

Appendix B

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

Product Name: Hand-held Barcode Scanner

Trade Mark: Newland

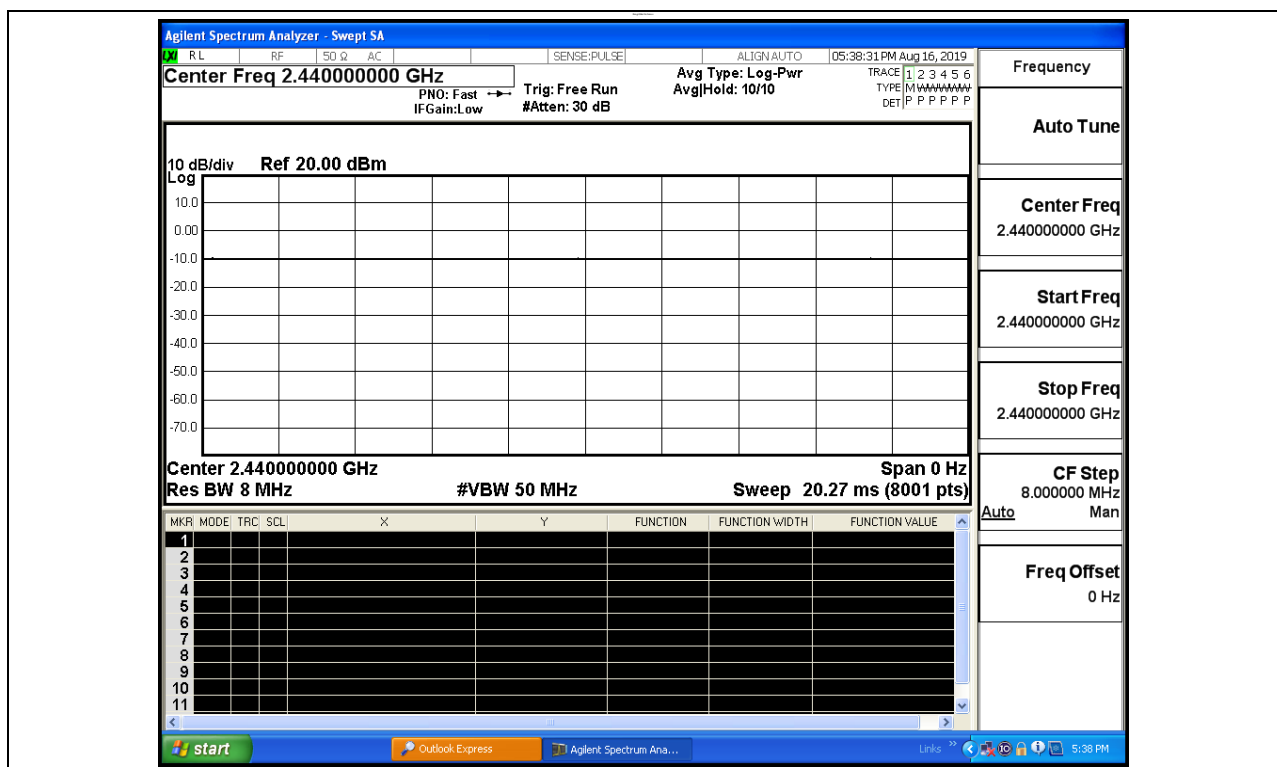
Test Model: NLS-HR15

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	SCENT HU
Supervised by:	Wang.Chuang

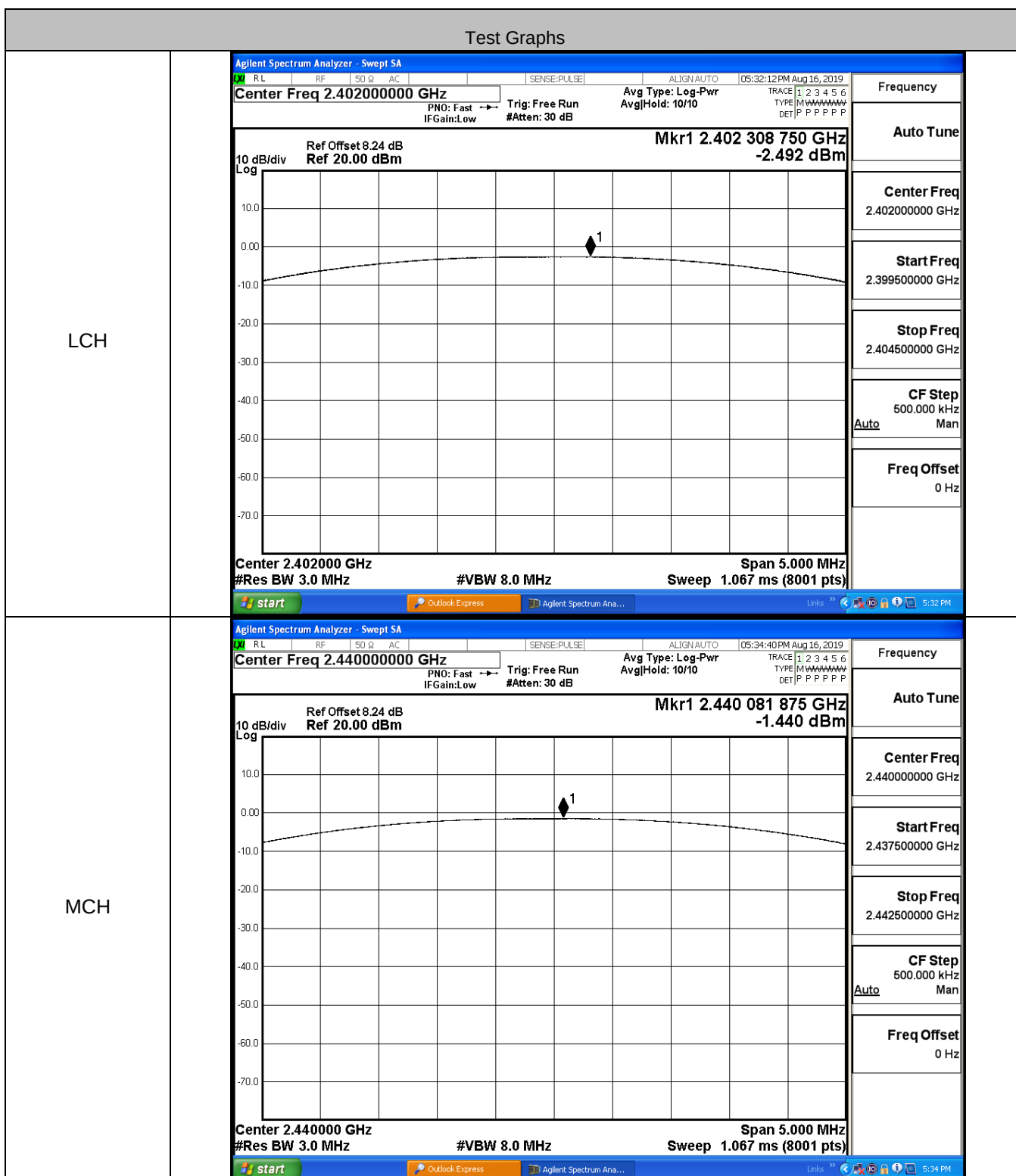
B.1 Duty Cycle

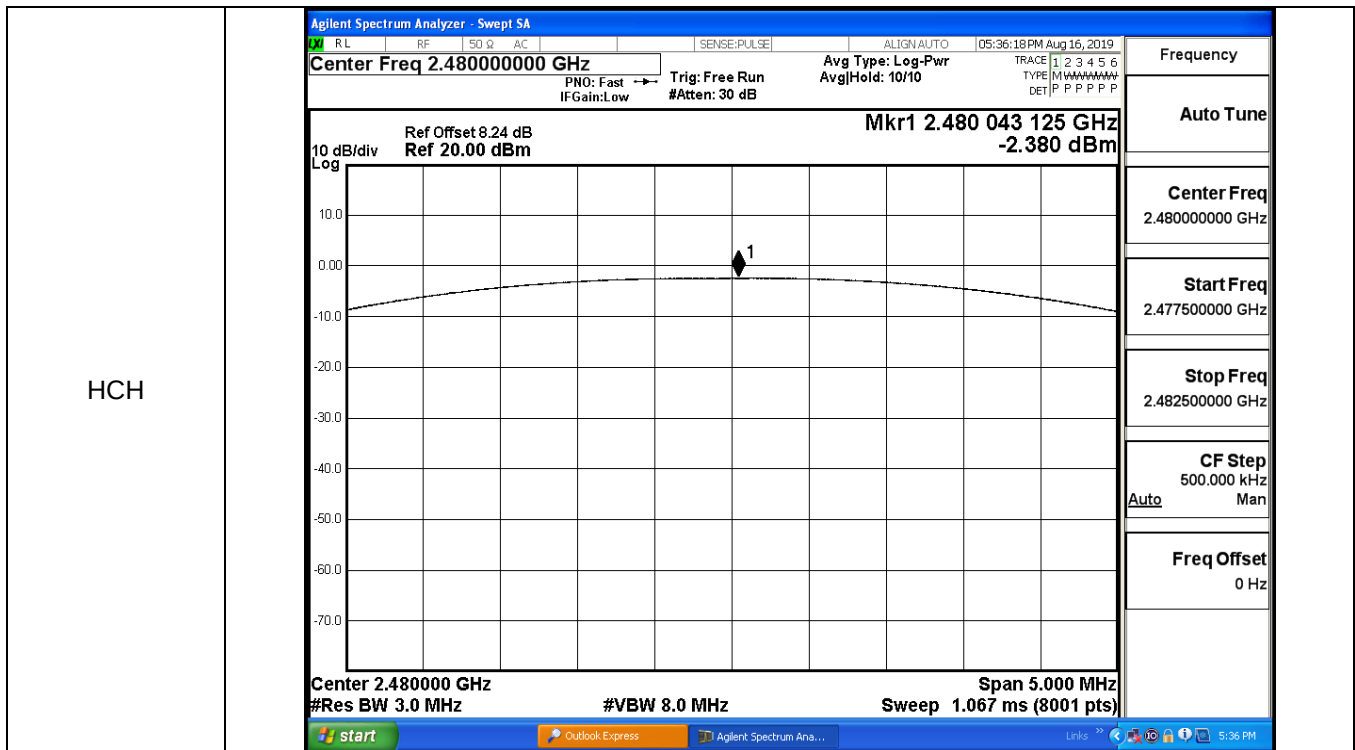
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

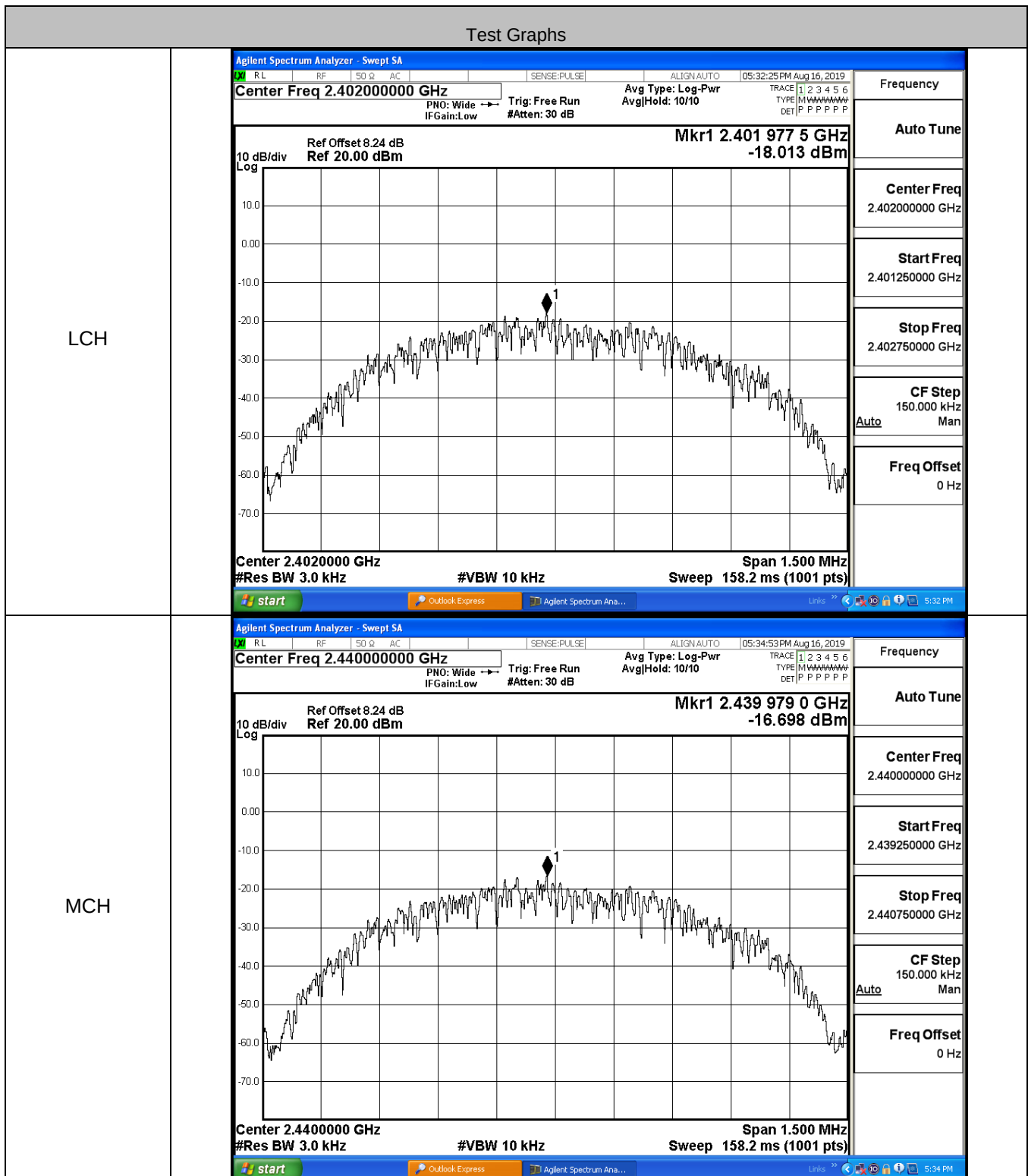
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.492	30	PASS
BT LE	MCH	-1.44	30	PASS
BT LE	HCH	-2.38	30	PASS



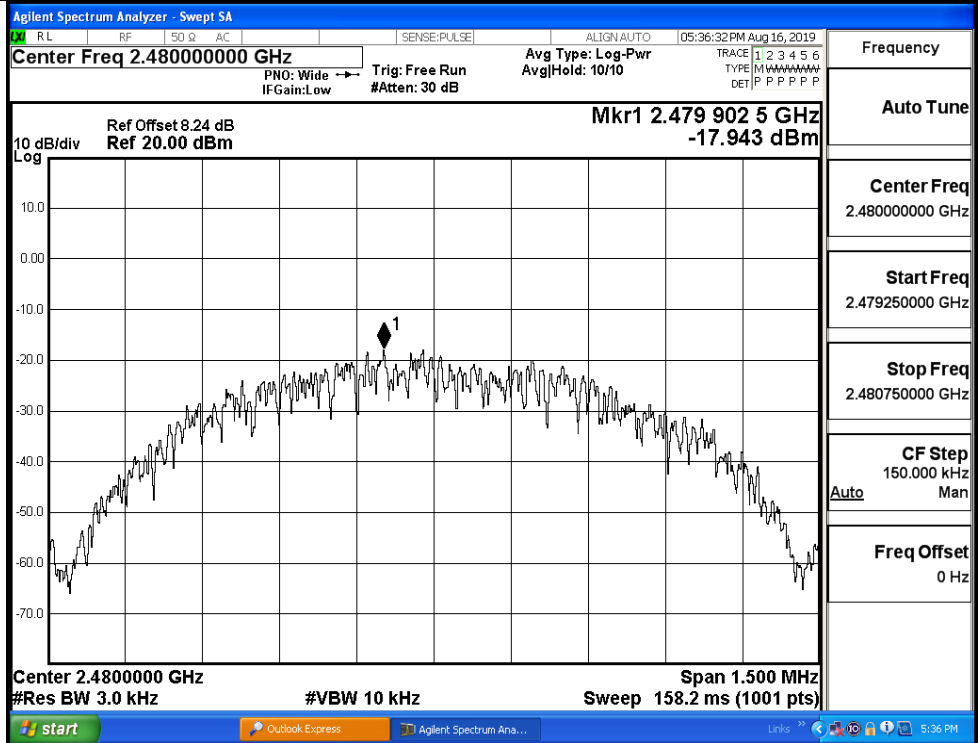


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.013	8	PASS
BT LE	MCH	-16.698	8	PASS
BT LE	HCH	-17.943	8	PASS



HCH

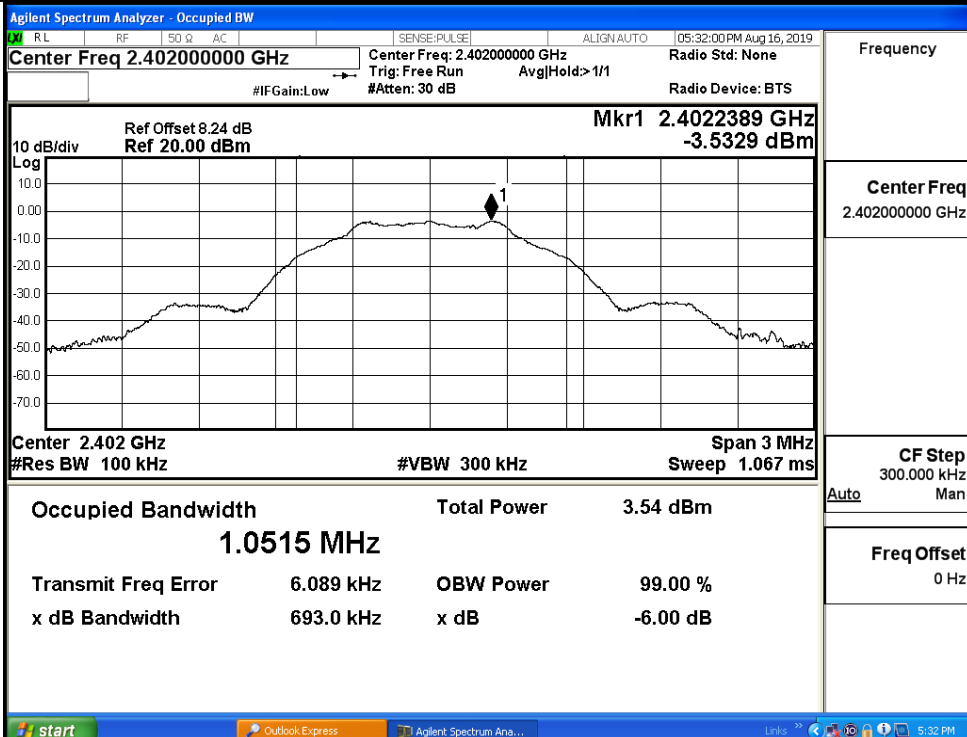


B.4 6dB Bandwidth

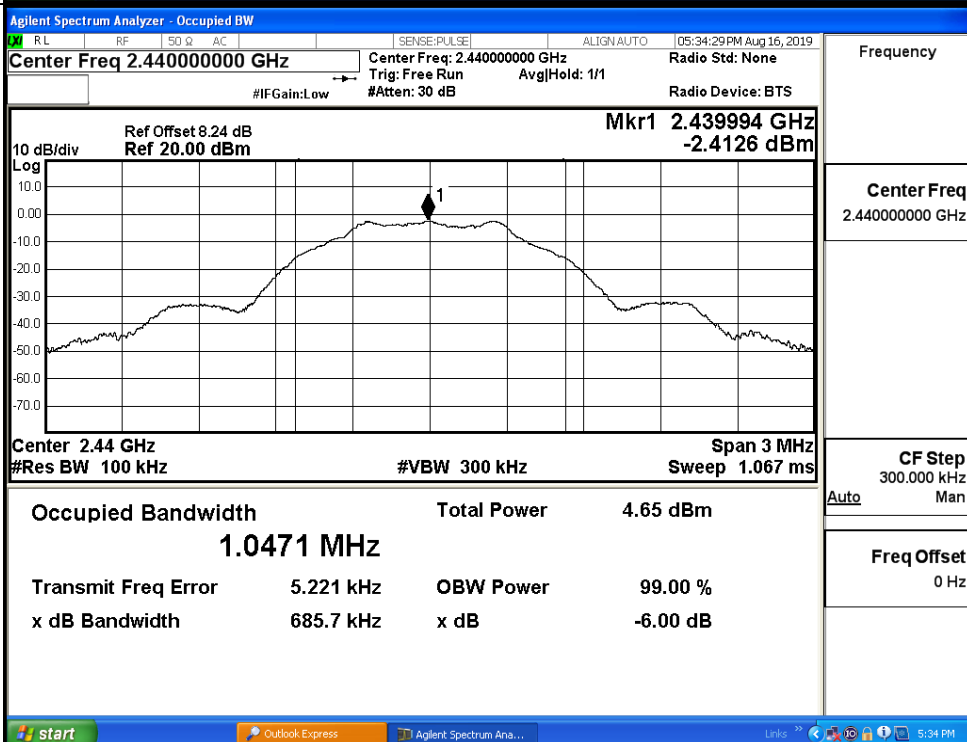
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6930	≥ 0.5	PASS
BT LE	MCH	0.6857	≥ 0.5	PASS
BT LE	HCH	0.6861	≥ 0.5	PASS

Test Graphs

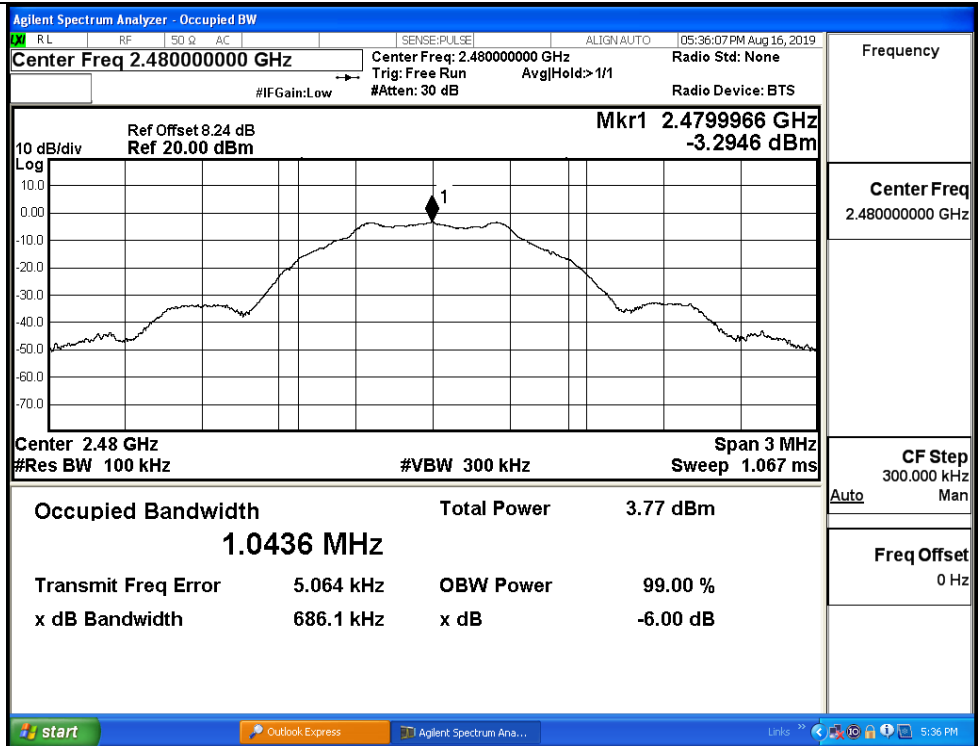
LCH



MCH



HCH

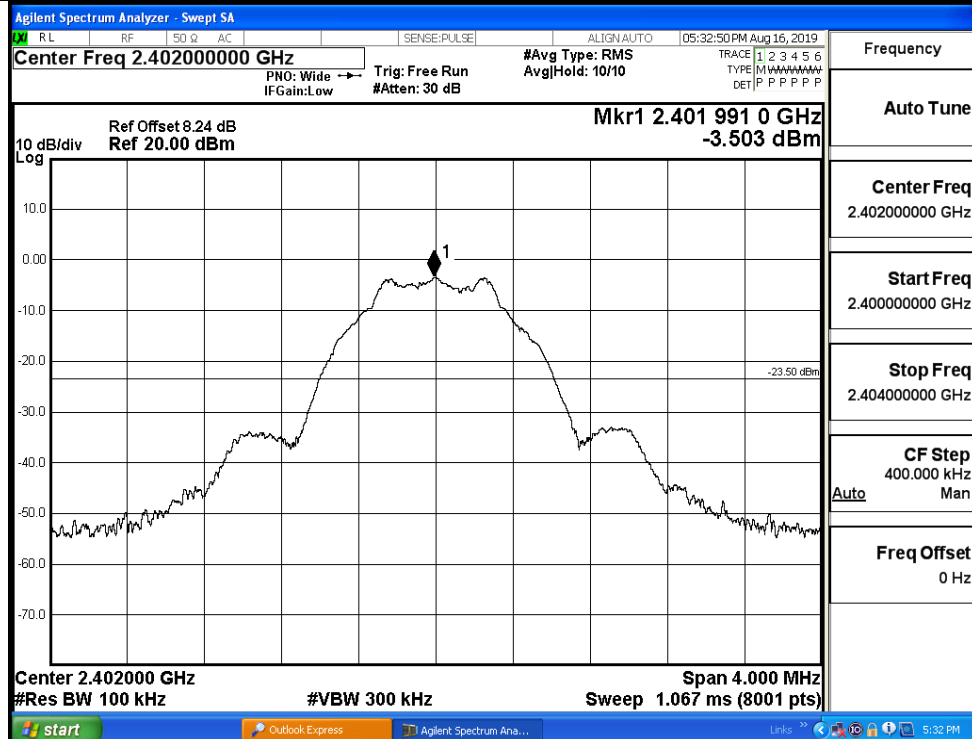


B.5 RF Conducted Spurious Emissions

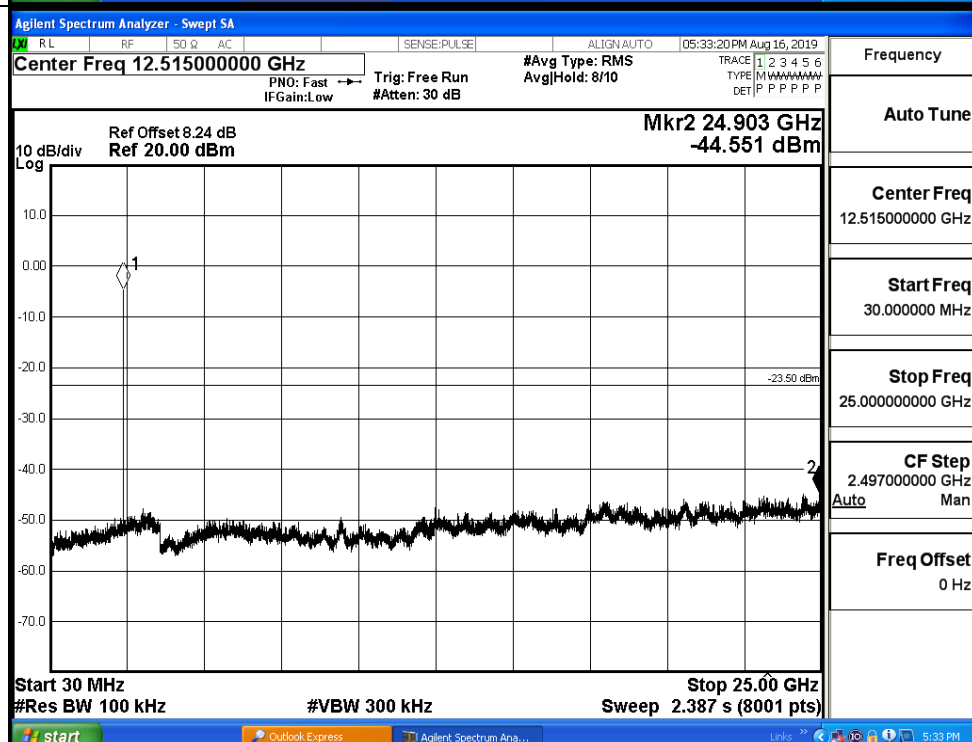
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.503	-44.551	-23.503	PASS
BT LE	MCH	-2.313	-44.855	-22.313	PASS
BT LE	HCH	-3.436	-43.889	-23.436	PASS

BT LE LCH Graphs

Pref/BT LE/LCH



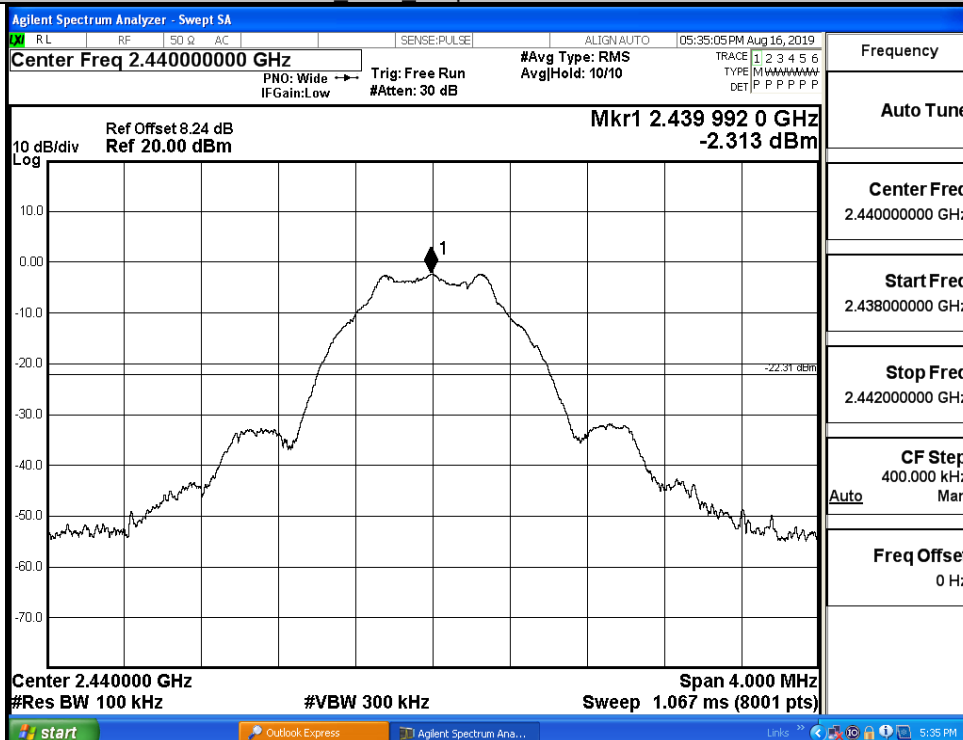
Puw/BT LE/LCH



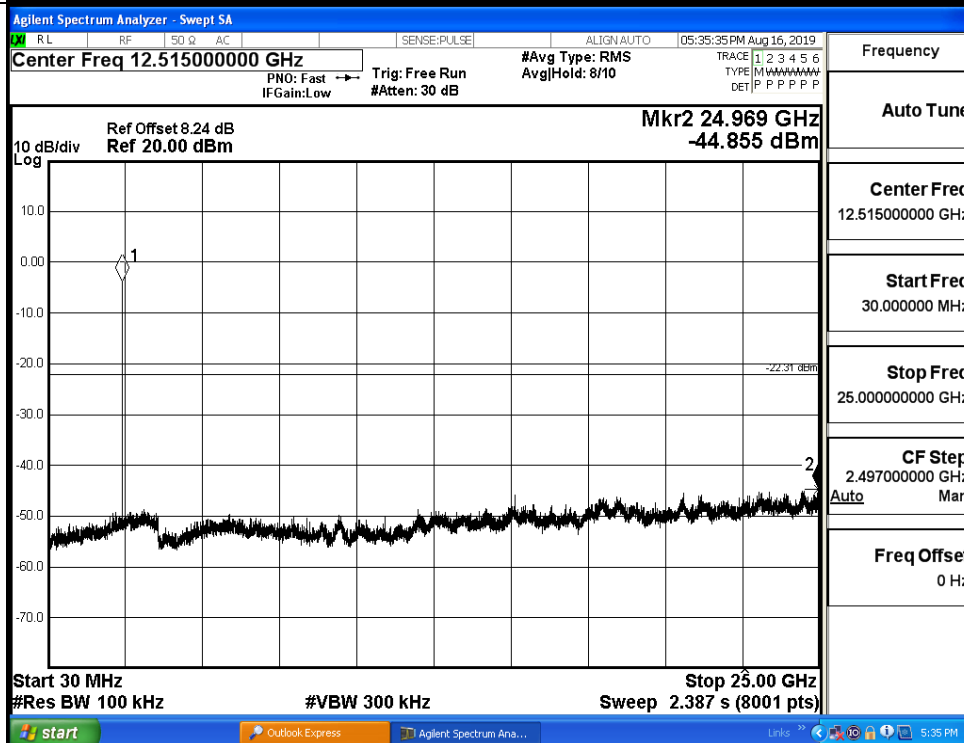
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BT LE MCH Graphs

Pref/BT LE/MCH

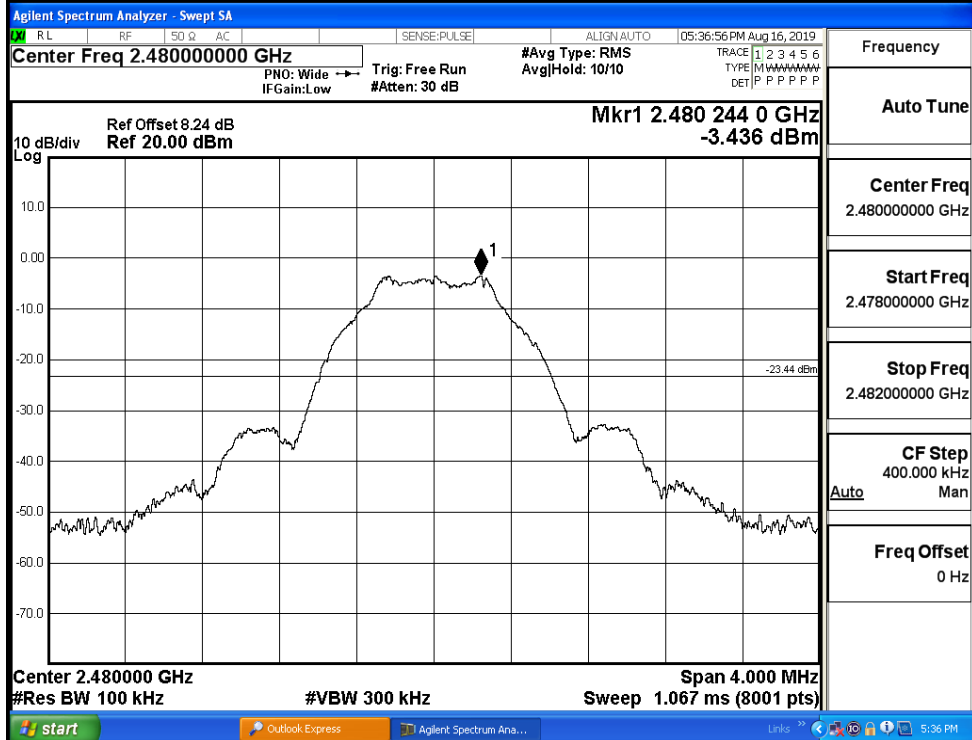


Puw/BT LE/MCH

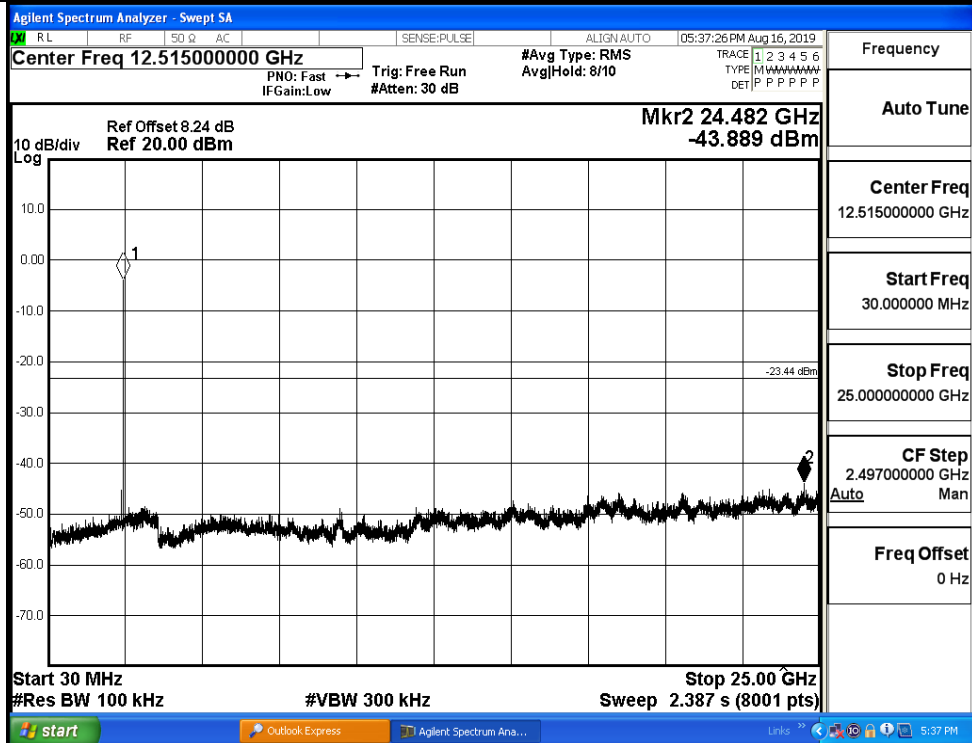


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

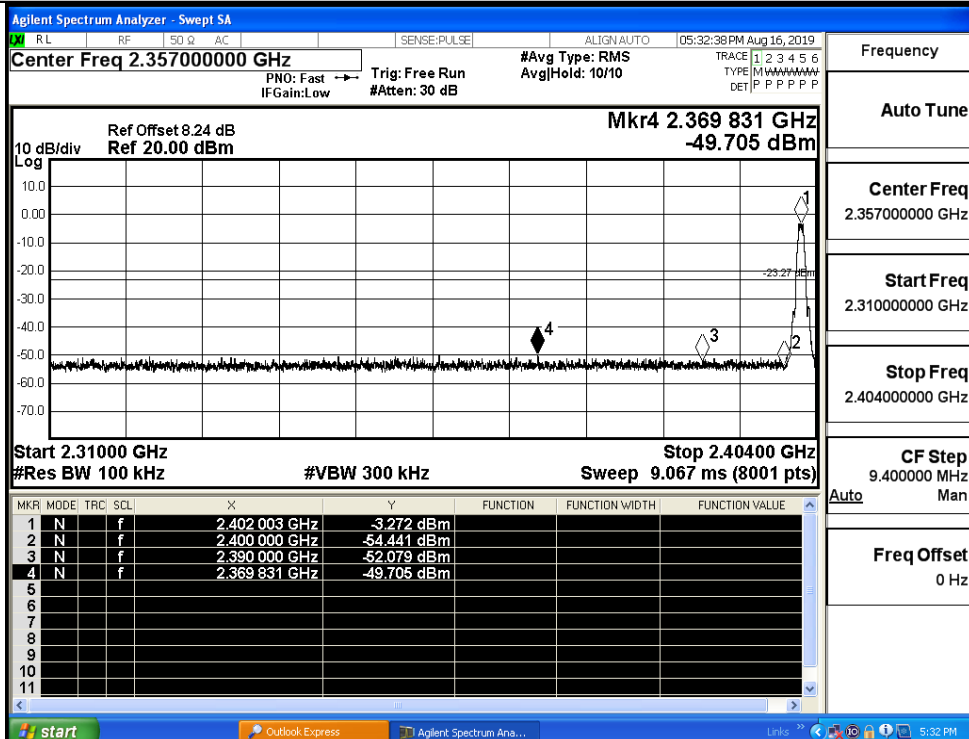


B.6 Band-edge for RF Conducted Emissions

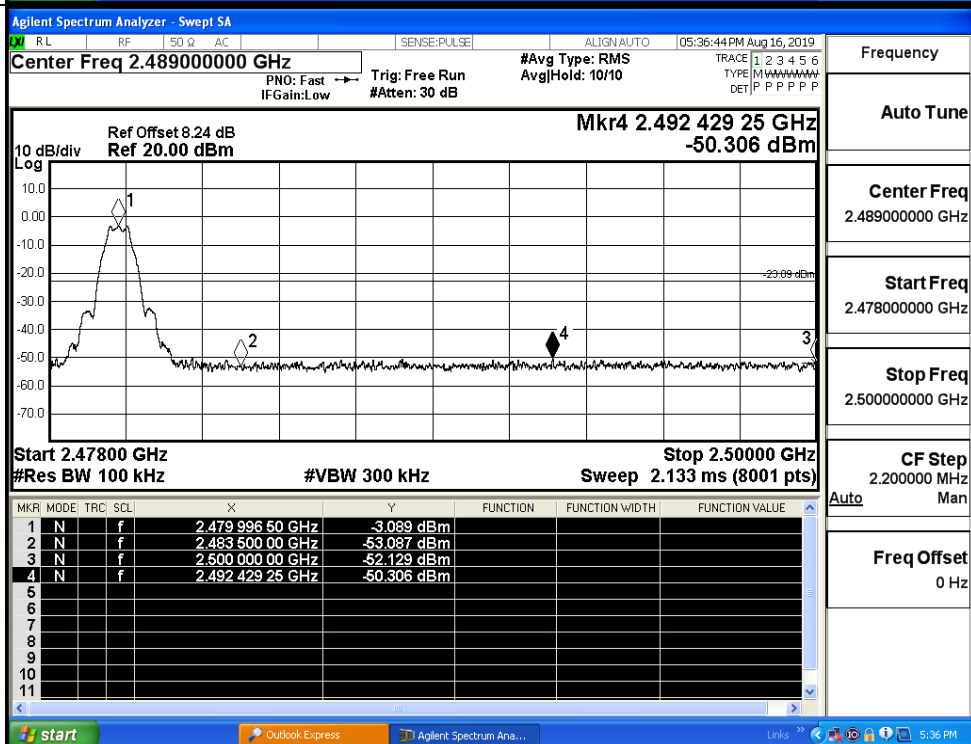
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.272	-49.705	-23.27	PASS
BT LE	HCH	-3.089	-50.306	-23.09	PASS

Test Graphs

LCH



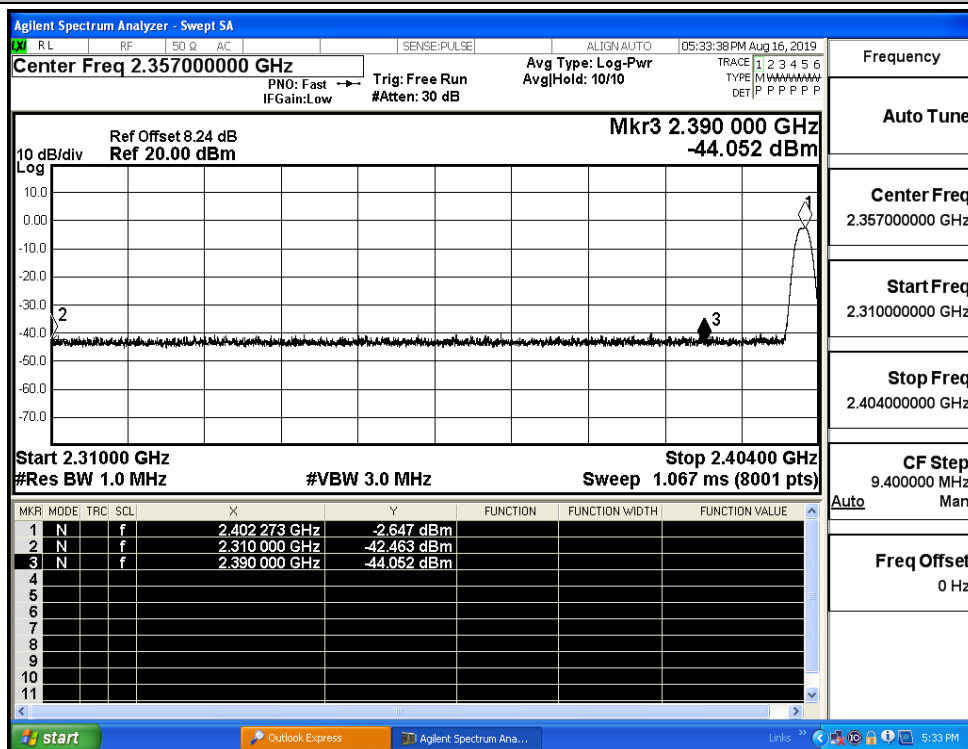
HCH



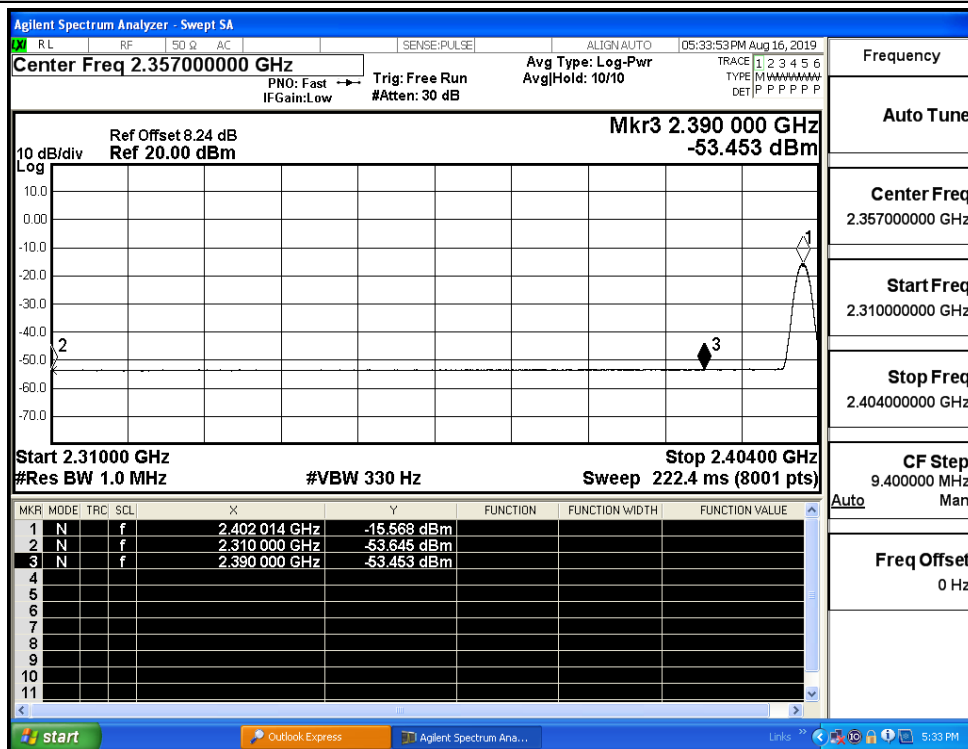
B.7 Restrict-band band-edge measurements

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	-42.46	2.0	0	52.79	PEAK	74	PASS
		Ant1	2310.0	-53.65	2.0	0	41.61	AV	54	PASS
		Ant1	2390.0	-44.05	2.0	0	51.21	PEAK	74	PASS
		Ant1	2390.0	-53.45	2.0	0	41.80	AV	54	PASS
	2480	Ant1	2483.5	-44.05	2.0	0	51.21	PEAK	74	PASS
		Ant1	2483.5	-53.18	2.0	0	42.08	AV	54	PASS
		Ant1	2500.0	-42.86	2.0	0	52.40	PEAK	74	PASS
		Ant1	2500.0	-53.02	2.0	0	42.23	AV	54	PASS

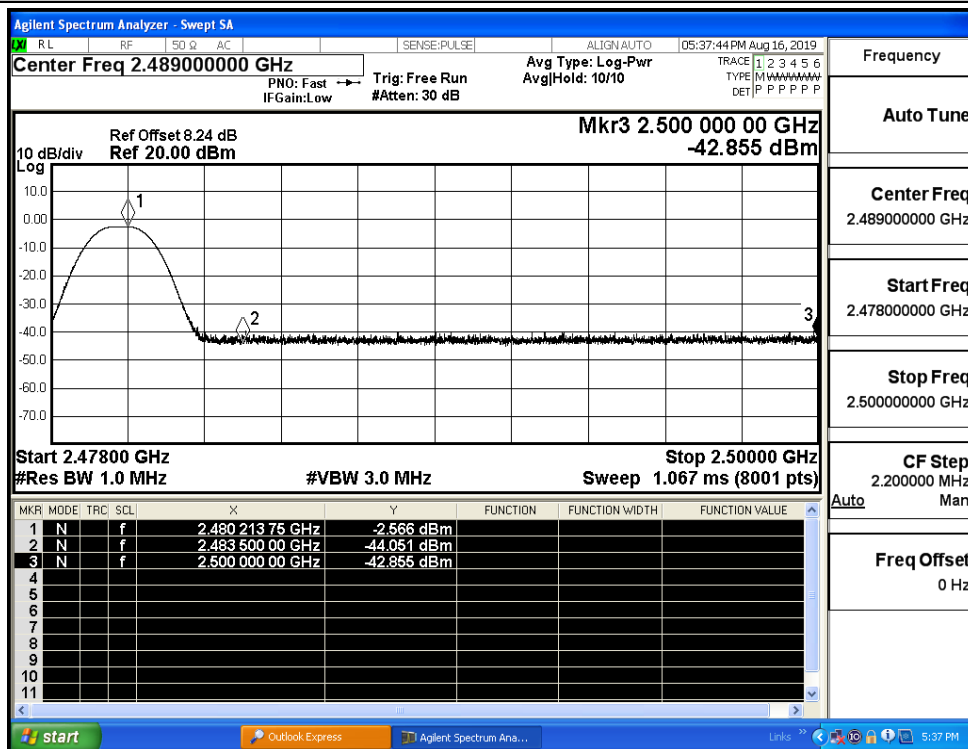
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

