

Appendix B

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

Product Name: Bluetooth Speaker

Trade Mark: Brookstone

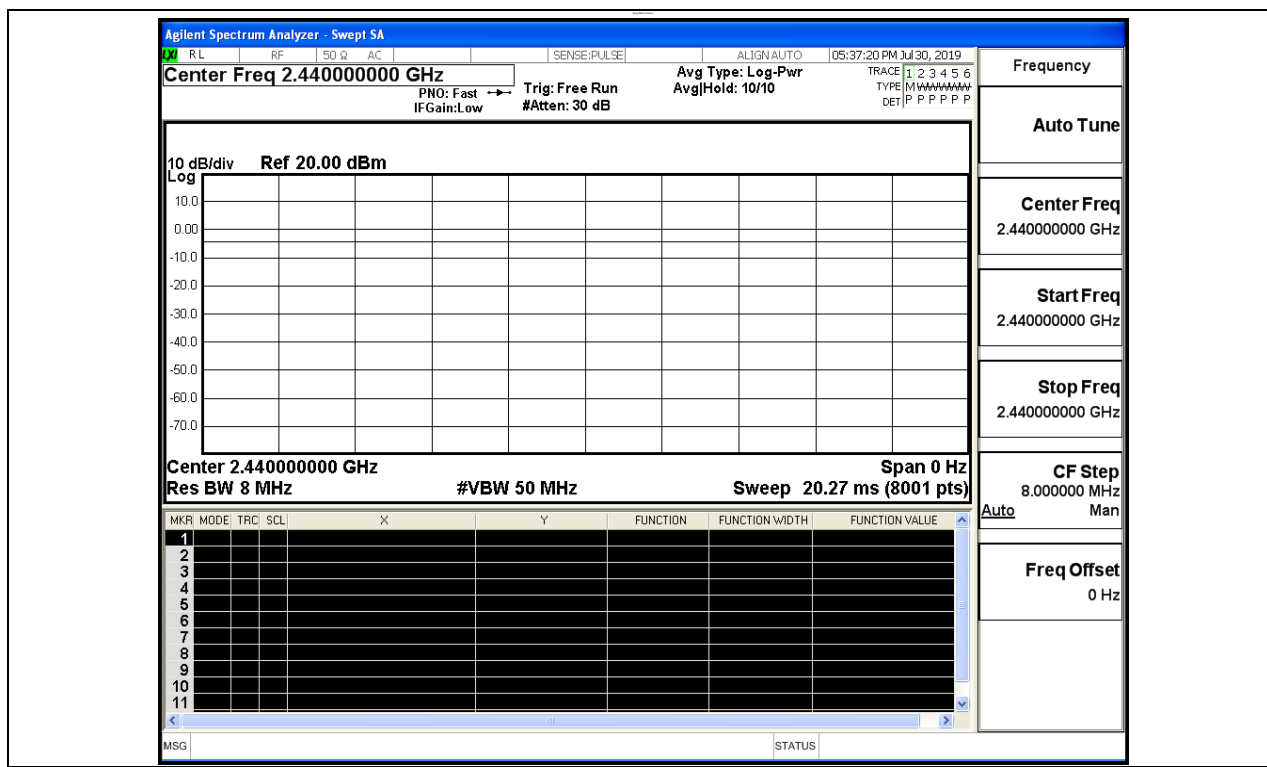
Test Model: BSSK9015

Environmental Conditions

Temperature:	24.9 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
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

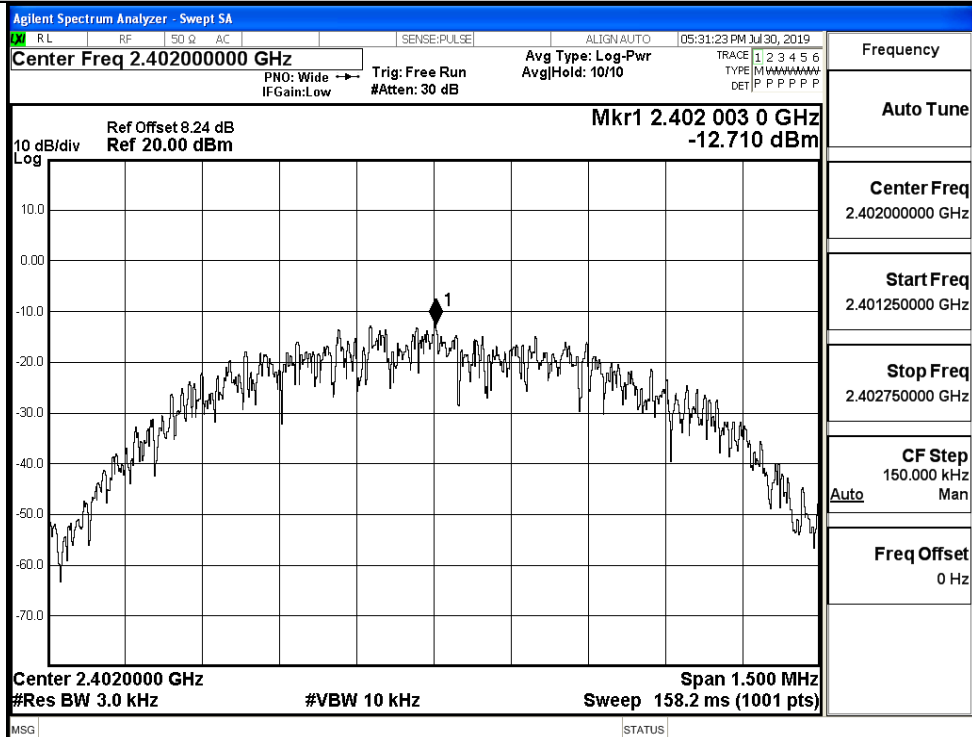
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.966	30	PASS
BT LE	MCH	3.888	30	PASS
BT LE	HCH	4.303	30	PASS

B.3 Maximum Power Spectral Density

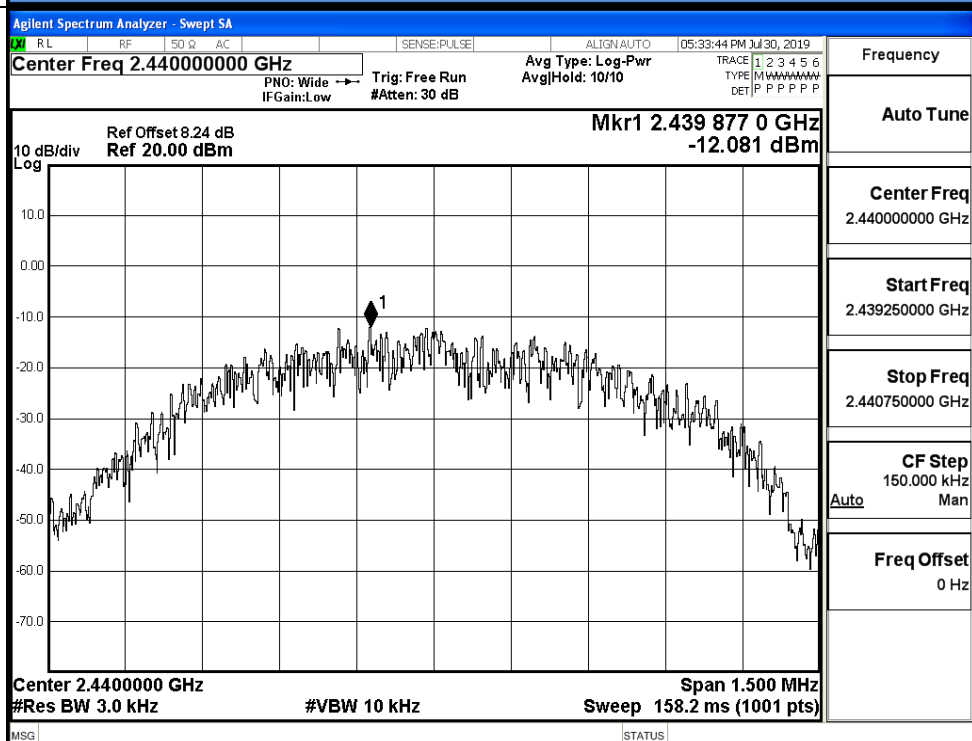
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.710	8	PASS
BT LE	MCH	-12.081	8	PASS
BT LE	HCH	-11.462	8	PASS

Test Graphs

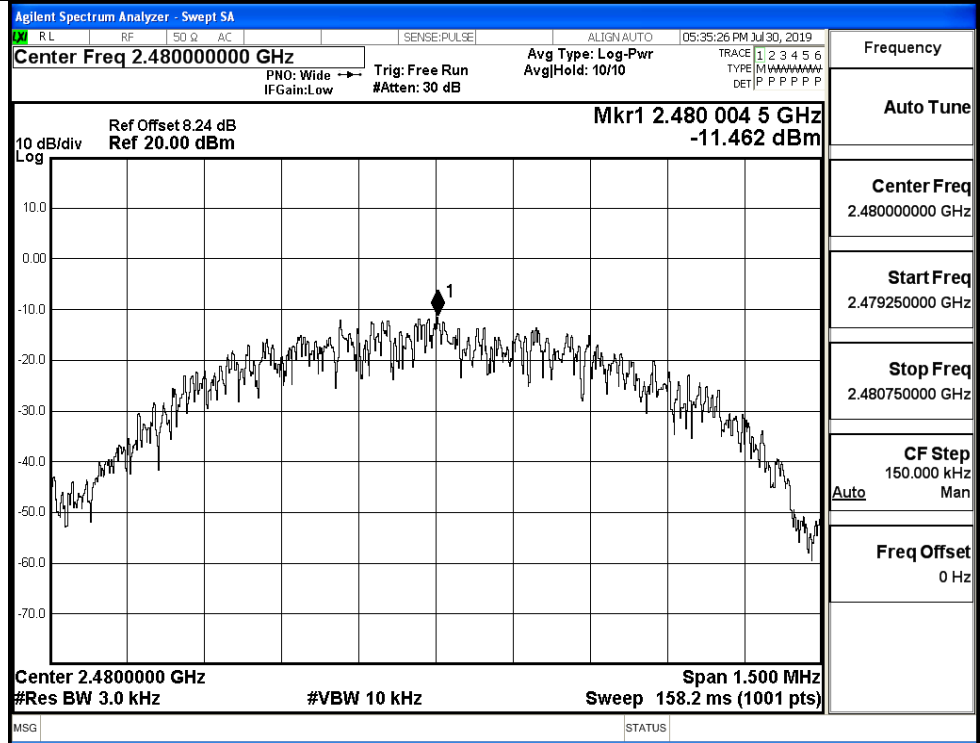
LCH



MCH



HCH

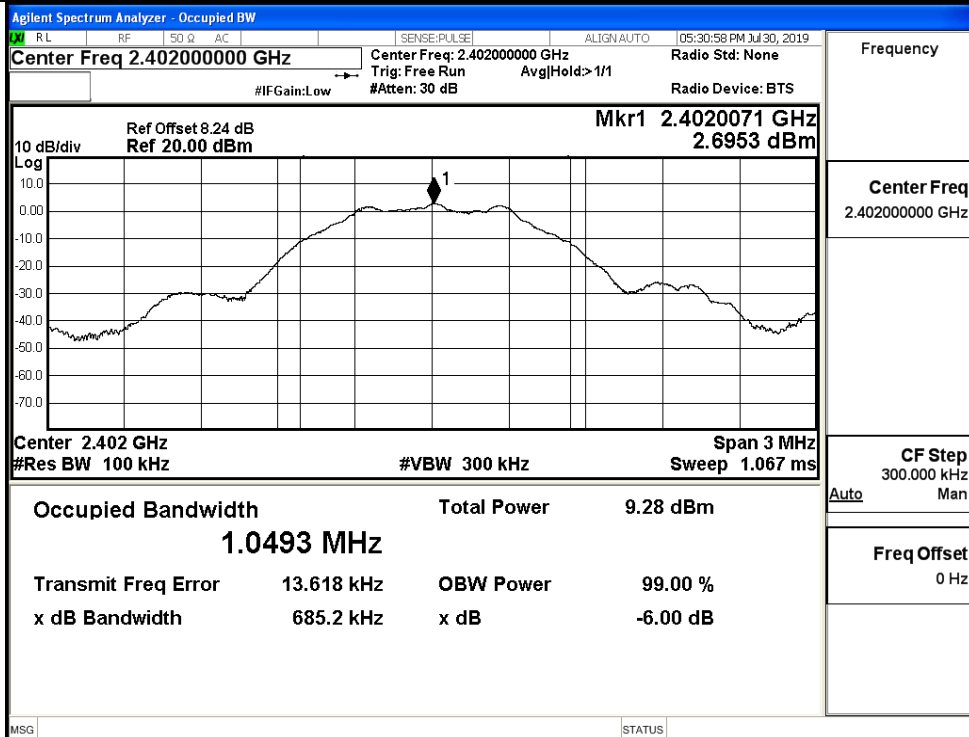


B.4 6dB Bandwidth

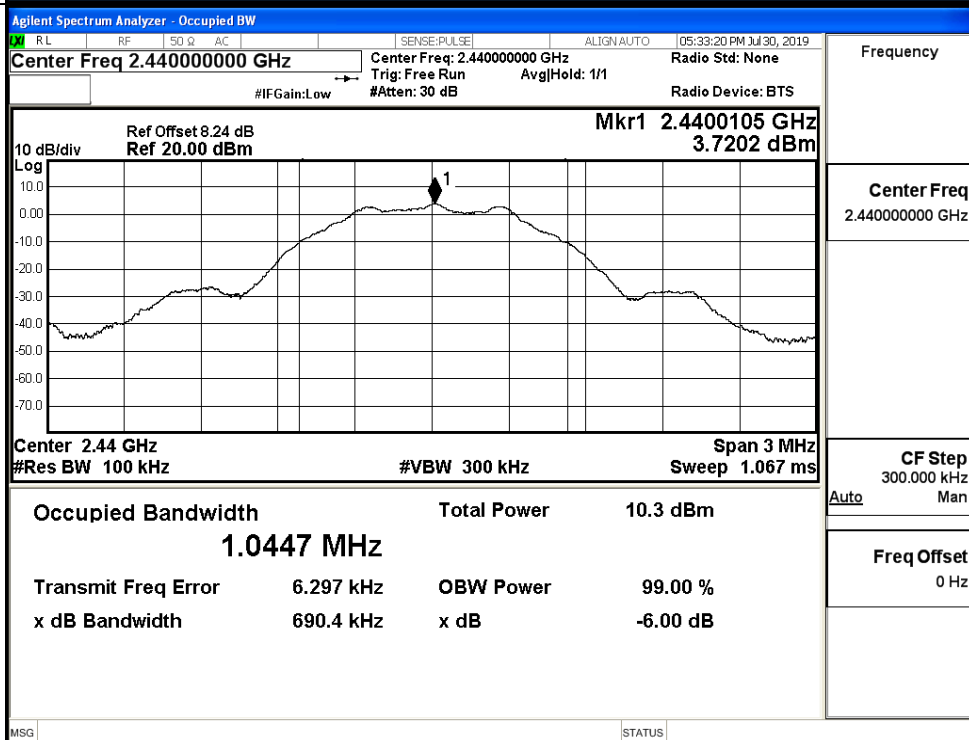
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6852	≥ 0.5	PASS
BT LE	MCH	0.6904	≥ 0.5	PASS
BT LE	HCH	0.6895	≥ 0.5	PASS

Test Graphs

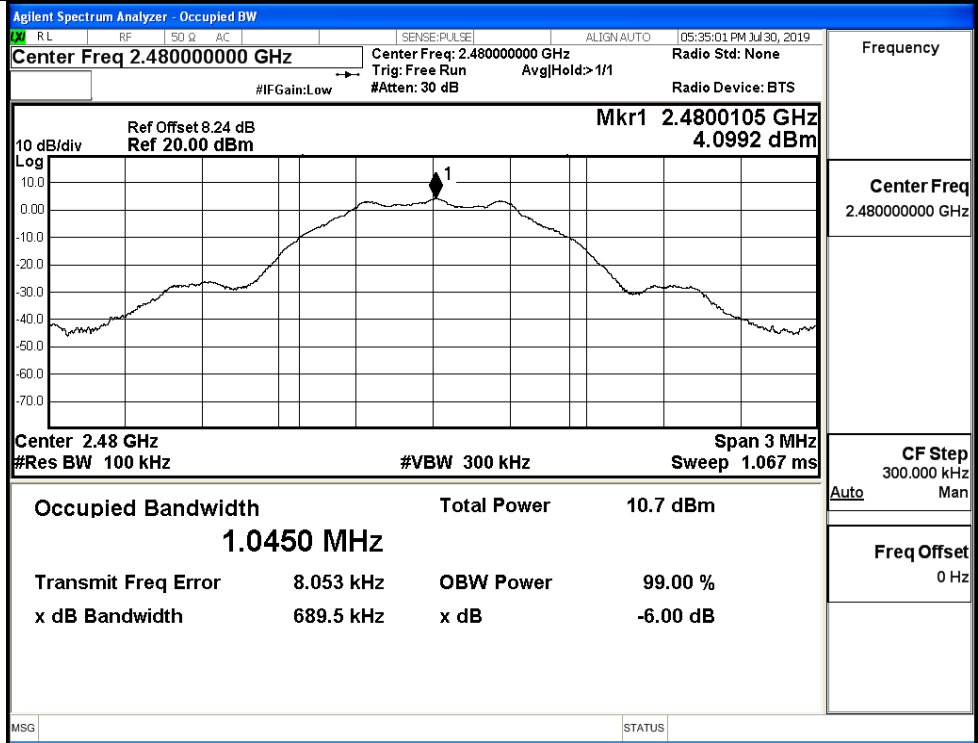
LCH



MCH

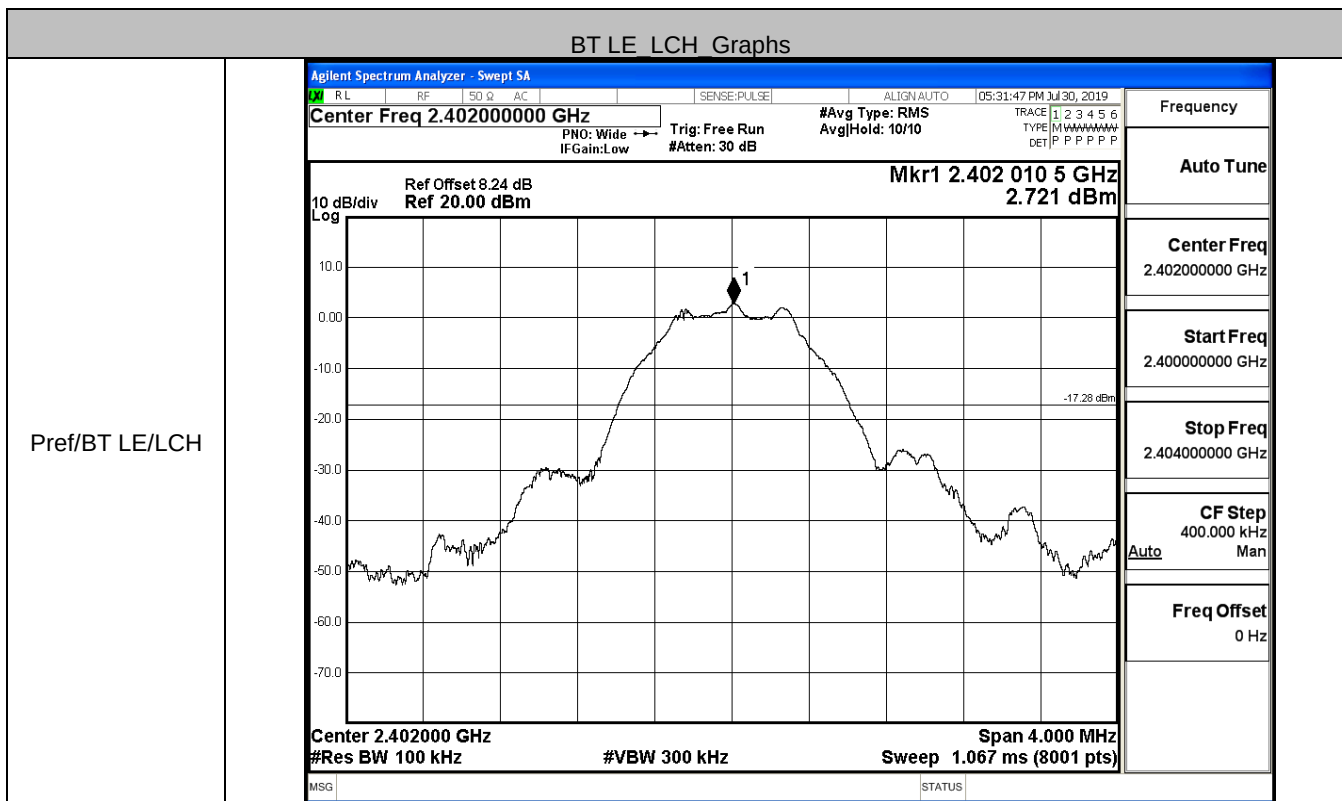


HCH



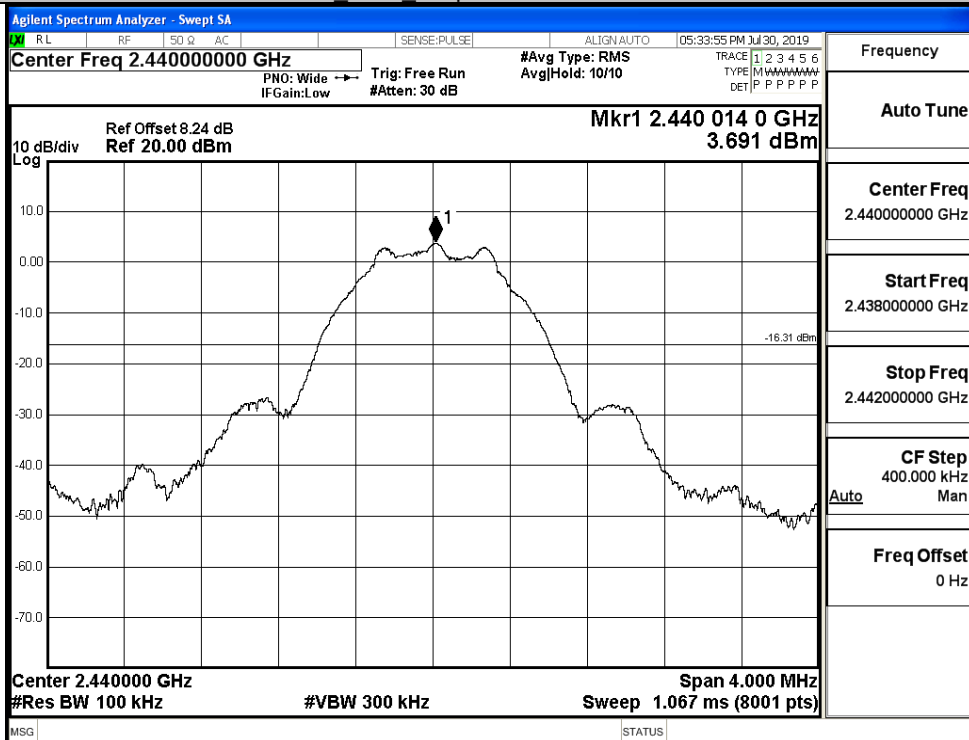
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.721	-43.707	-17.279	PASS
BT LE	MCH	3.691	-44.148	-16.309	PASS
BT LE	HCH	4.105	-43.727	-15.895	PASS

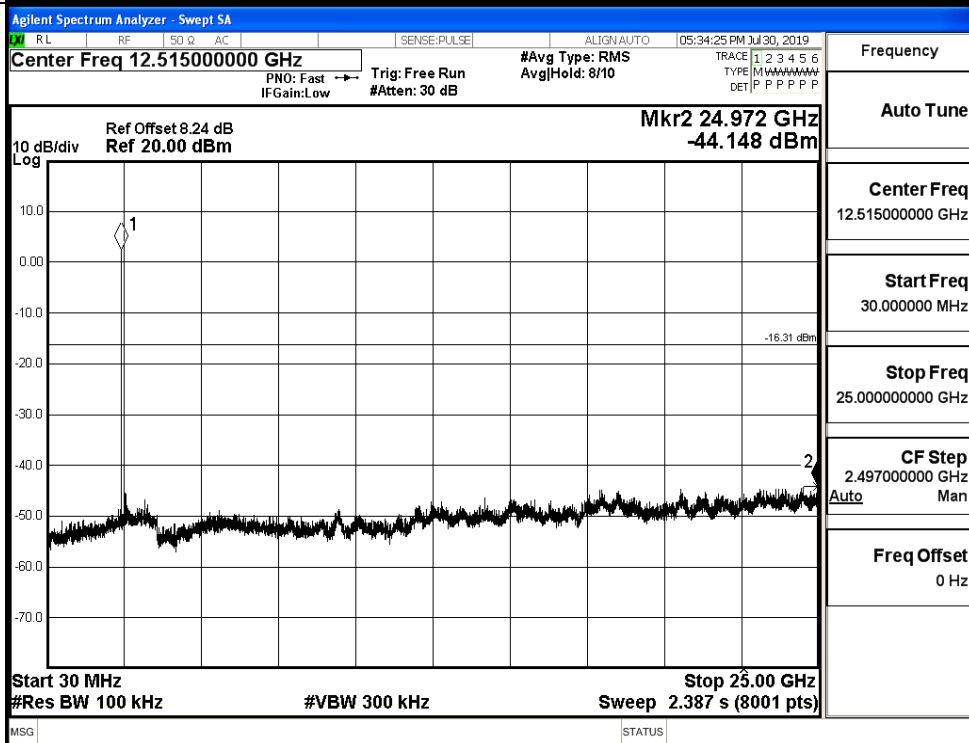


BT LE MCH Graphs

Pref/BT LE/MCH

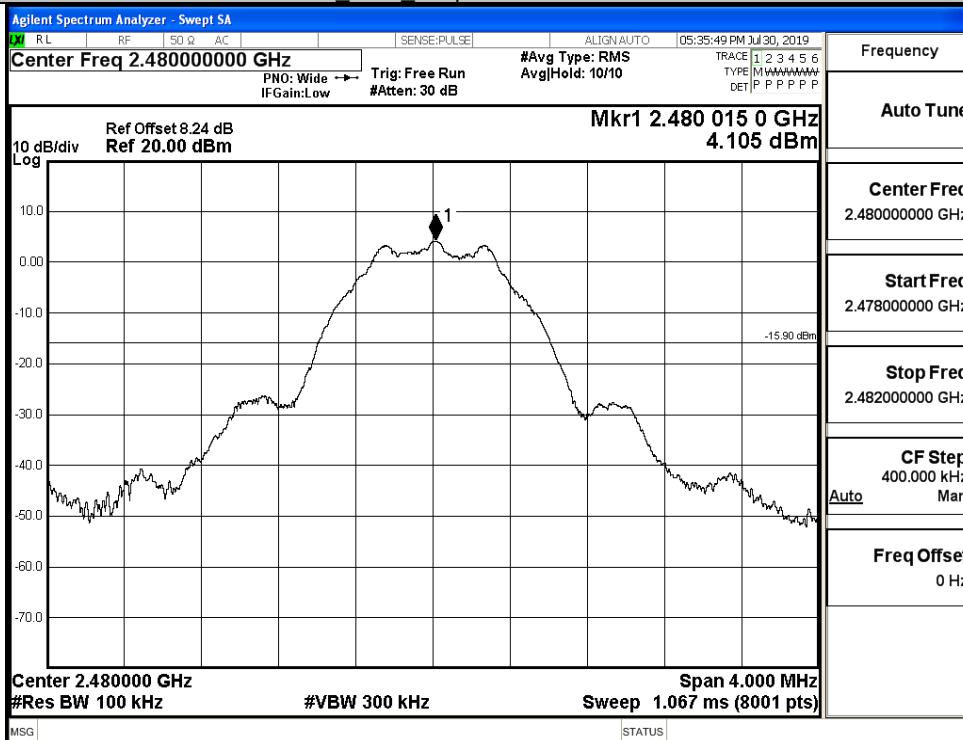


Puw/BT LE/MCH

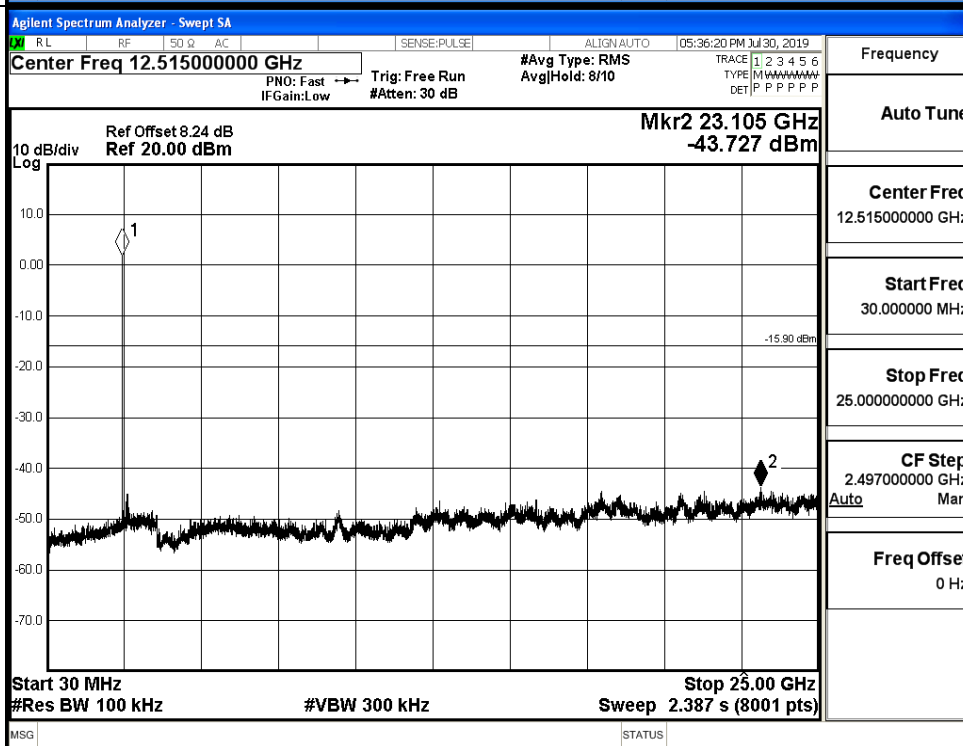


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

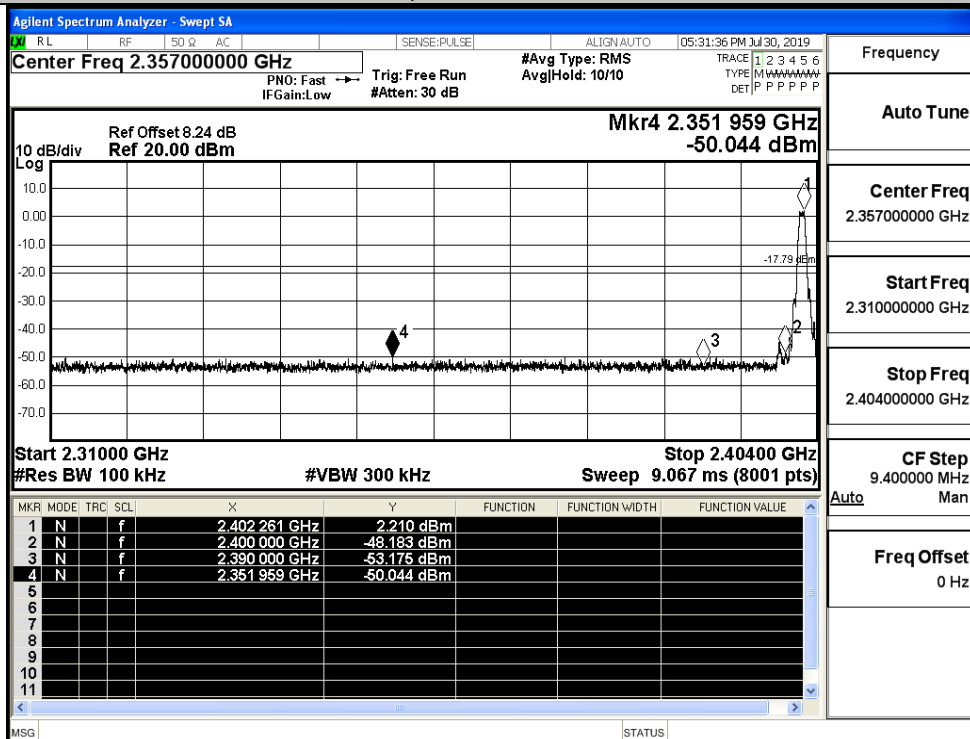


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.210	-50.044	-17.79	PASS
BT LE	HCH	4.267	-49.153	-15.73	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

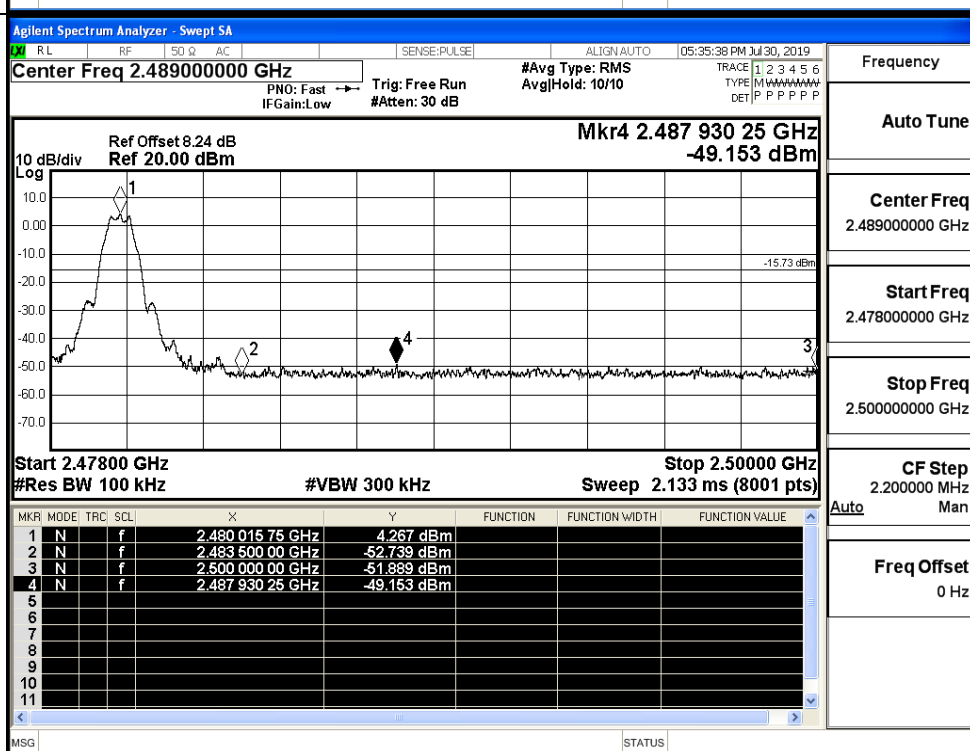
9.400000 MHz

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

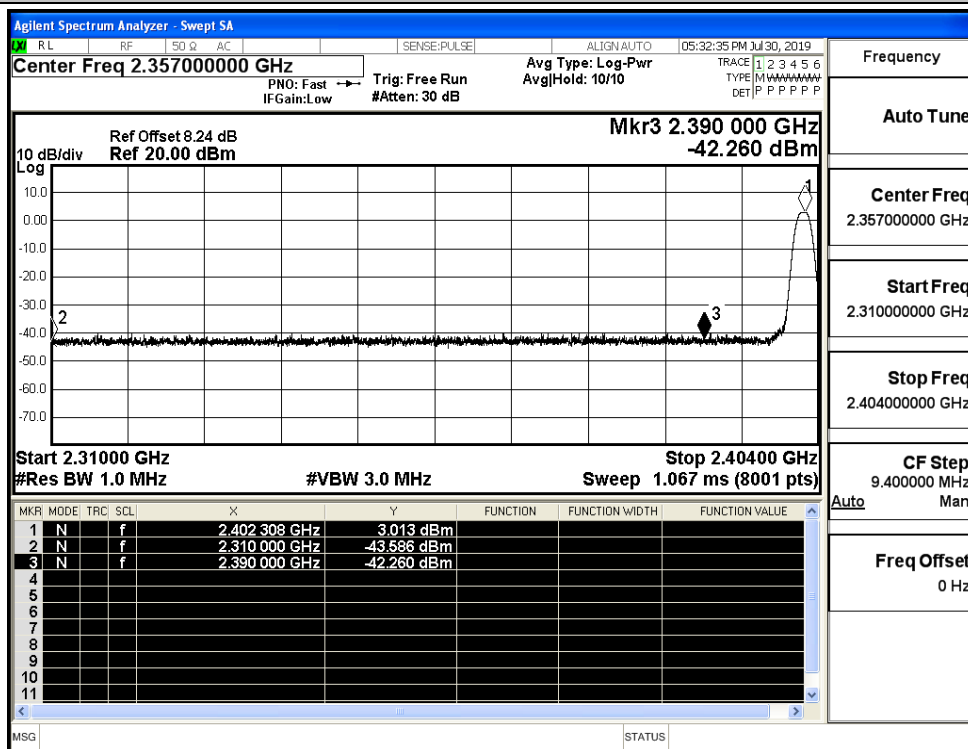
Freq Offset

0 Hz

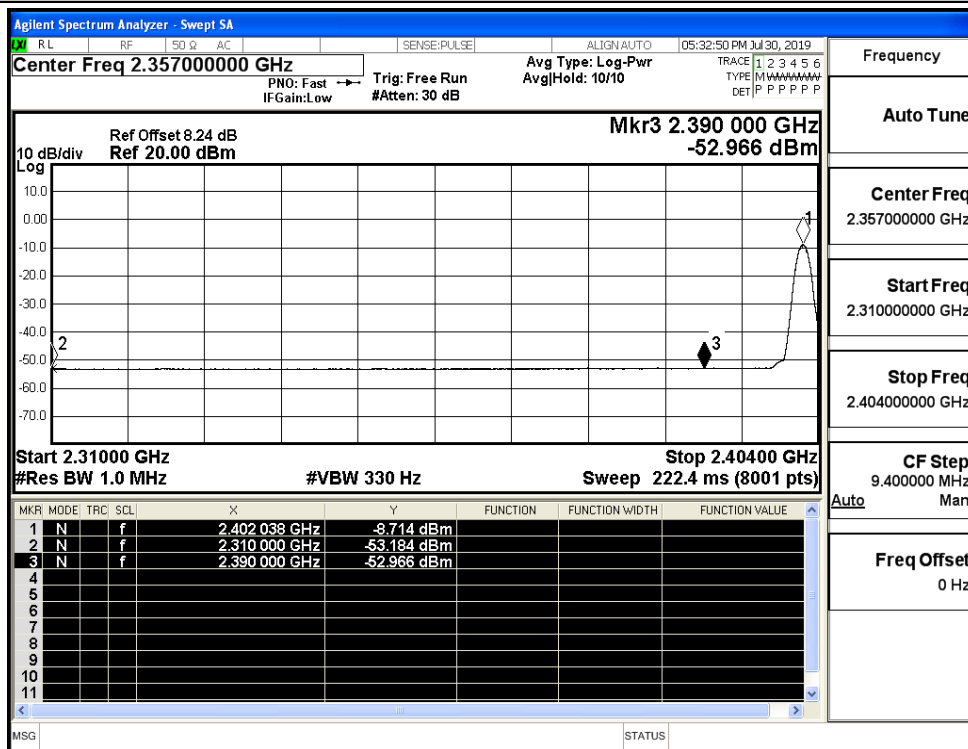
B.7 Restrict-band band-edge measurements

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	-43.59	2.0	0	53.67	PEAK	74	PASS
		Ant1	2310.0	-53.18	2.0	0	44.07	AV	54	PASS
		Ant1	2390.0	-42.26	2.0	0	55.00	PEAK	74	PASS
		Ant1	2390.0	-52.97	2.0	0	44.29	AV	54	PASS
	2480	Ant1	2483.5	-42.13	2.0	0	55.13	PEAK	74	PASS
		Ant1	2483.5	-52.18	2.0	0	45.08	AV	54	PASS
		Ant1	2500.0	-43.03	2.0	0	54.23	PEAK	74	PASS
		Ant1	2500.0	-52.59	2.0	0	44.67	AV	54	PASS

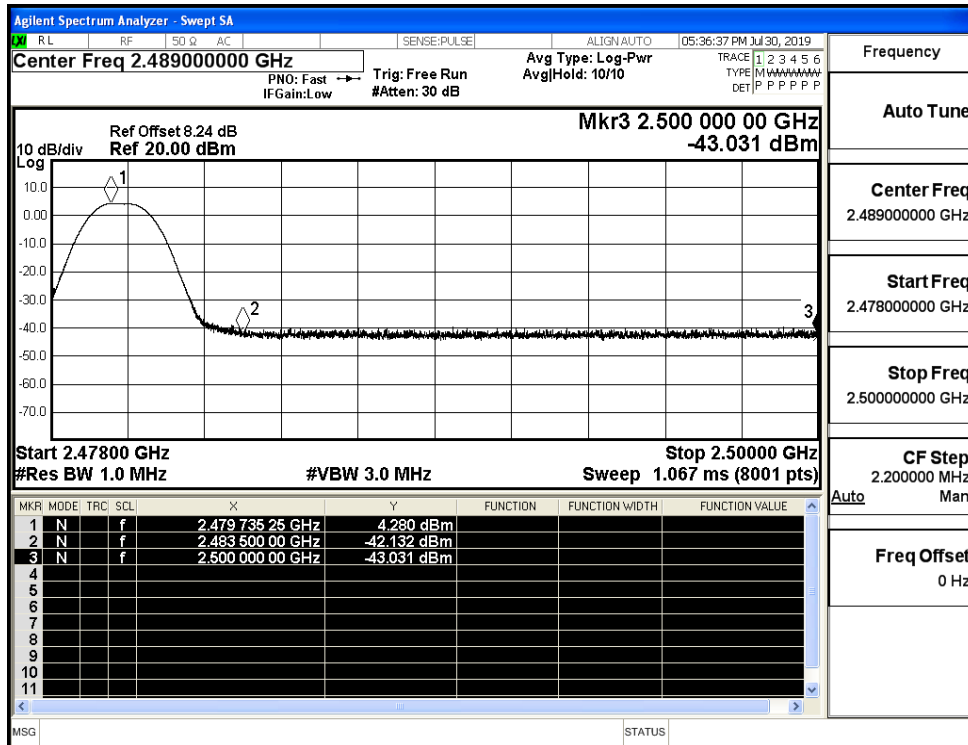
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

