

Appendix A

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

Product Name: Waydoo Flyer

Trade Mark: Waydoo

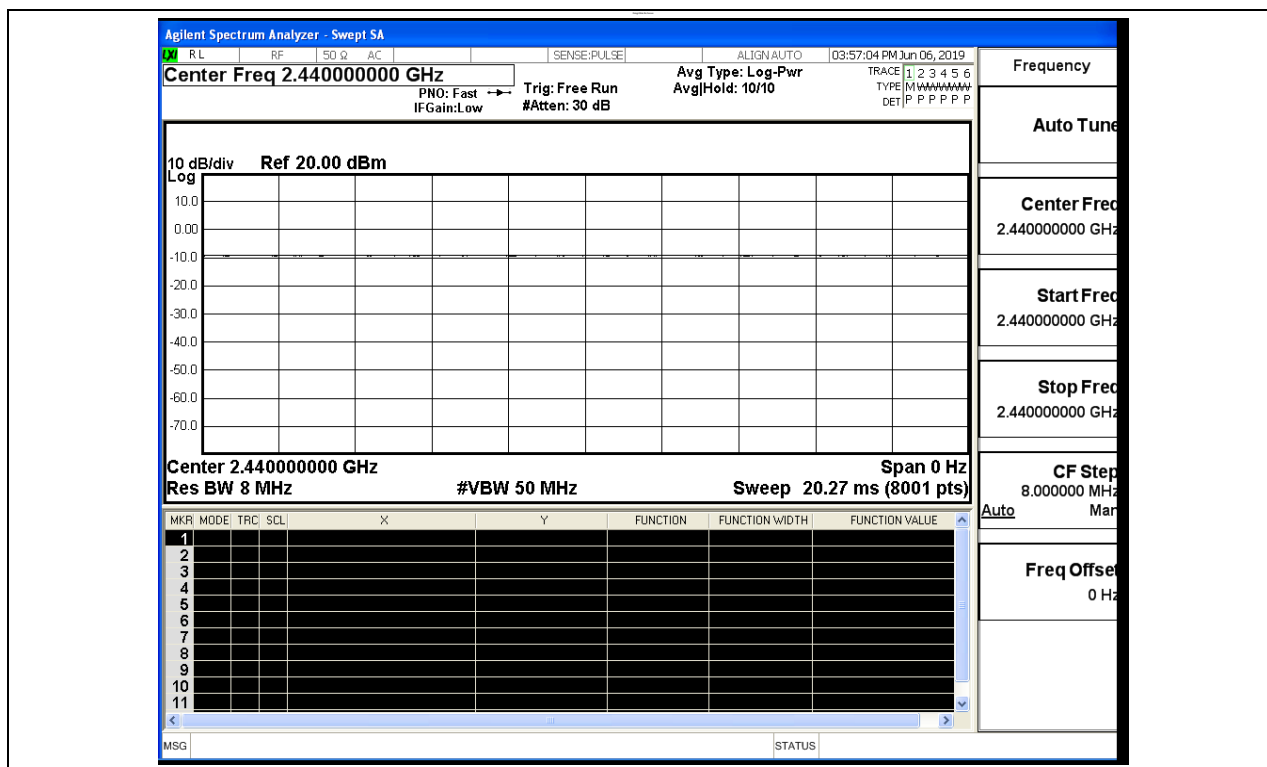
Test Model: wd

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.ZENG
Supervised by:	Wang.Chuang

A.1 Duty Cycle

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

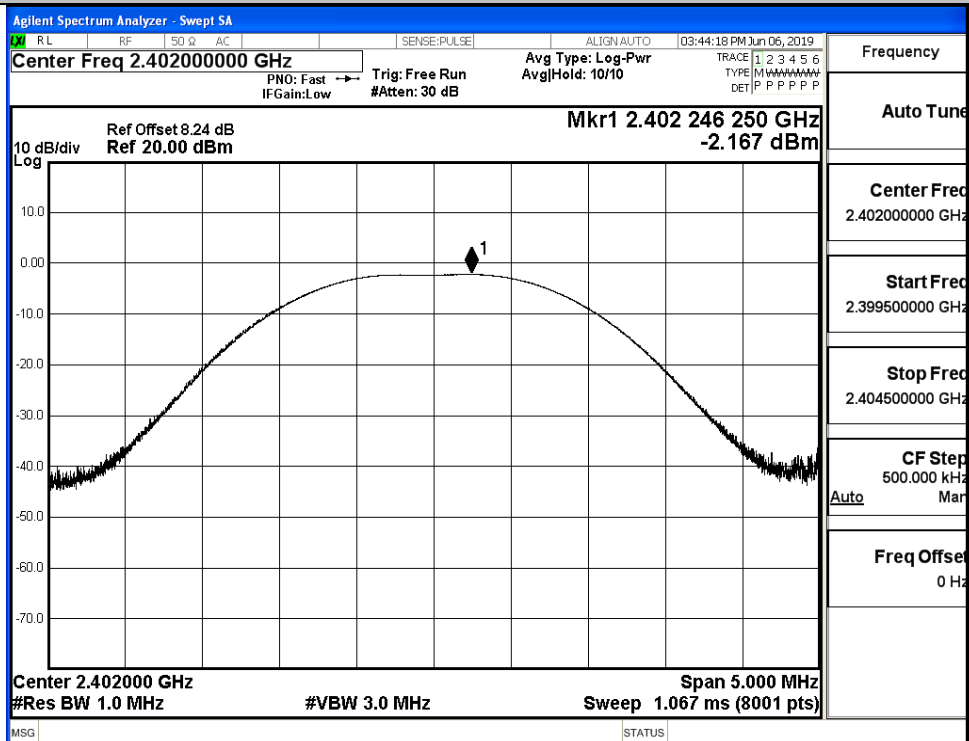


A.2 Maximum Conducted Peak Output Power

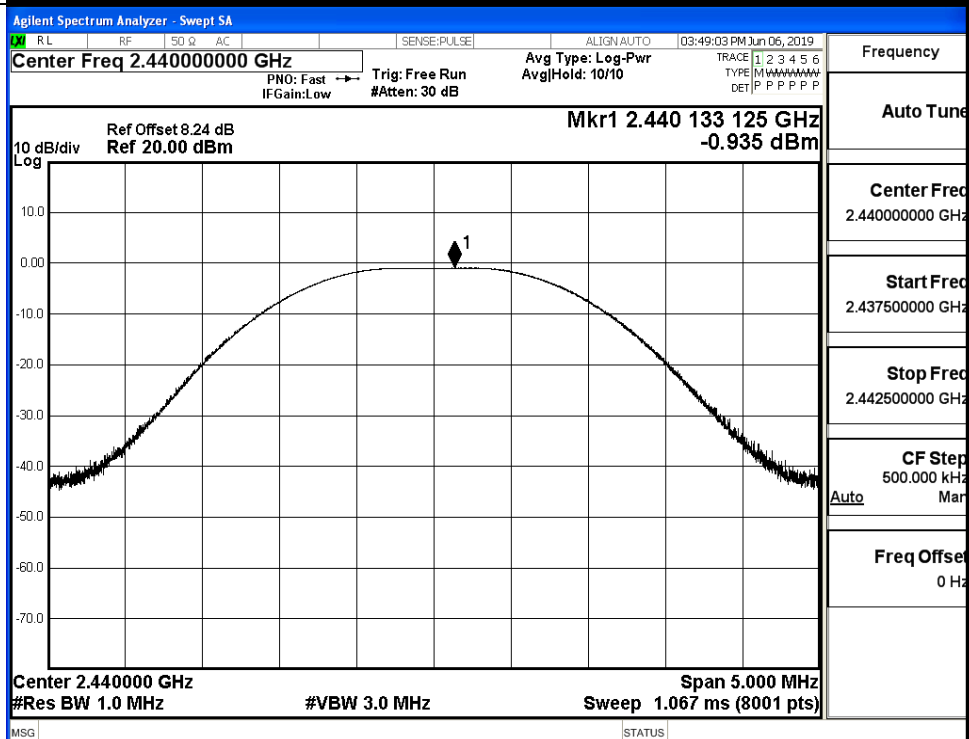
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.167	30	PASS
BT LE	MCH	-0.935	30	PASS
BT LE	HCH	-1.629	30	PASS

Test Graphs

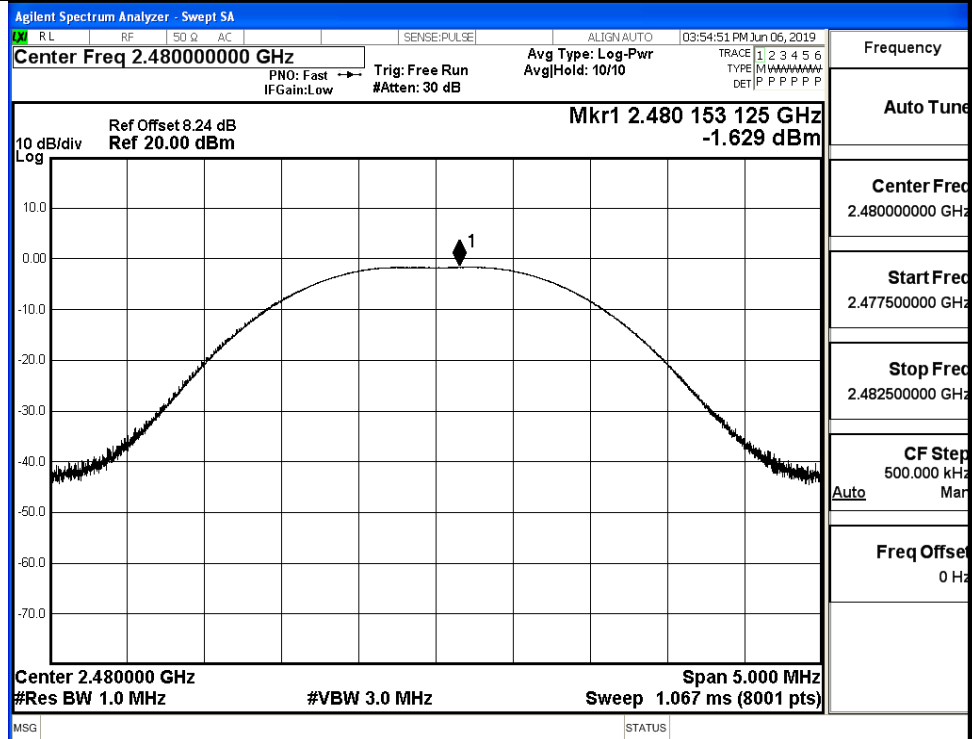
LCH



MCH



HCH

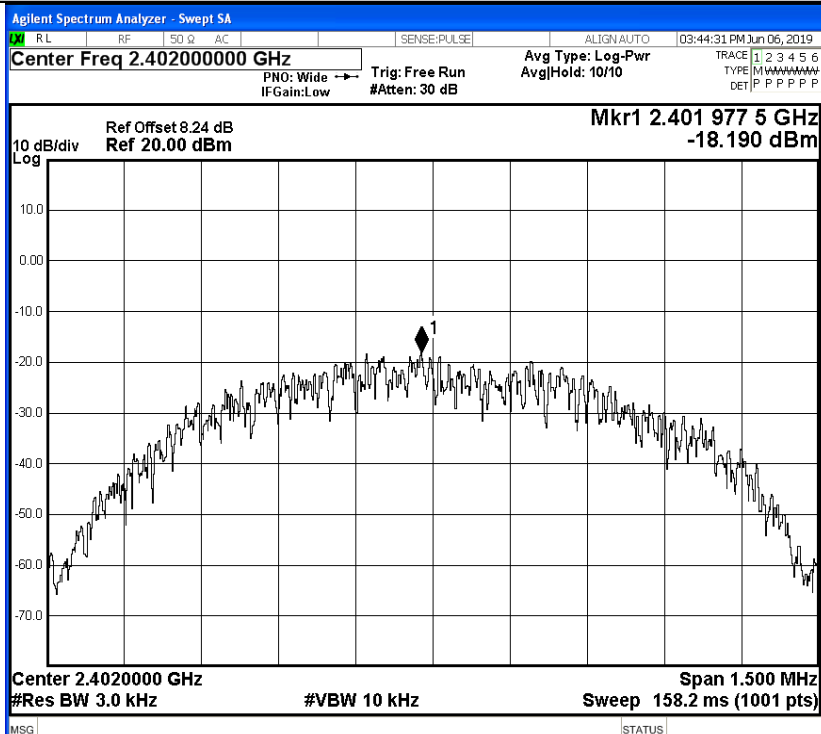


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.190	8	PASS
BT LE	MCH	-16.895	8	PASS
BT LE	HCH	-17.000	8	PASS

Test Graphs

LCH

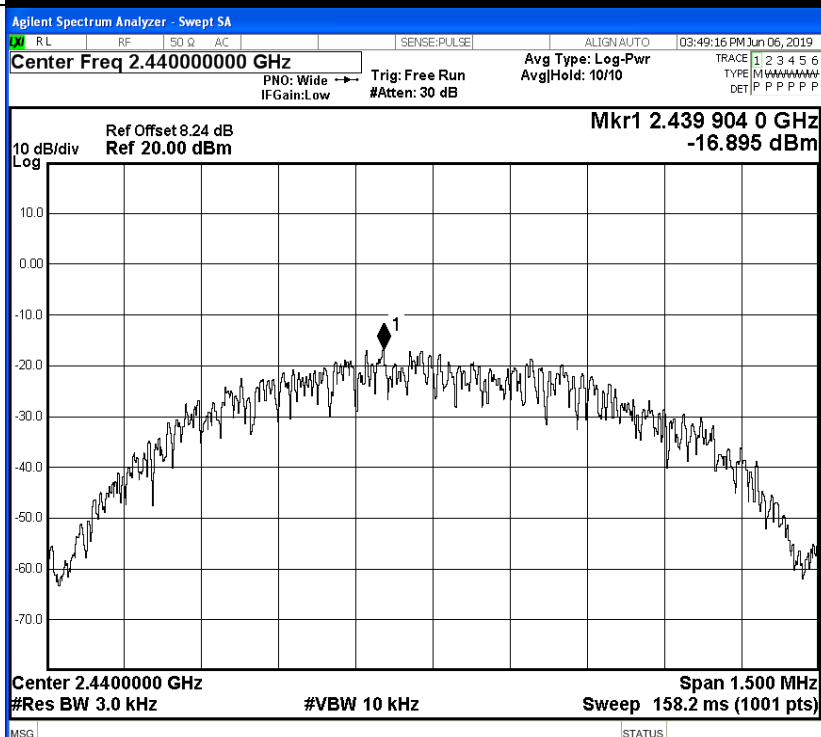


Frequency

Auto Tune

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

MCH

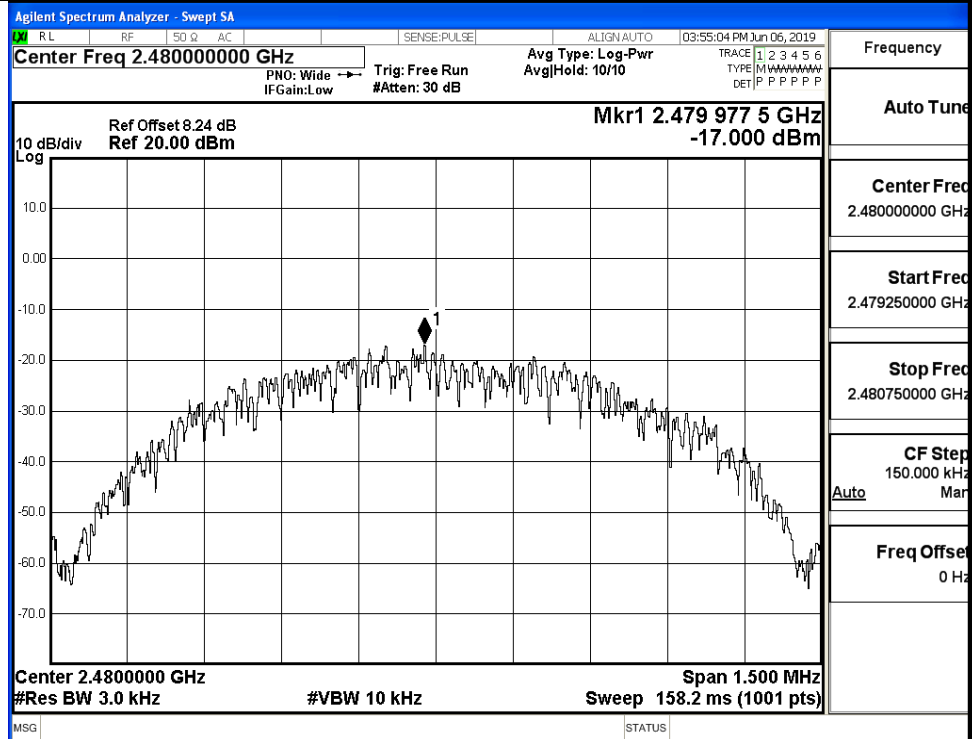


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto MarFreq Offset
0 Hz

HCH

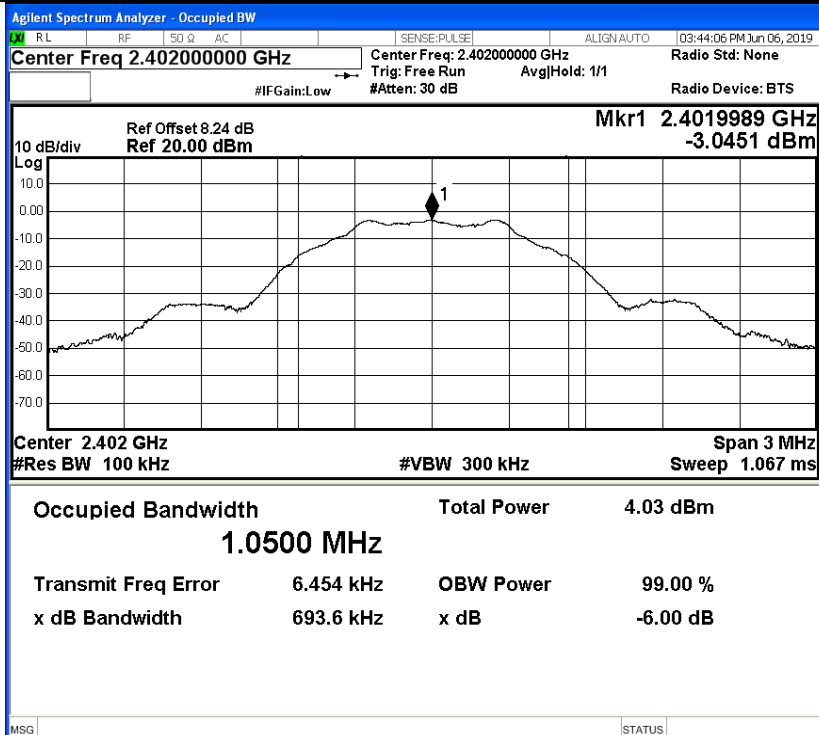


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6936	≥ 0.5	PASS
BT LE	MCH	0.6846	≥ 0.5	PASS
BT LE	HCH	0.6901	≥ 0.5	PASS

Test Graphs

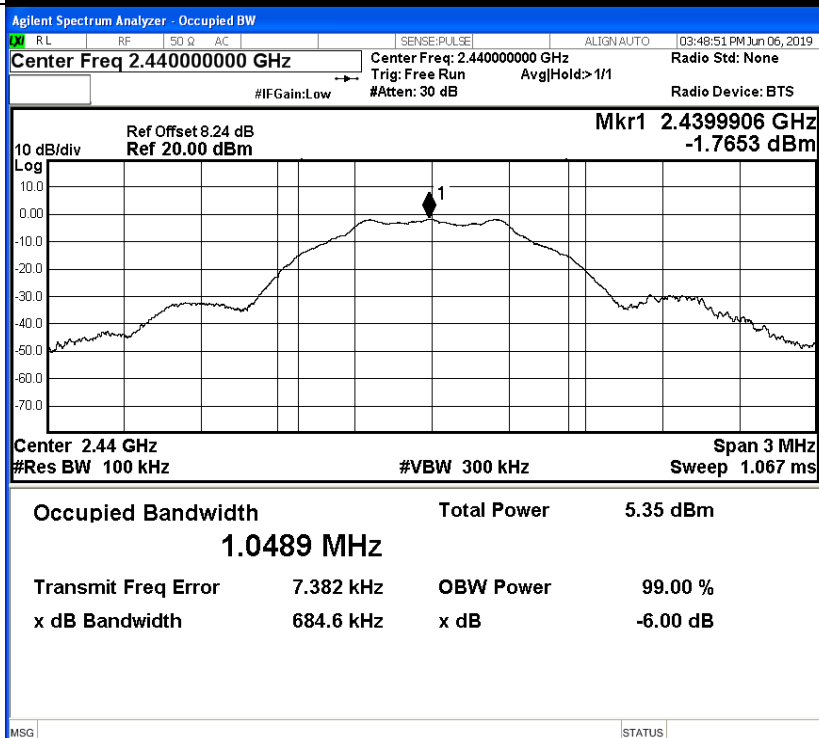
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

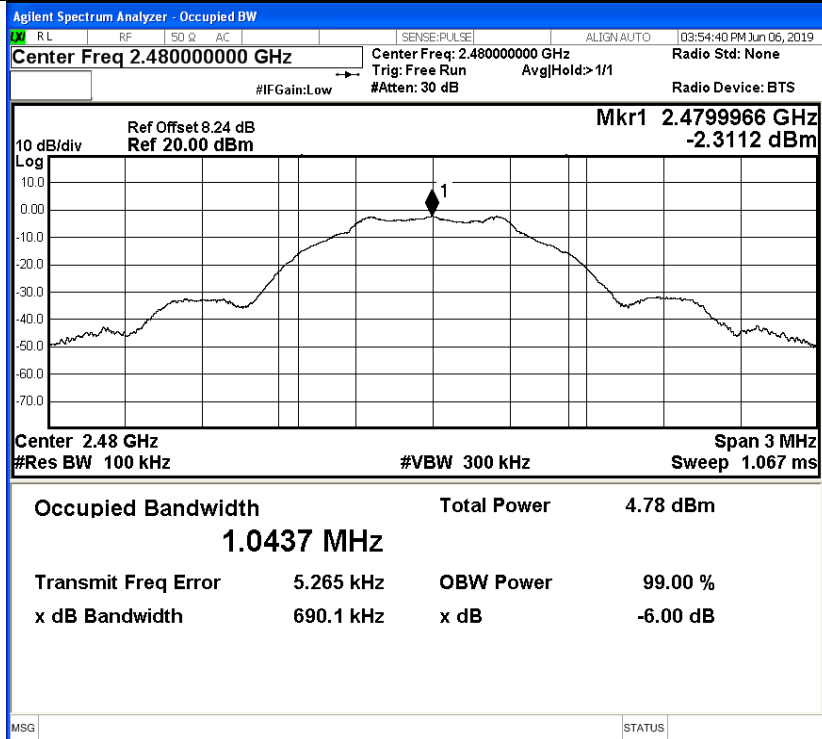
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

HCH



Frequency

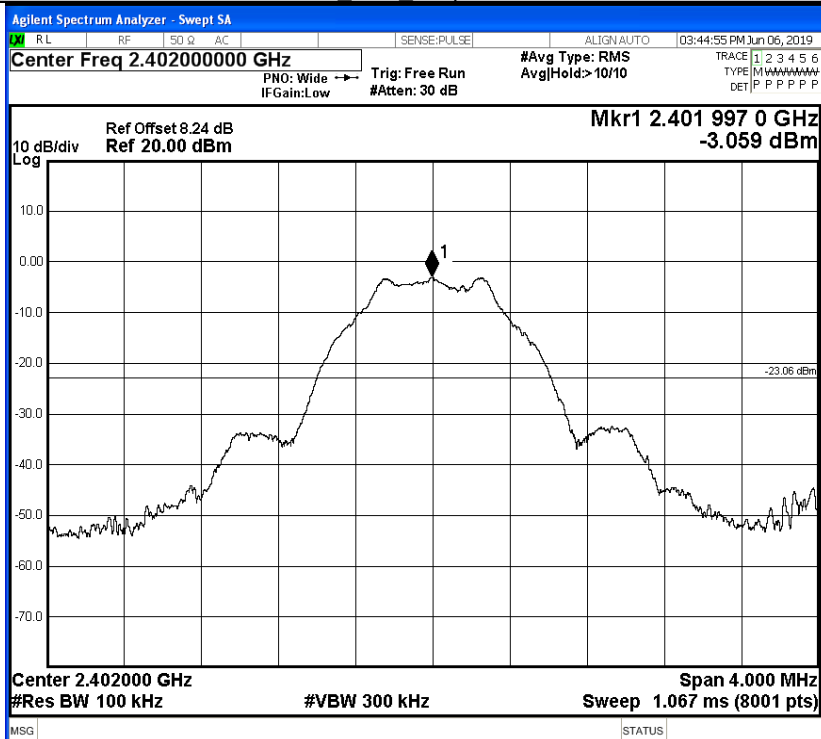
Center Freq
2.480000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

A.5 RF Conducted Spurious Emissions

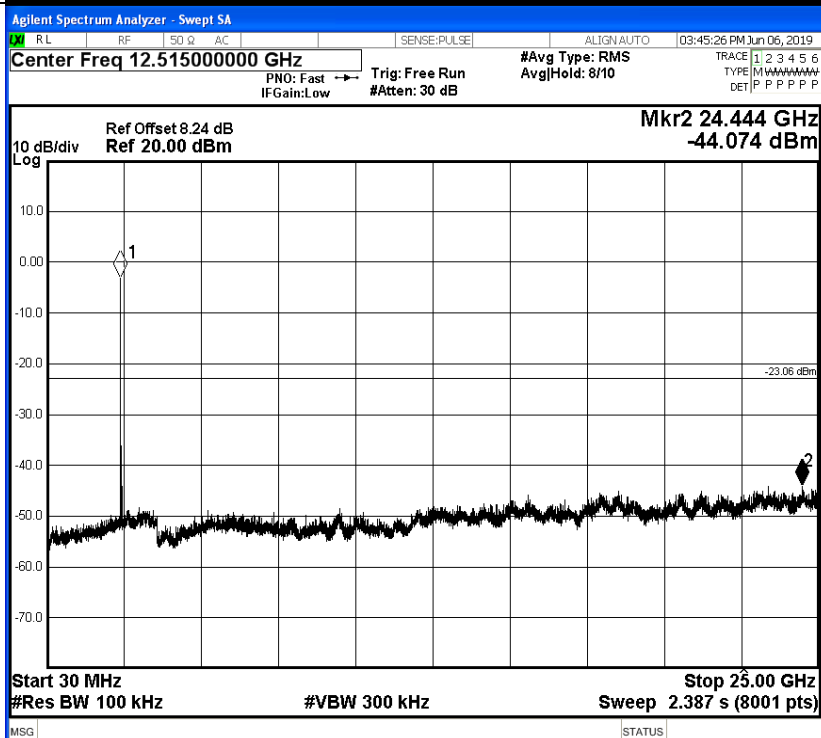
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.059	-44.074	-23.059	PASS
BT LE	MCH	-1.746	-44.278	-21.746	PASS
BT LE	HCH	-2.612	-44.770	-22.612	PASS

BT LE LCH Graphs

Pref/BT LE/LCH



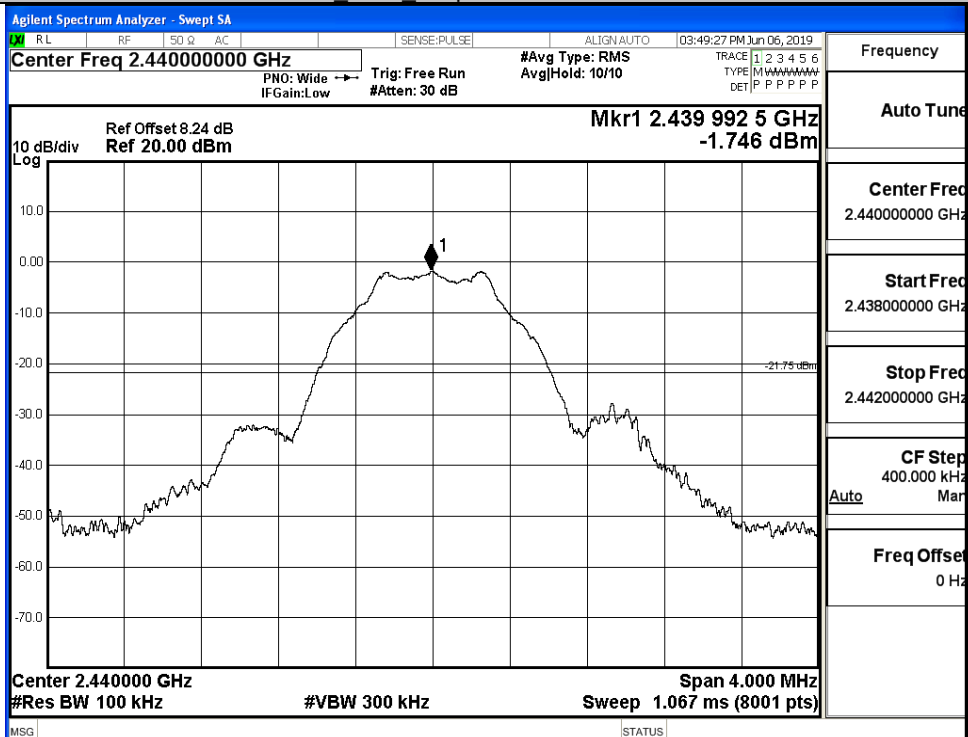
Puw/BT LE/LCH



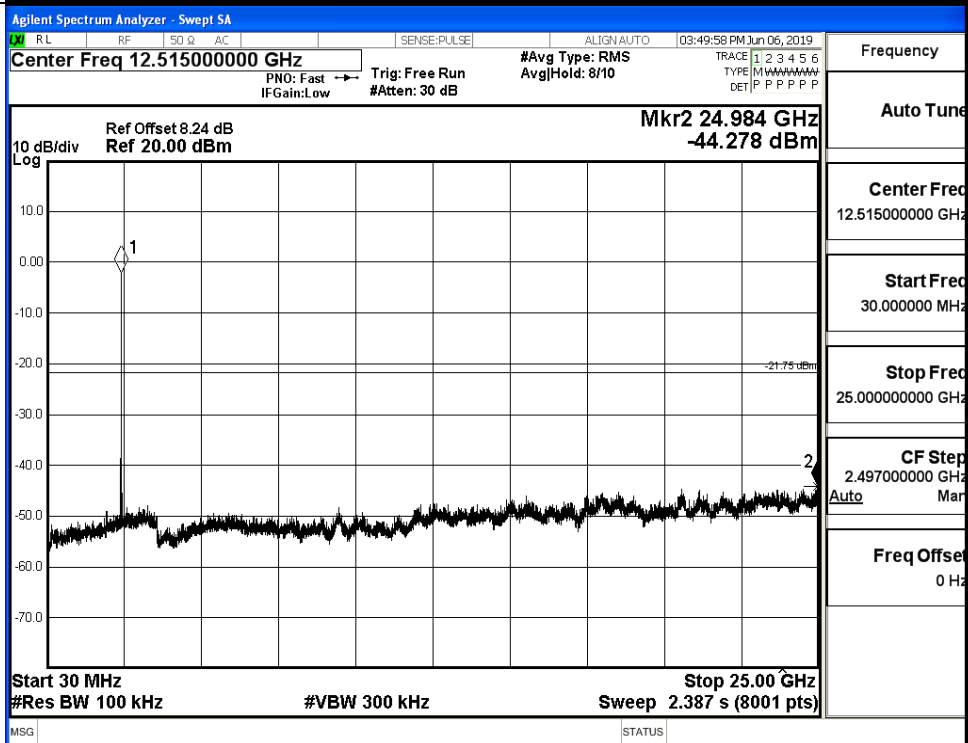
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BT LE MCH Graphs

Pref/BT LE/MCH

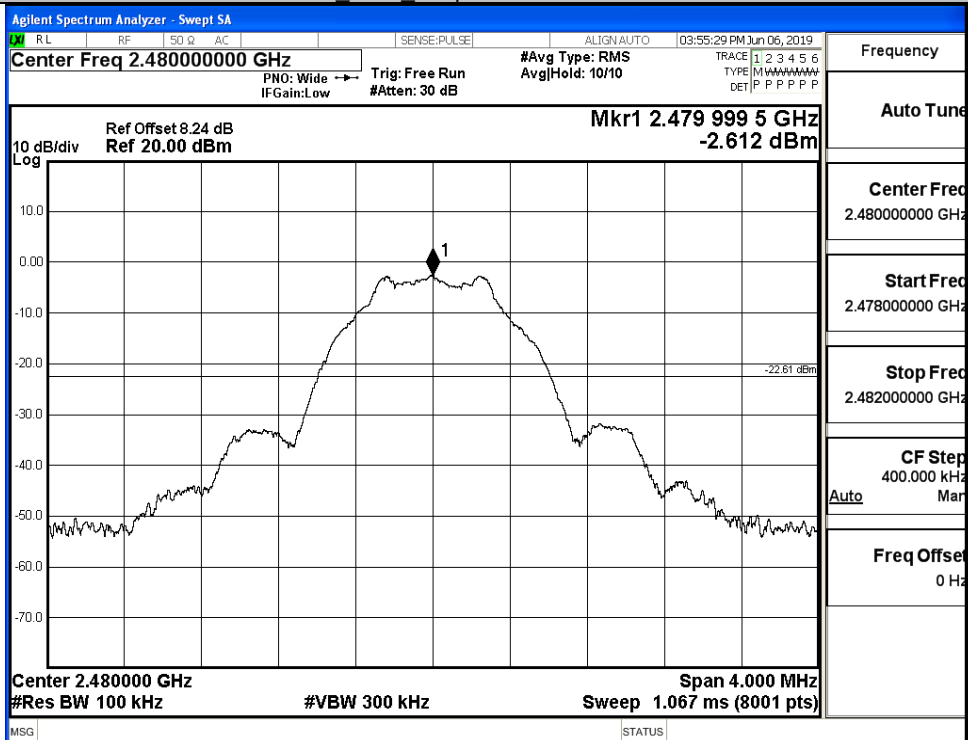


Puw/BT LE/MCH

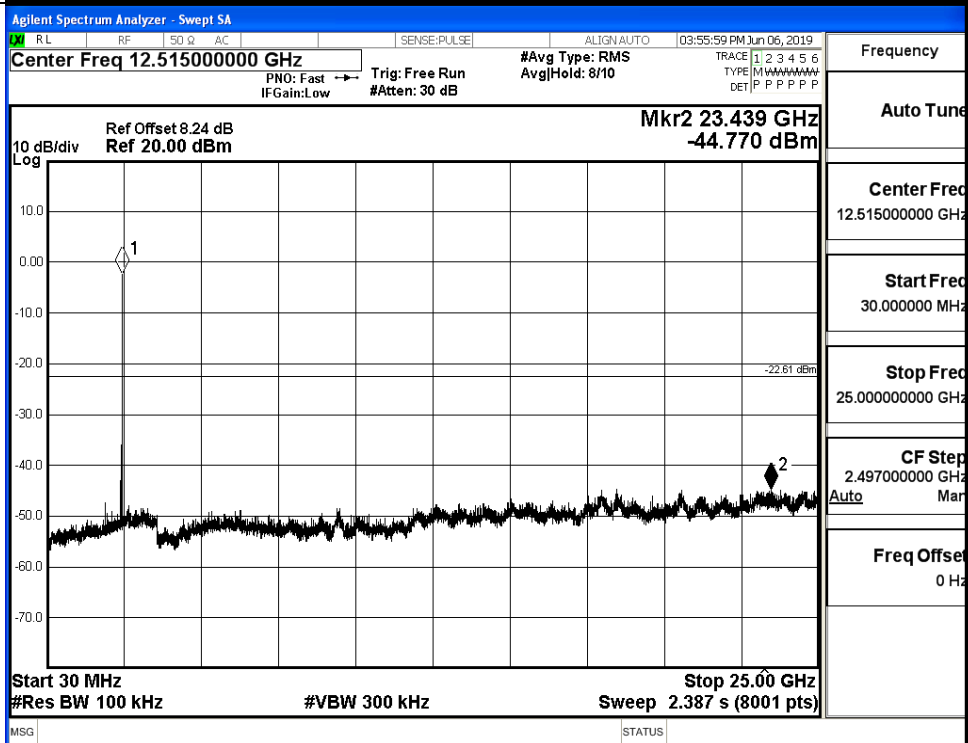


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

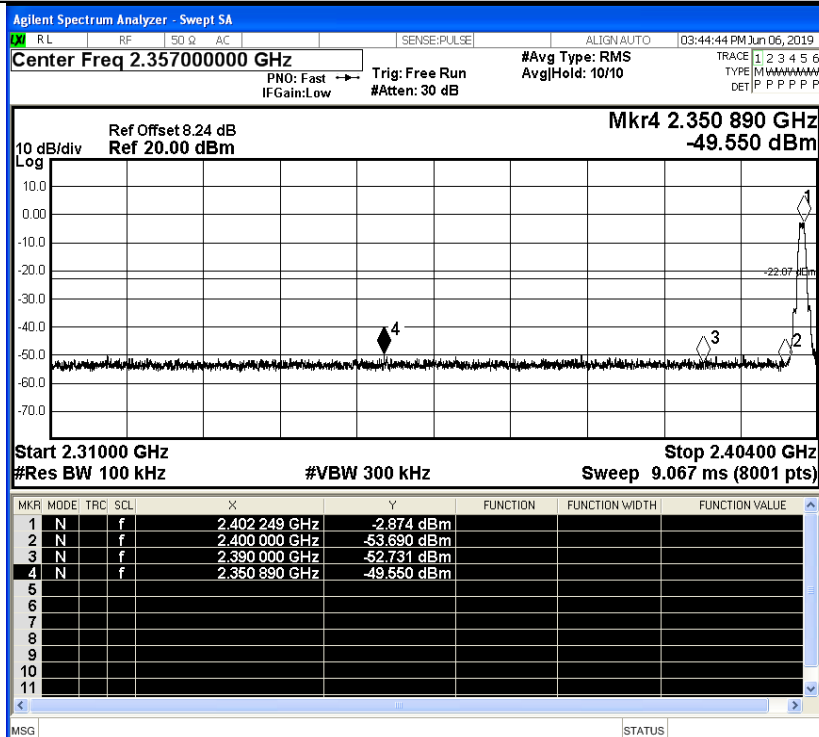


A.6 Band-edge for RF Conducted Emissions

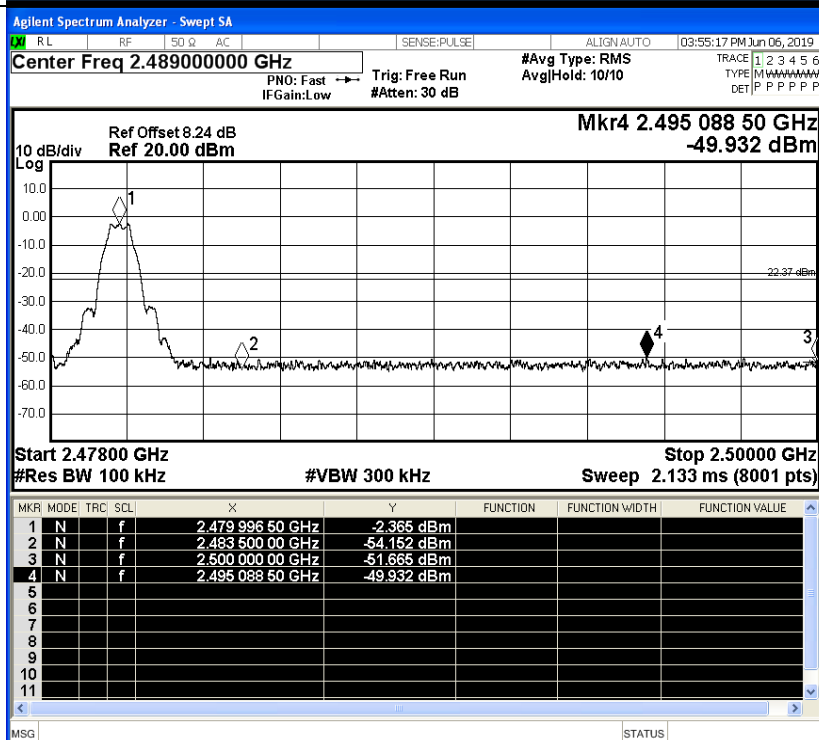
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.874	-49.550	-22.87	PASS
BT LE	HCH	-2.365	-49.932	-22.37	PASS

Test Graphs

LCH



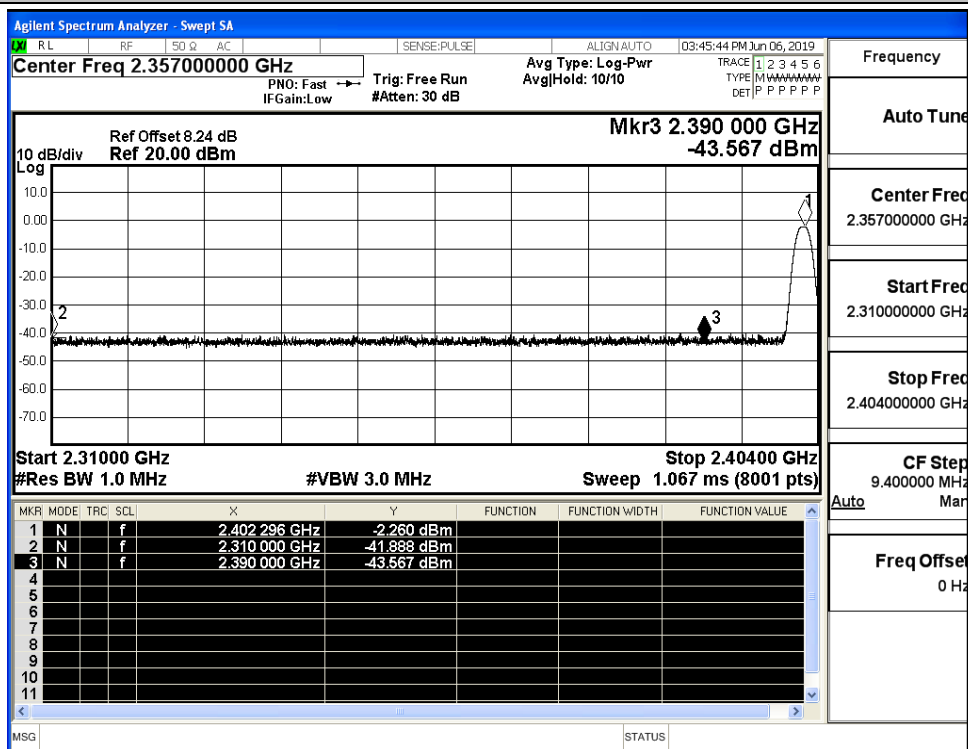
HCH



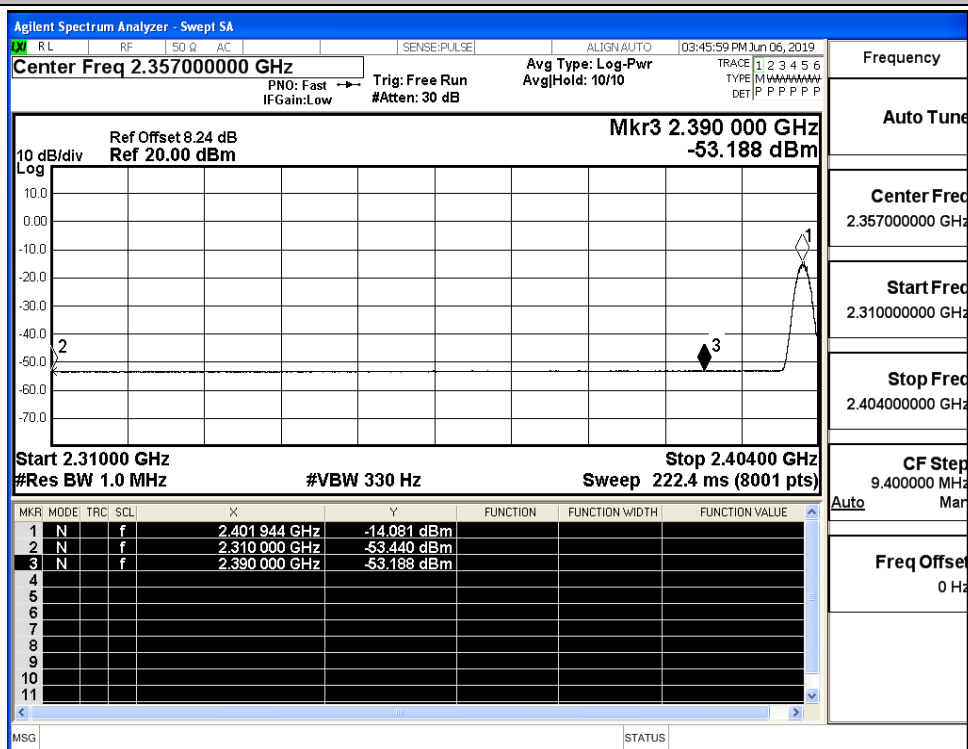
A.7 Restrict-band band-edge measurements

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	-41.89	2.34	0	55.71	PEAK	74	PASS
		Ant1	2310.0	-53.44	2.34	0	44.16	AV	54	PASS
		Ant1	2390.0	-43.57	2.34	0	54.03	PEAK	74	PASS
		Ant1	2390.0	-53.19	2.34	0	44.41	AV	54	PASS
	2480	Ant1	2483.5	-43.09	2.34	0	54.51	PEAK	74	PASS
		Ant1	2483.5	-52.84	2.34	0	44.76	AV	54	PASS
		Ant1	2500.0	-41.82	2.34	0	55.78	PEAK	74	PASS
		Ant1	2500.0	-52.86	2.34	0	44.74	AV	54	PASS

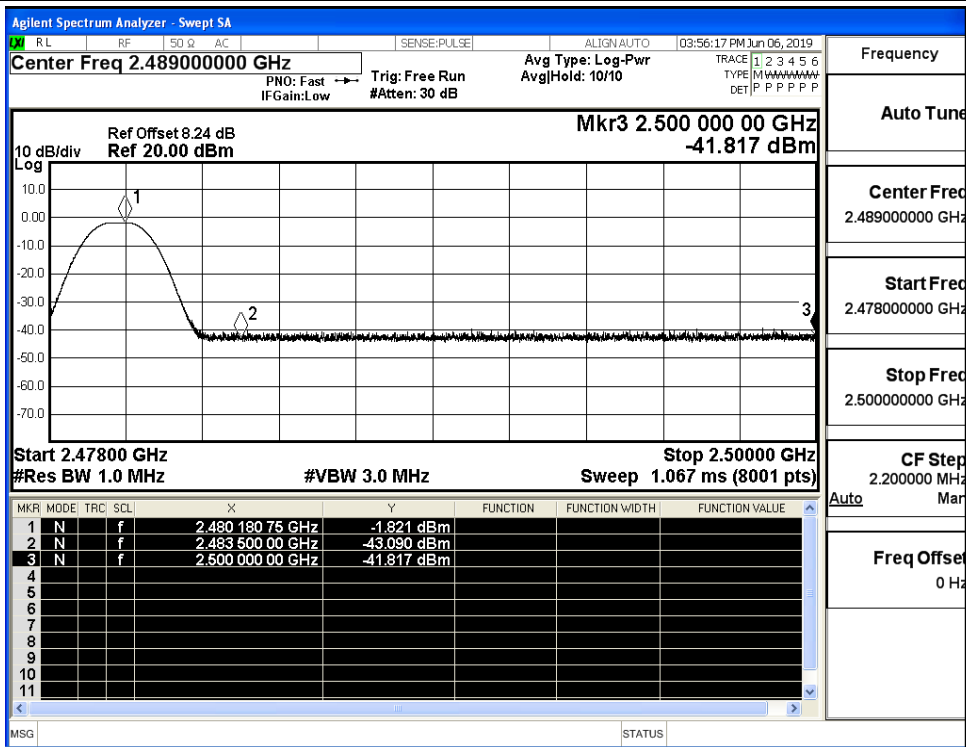
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

