

Appendix B

RF Test Data for BT V4.1 (BT LE) (Conducted Measurement)

Product Name: Wireless earbuds

Trade Mark: PrimeAudio

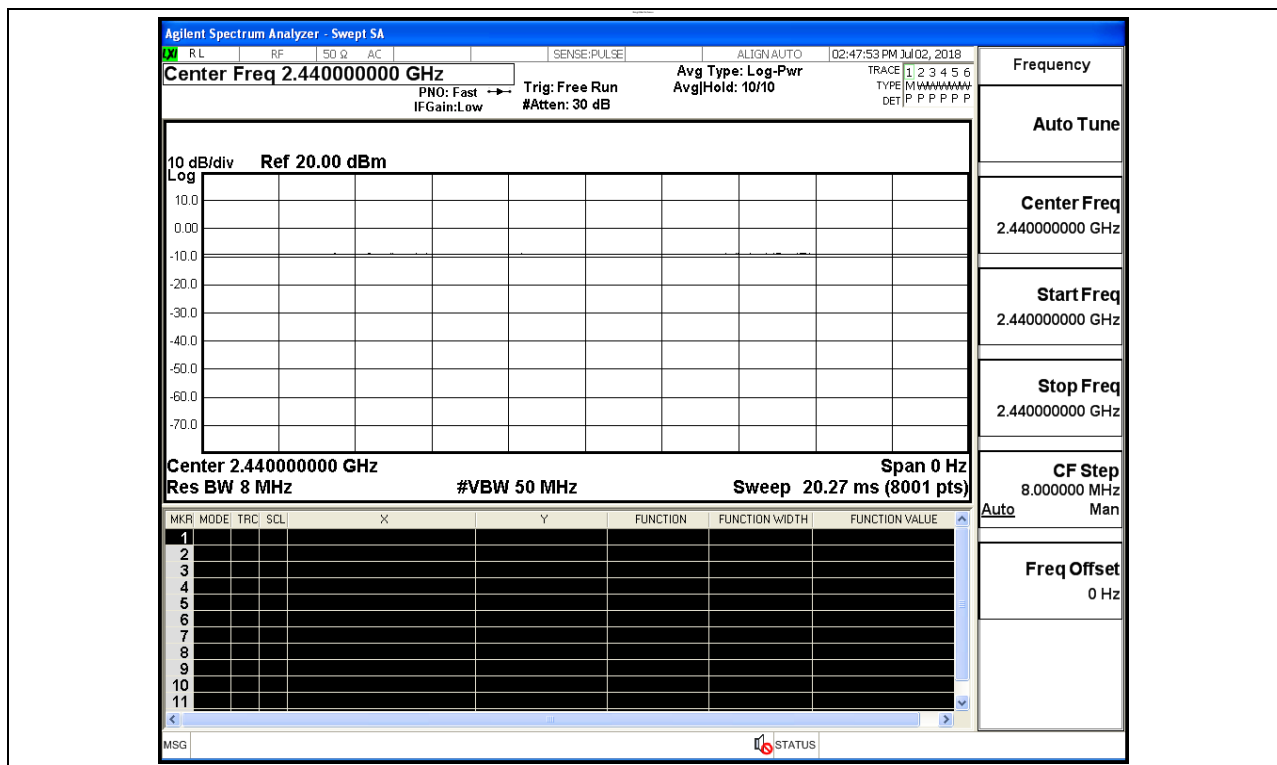
Test Model: PAEB1004-ASST

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

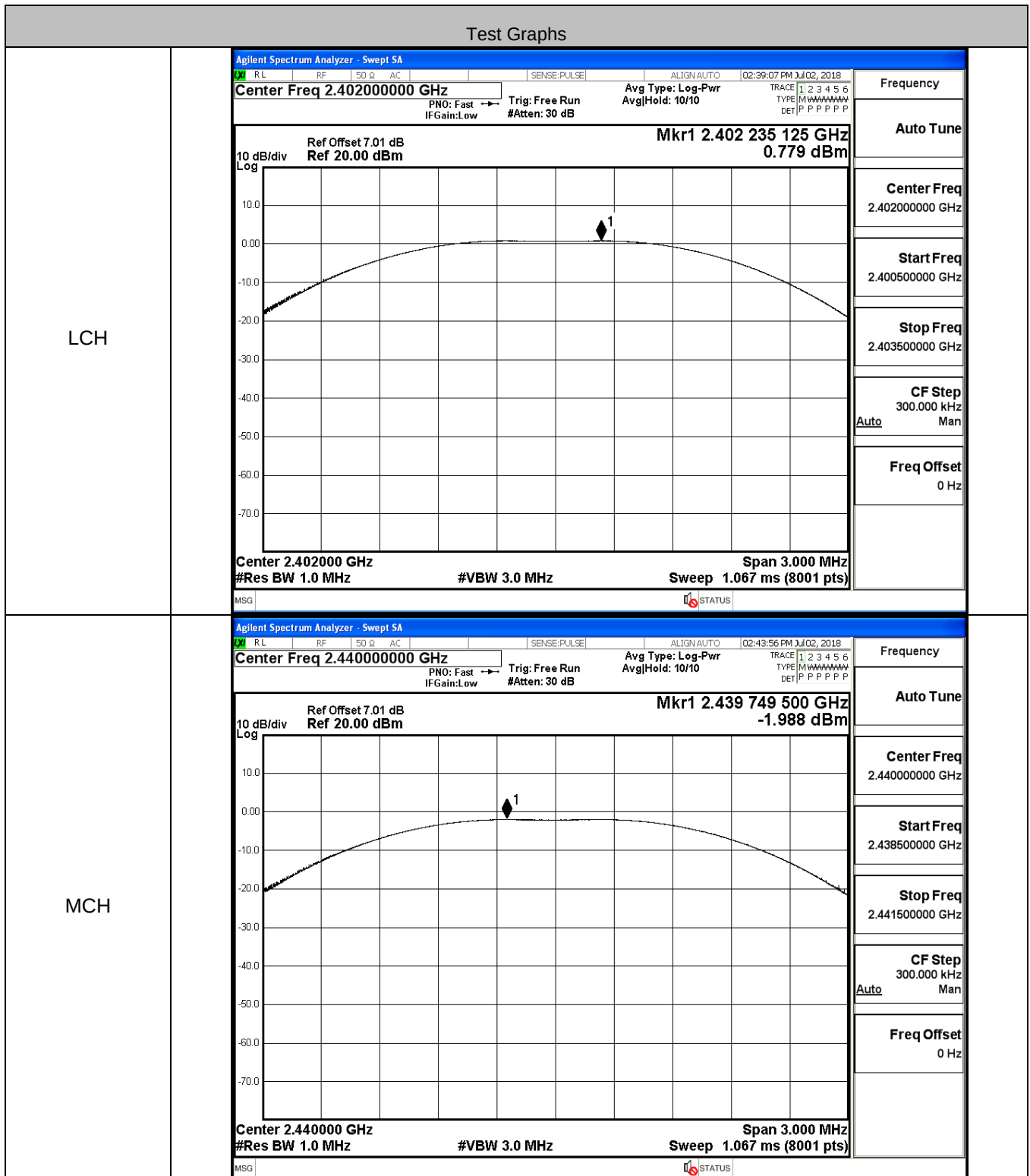
B.1 Duty Cycle

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

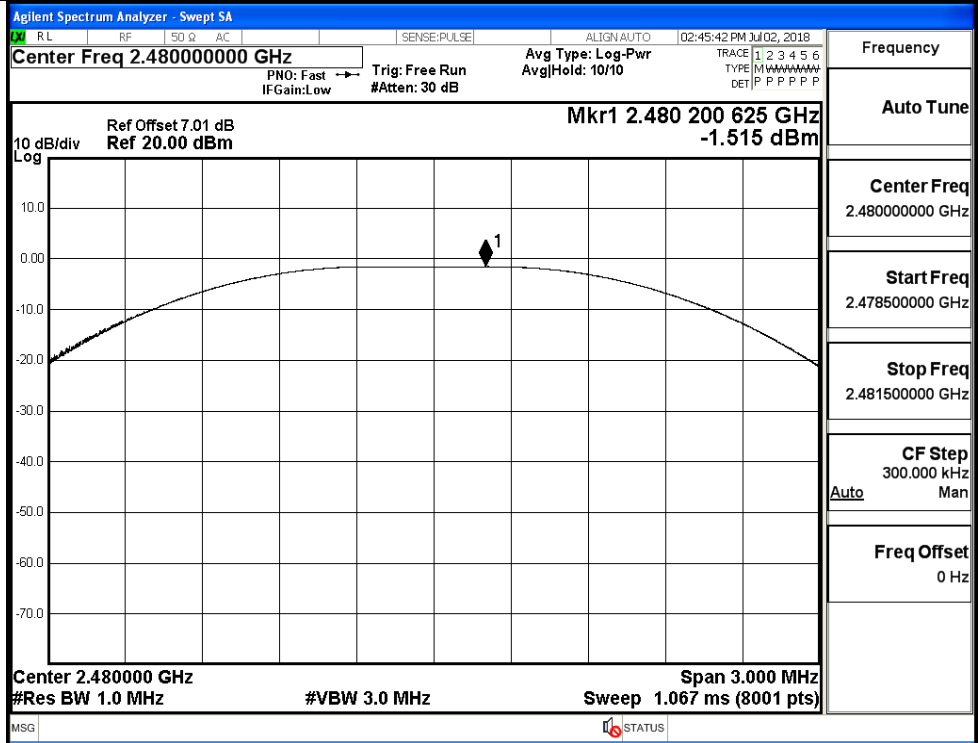


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.779	30	PASS
BT LE	MCH	-1.988	30	PASS
BT LE	HCH	-1.515	30	PASS



HCH

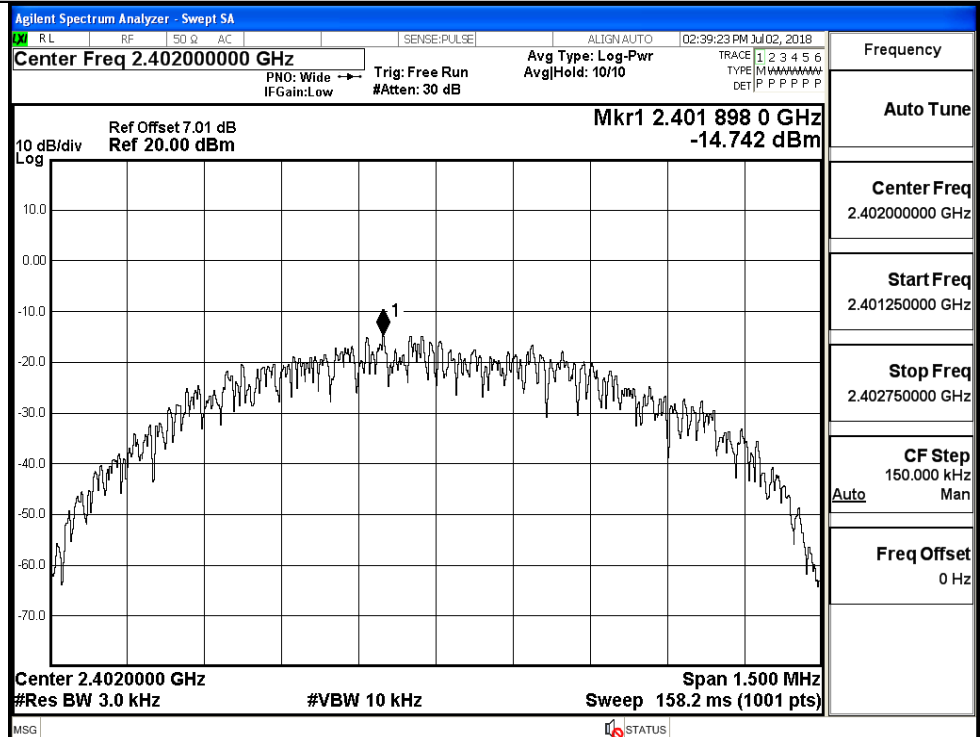


B.3 Maximum Power Spectral Density

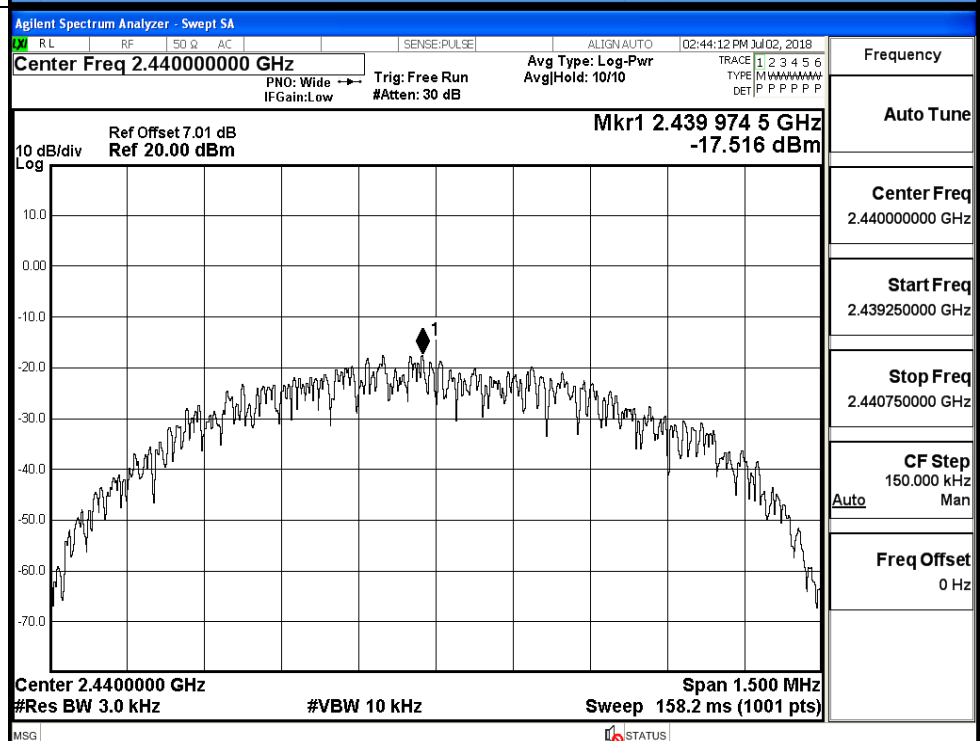
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.742	8	PASS
BT LE	MCH	-17.516	8	PASS
BT LE	HCH	-17.143	8	PASS

Test Graphs

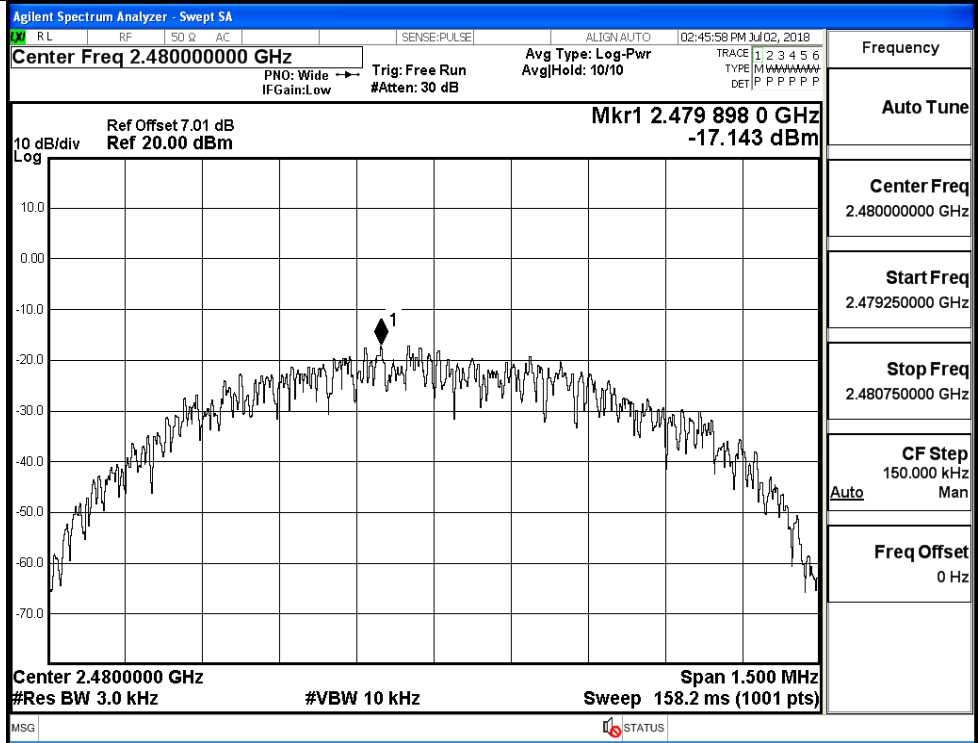
LCH



MCH



HCH

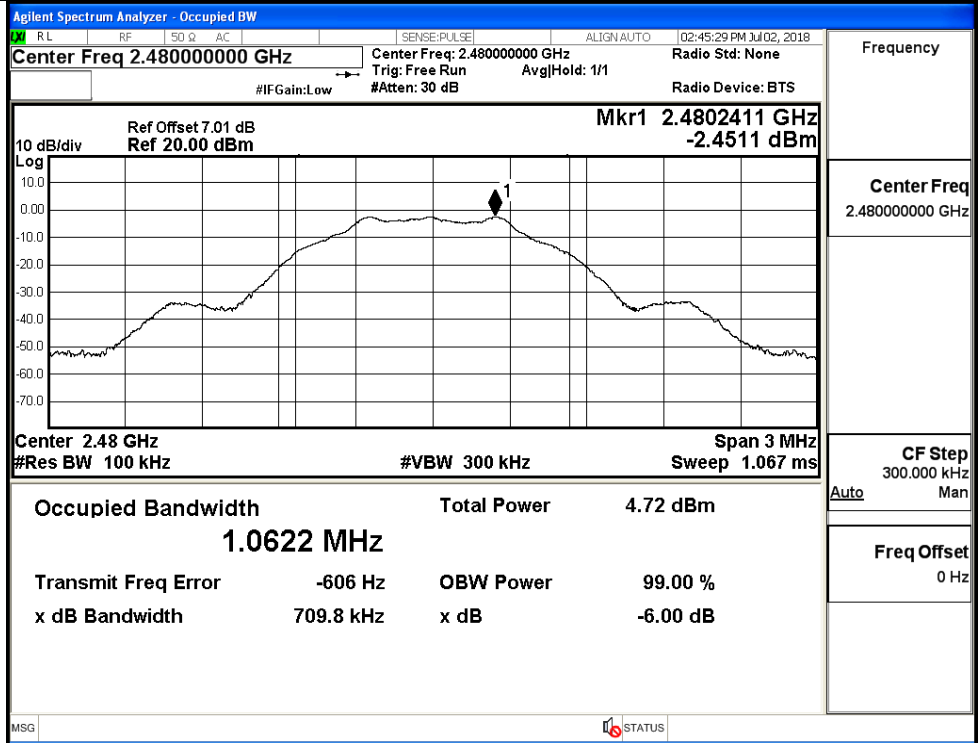


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7039	≥ 0.5	PASS
BT LE	MCH	0.7090	≥ 0.5	PASS
BT LE	HCH	0.7098	≥ 0.5	PASS

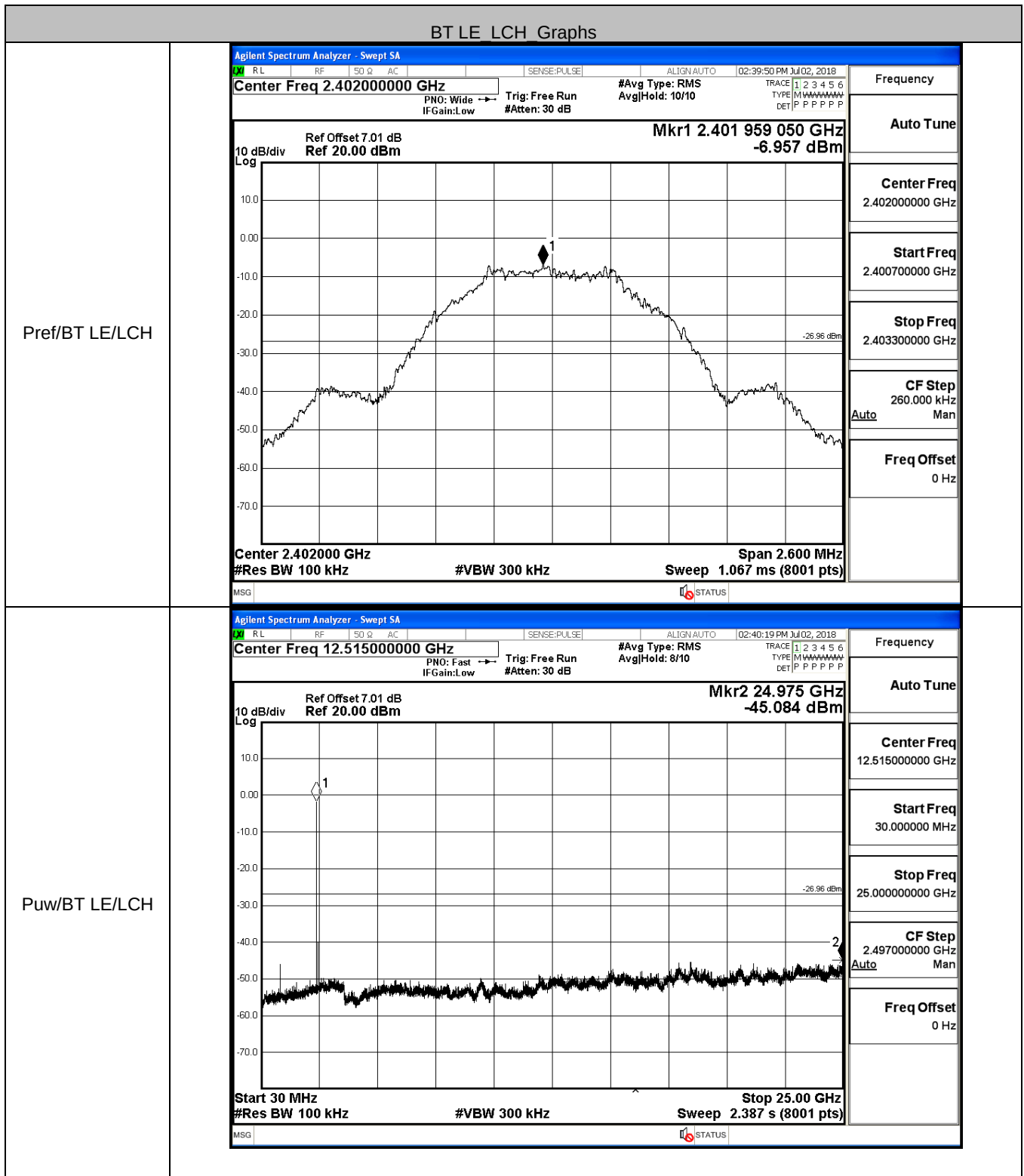
Test Graphs			
LCH		Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 02:38:53 PM Jul 02, 2018 Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run AvgHold: 1/1 #IFGain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 7.01 dB Mkr1 2.4017465 GHz Ref 20.00 dBm -0.51733 dBm 10 dB/div Log Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms Occupied Bandwidth Total Power 6.01 dBm 1.0624 MHz Transmit Freq Error -1.023 kHz OBW Power 99.00 % x dB Bandwidth 703.9 kHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.402000000 GHz CF Step 300.000 kHz Man Freq Offset 0 Hz
		Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 02:43:42 PM Jul 02, 2018 Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None Trig: Free Run AvgHold: 1/1 #IFGain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 7.01 dB Mkr1 2.4402441 GHz Ref 20.00 dBm -2.9072 dBm 10 dB/div Log Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms Occupied Bandwidth Total Power 4.27 dBm 1.0615 MHz Transmit Freq Error -809 Hz OBW Power 99.00 % x dB Bandwidth 709.0 kHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.440000000 GHz CF Step 300.000 kHz Man Freq Offset 0 Hz

HCH



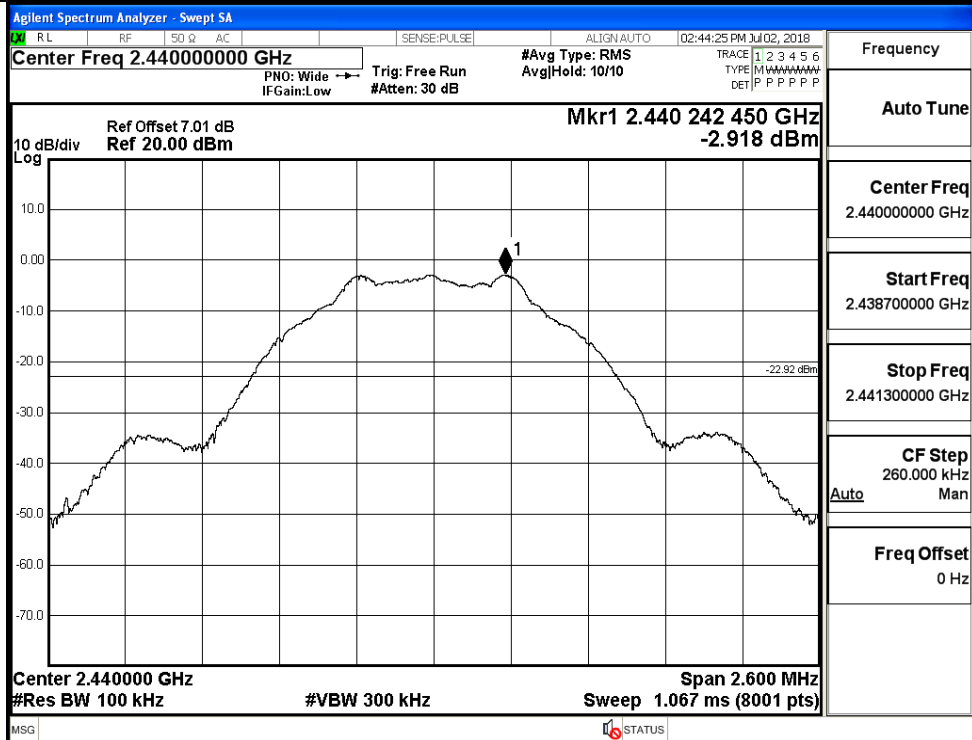
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.957	-45.084	-26.957	PASS
BT LE	MCH	-2.918	-45.536	-22.918	PASS
BT LE	HCH	-2.371	-44.972	-22.371	PASS

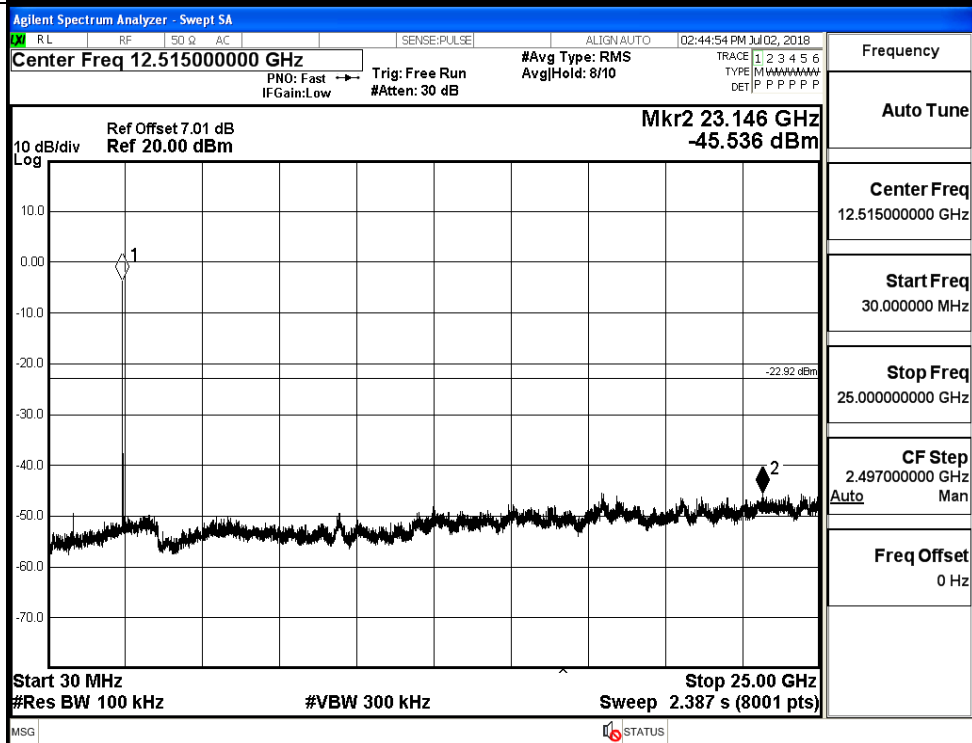


BT LE MCH Graphs

Pref/BT LE/MCH

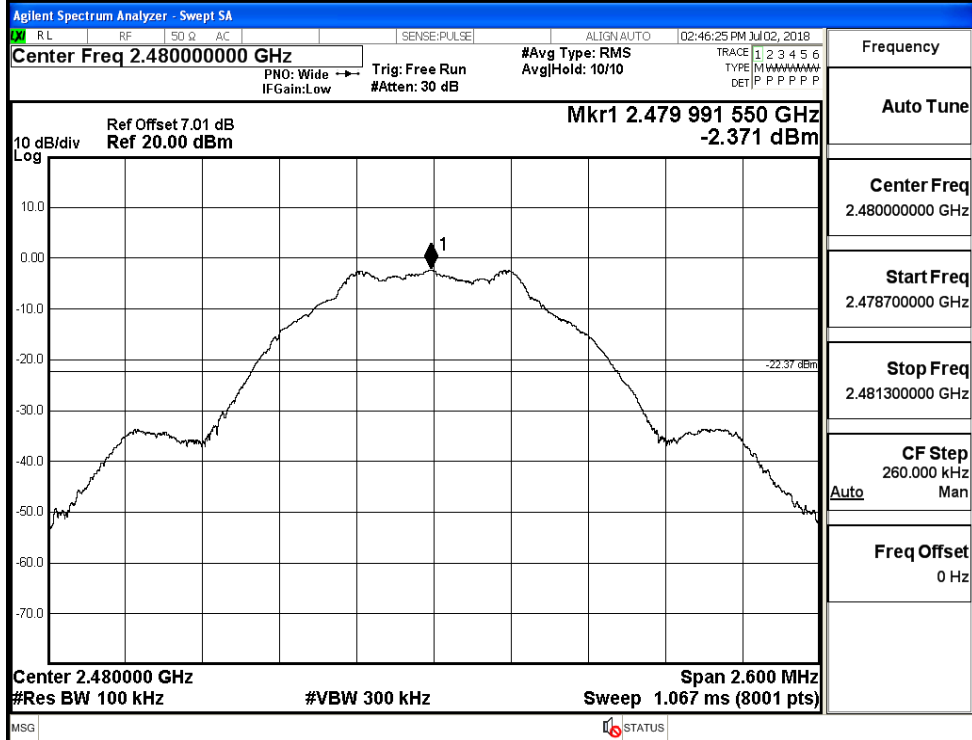


Puw/BT LE/MCH

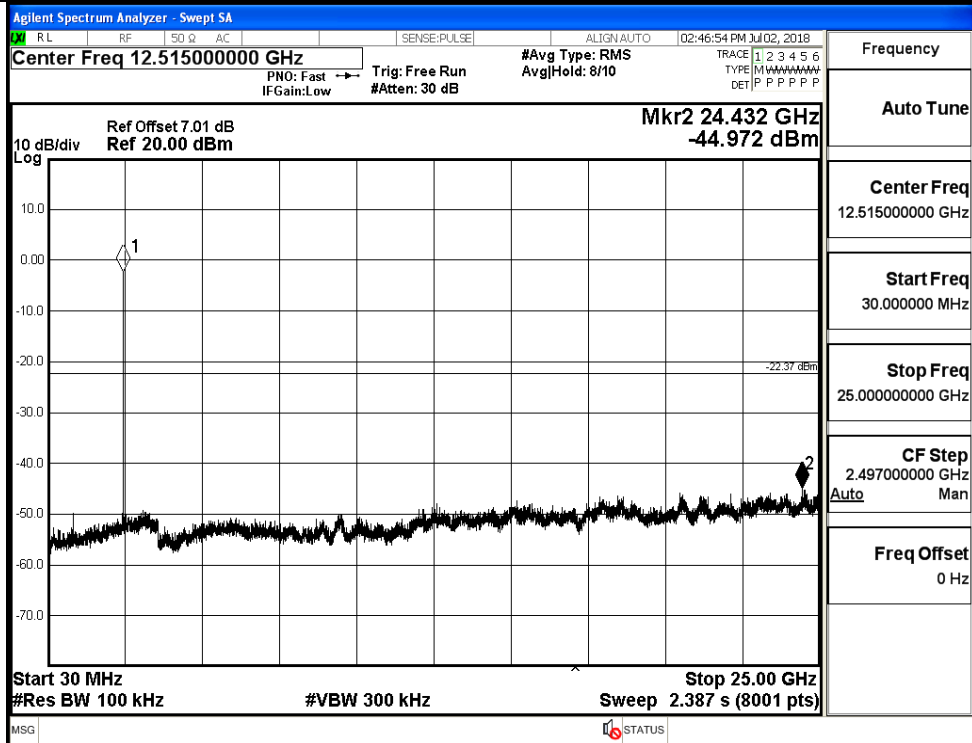


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

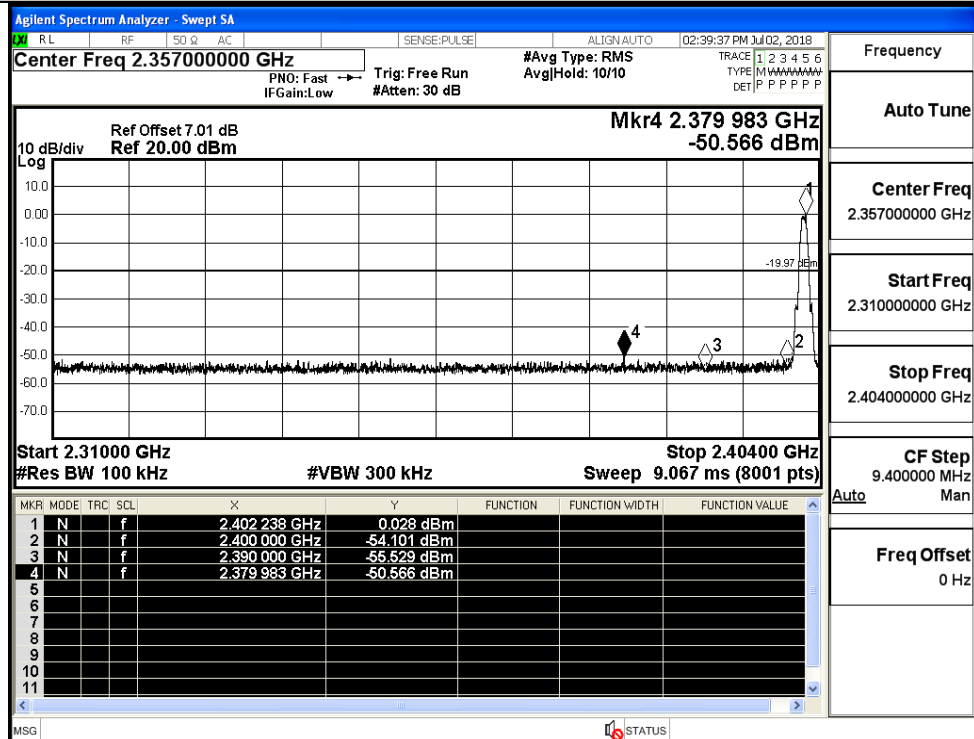


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.028	-50.566	-19.97	PASS
BT LE	HCH	-2.144	-50.950	-22.14	PASS

Test Graphs

LCH

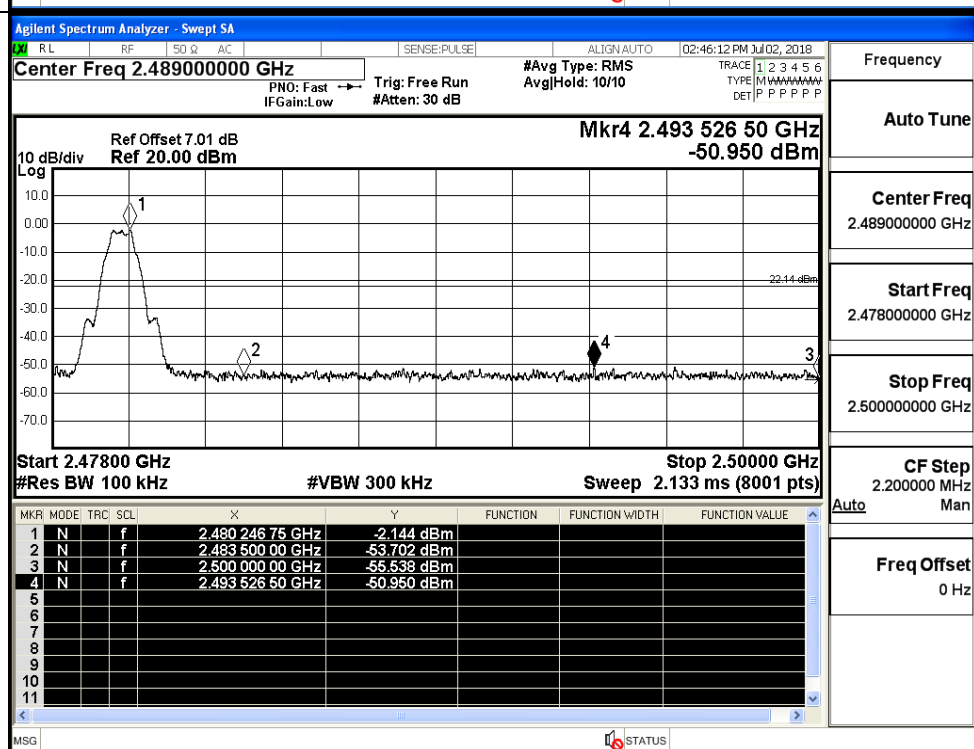


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

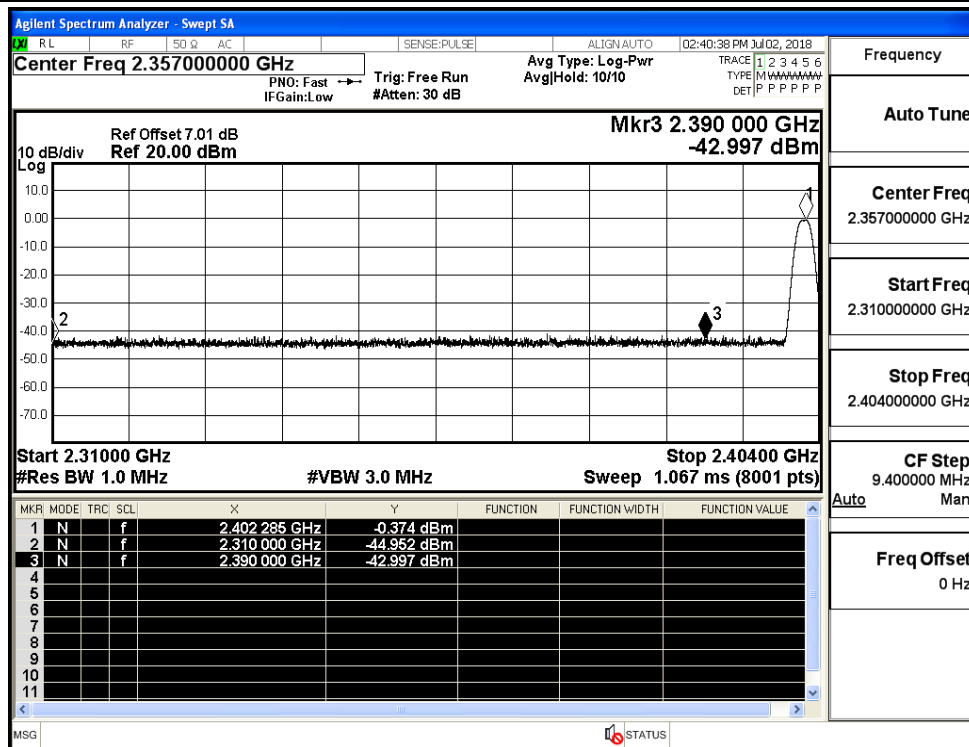
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

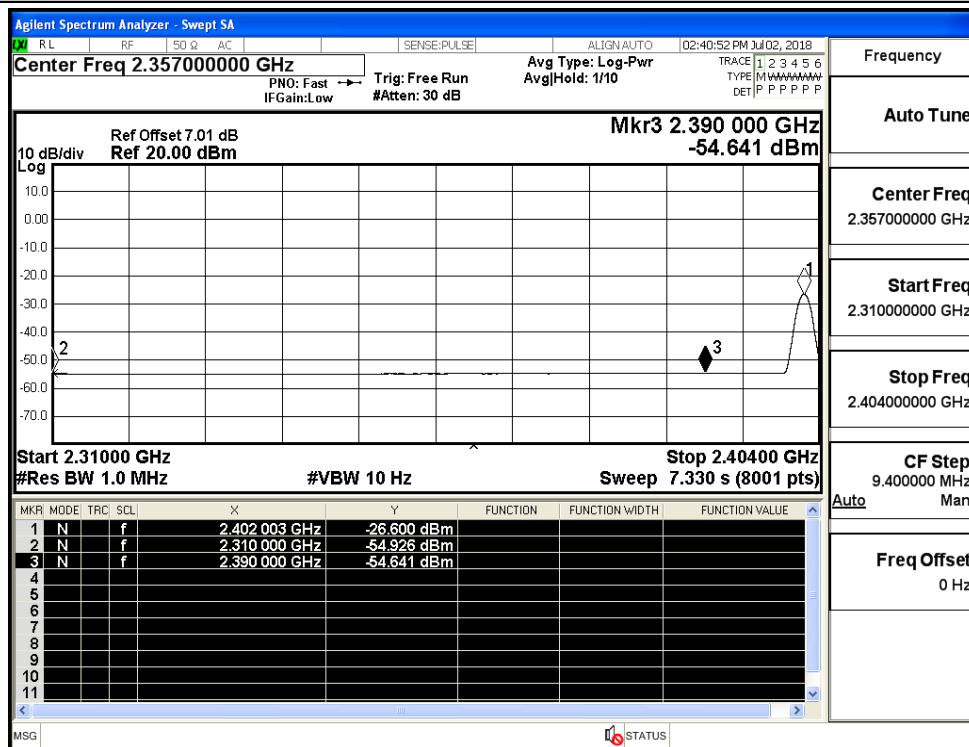
B.7 Restrict-band band-edge measurements

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	-44.95	2.0	0	52.31	PEAK	74	PASS
		Ant1	2310.0	-54.93	2.0	0	42.33	AV	54	PASS
		Ant1	2390.0	-43.00	2.0	0	54.26	PEAK	74	PASS
		Ant1	2390.0	-54.64	2.0	0	42.62	AV	54	PASS
	2480	Ant1	2483.5	-44.02	2.0	0	53.24	PEAK	74	PASS
		Ant1	2483.5	-54.44	2.0	0	42.82	AV	54	PASS
		Ant1	2500.0	-44.30	2.0	0	52.96	PEAK	74	PASS
		Ant1	2500.0	-54.30	2.0	0	42.96	AV	54	PASS

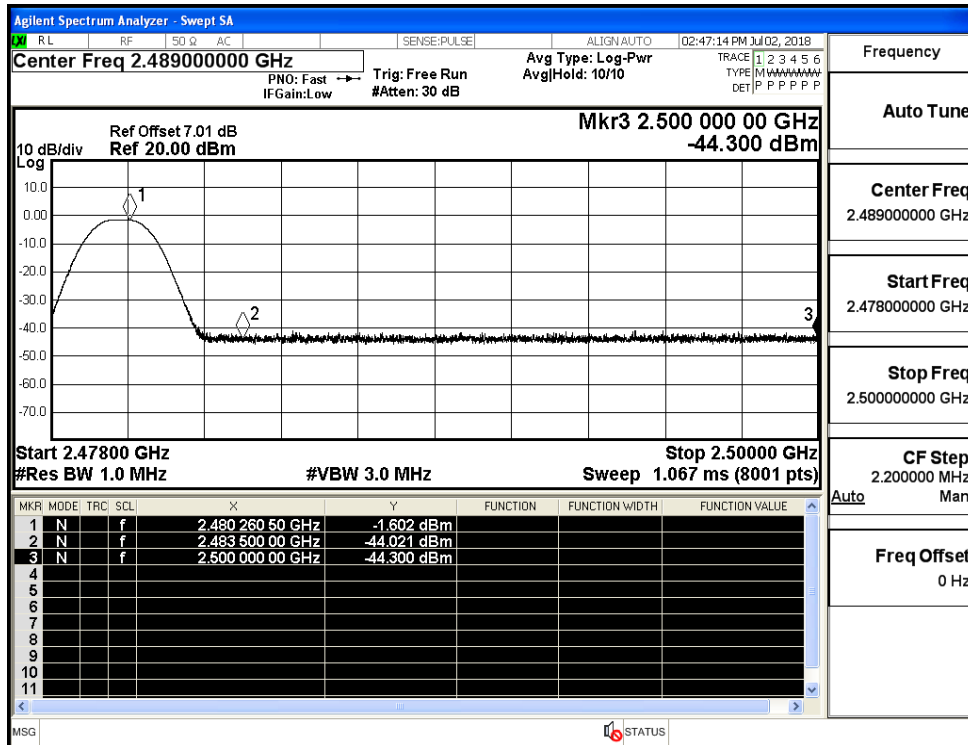
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

