

Appendix B

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

Product Name: Optical projector

Trade Mark: CINEMOOD

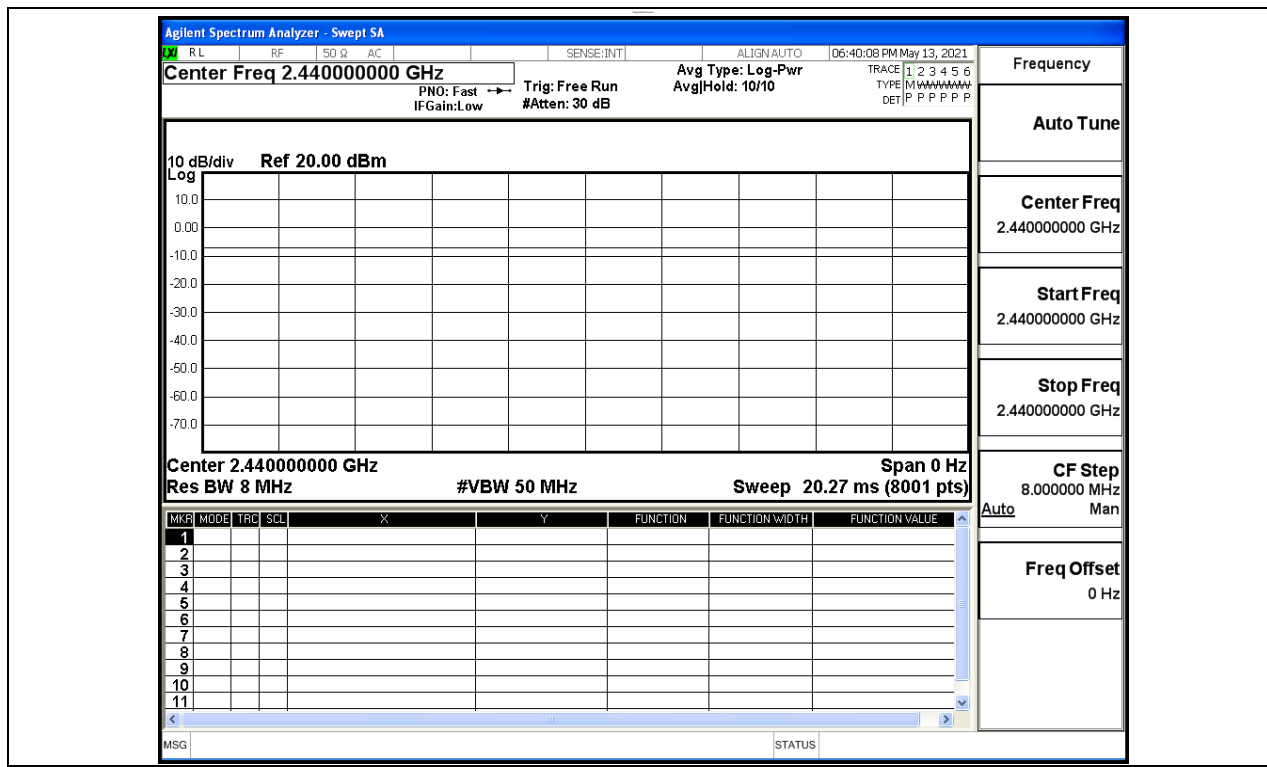
Test Model: CNMD0020

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

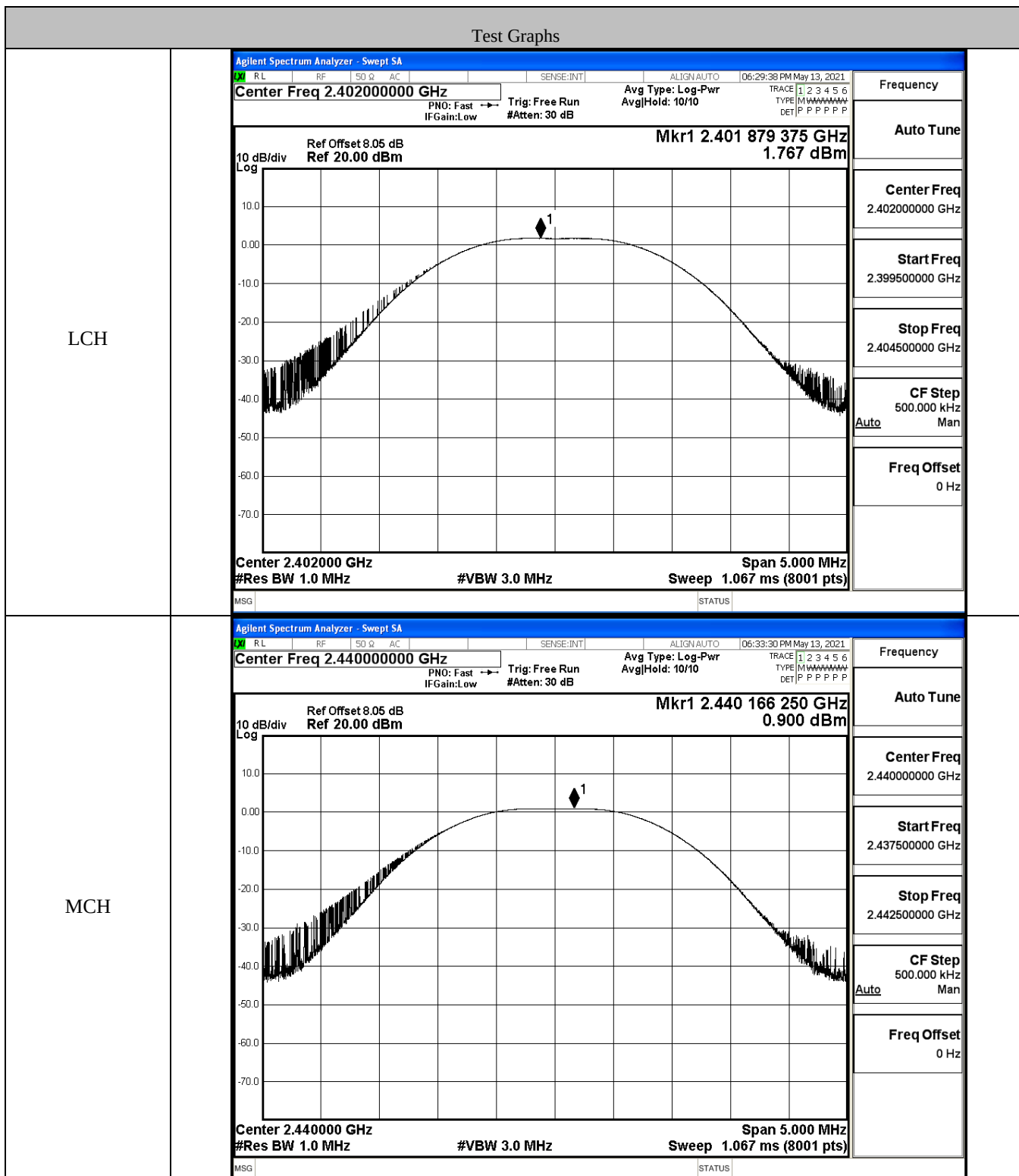
B.1 Duty Cycle

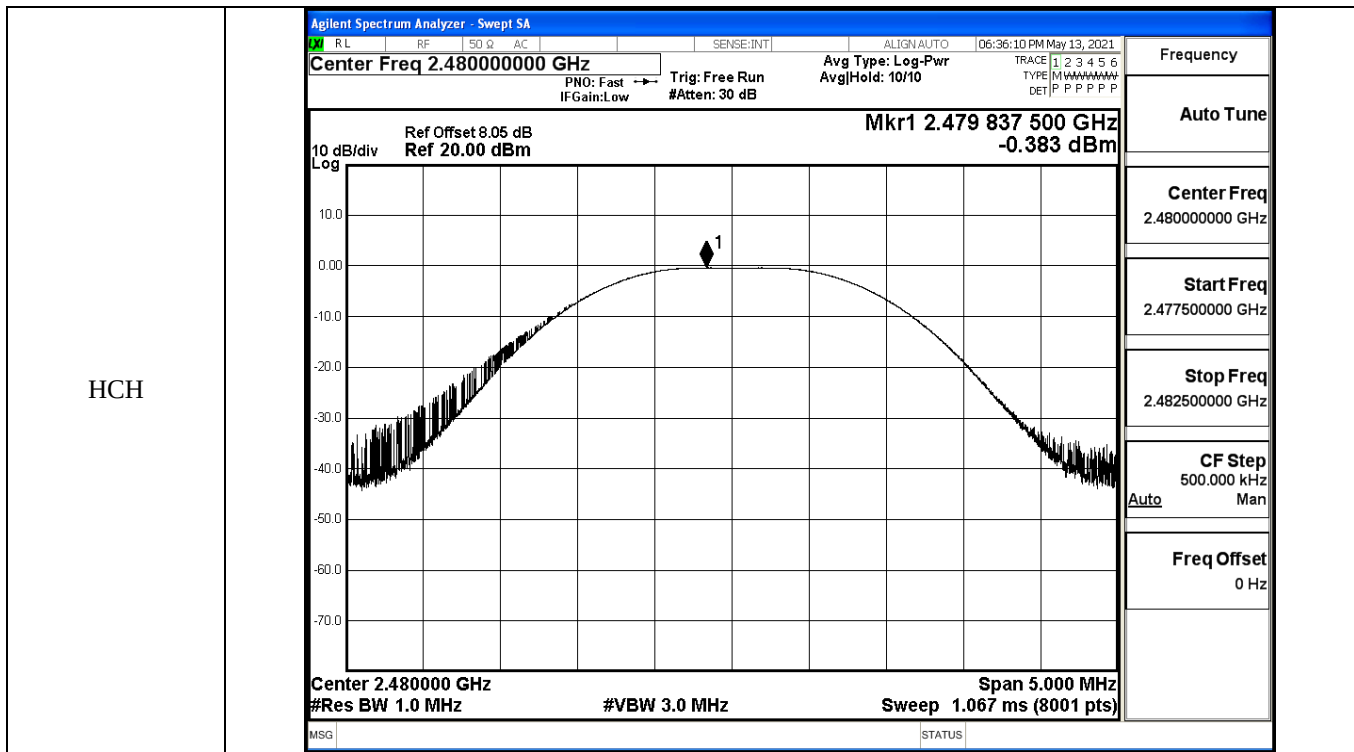
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.767	30	PASS
BT LE	MCH	0.900	30	PASS
BT LE	HCH	-0.383	30	PASS



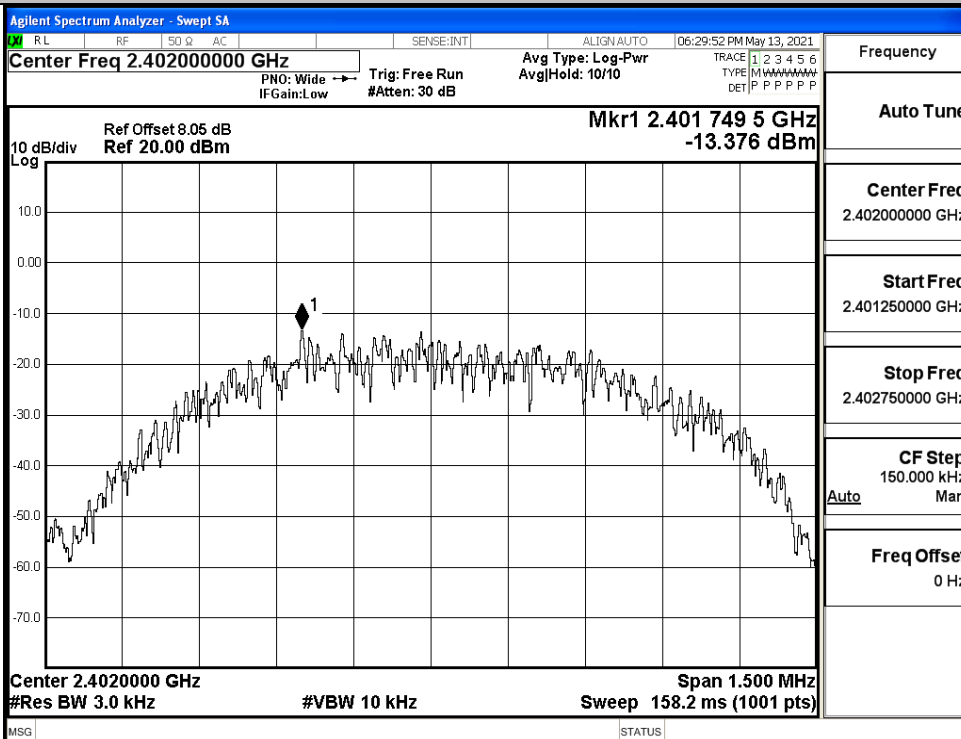


B.3 Maximum Power Spectral Density

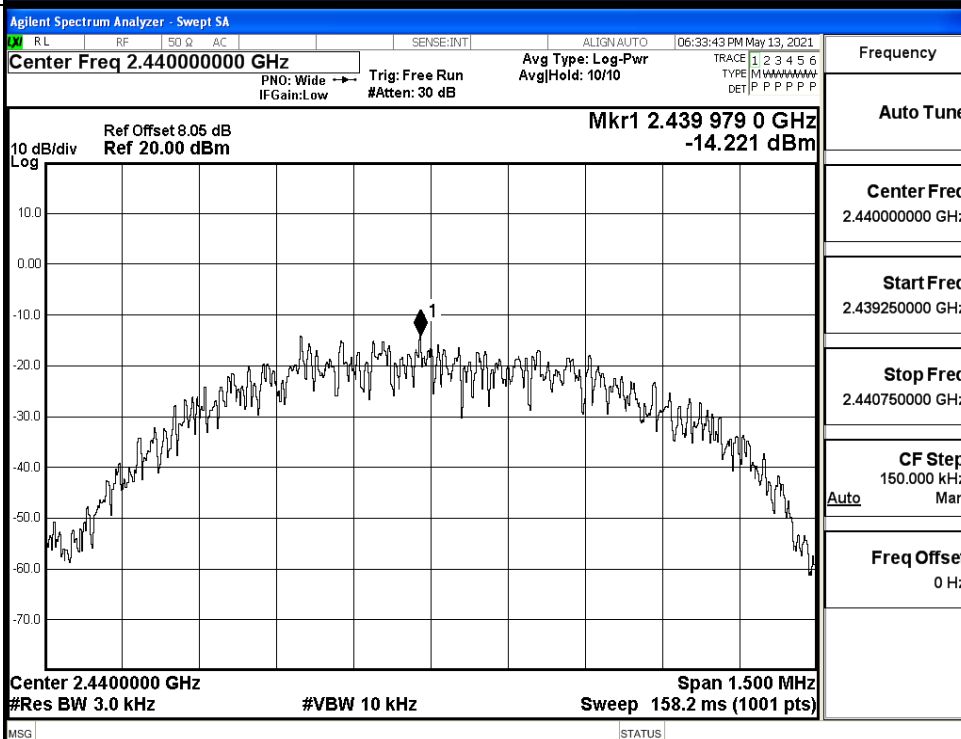
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.376	8	PASS
BT LE	MCH	-14.221	8	PASS
BT LE	HCH	-15.531	8	PASS

Test Graphs

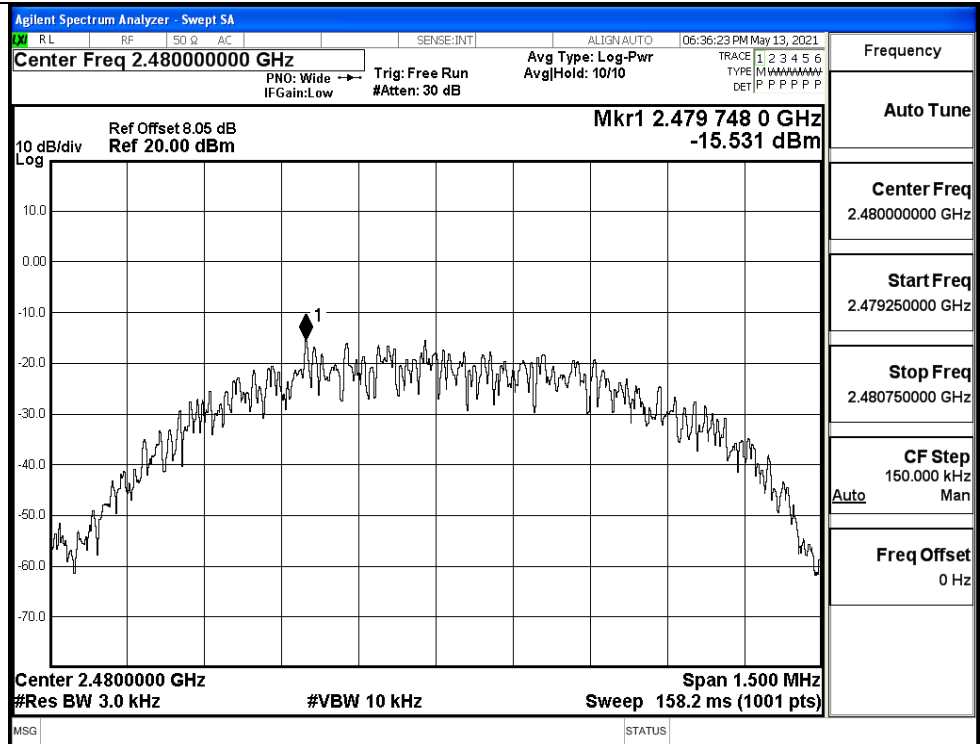
LCH



MCH



HCH

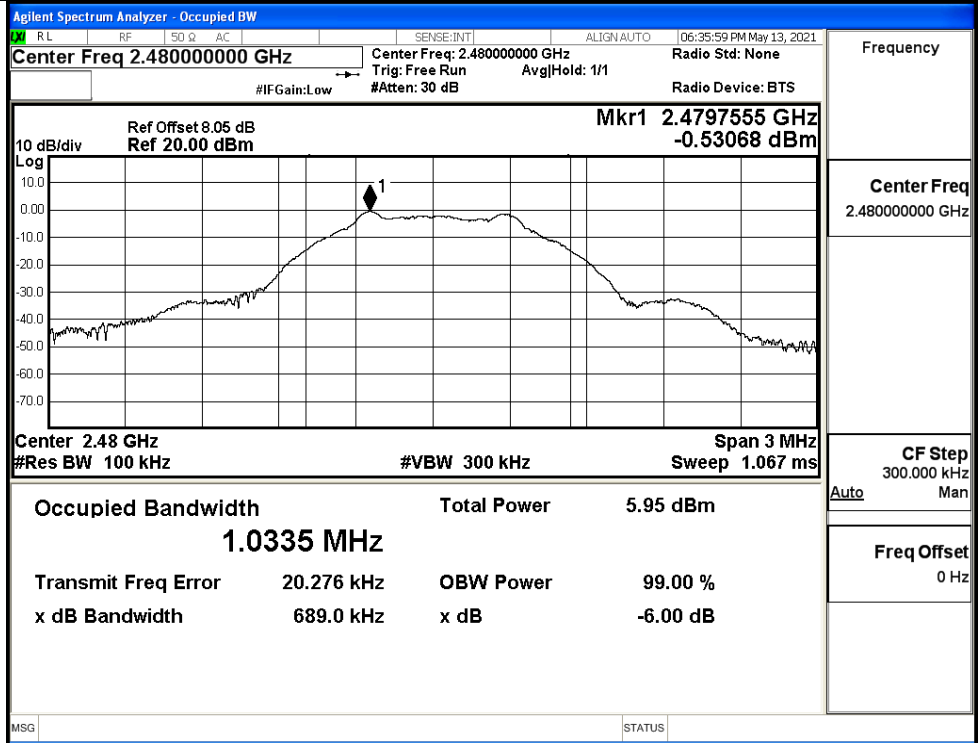


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6876	≥ 0.5	PASS
BT LE	MCH	0.6840	≥ 0.5	PASS
BT LE	HCH	0.6890	≥ 0.5	PASS

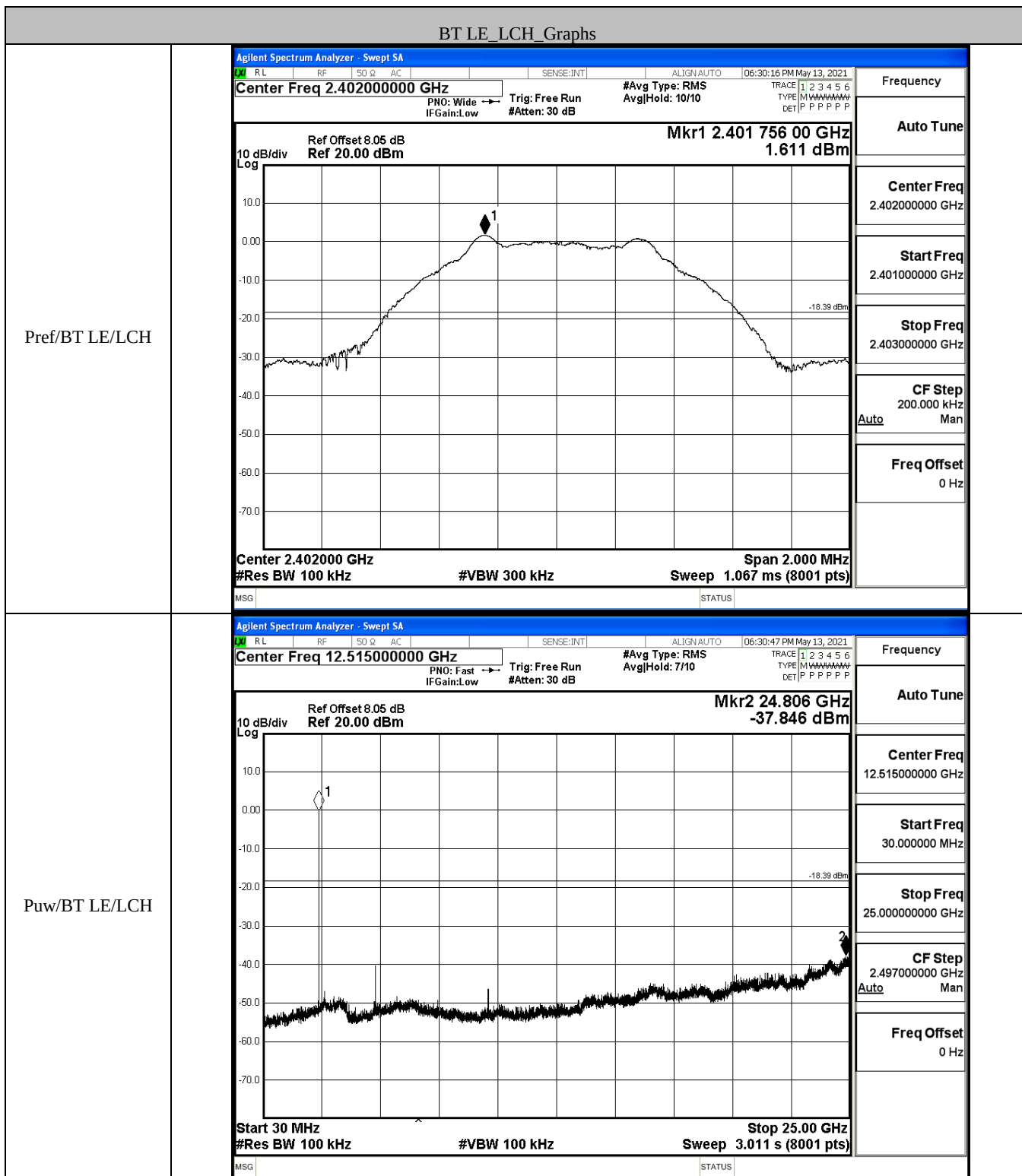
Test Graphs				
LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 06:29:27 PM May 13, 2021 Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run Avg Hold:>1/1 #IFGain:Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.4017585 GHz 1.6325 dBm 10 dB/div Log  Center 2.402 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms Occupied Bandwidth Total Power 8.08 dBm 1.0346 MHz Transmit Freq Error 24.220 kHz OBW Power 99.00 % x dB Bandwidth 687.6 kHz x dB -6.00 dB MSG STATUS			Frequency
				Center Freq 2.402000000 GHz
				CF Step 300.000 kHz Auto Man
				Freq Offset 0 Hz
MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 06:33:19 PM May 13, 2021 Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None Trig: Free Run Avg Hold: 1/1 #IFGain:Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.4397551 GHz 0.72559 dBm 10 dB/div Log  Center 2.44 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms Occupied Bandwidth Total Power 7.18 dBm 1.0339 MHz Transmit Freq Error 19.752 kHz OBW Power 99.00 % x dB Bandwidth 684.0 kHz x dB -6.00 dB MSG STATUS			Frequency
				Center Freq 2.440000000 GHz
				CF Step 300.000 kHz Auto Man
				Freq Offset 0 Hz

HCH



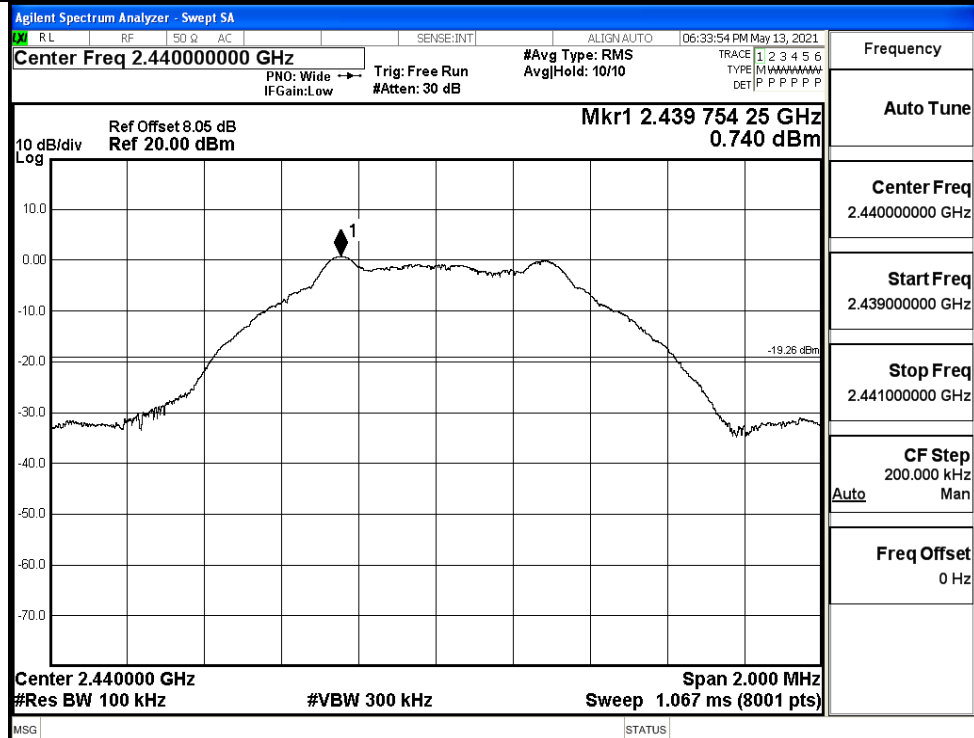
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.611	-37.846	-18.389	PASS
BT LE	MCH	0.74	-37.653	-19.260	PASS
BT LE	HCH	-0.538	-38.248	-20.538	PASS

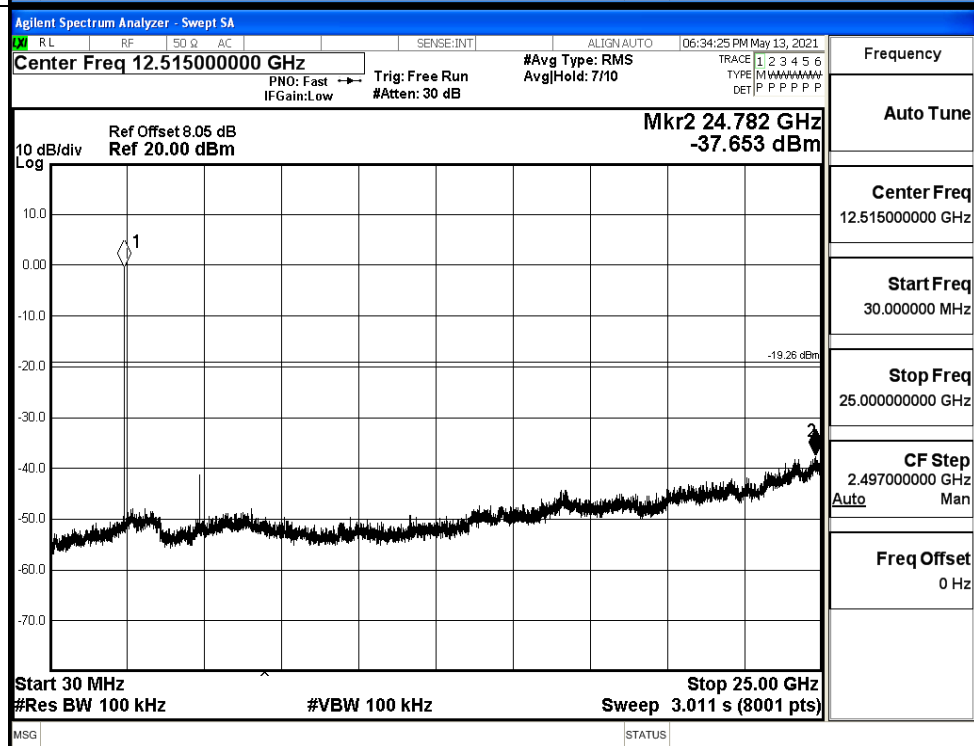


BT LE_MCH_Graphs

Pref/BT LE/MCH

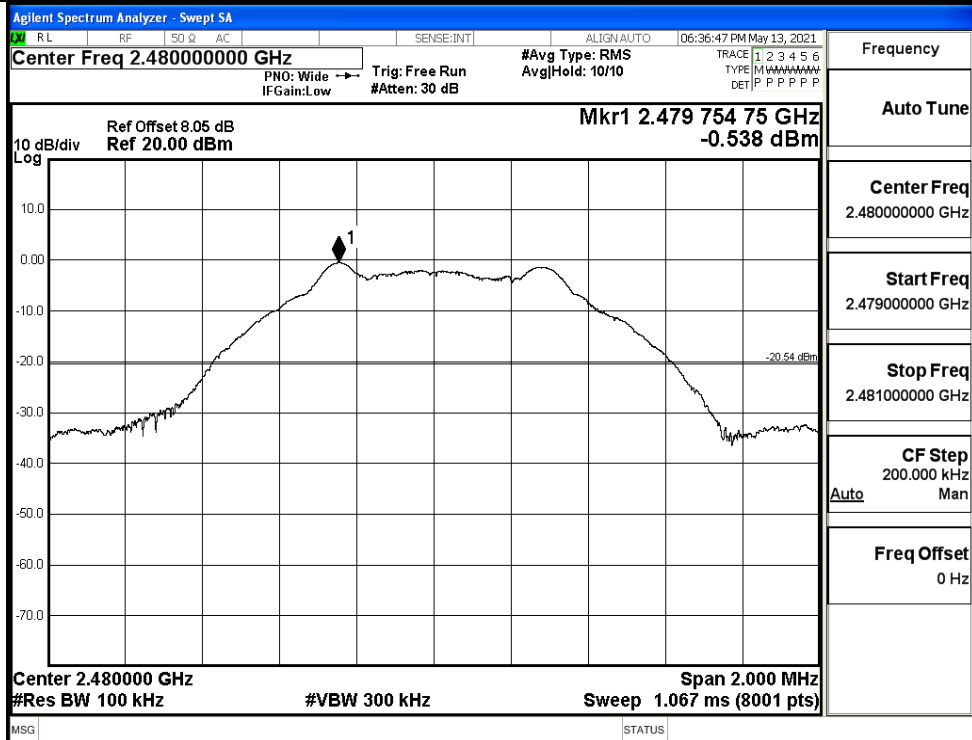


Puw/BT LE/MCH

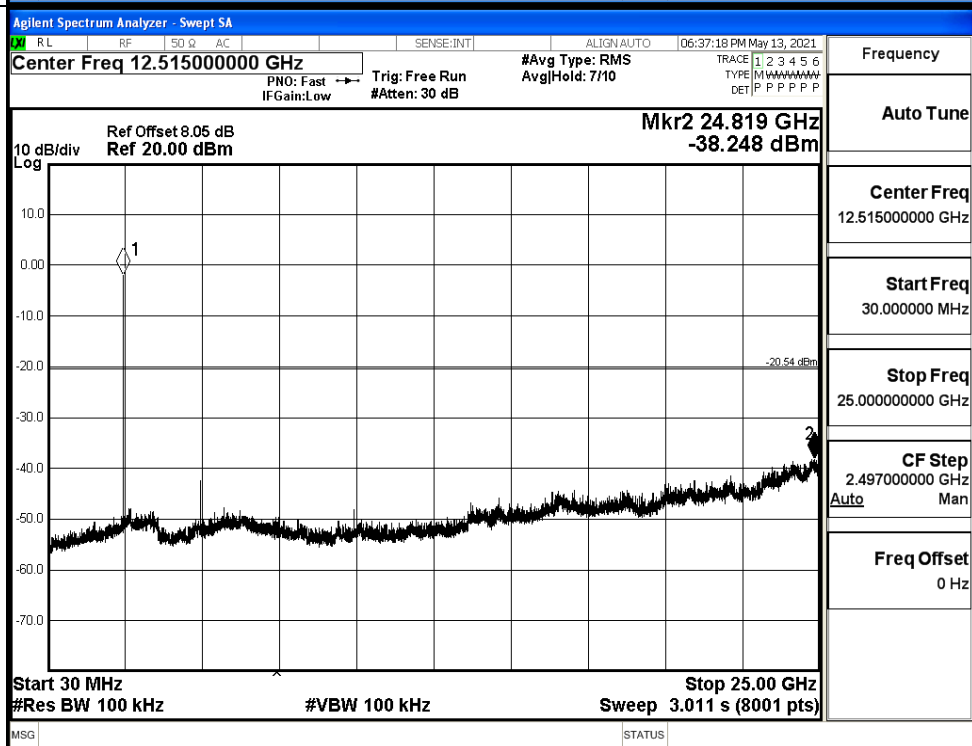


BT LE_HCH_Graphs

Pref/BT LE/HCH



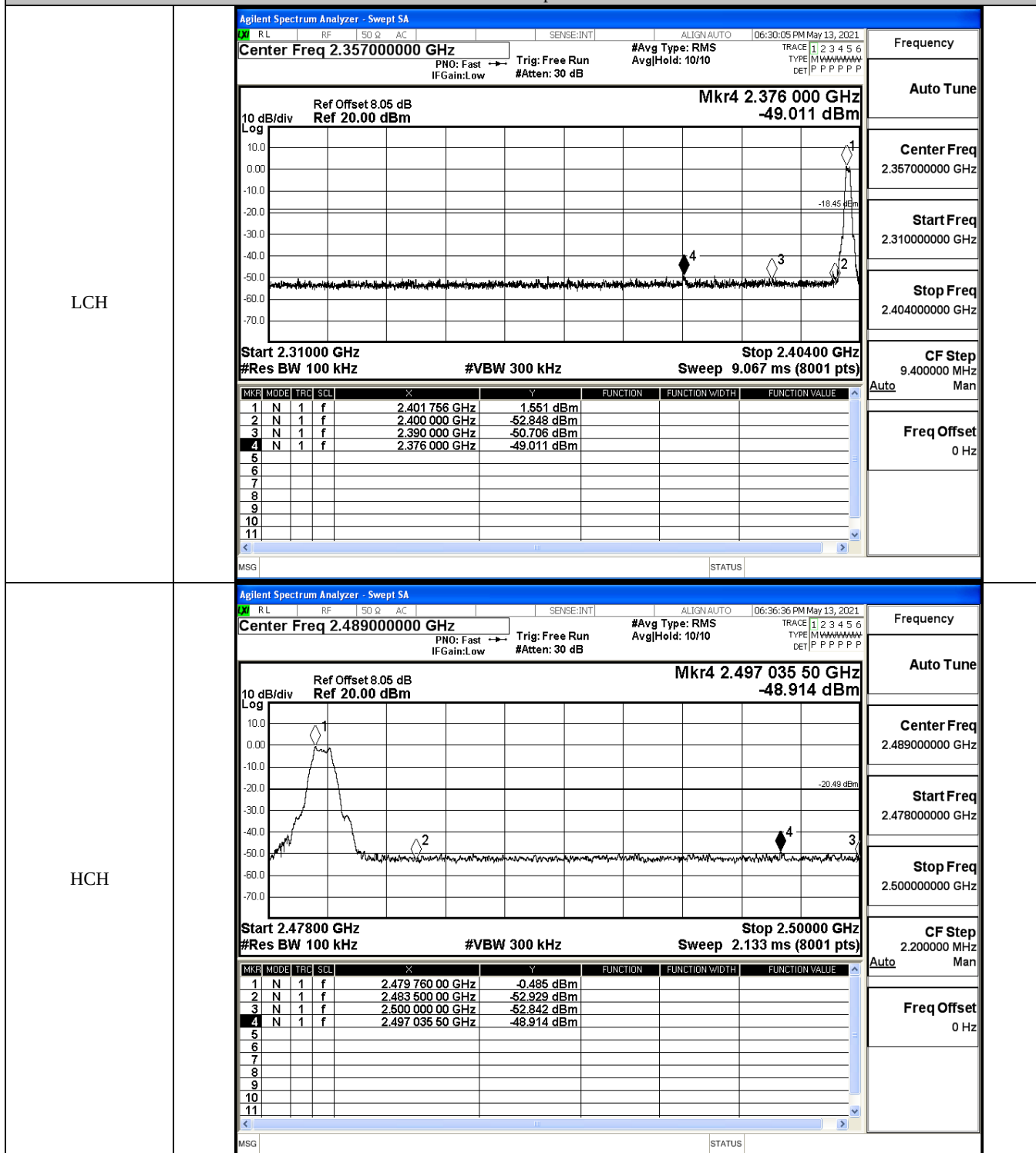
Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.551	-49.011	-18.45	PASS
BT LE	HCH	-0.485	-48.914	-20.49	PASS

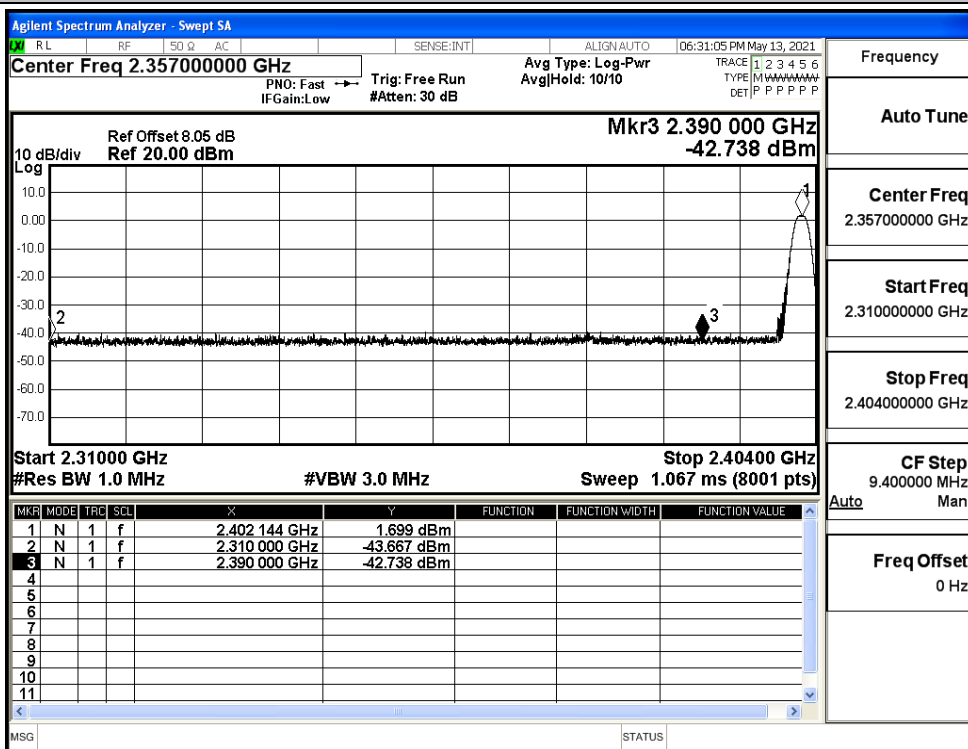
Test Graphs



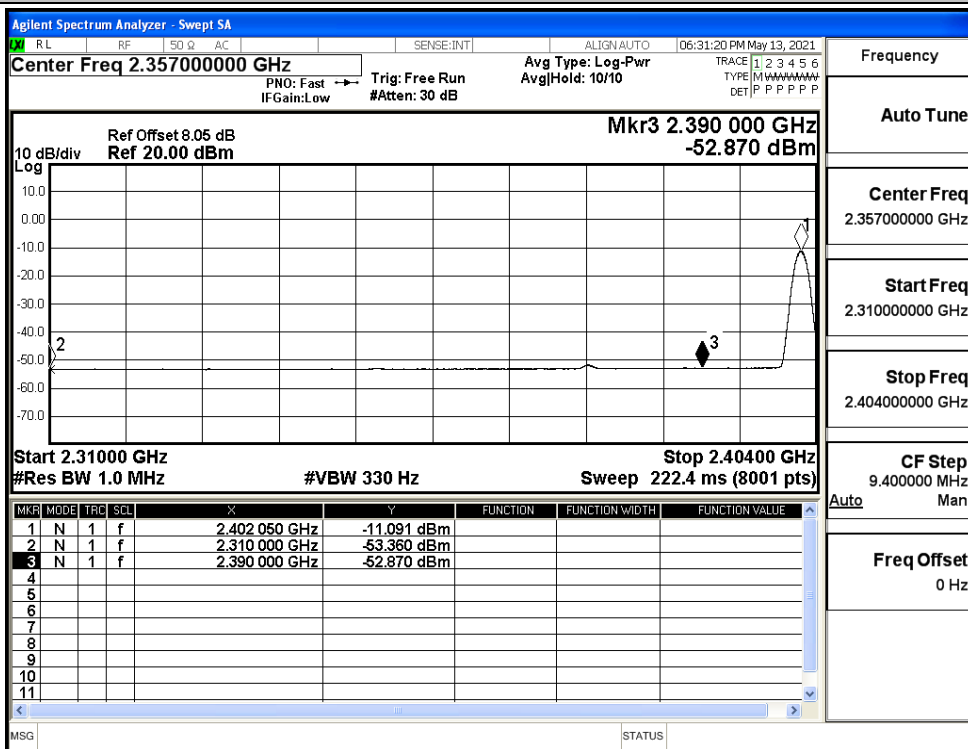
B.7 Restrict-band band-edge measurements

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	-43.67	2.0	0	53.56	PEAK	74	PASS
		Ant1	2310.0	-53.36	2.0	0	43.87	AV	54	PASS
		Ant1	2390.0	-42.74	2.0	0	54.49	PEAK	74	PASS
		Ant1	2390.0	-52.87	2.0	0	44.36	AV	54	PASS
	2480	Ant1	2483.5	-42.74	2.0	0	54.49	PEAK	74	PASS
		Ant1	2483.5	-52.37	2.0	0	44.86	AV	54	PASS
		Ant1	2500.0	-40.19	2.0	0	57.04	PEAK	74	PASS
		Ant1	2500.0	-52.34	2.0	0	44.89	AV	54	PASS

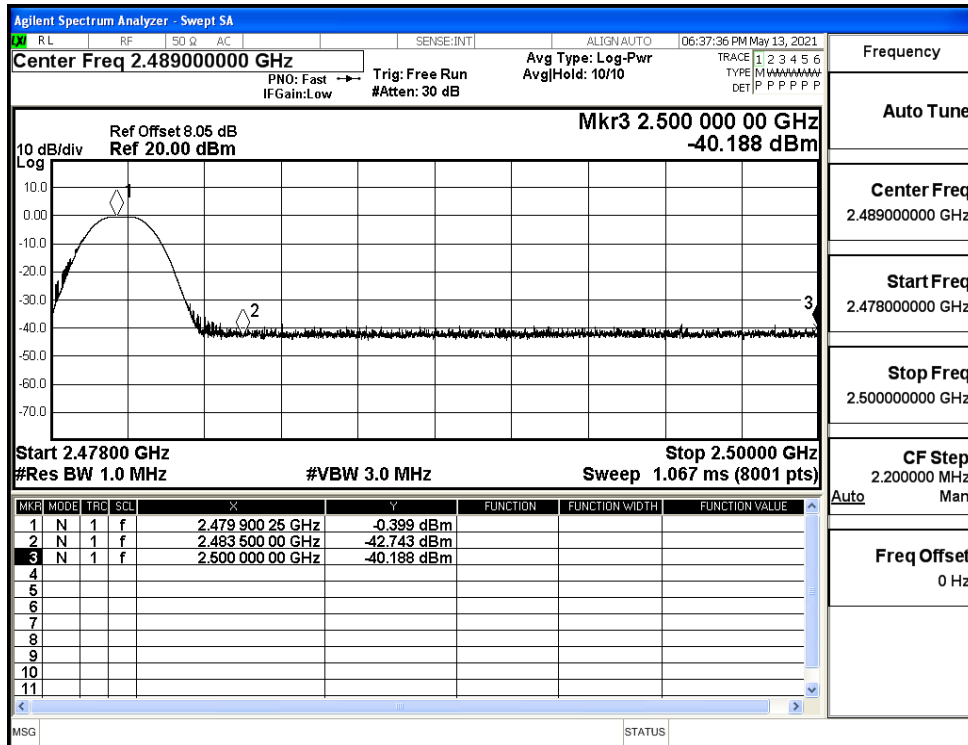
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

