

Appendix B

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

Product Name: All-in-One VR

Trade Mark: Firepack

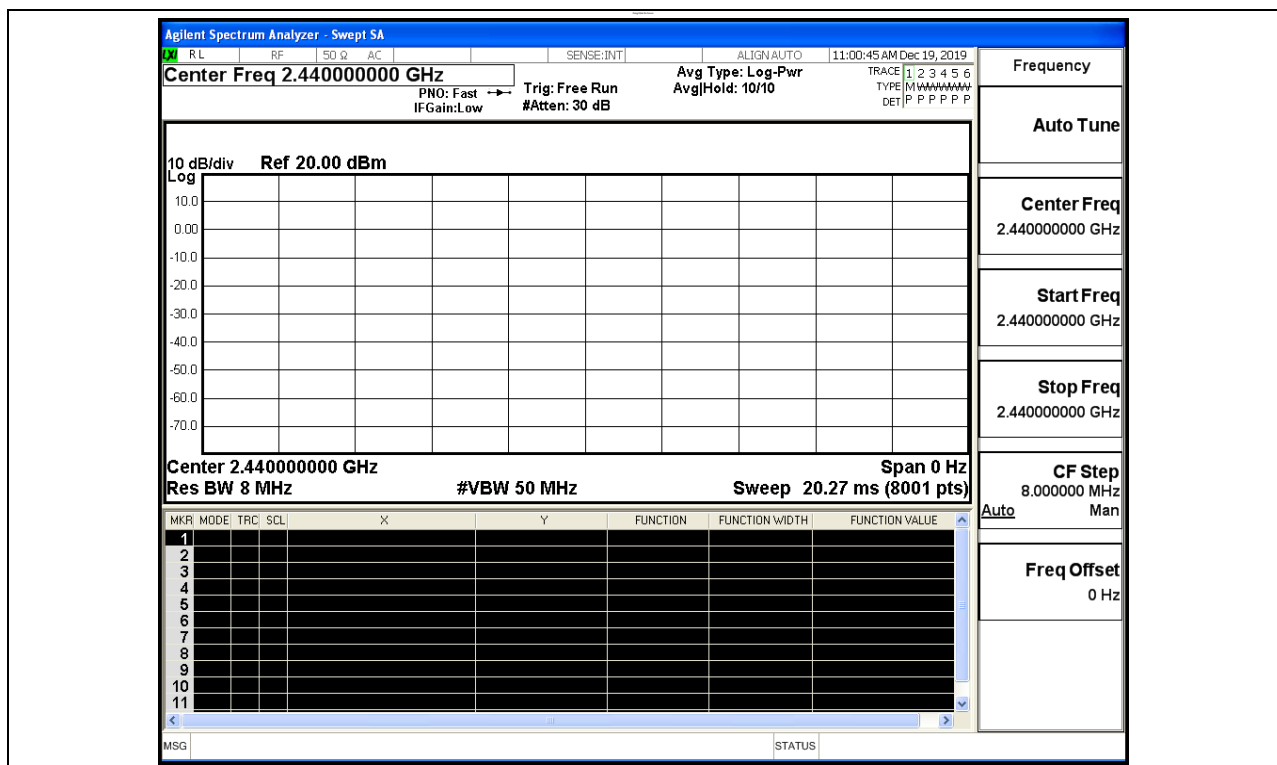
Test Model: EM_A839

Environmental Conditions

Temperature:	25.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang Chuang

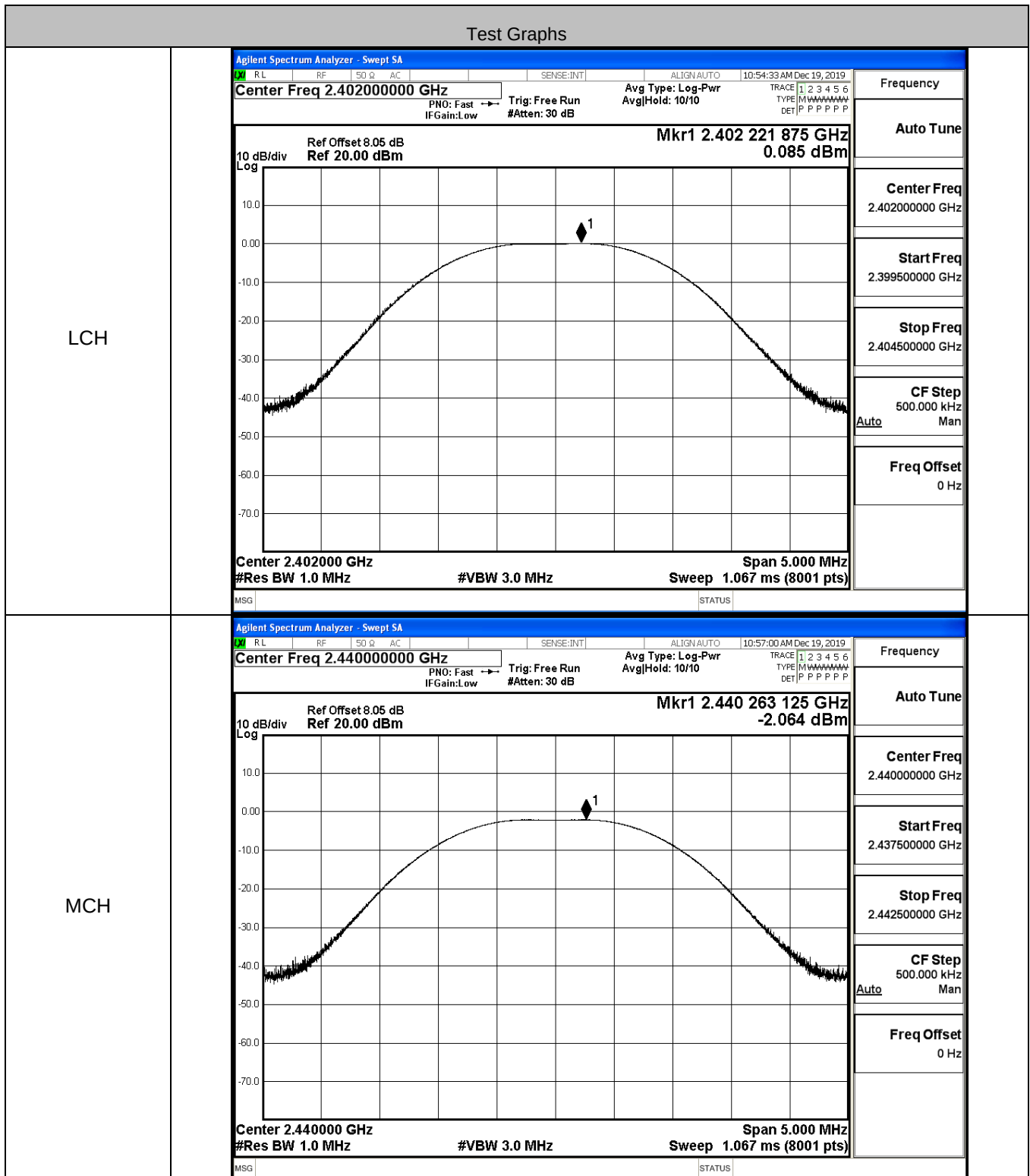
B.1 Duty Cycle

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

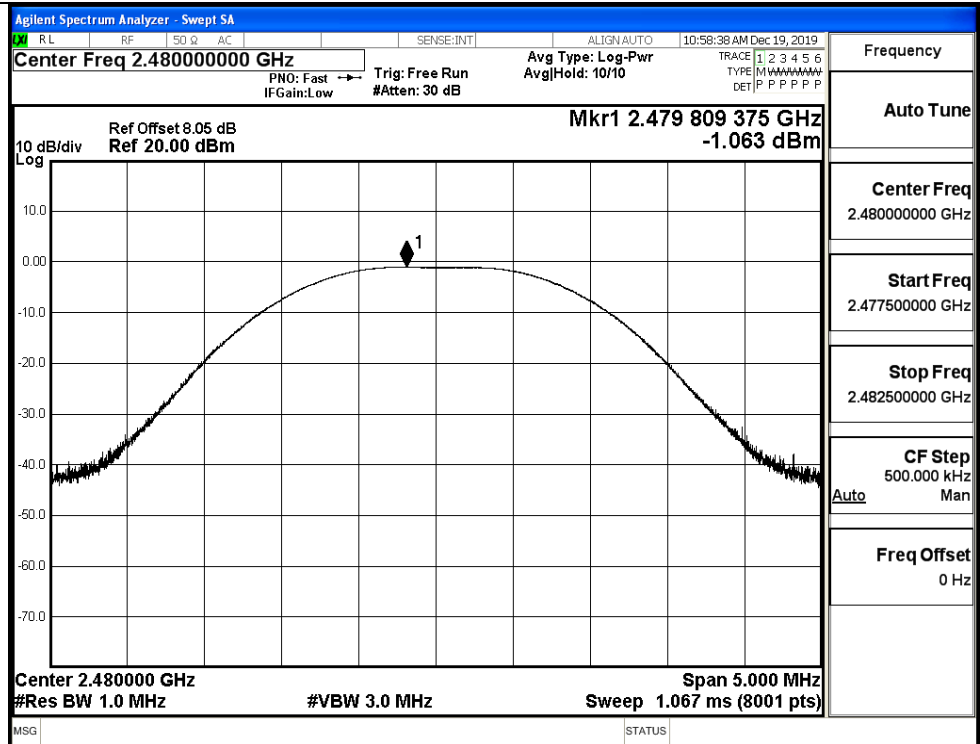


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.085	30	PASS
BT LE	MCH	-2.064	30	PASS
BT LE	HCH	-1.063	30	PASS



HCH

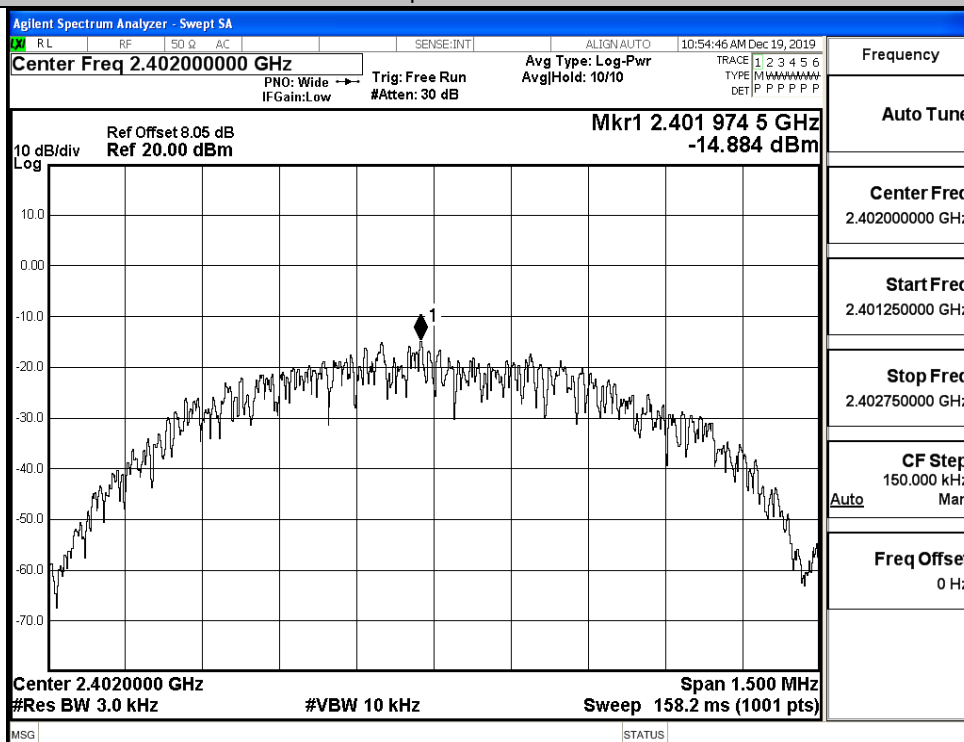


B.3 Maximum Power Spectral Density

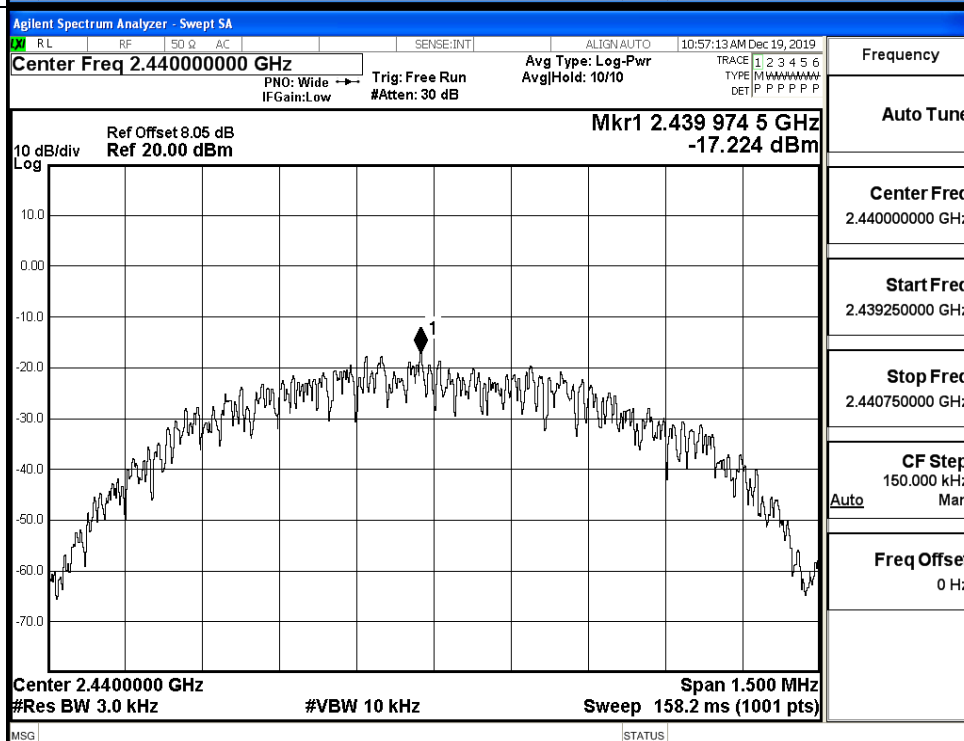
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.884	8	PASS
BT LE	MCH	-17.224	8	PASS
BT LE	HCH	-16.064	8	PASS

Test Graphs

LCH



MCH



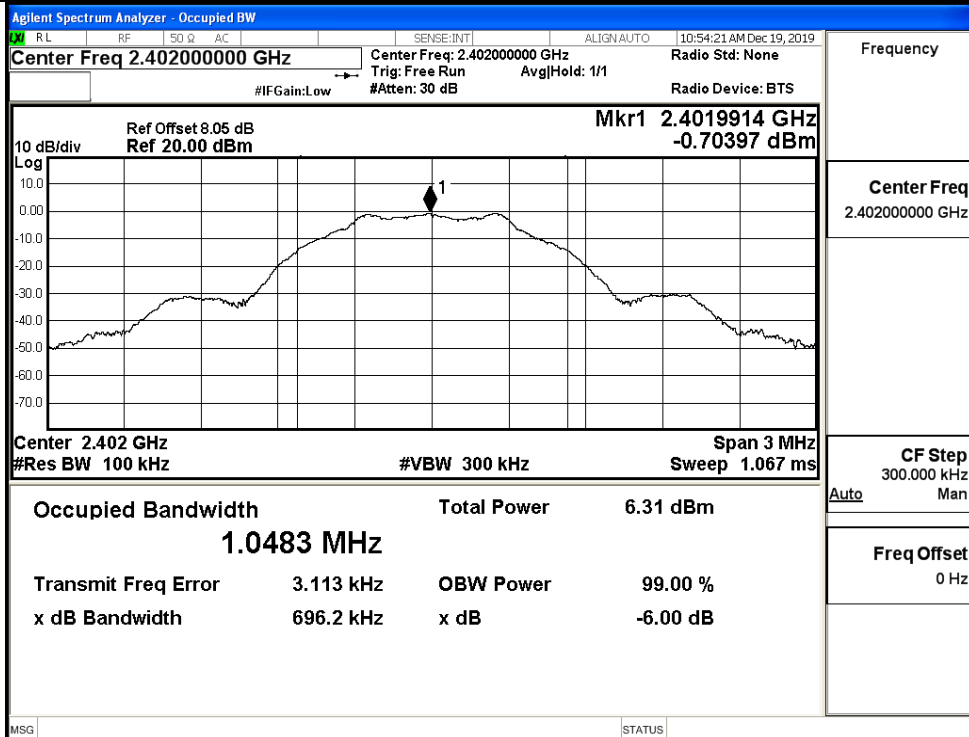


B.4 6dB Bandwidth

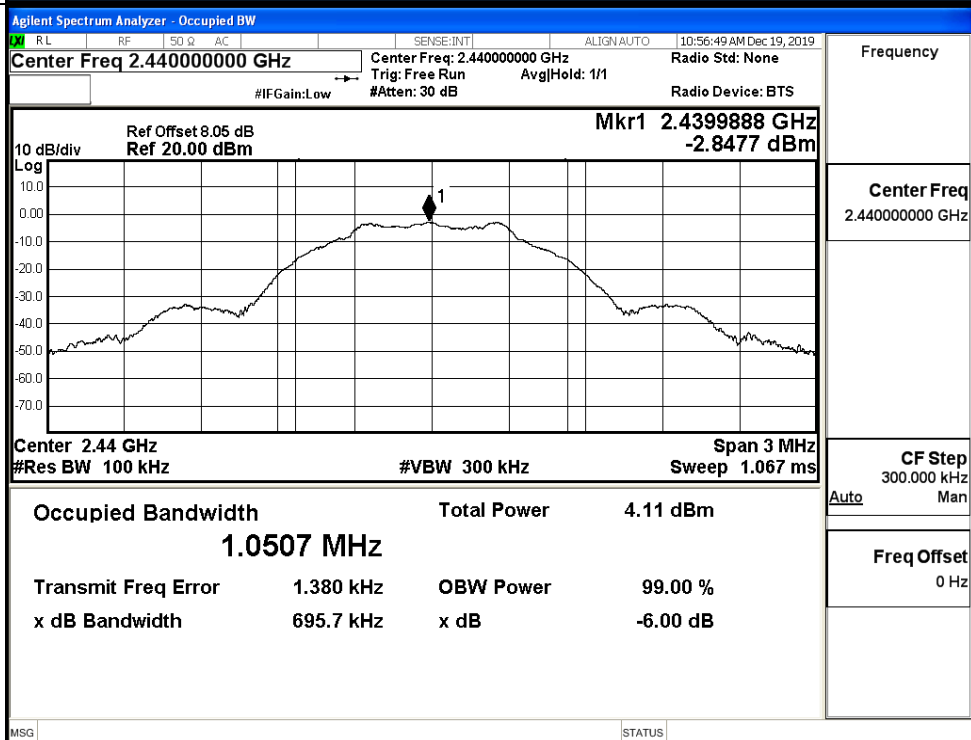
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6962	≥ 0.5	PASS
BT LE	MCH	0.6957	≥ 0.5	PASS
BT LE	HCH	0.6934	≥ 0.5	PASS

Test Graphs

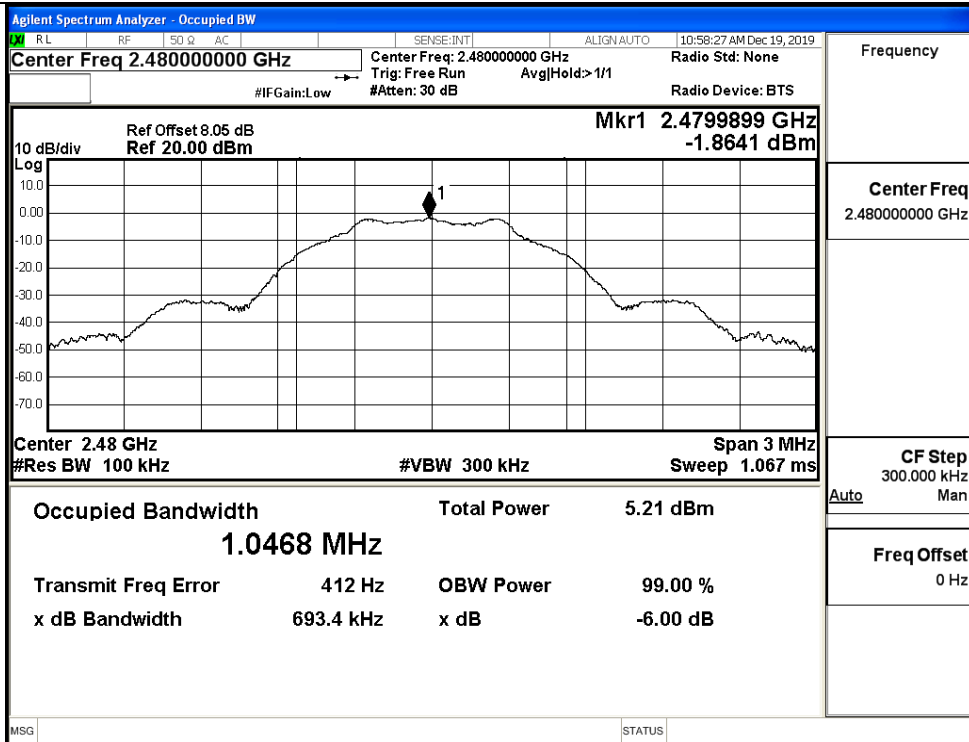
LCH



MCH



HCH

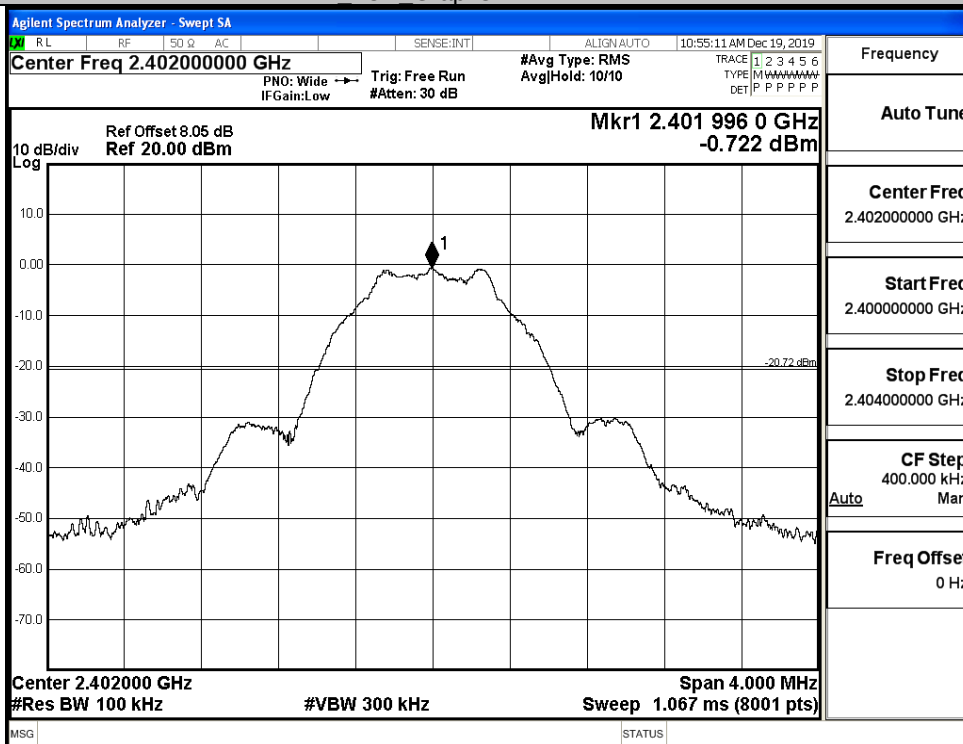


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.722	-37.196	-20.722	PASS
BT LE	MCH	-3.104	-36.018	-23.104	PASS
BT LE	HCH	-1.825	-36.810	-21.825	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

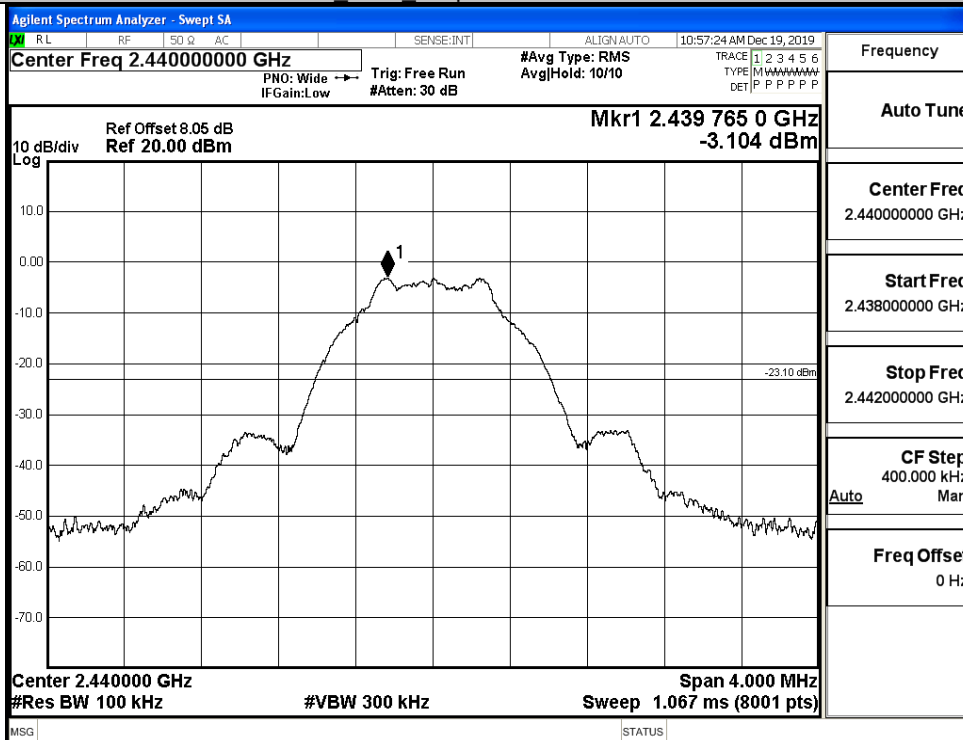


Puw/BT LE/LCH

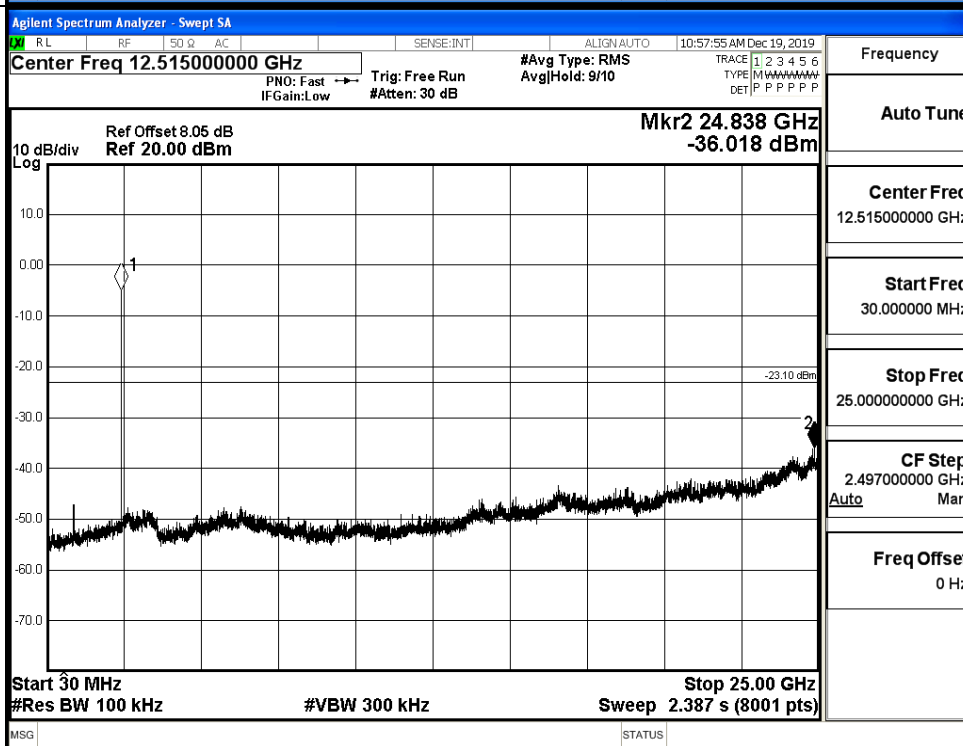


BT LE MCH Graphs

Pref/BT LE/MCH

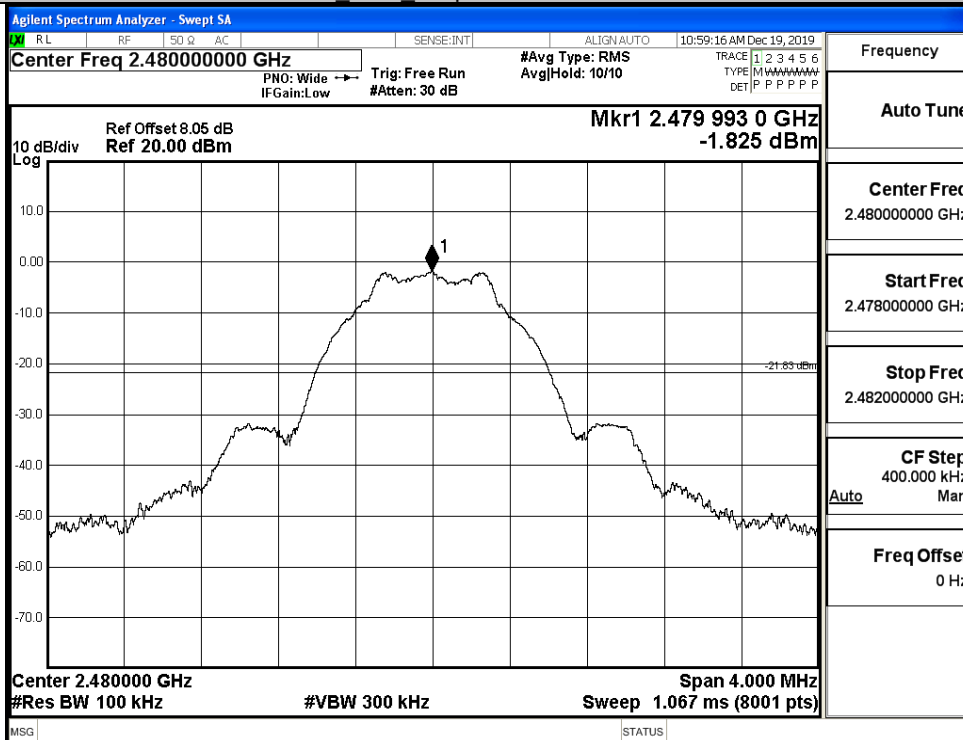


Puw/BT LE/MCH

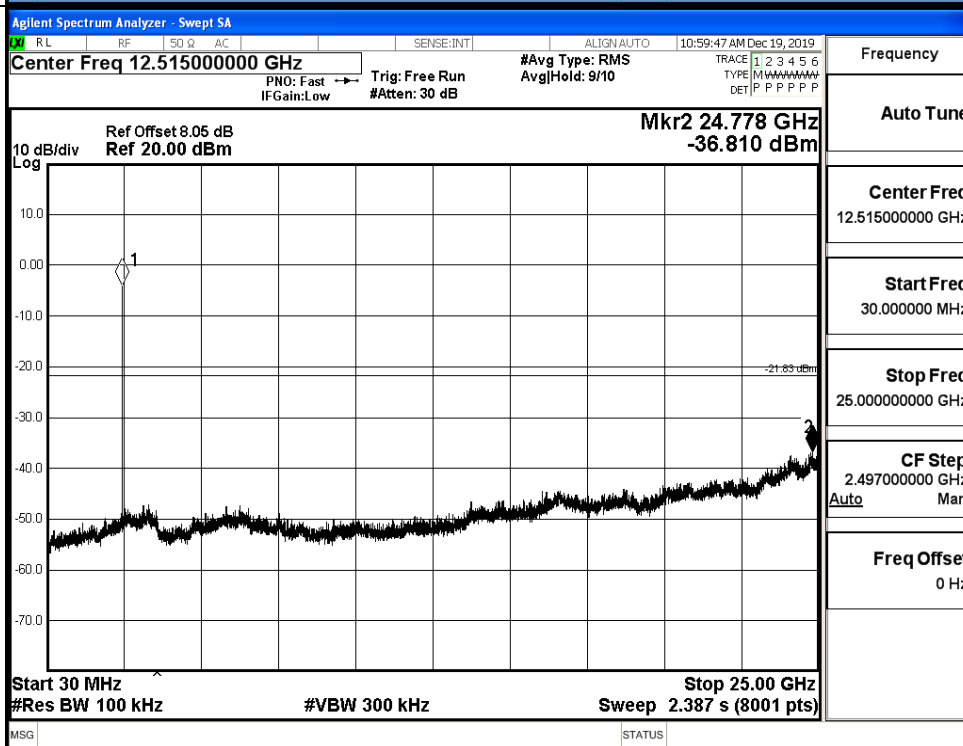


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

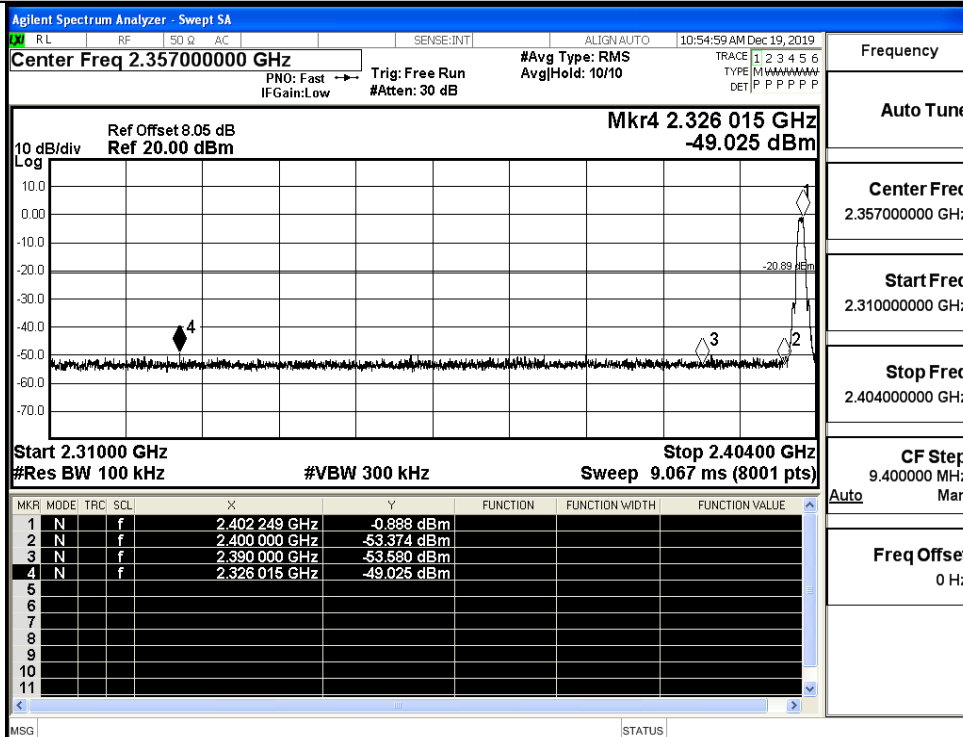


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.888	-49.025	-20.89	PASS
BT LE	HCH	-1.600	-48.903	-21.6	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

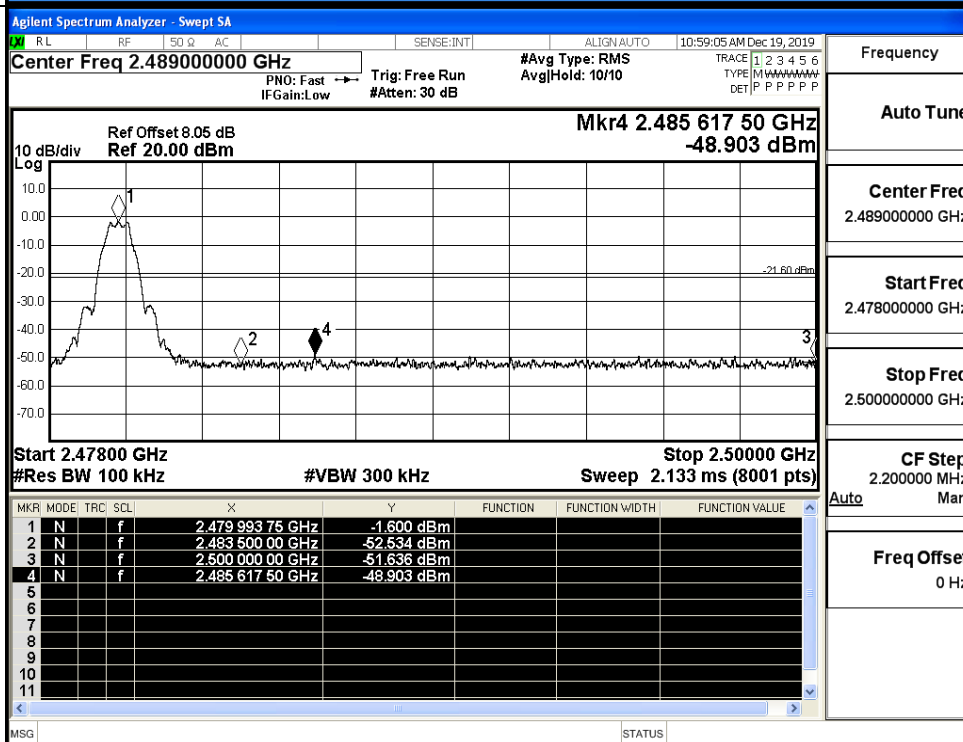
9.400000 MHz

Auto Man

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 Man

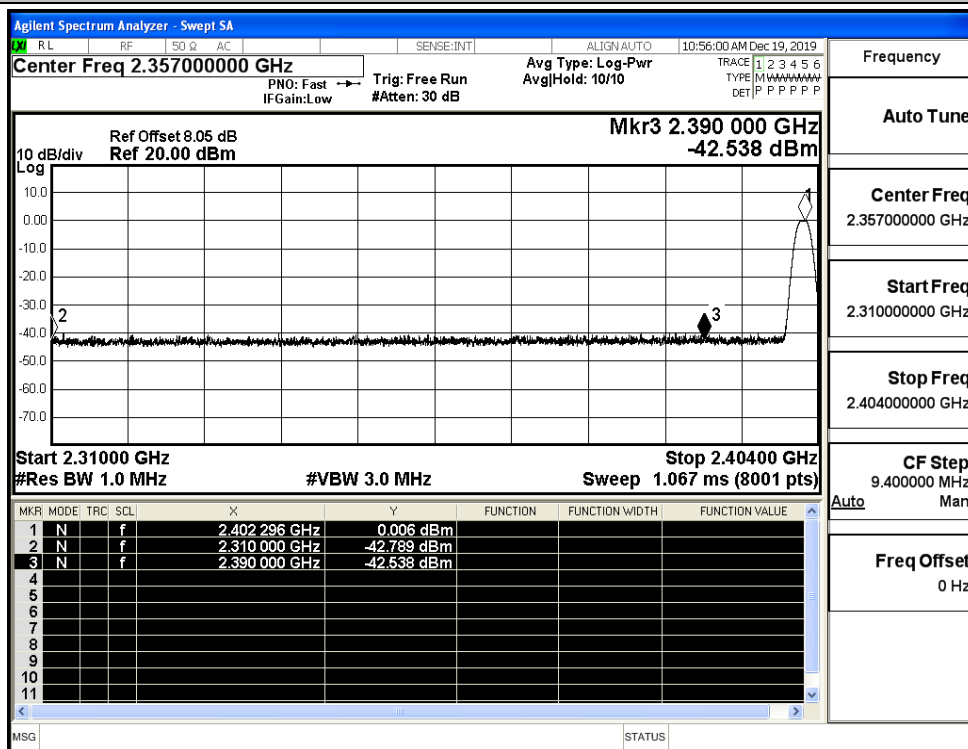
Freq Offset

0 Hz

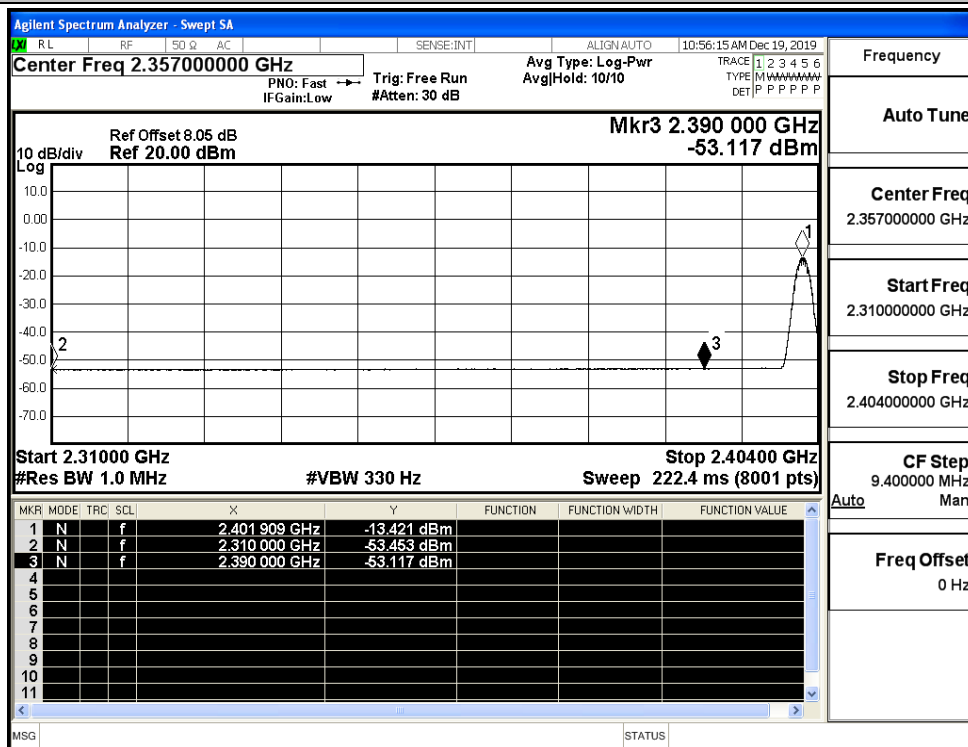
B.7 Restrict-band band-edge measurements

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	-42.79	2.0	0	54.47	PEAK	74	PASS
		Ant1	2310.0	-53.45	2.0	0	43.80	AV	54	PASS
		Ant1	2390.0	-42.54	2.0	0	54.72	PEAK	74	PASS
		Ant1	2390.0	-53.12	2.0	0	44.14	AV	54	PASS
	2480	Ant1	2483.5	-43.11	2.0	0	54.15	PEAK	74	PASS
		Ant1	2483.5	-52.51	2.0	0	44.75	AV	54	PASS
		Ant1	2500.0	-42.70	2.0	0	54.56	PEAK	74	PASS
		Ant1	2500.0	-52.28	2.0	0	44.98	AV	54	PASS

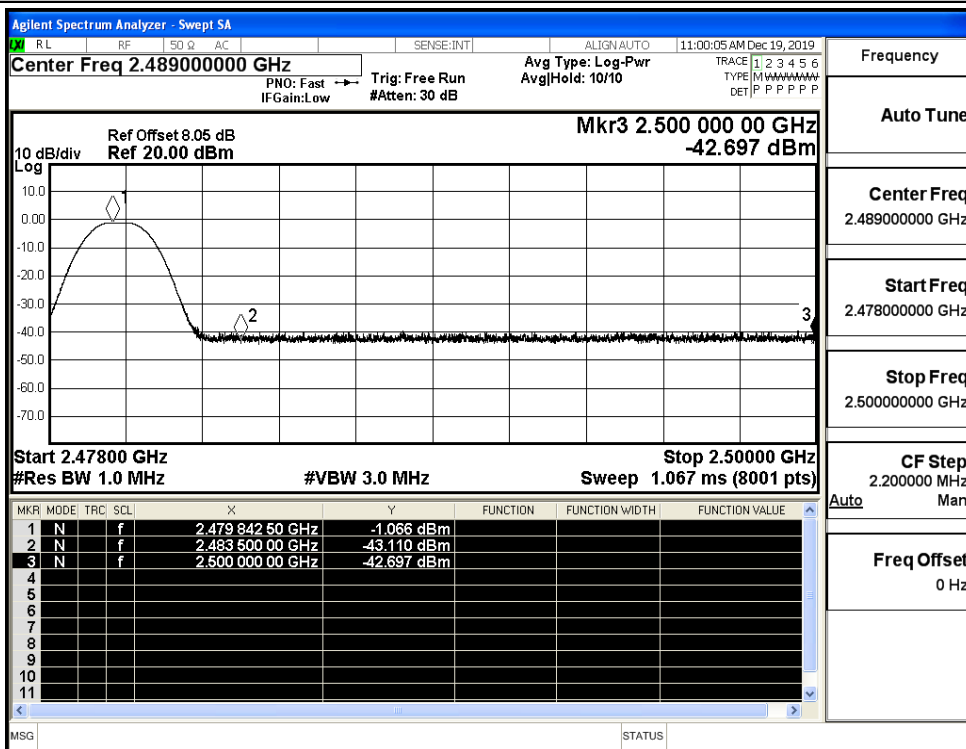
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

