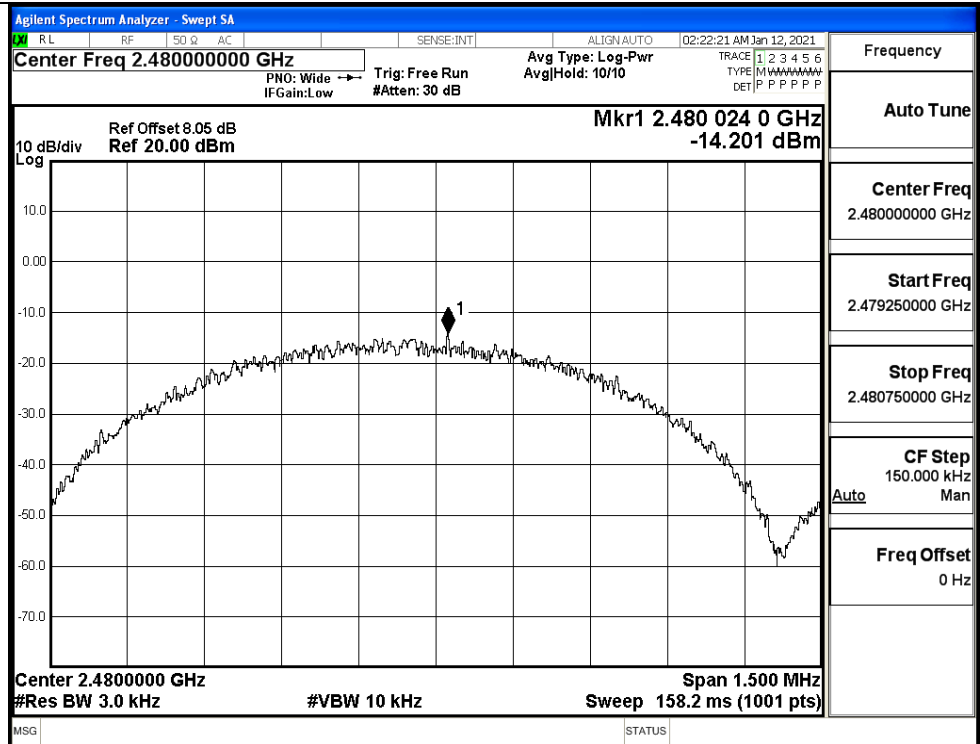
LCH



MCH



HCH

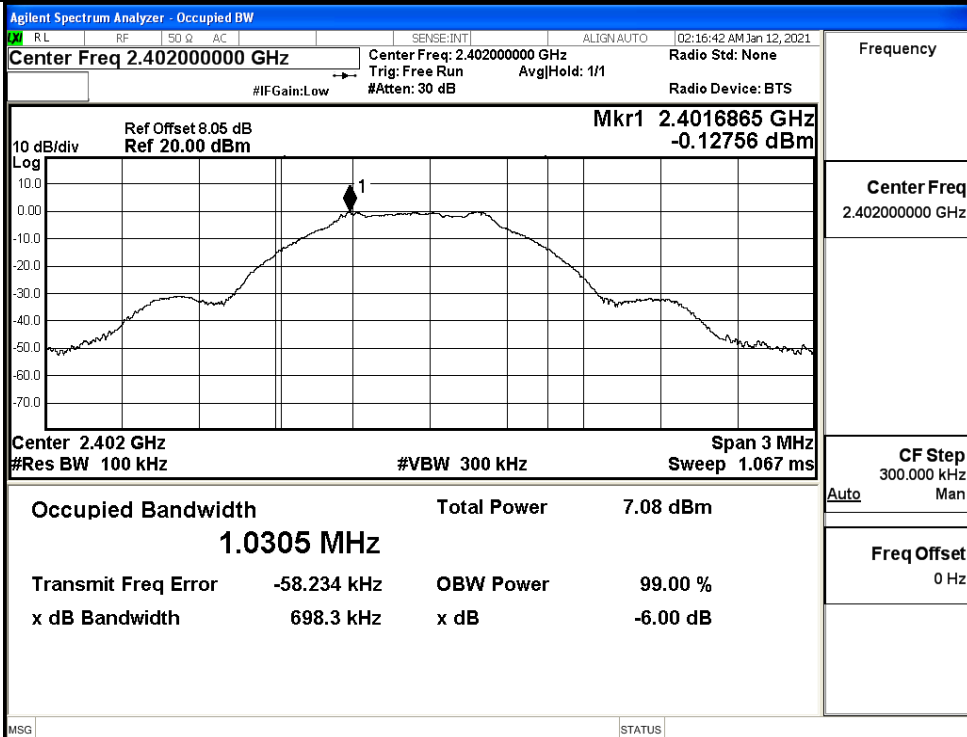


B.4 6dB Bandwidth

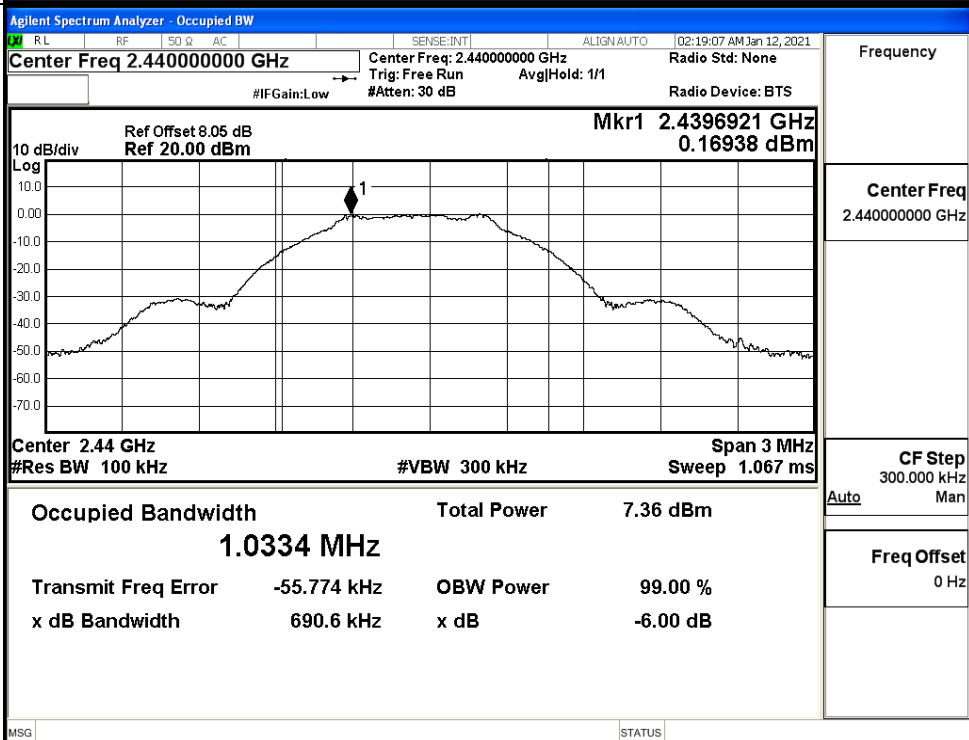
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6983	≥ 0.5	PASS
BT LE	MCH	0.6906	≥ 0.5	PASS
BT LE	HCH	0.7008	≥ 0.5	PASS

Test Graphs

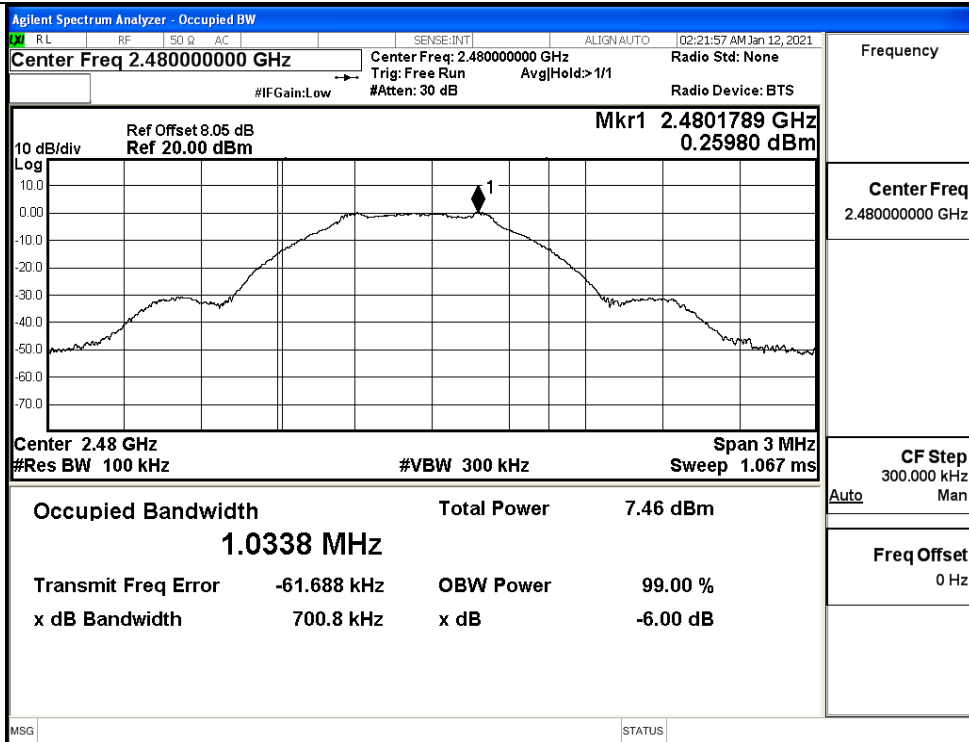
LCH



MCH



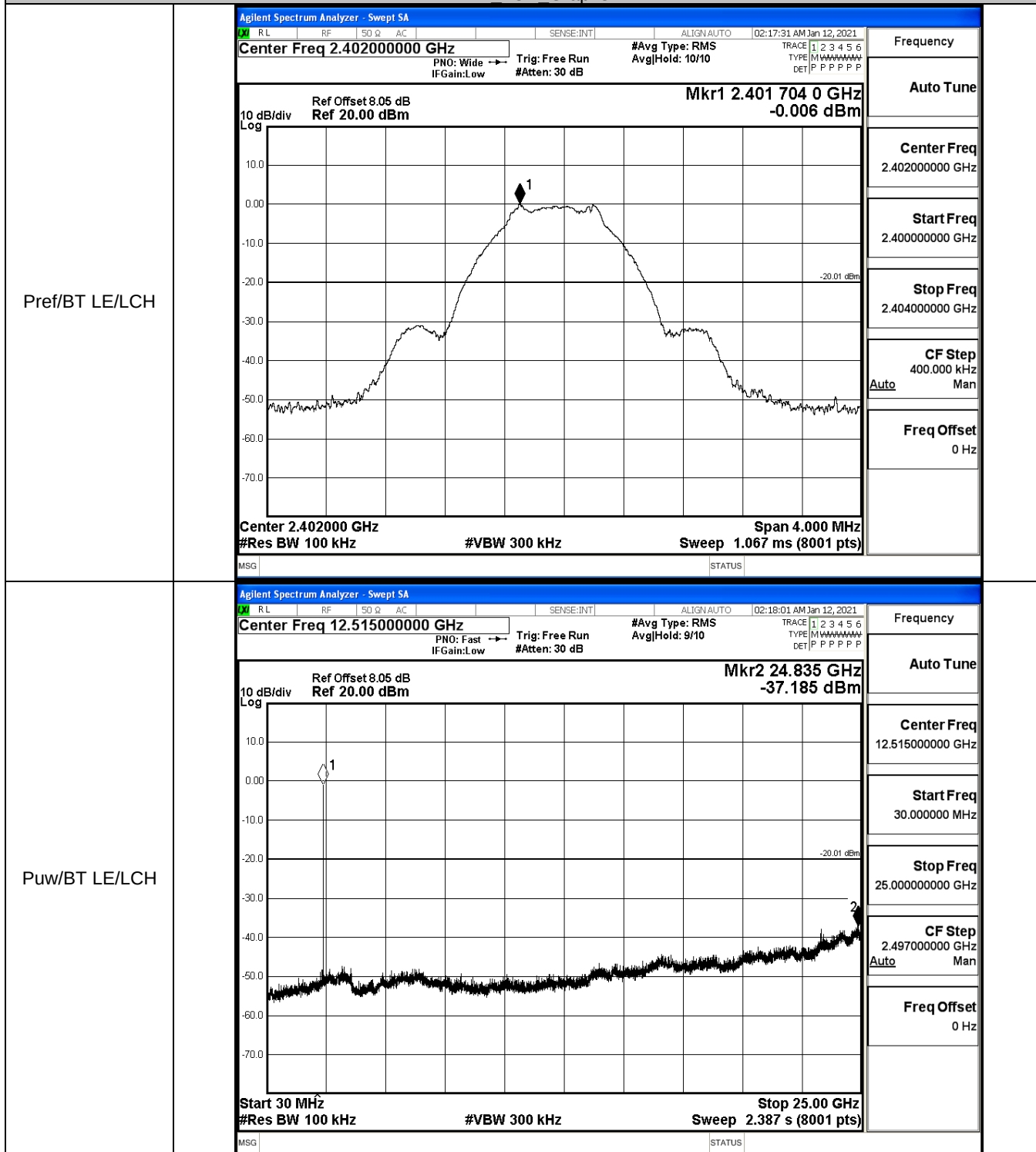
HCH



B.5 RF Conducted Spurious Emissions

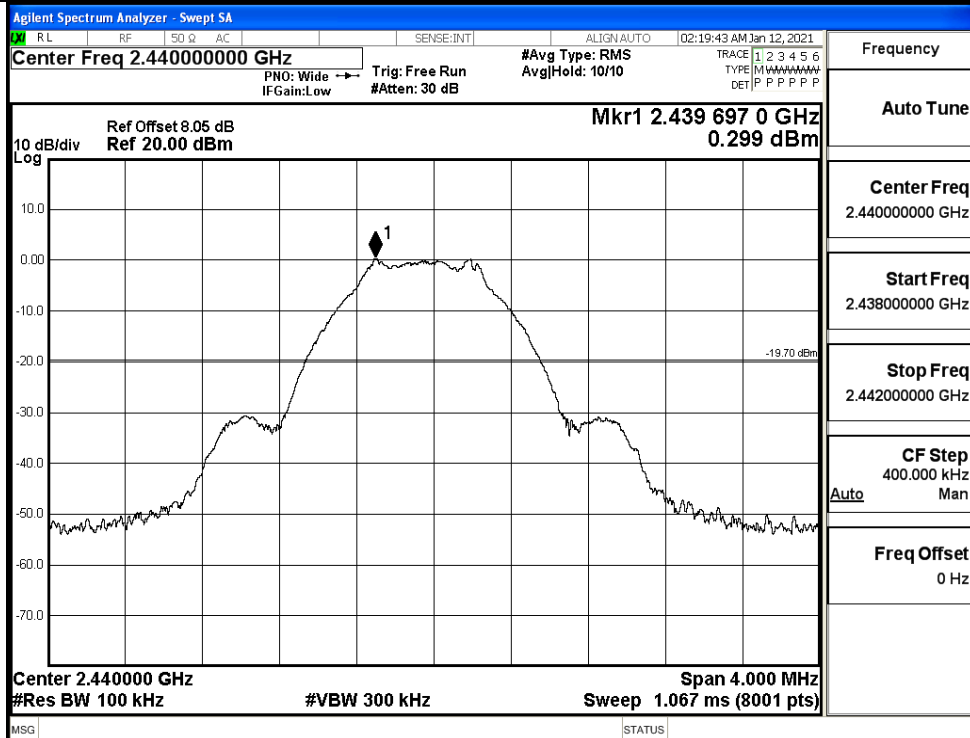
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.006	-37.185	-20.006	PASS
BT LE	MCH	0.299	-37.137	-19.701	PASS
BT LE	HCH	0.381	-37.270	-19.619	PASS

BT LE LCH Graphs

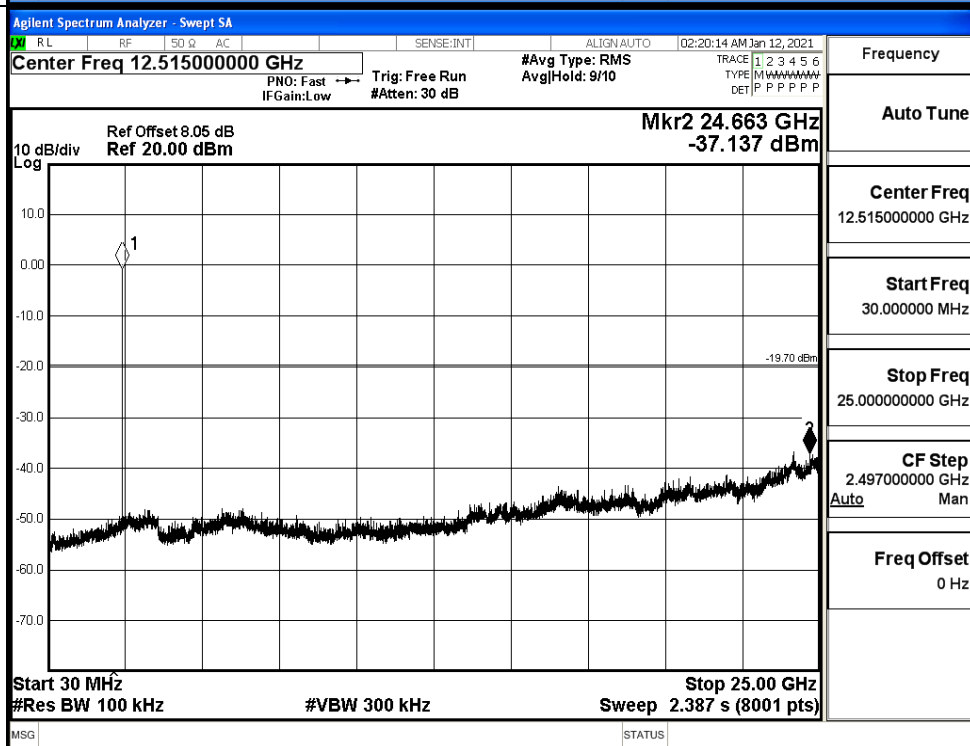


BT LE MCH Graphs

Pref/BT LE/MCH

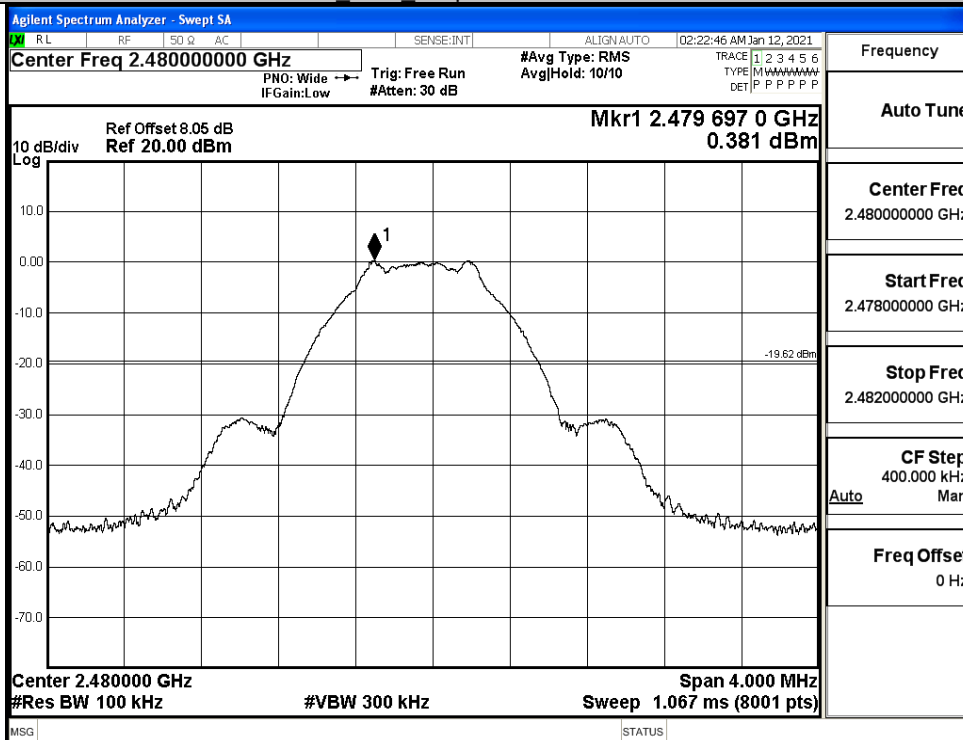


Puw/BT LE/MCH

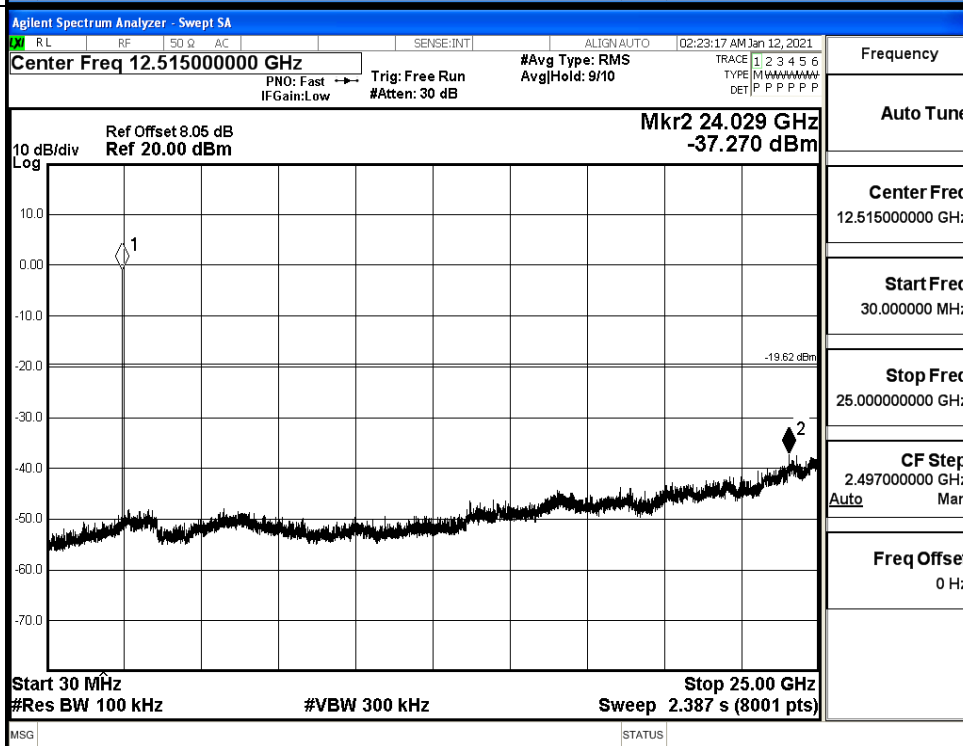


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

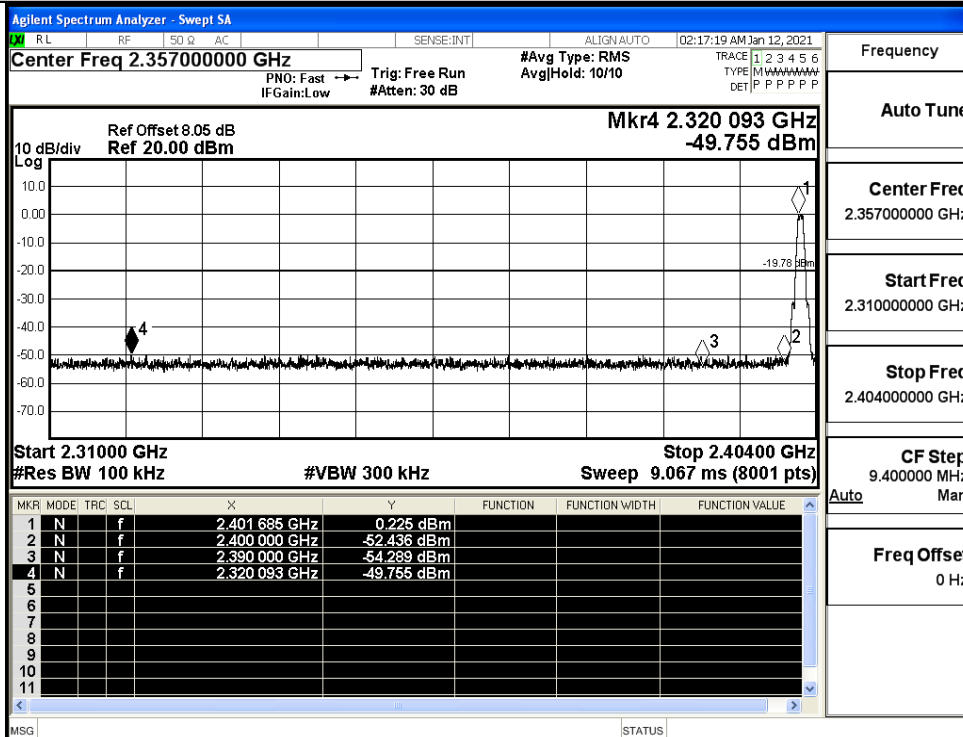


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.225	-49.755	-19.78	PASS
BT LE	HCH	0.608	-49.705	-19.39	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

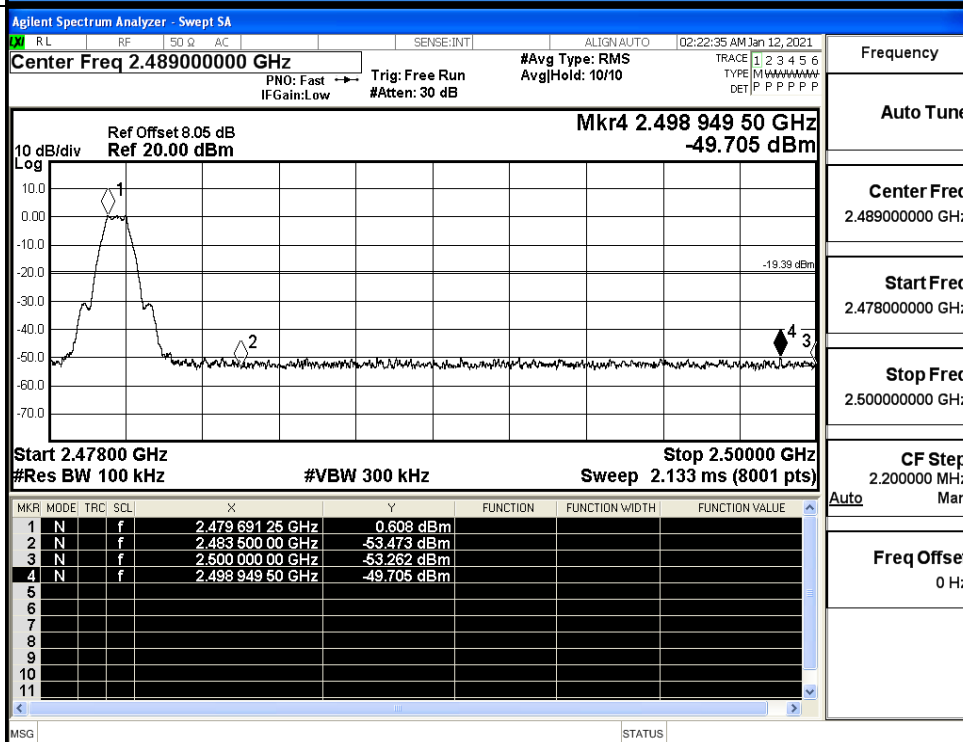
9.400000 MHz

Auto

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

Auto

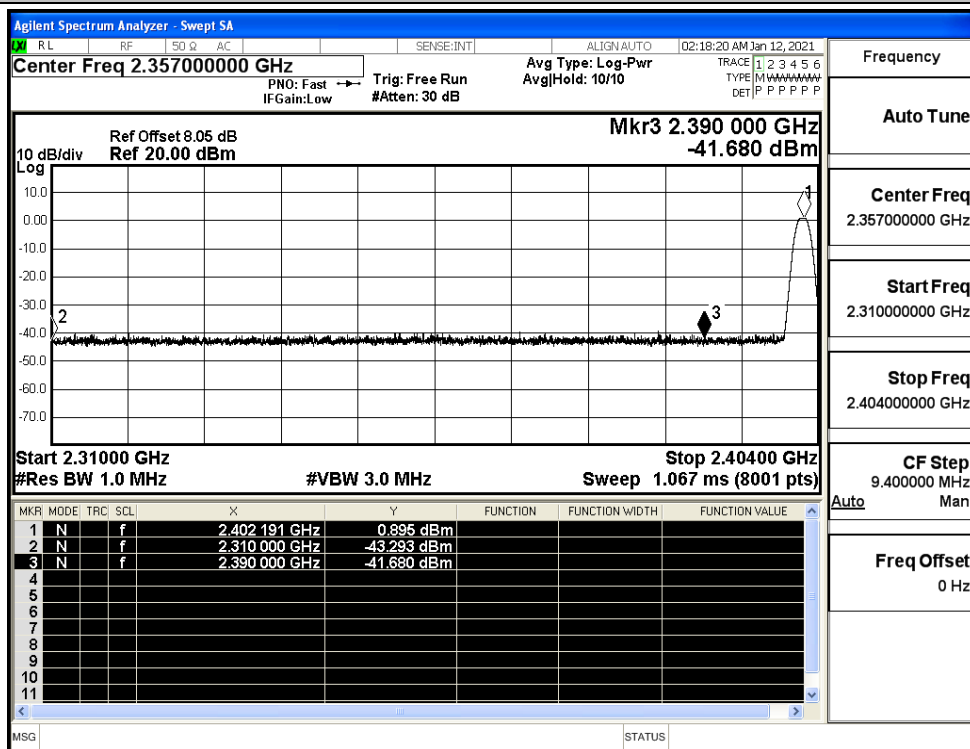
Freq Offset

0 Hz

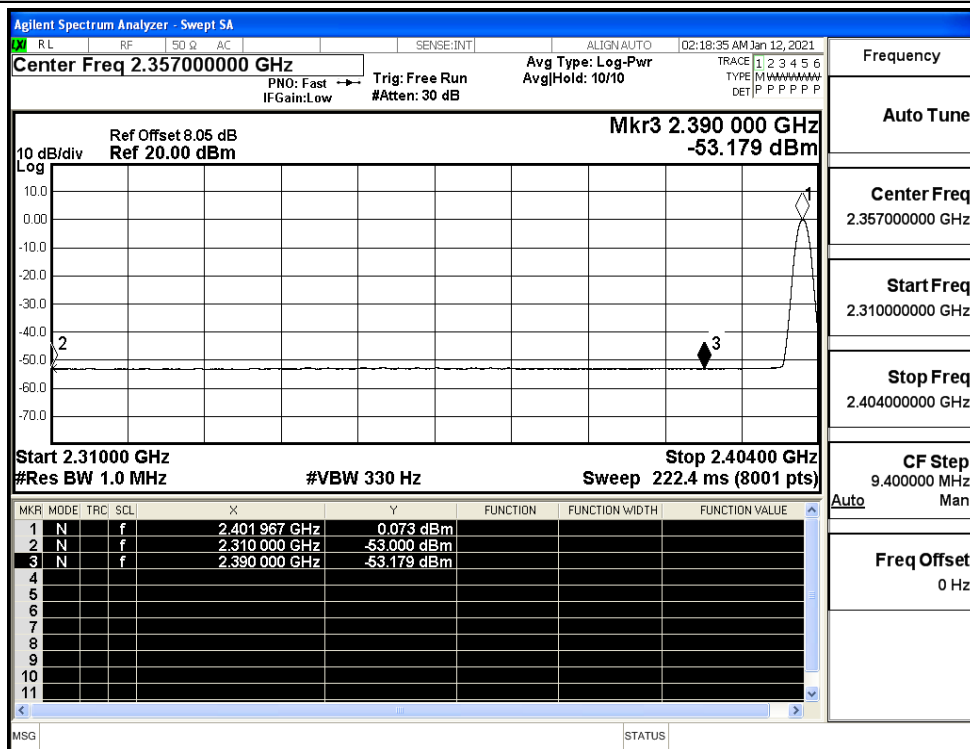
B.7 Restrict-band band-edge measurements

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	-43.29	2.0	0	53.97	PEAK	74	PASS
		Ant1	2310.0	-53.00	2.0	0	44.26	AV	54	PASS
		Ant1	2390.0	-41.68	2.0	0	55.58	PEAK	74	PASS
		Ant1	2390.0	-53.18	2.0	0	44.08	AV	54	PASS
	2480	Ant1	2483.5	-43.45	2.0	0	53.81	PEAK	74	PASS
		Ant1	2483.5	-52.43	2.0	0	44.83	AV	54	PASS
		Ant1	2500.0	-43.44	2.0	0	53.82	PEAK	74	PASS
		Ant1	2500.0	-52.52	2.0	0	44.74	AV	54	PASS

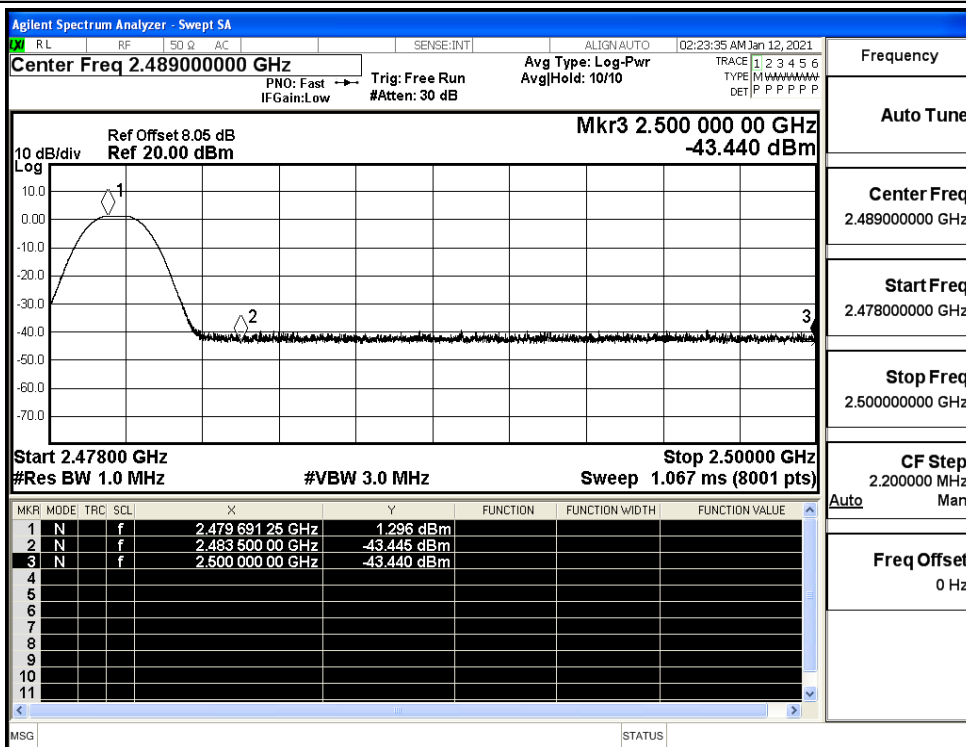
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

