

Appendix B

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: AR-BOX

Trade Mark: Firepack

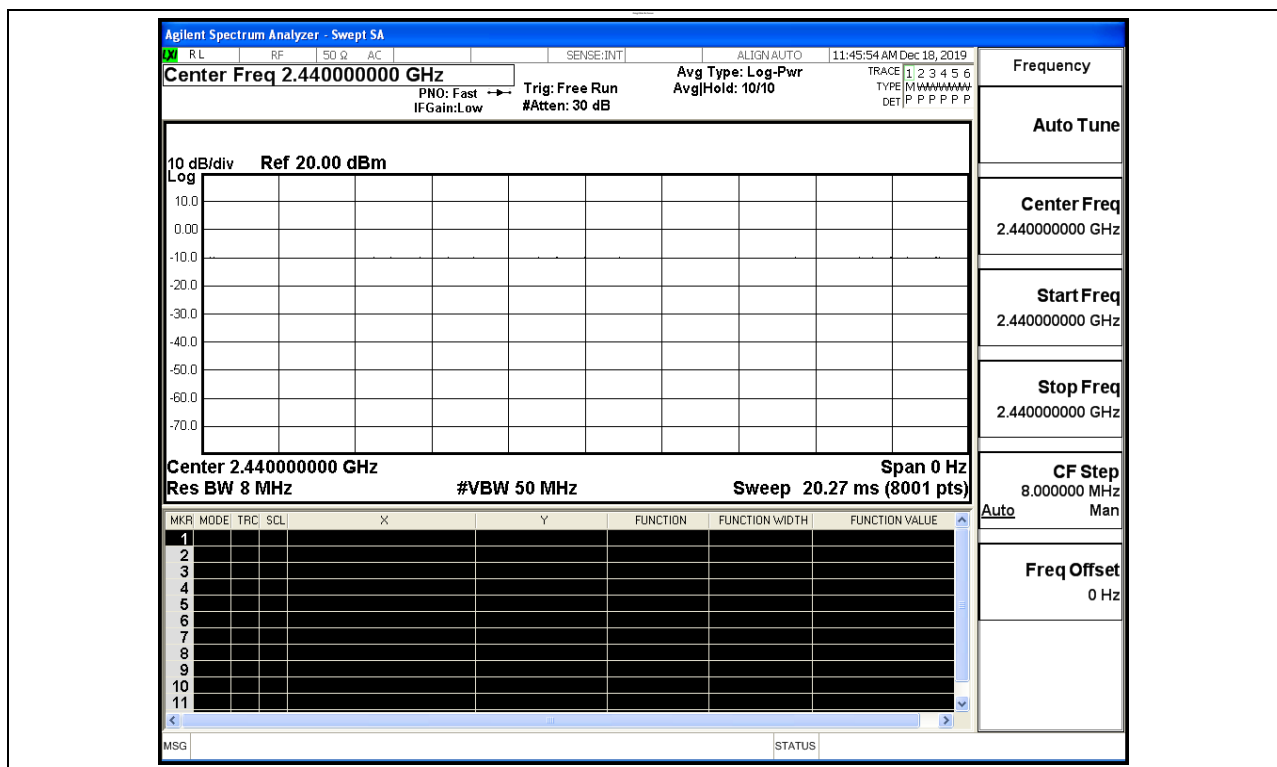
Test Model: EM_B556

Environmental Conditions

Temperature:	22.6°C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Tom.Liu

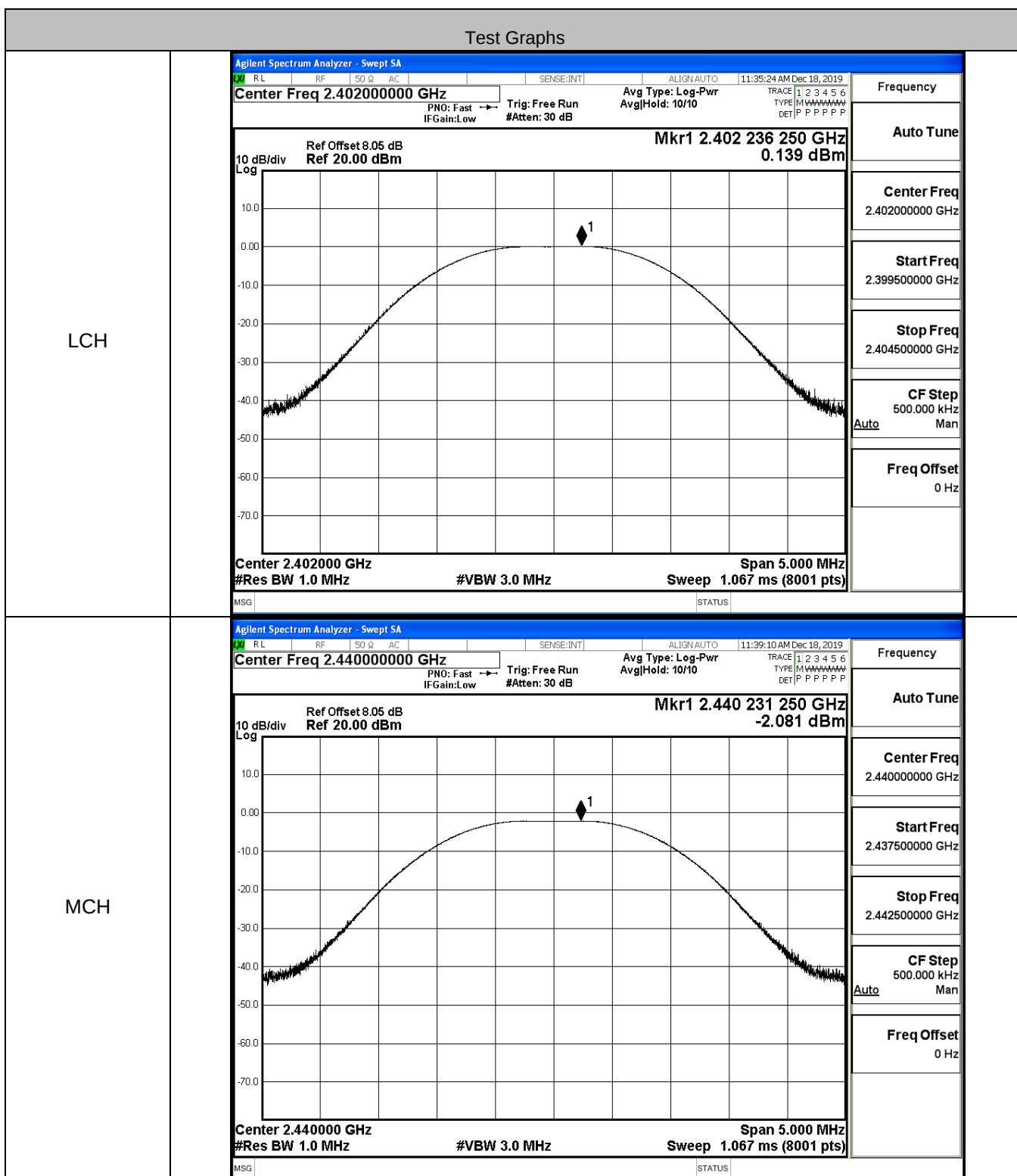
B.1 Duty Cycle

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

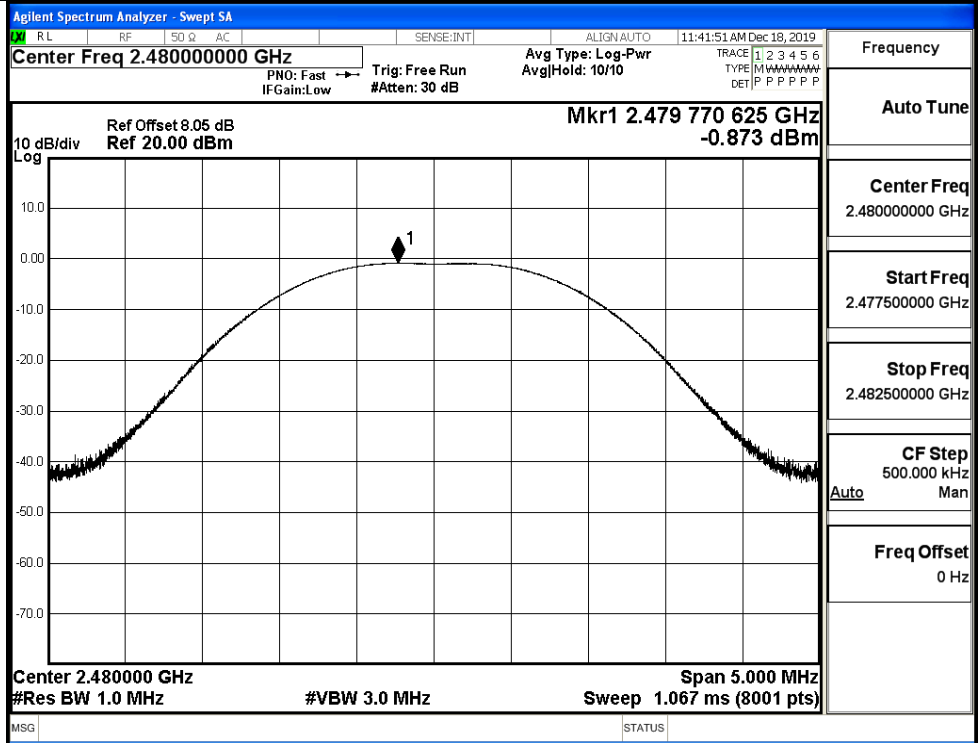


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.139	30	PASS
BT LE	MCH	-2.081	30	PASS
BT LE	HCH	-0.873	30	PASS



HCH

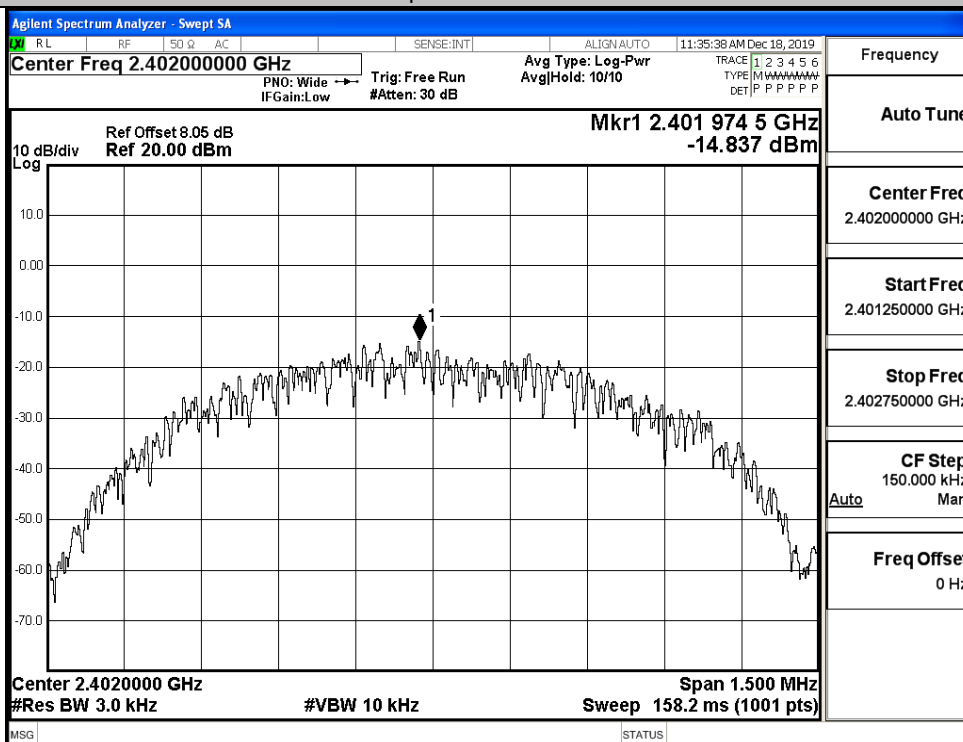


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.837	8	PASS
BT LE	MCH	-17.065	8	PASS
BT LE	HCH	-16.104	8	PASS

Test Graphs

LCH

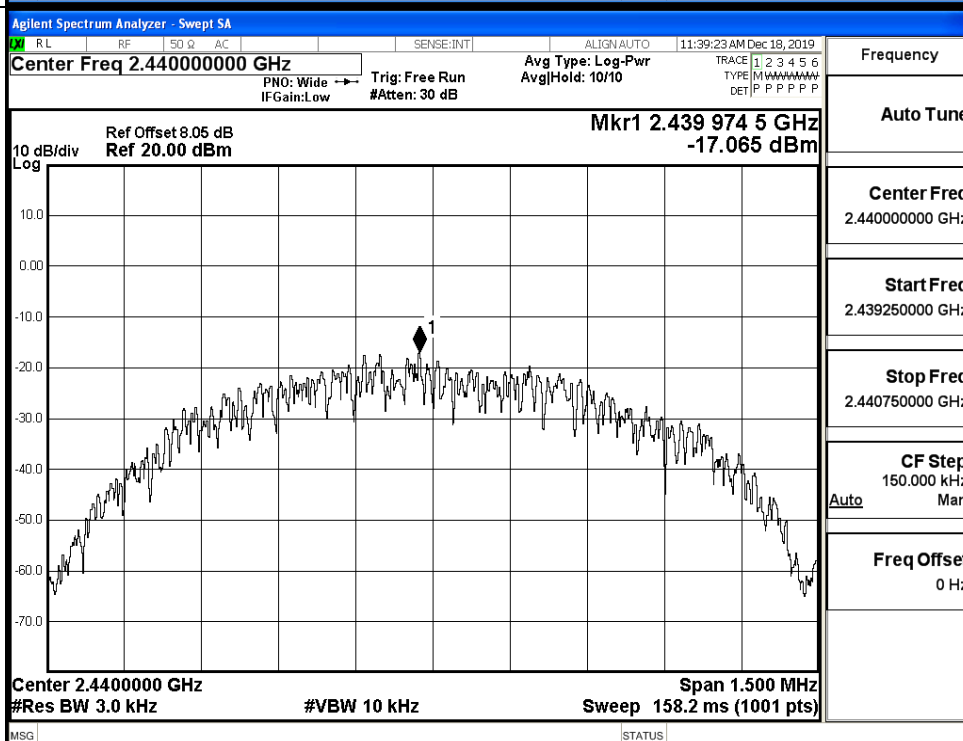


Frequency

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

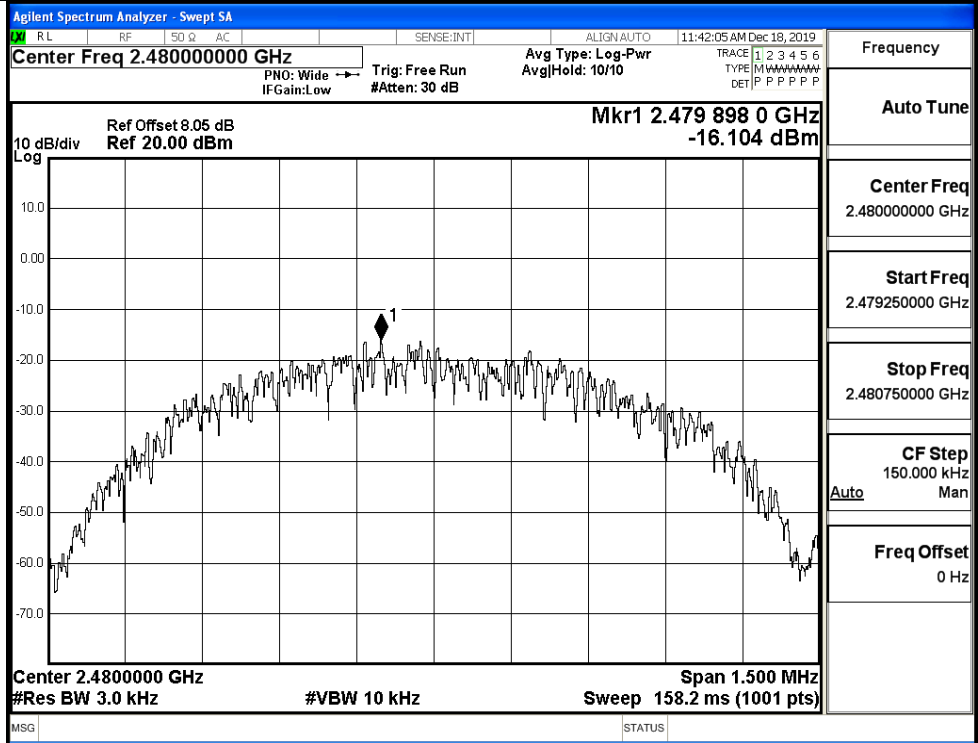


Frequency

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

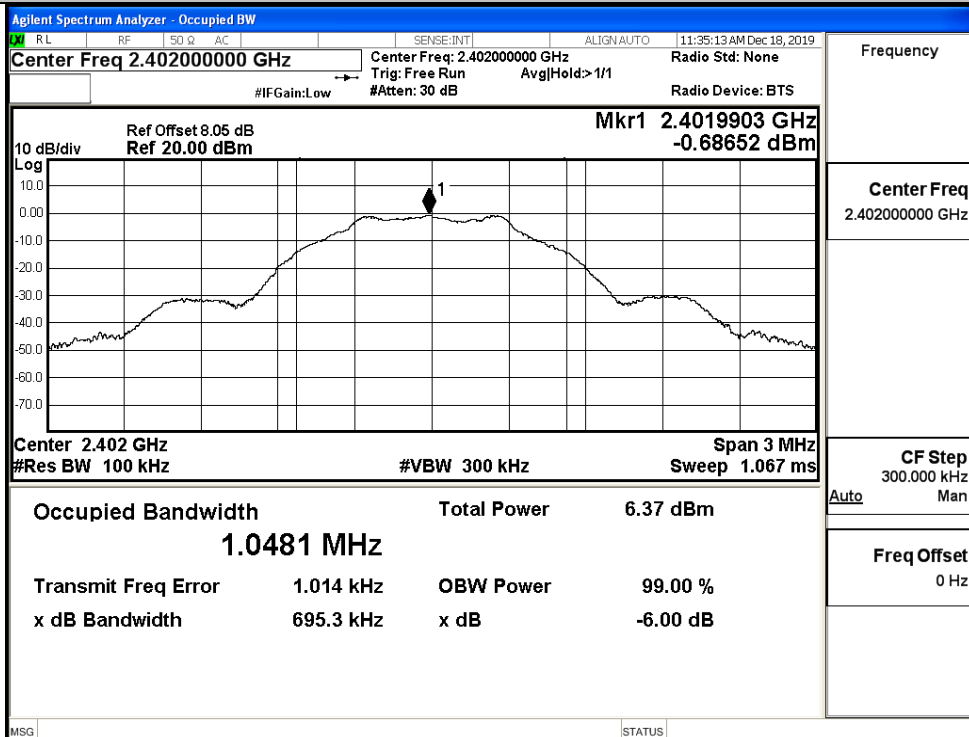


B.4 6dB Bandwidth

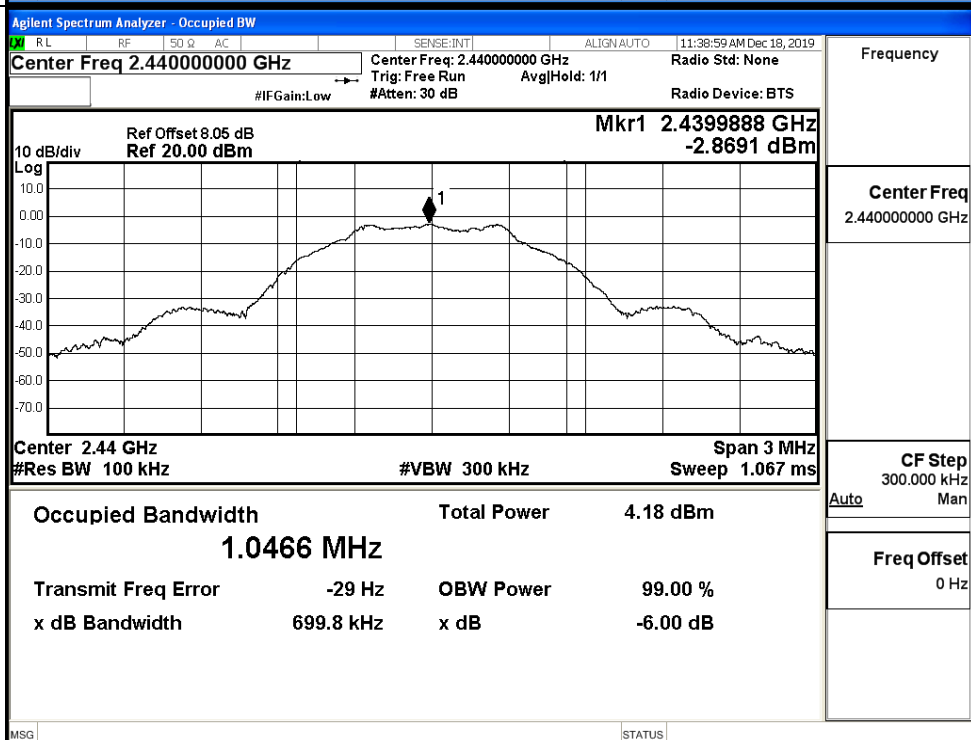
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6953	≥ 0.5	PASS
BT LE	MCH	0.6998	≥ 0.5	PASS
BT LE	HCH	0.6978	≥ 0.5	PASS

Test Graphs

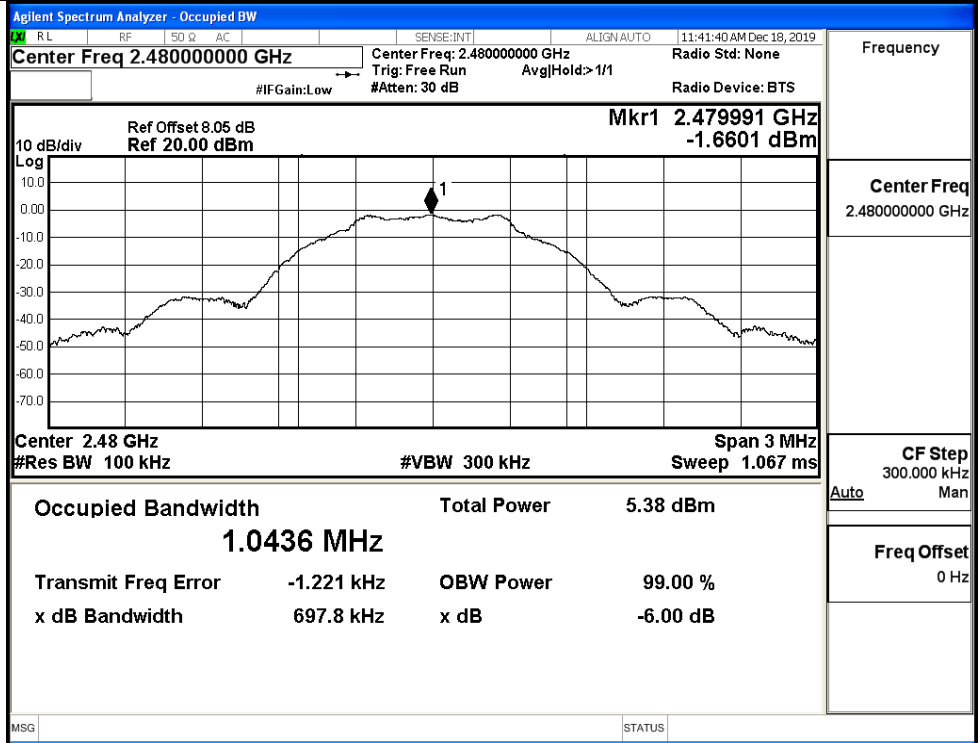
LCH



MCH

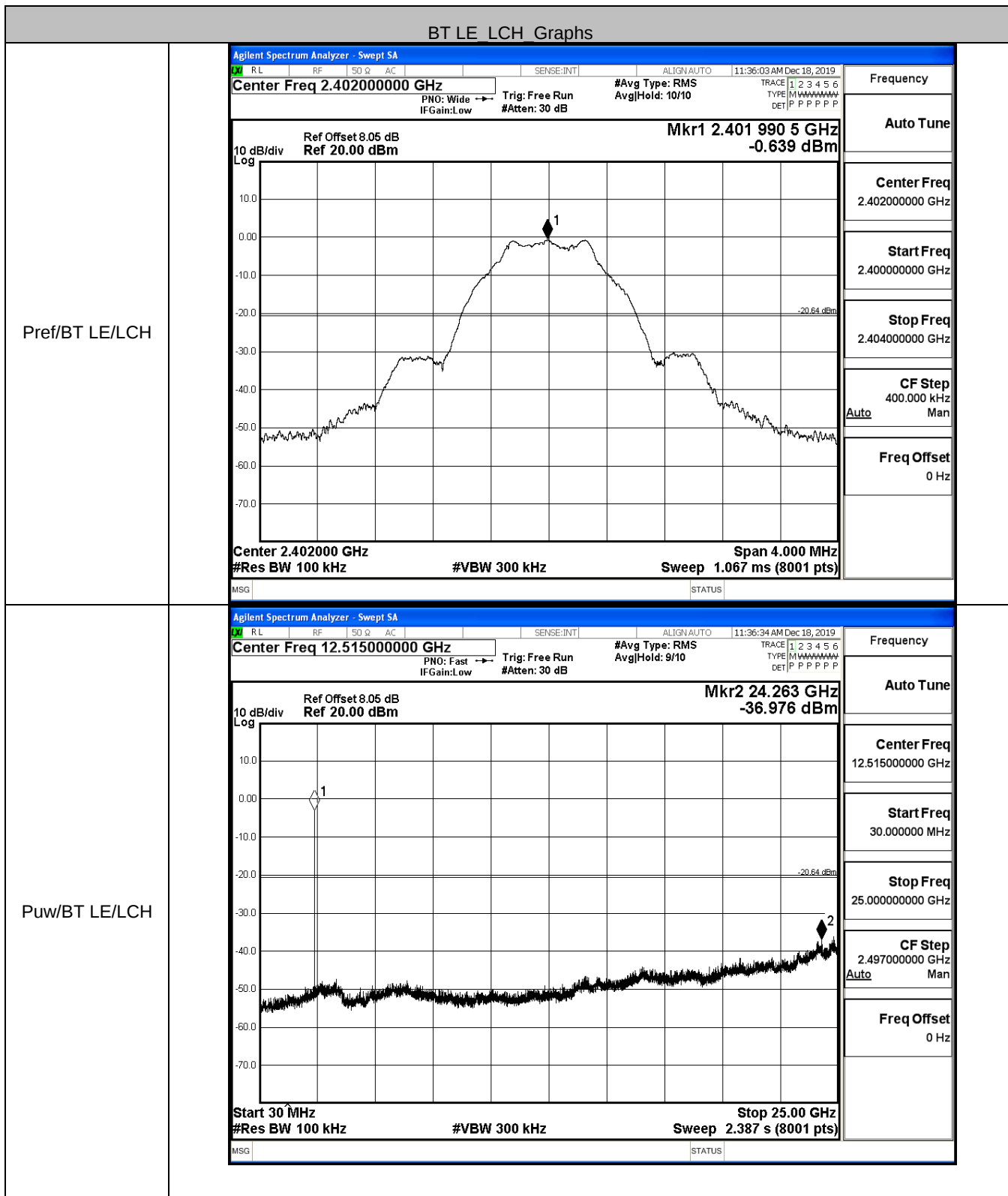


HCH



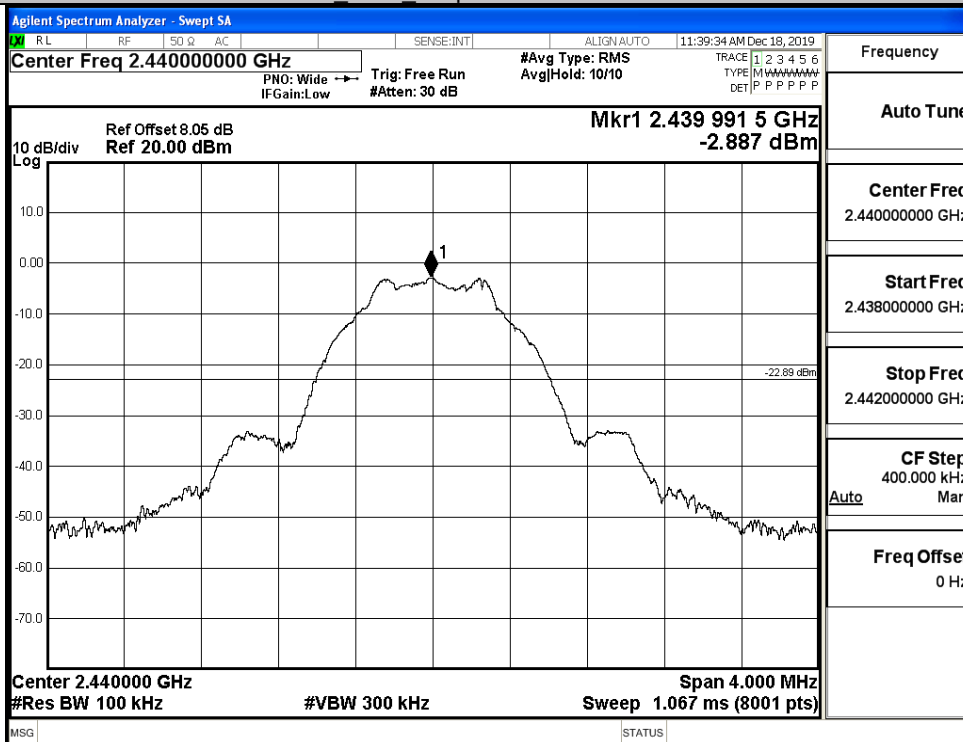
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.639	-36.976	-20.639	PASS
BT LE	MCH	-2.887	-36.399	-22.887	PASS
BT LE	HCH	-1.693	-37.056	-21.693	PASS

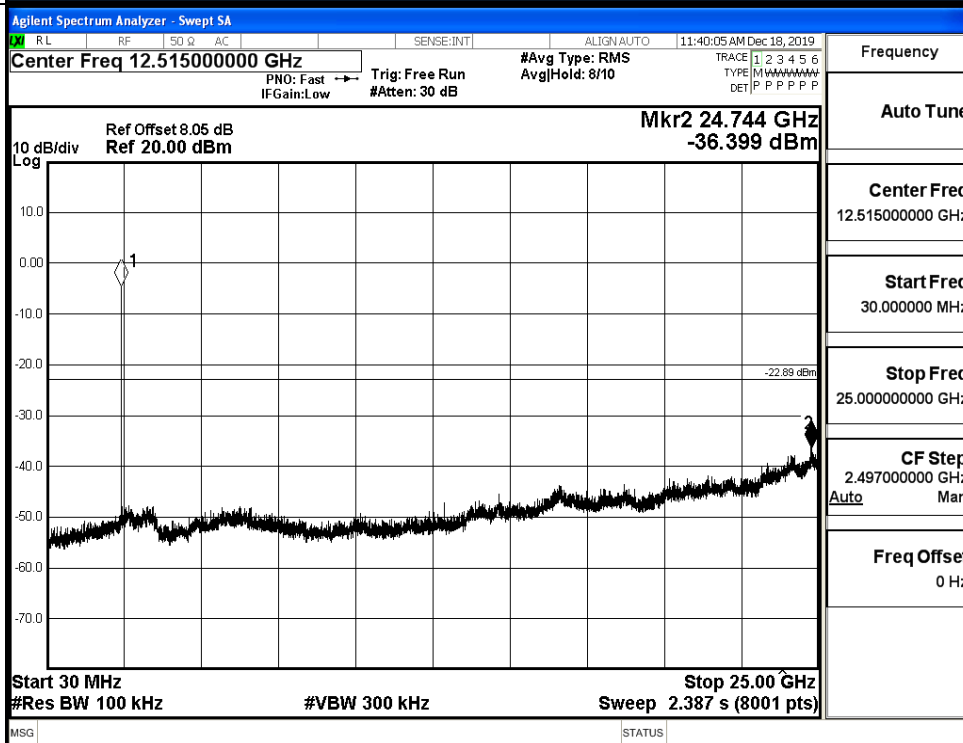


BT LE MCH Graphs

Pref/BT LE/MCH

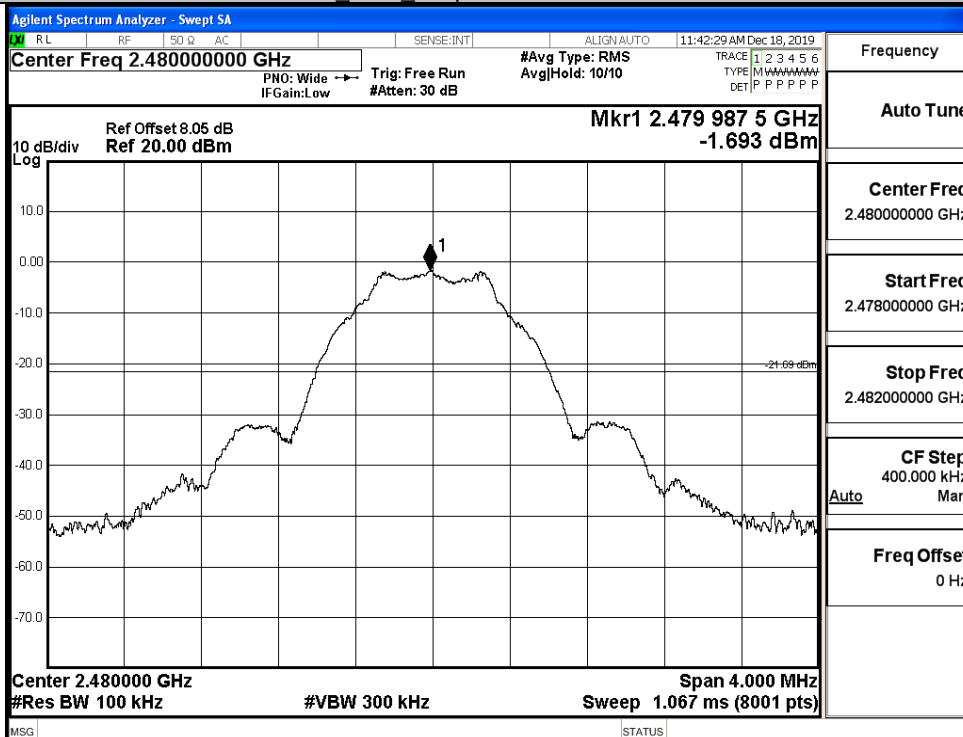


Puw/BT LE/MCH

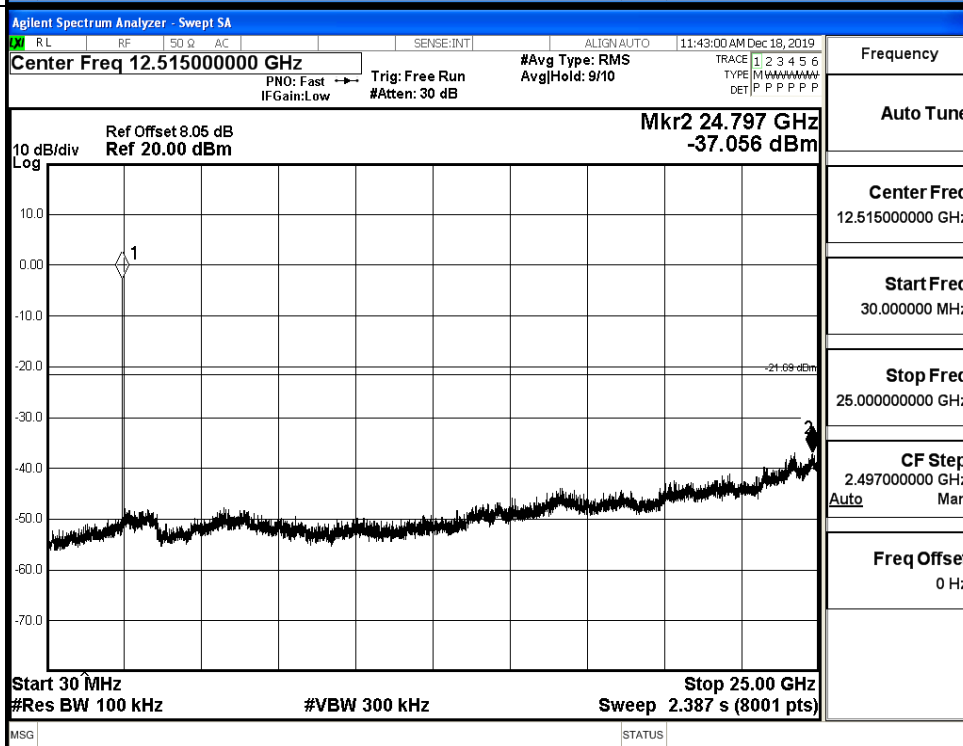


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

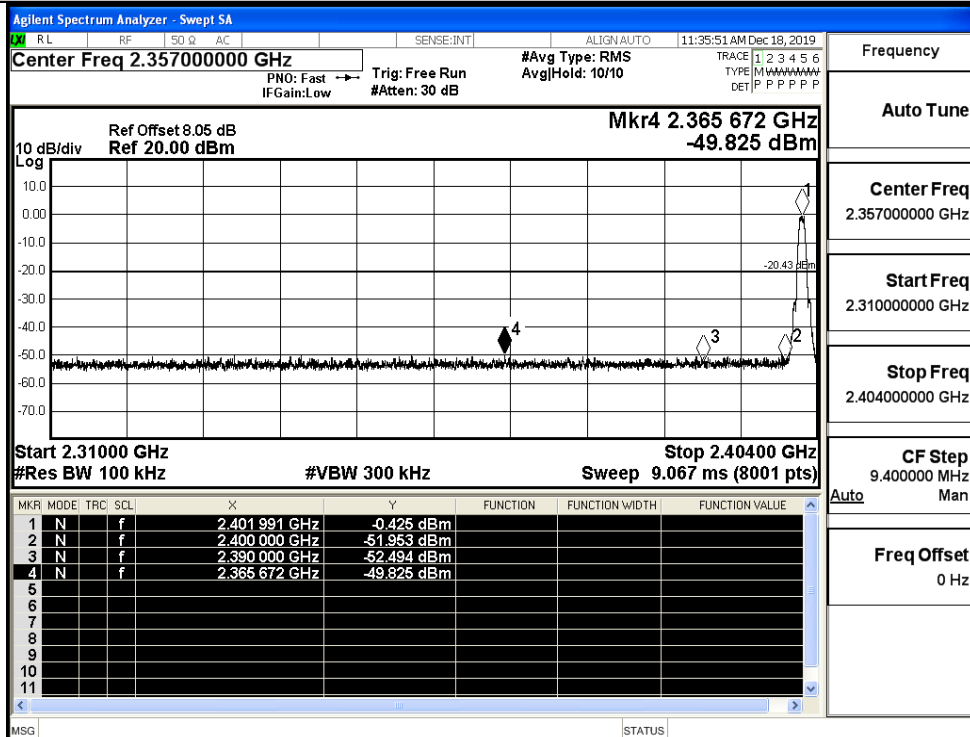


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.425	-49.825	-20.43	PASS
BT LE	HCH	-1.585	-48.523	-21.59	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

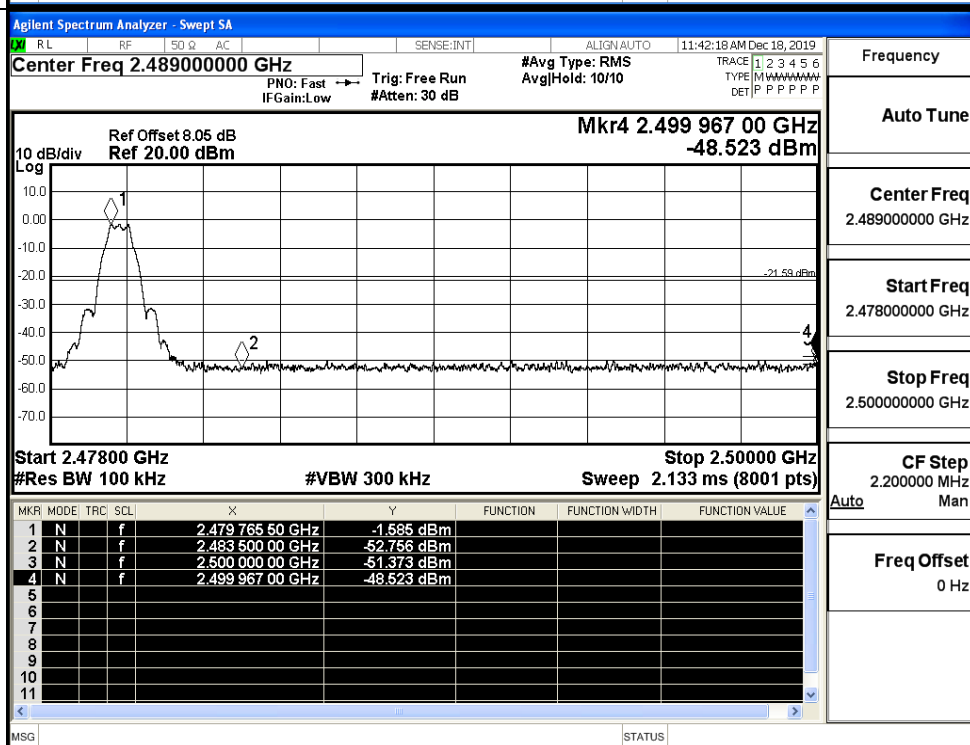
Start Freq
2.310000000 GHz

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

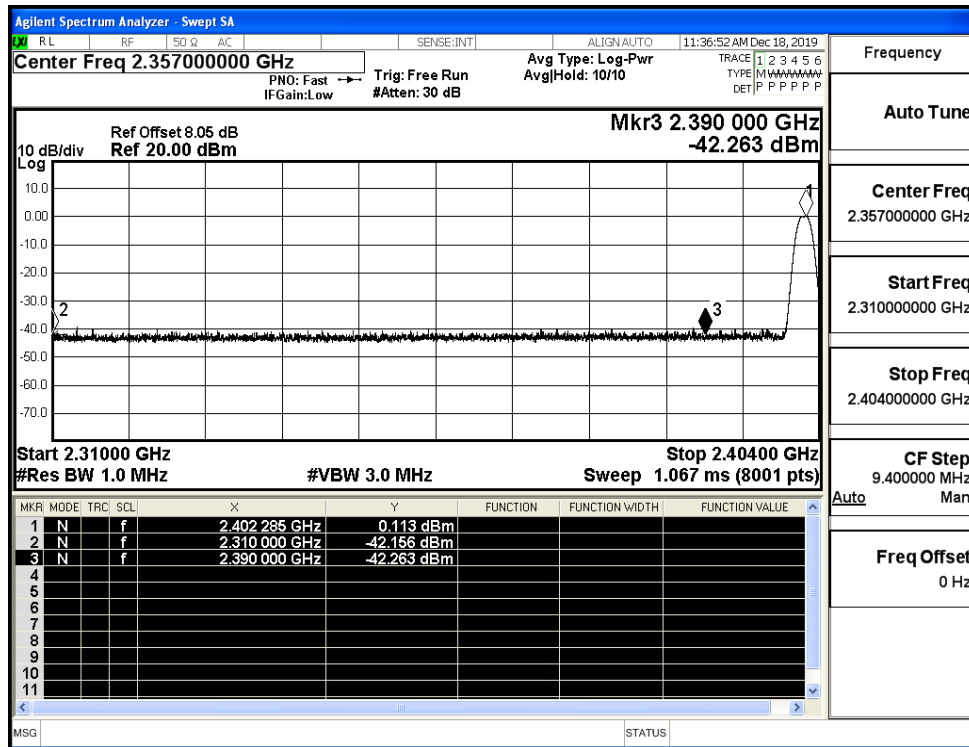
CF Step
2.200000 MHz

Freq Offset
0 Hz

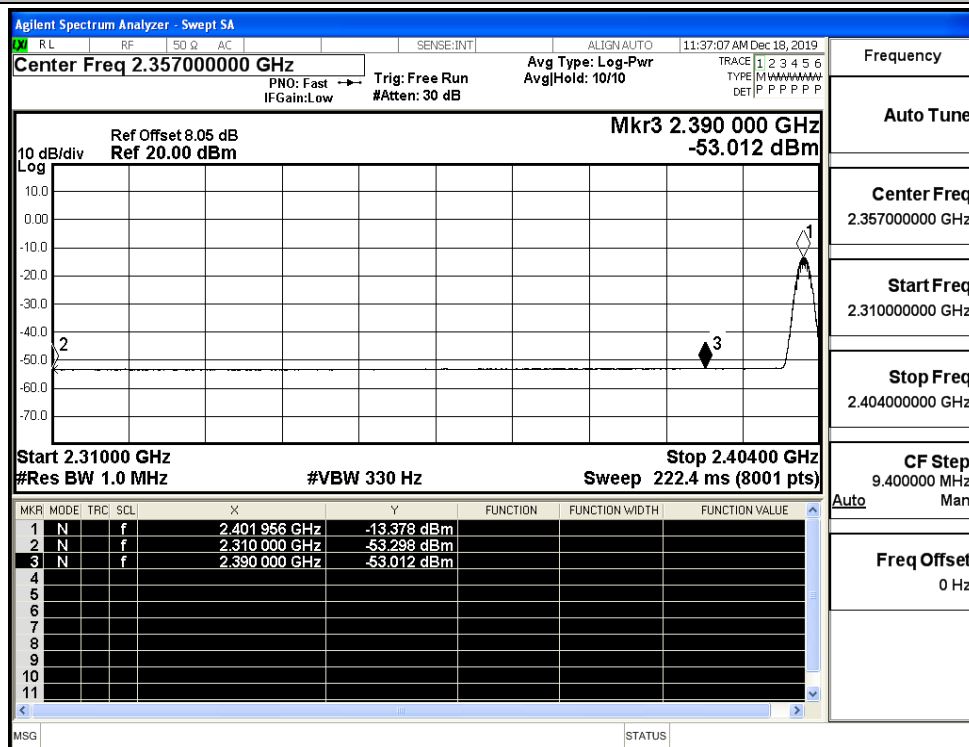
B.7 Restrict-band band-edge measurements

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	-42.16	2.0	0	55.10	PEAK	74	PASS
		Ant1	2310.0	-53.30	2.0	0	43.96	AV	54	PASS
		Ant1	2390.0	-42.26	2.0	0	54.99	PEAK	74	PASS
		Ant1	2390.0	-53.01	2.0	0	44.25	AV	54	PASS
	2480	Ant1	2483.5	-42.72	2.0	0	54.54	PEAK	74	PASS
		Ant1	2483.5	-52.61	2.0	0	44.65	AV	54	PASS
		Ant1	2500.0	-42.13	2.0	0	55.13	PEAK	74	PASS
		Ant1	2500.0	-52.38	2.0	0	44.88	AV	54	PASS

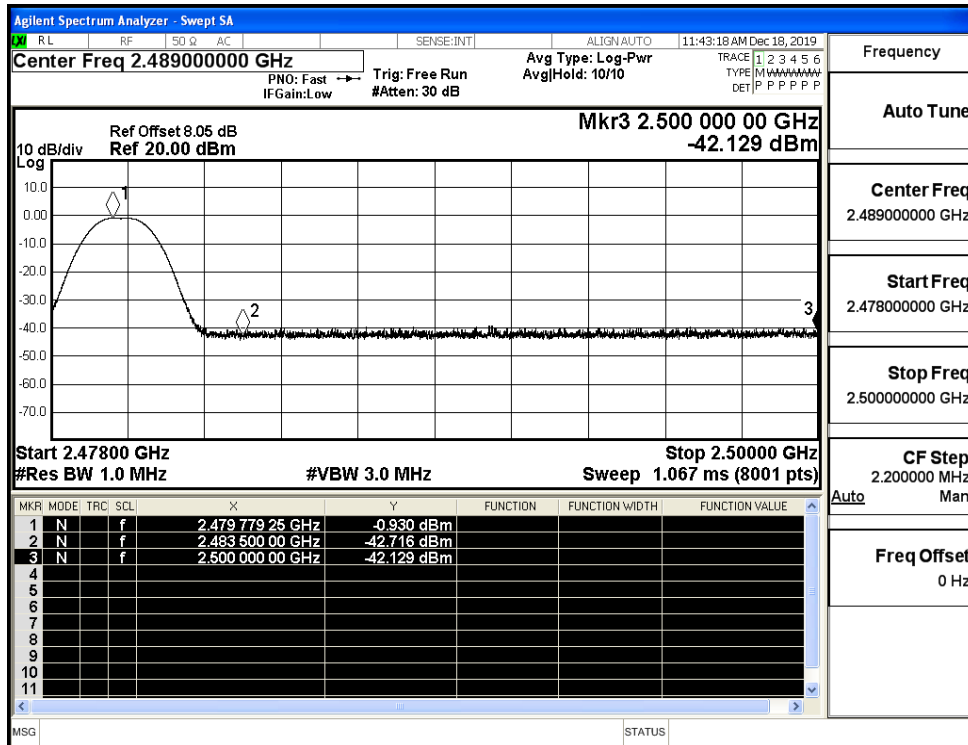
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

