

Appendix B

RF Test Data for BT V4.0(BLE) (Conducted Measurement)

Product Name: MOBILE PHONE

Trade Mark: CELLUTION

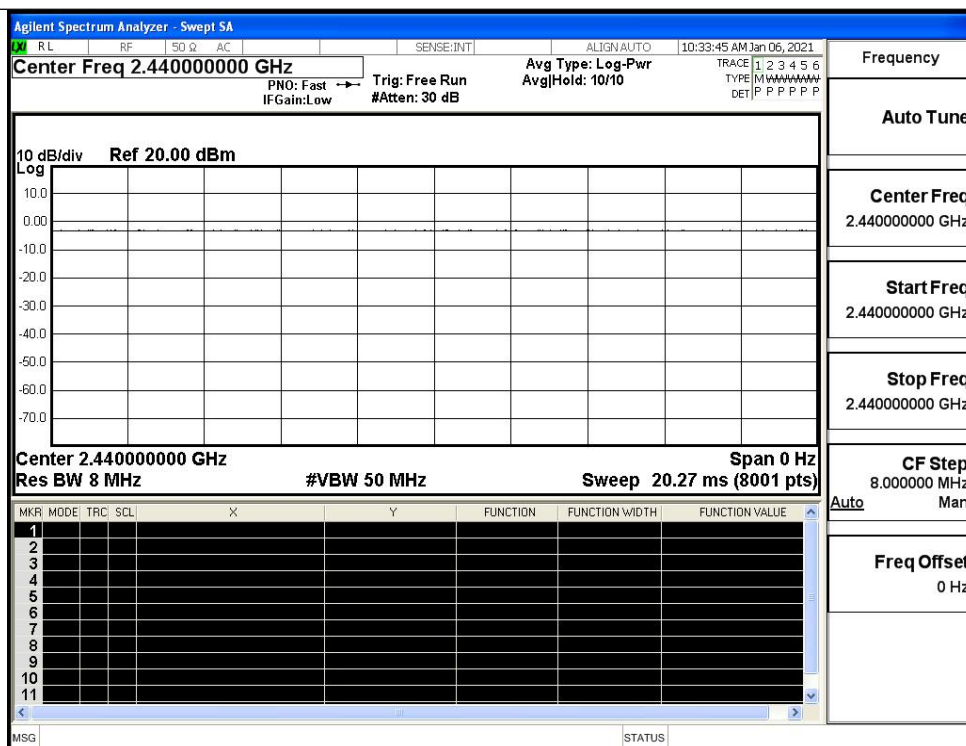
Test Model: PADUA

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

B.1 Duty Cycle

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

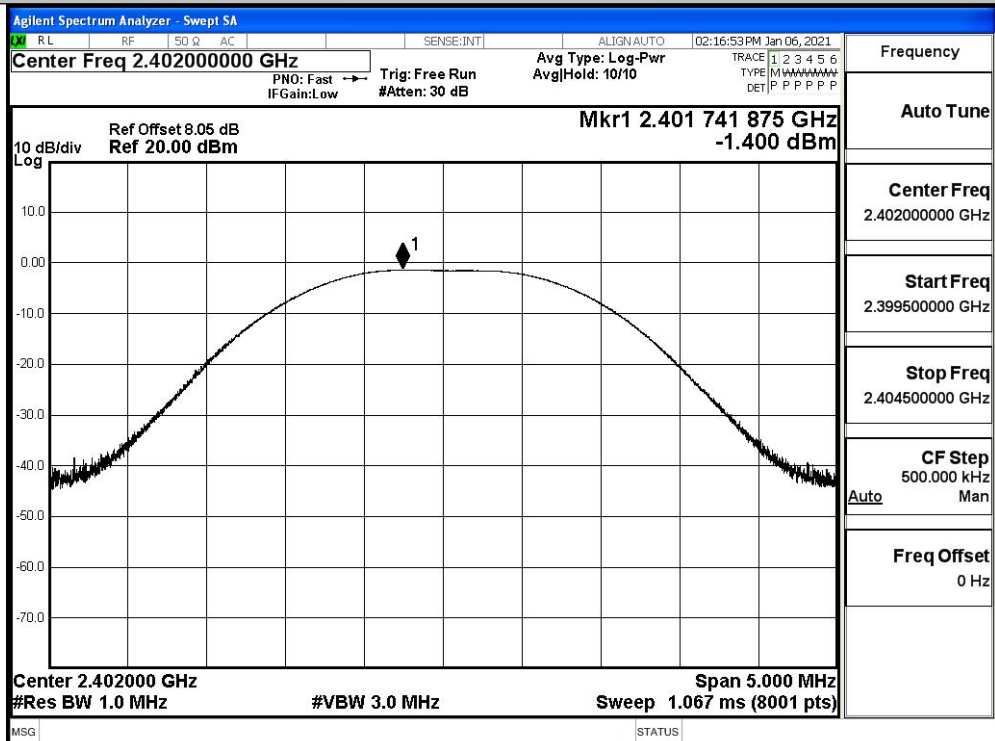


B.2 Maximum Conducted Peak Output Power

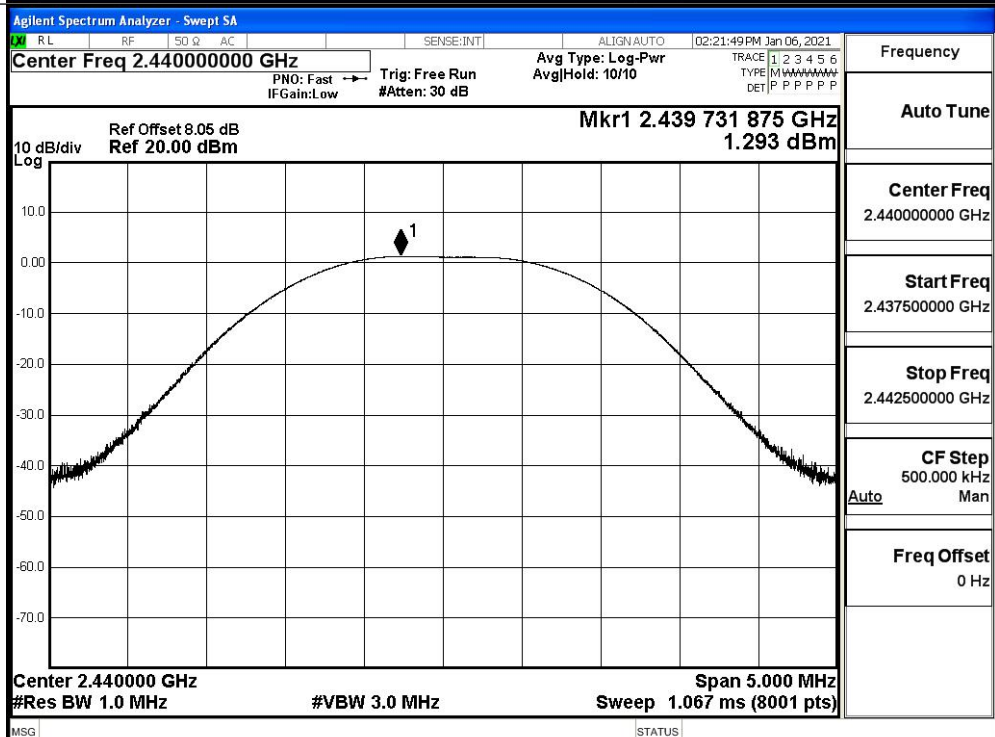
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.400	30	PASS
BT LE	MCH	1.293	30	PASS
BT LE	HCH	2.663	30	PASS

Test Graphs

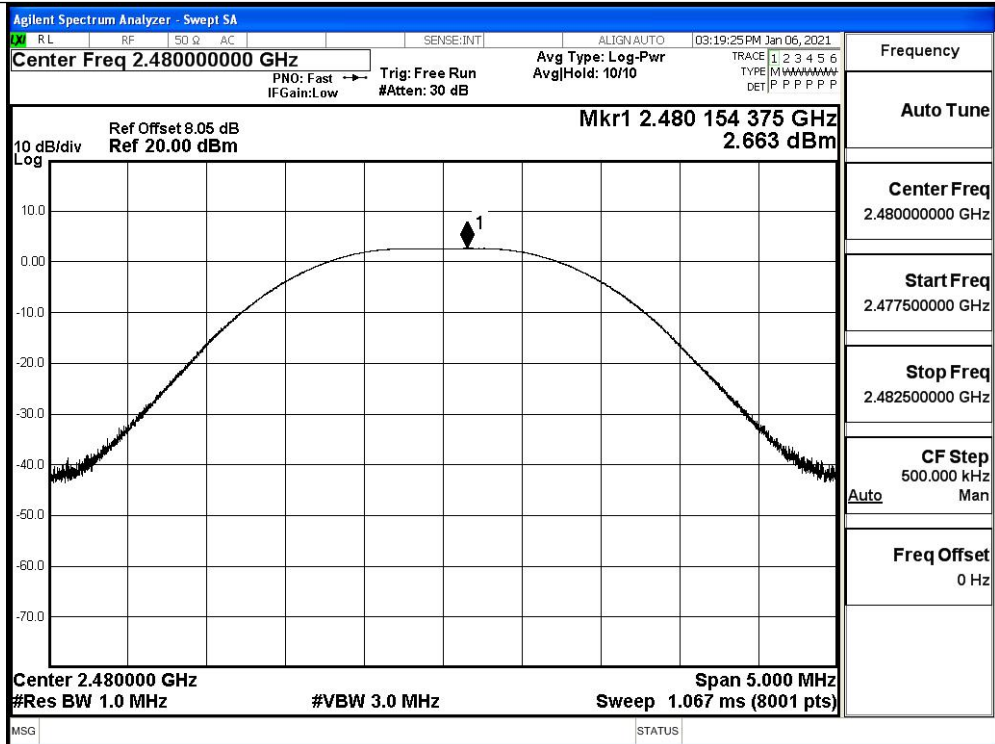
LCH



MCH



HCH

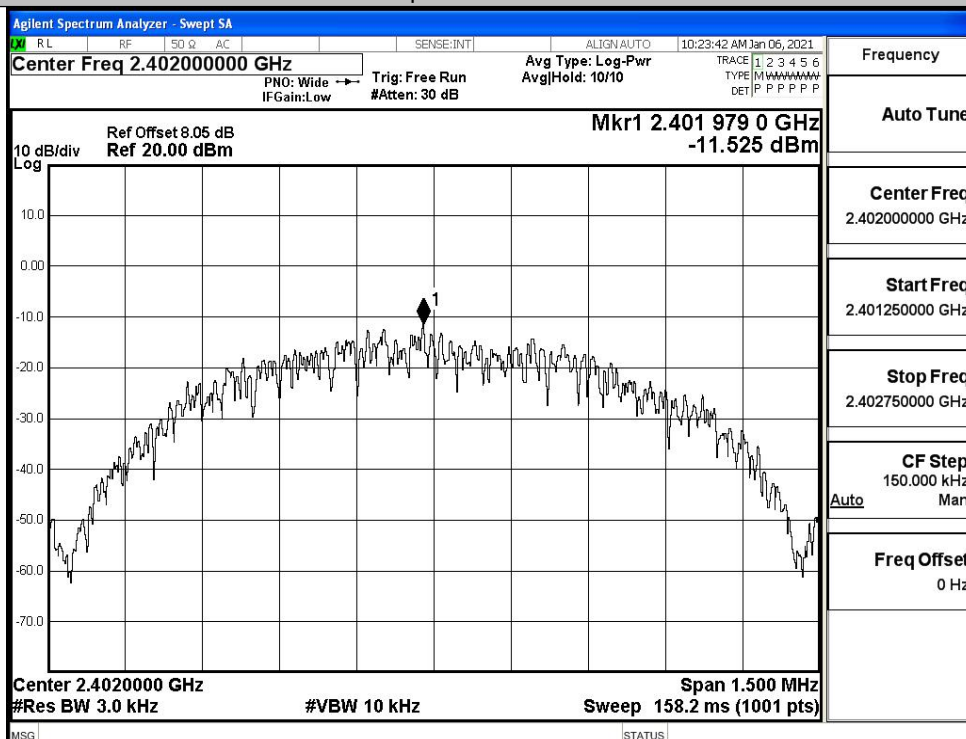


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.525	8	PASS
BT LE	MCH	-10.067	8	PASS
BT LE	HCH	-11.551	8	PASS

Test Graphs

LCH

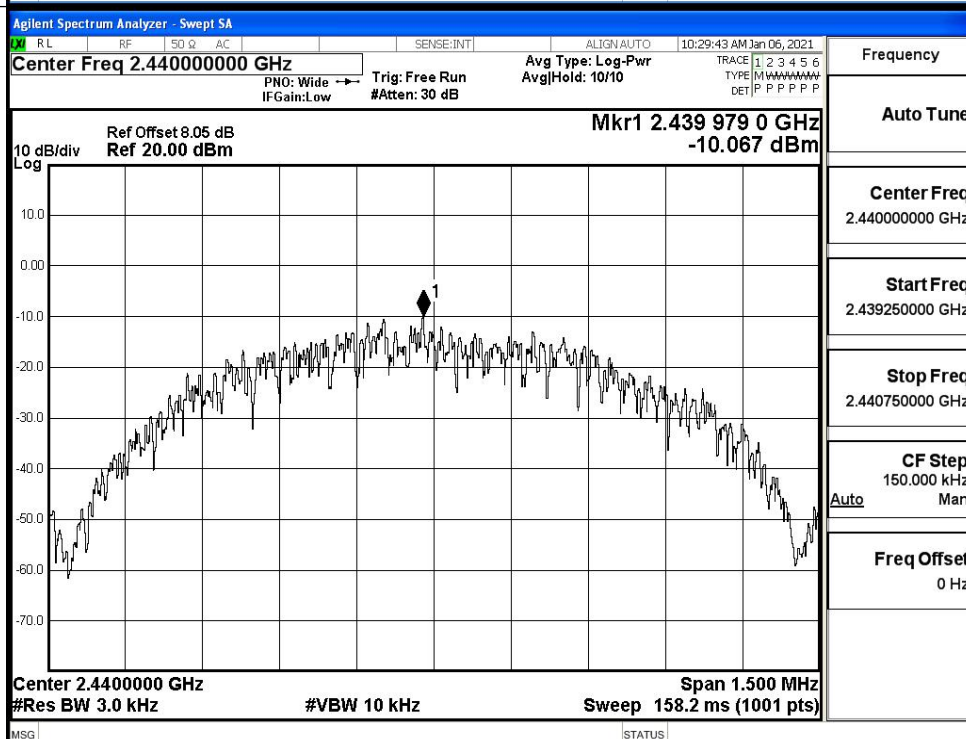


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

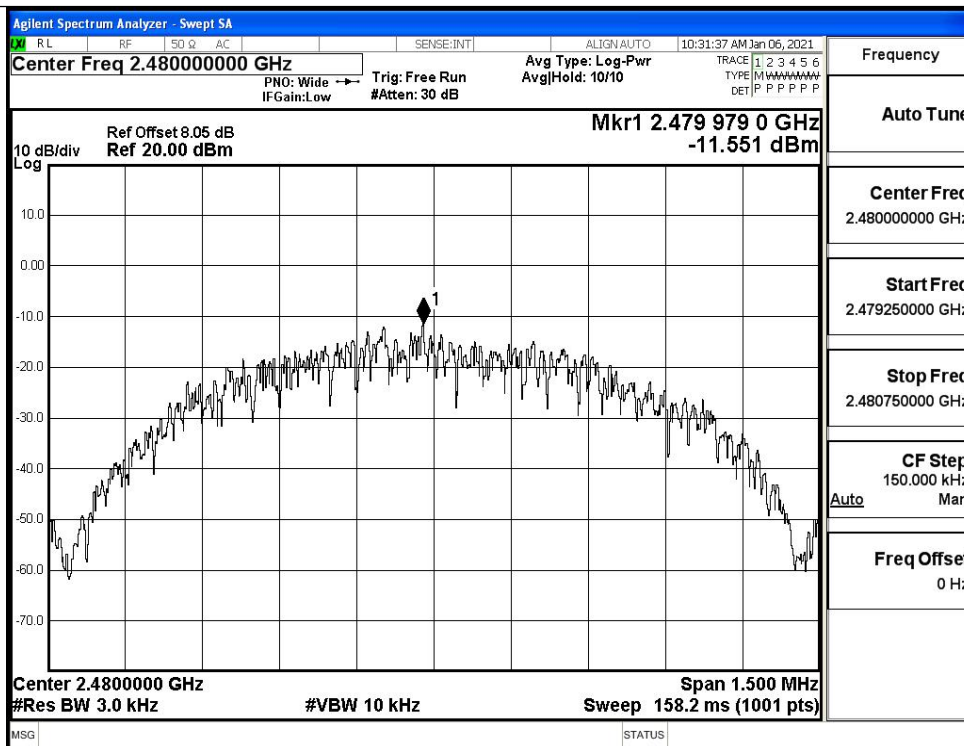


Frequency

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

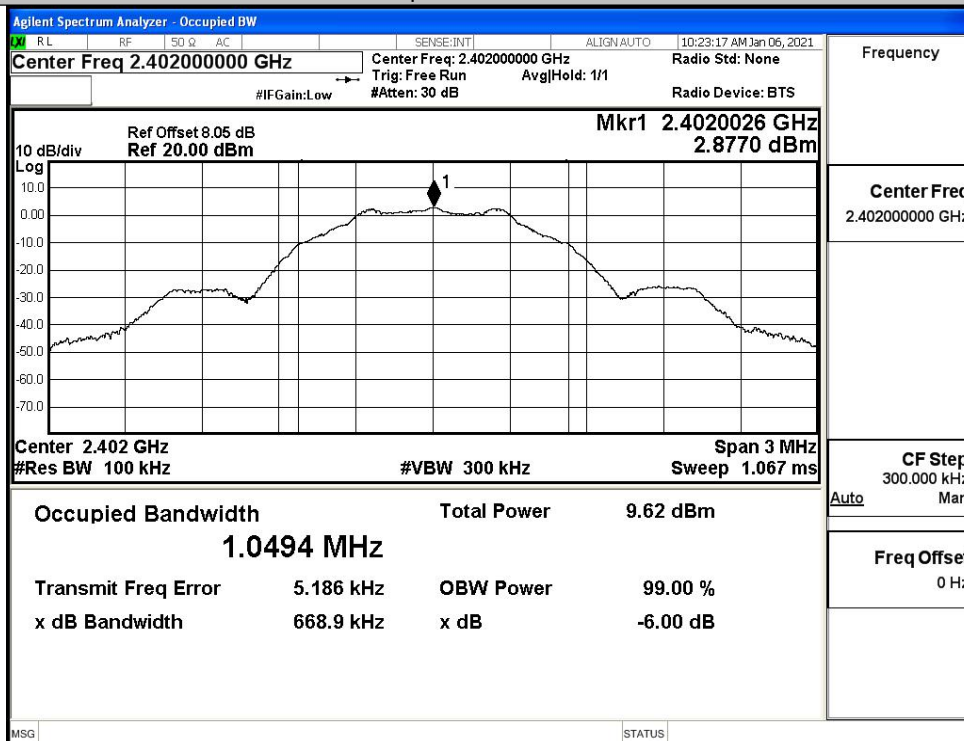


B.4 6dB Bandwidth

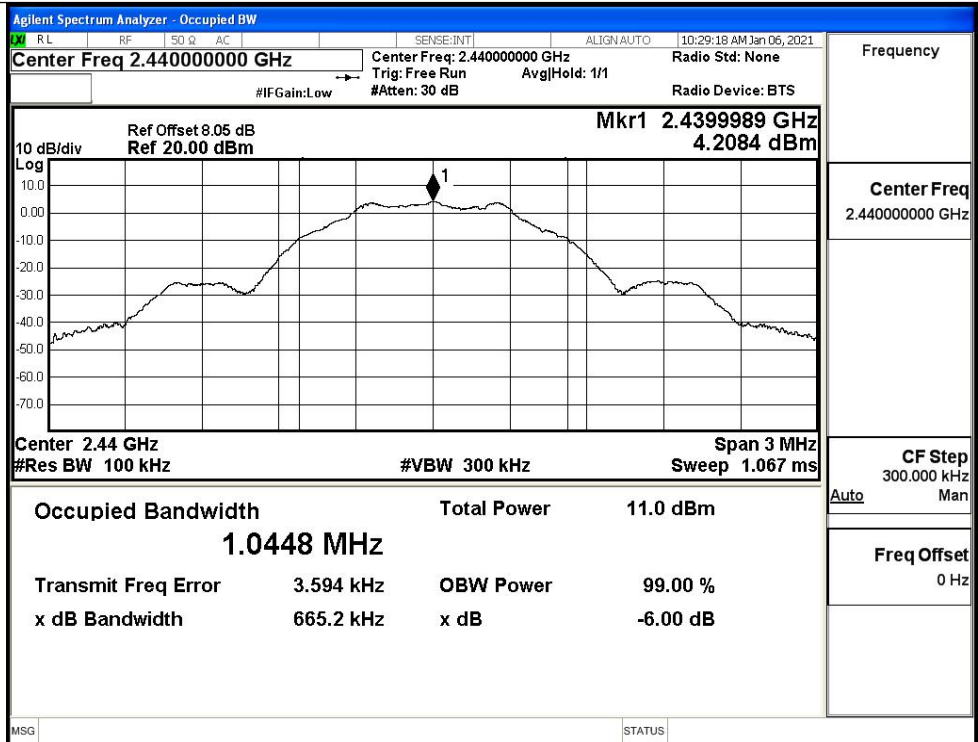
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6689	≥ 0.5	PASS
BT LE	MCH	0.6652	≥ 0.5	PASS
BT LE	HCH	0.6709	≥ 0.5	PASS

Test Graphs

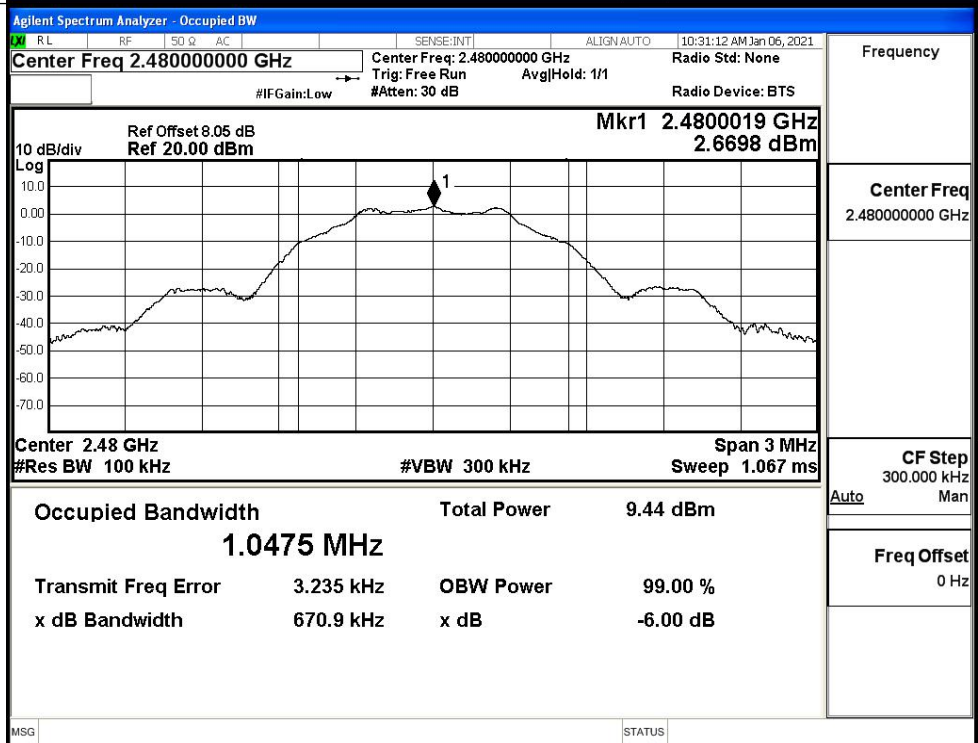
LCH



MCH



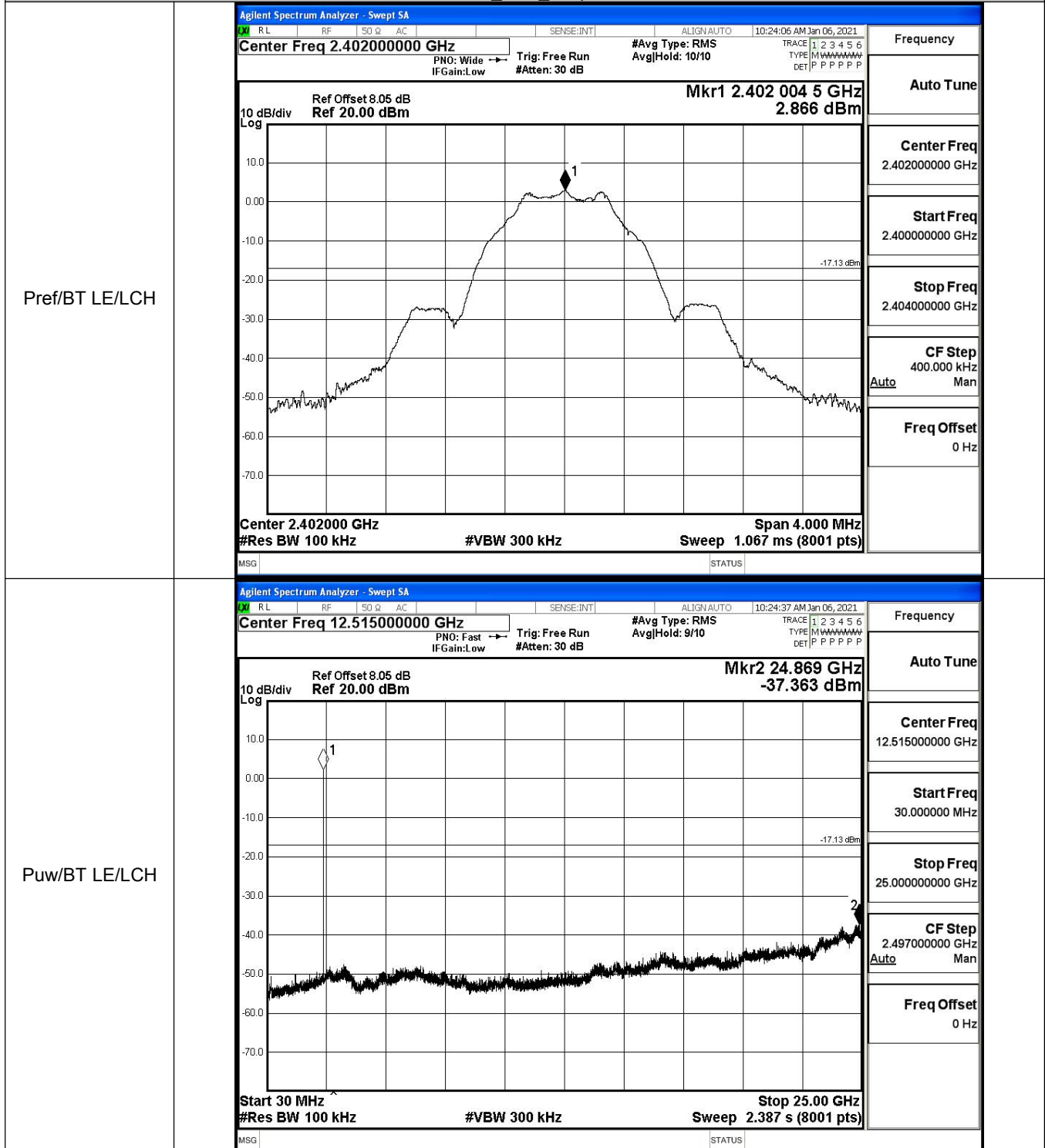
HCH



B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.866	-34.780	-22.024	PASS
BT LE	MCH	4.228	-36.908	-19.326	PASS
BT LE	HCH	2.688	-37.374	-17.900	PASS

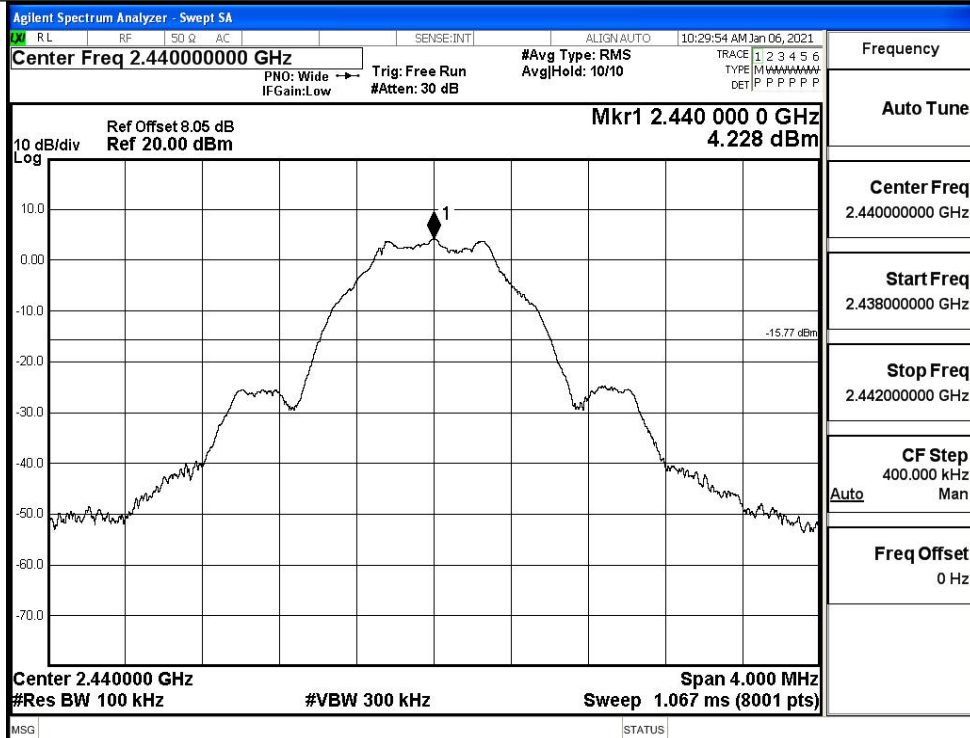
BT LE_LCH_Graphs



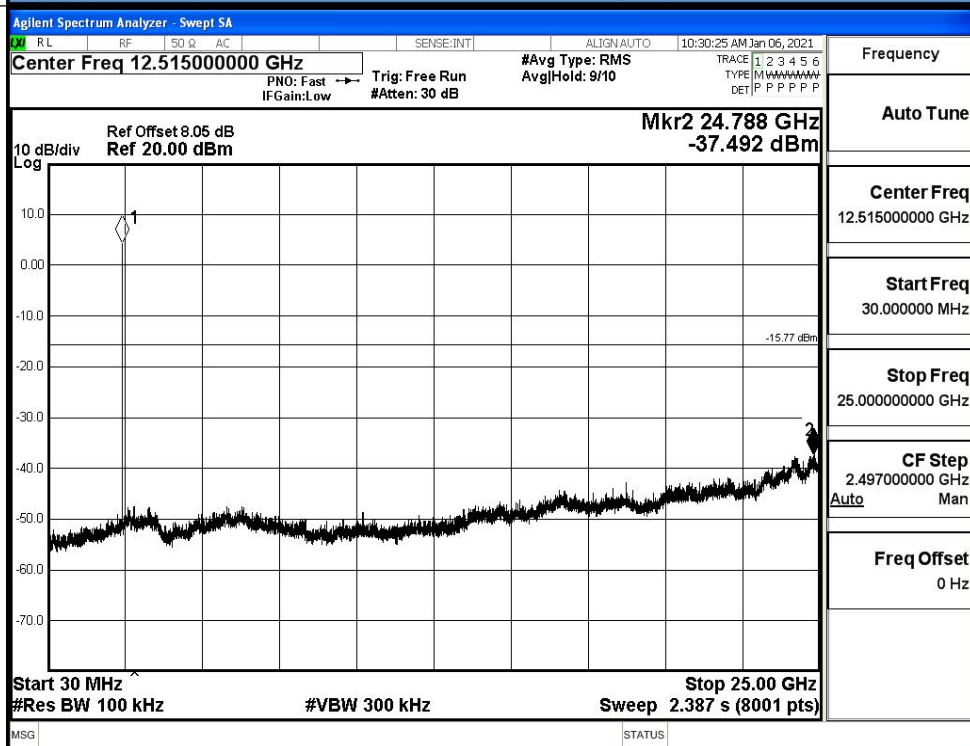
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BT LE MCH Graphs

Pref/BT LE/MCH

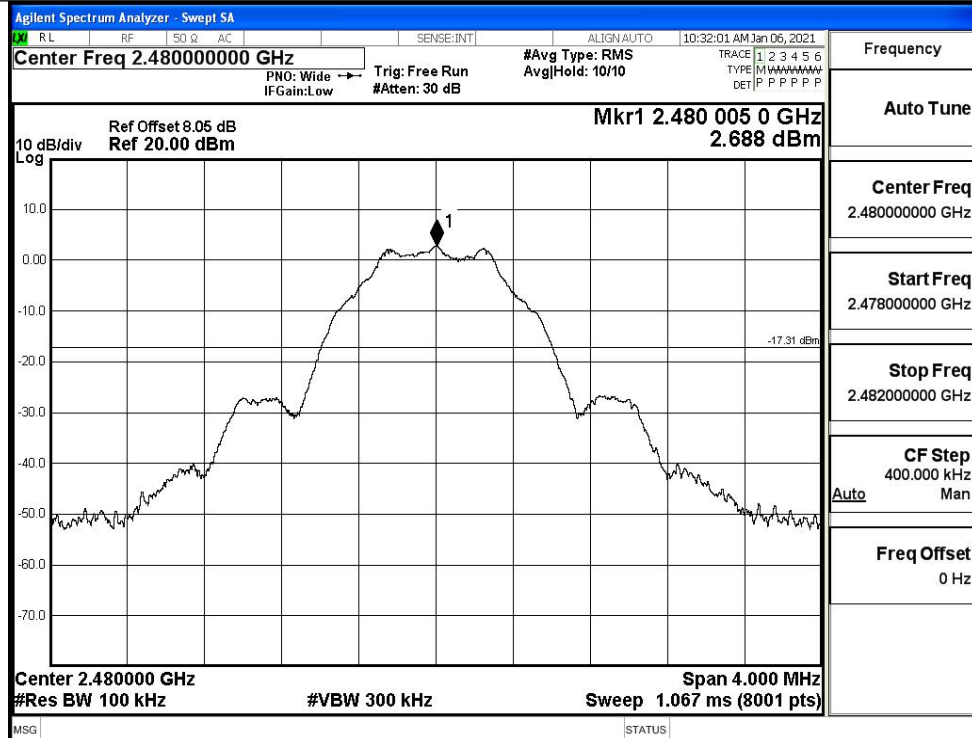


Puw/BT LE/MCH

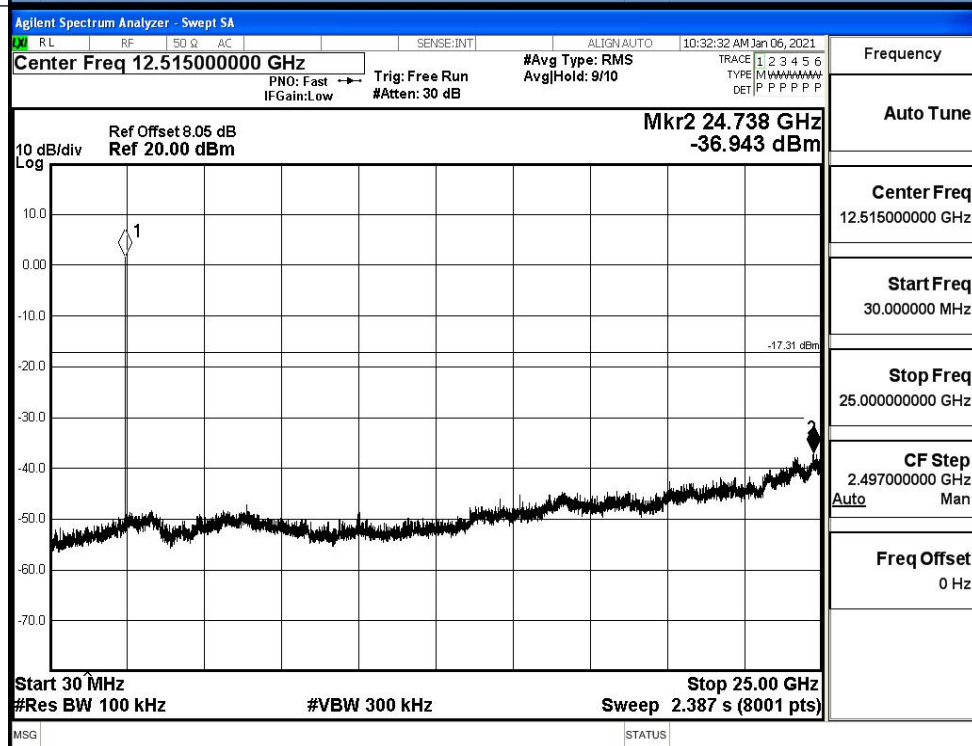


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

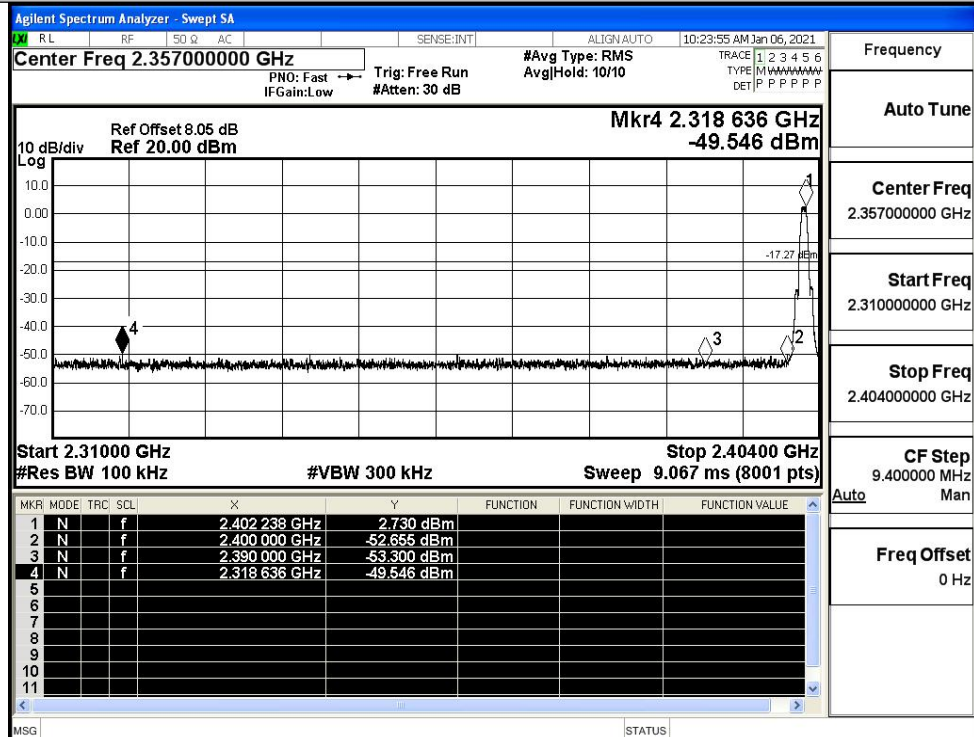


B.6 Band-edge for RF Conducted Emissions

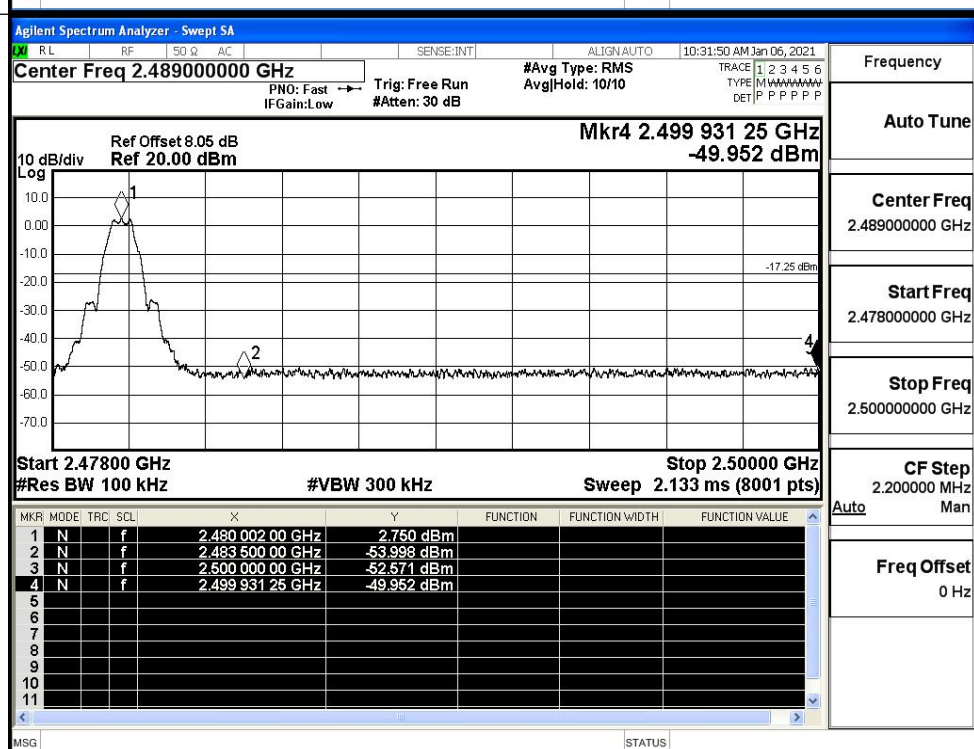
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.730	-49.546	-17.27	PASS
BT LE	HCH	2.750	-49.952	-17.25	PASS

Test Graphs

LCH



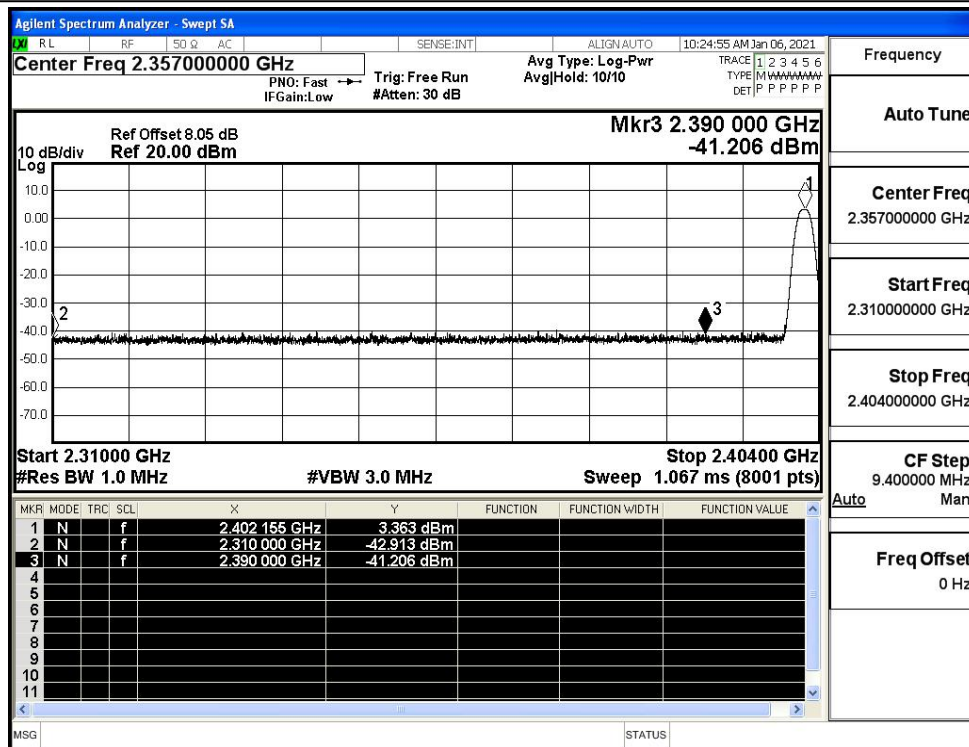
HCH



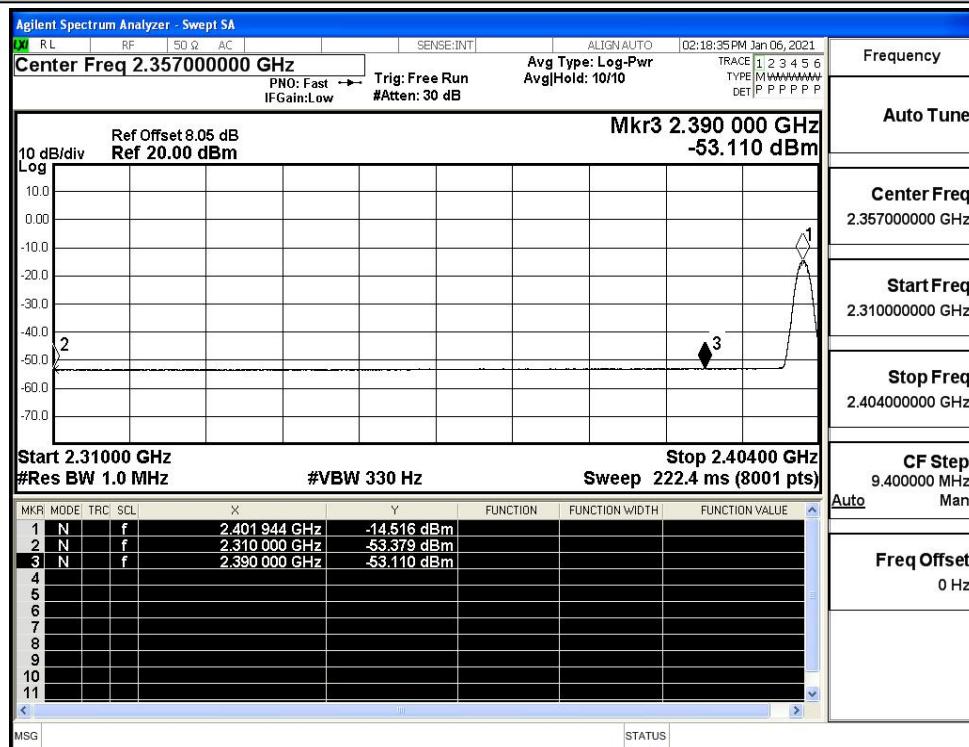
B.7 Restrict-band band-edge measurements

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	-42.91	2.0	0	54.32	PEAK	74	PASS
		Ant1	2310.0	-53.38	2.0	0	43.85	AV	54	PASS
		Ant1	2390.0	-41.21	2.0	0	56.02	PEAK	74	PASS
		Ant1	2390.0	-53.11	2.0	0	44.12	AV	54	PASS
	2480	Ant1	2483.5	-43.31	2.0	0	53.92	PEAK	74	PASS
		Ant1	2483.5	-52.53	2.0	0	44.70	AV	54	PASS
		Ant1	2500.0	-41.38	2.0	0	55.85	PEAK	74	PASS
		Ant1	2500.0	-52.42	2.0	0	44.81	AV	54	PASS

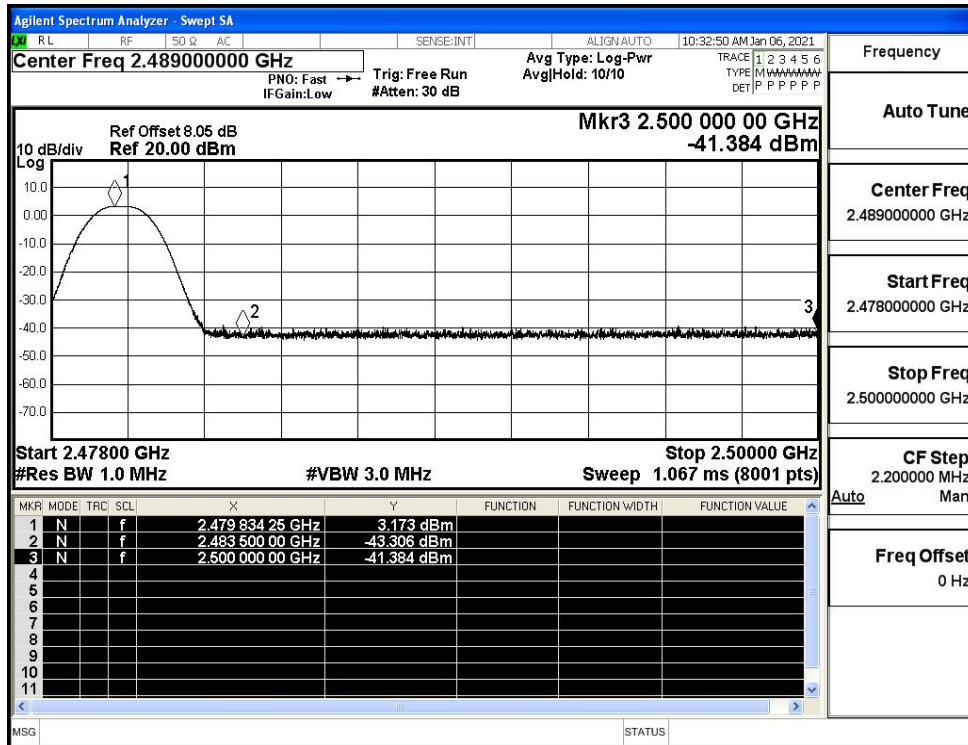
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

