

Appendix B

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: Car intelligent Diagnosis

Trade Mark: XTOOL

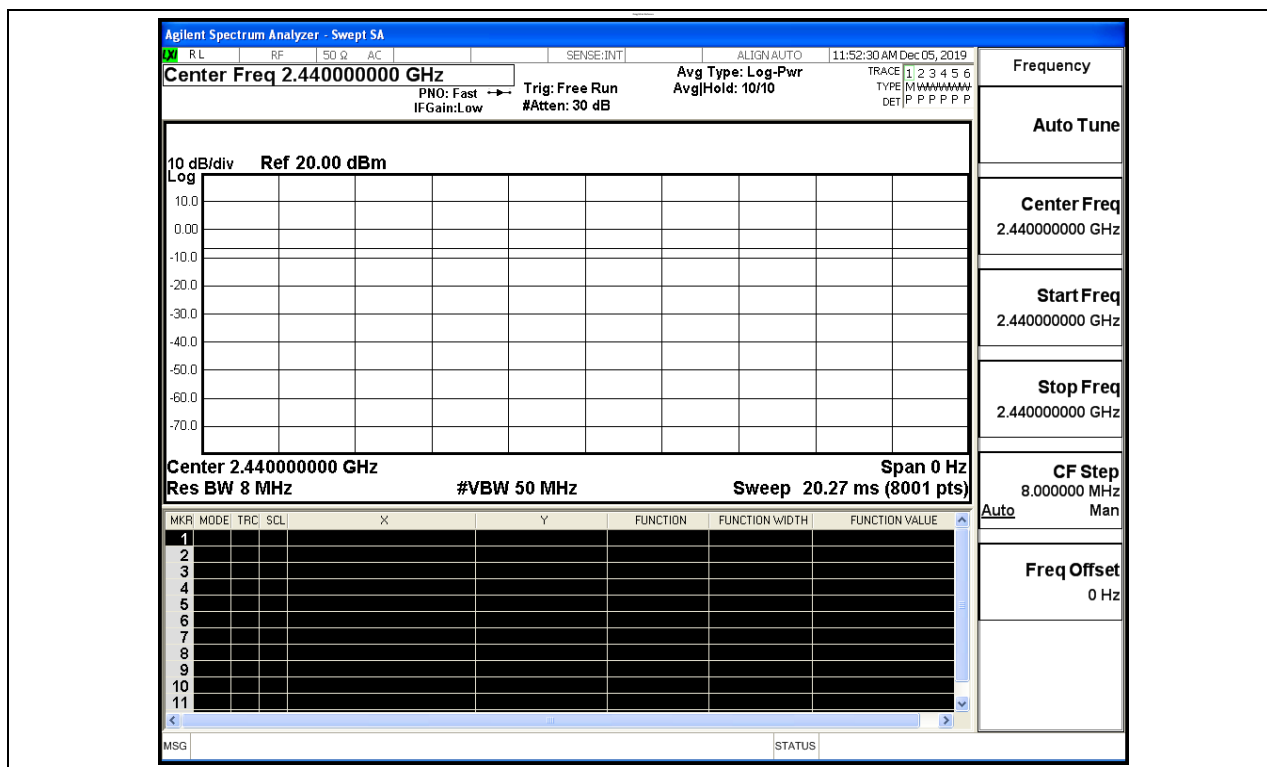
Test Model: H6 PRO

Environmental Conditions

Temperature:	23.45° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	JK Zhou
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

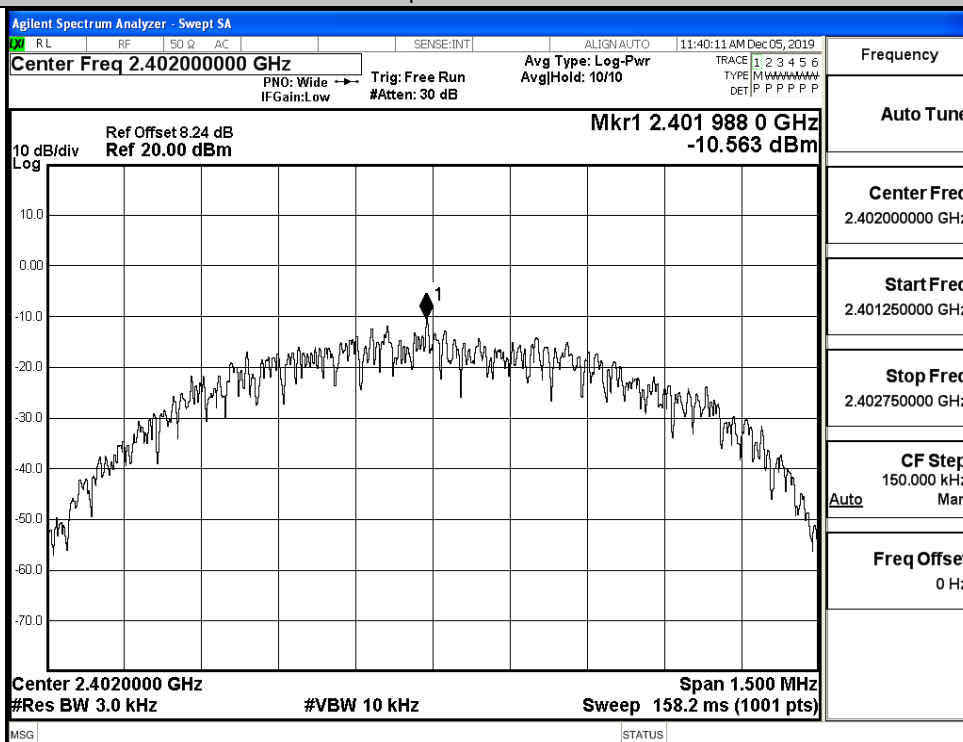
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.542	30	PASS
BT LE	MCH	3.569	30	PASS
BT LE	HCH	2.592	30	PASS

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-10.563	8	PASS
BT LE	MCH	-10.411	8	PASS
BT LE	HCH	-12.321	8	PASS

Test Graphs

LCH

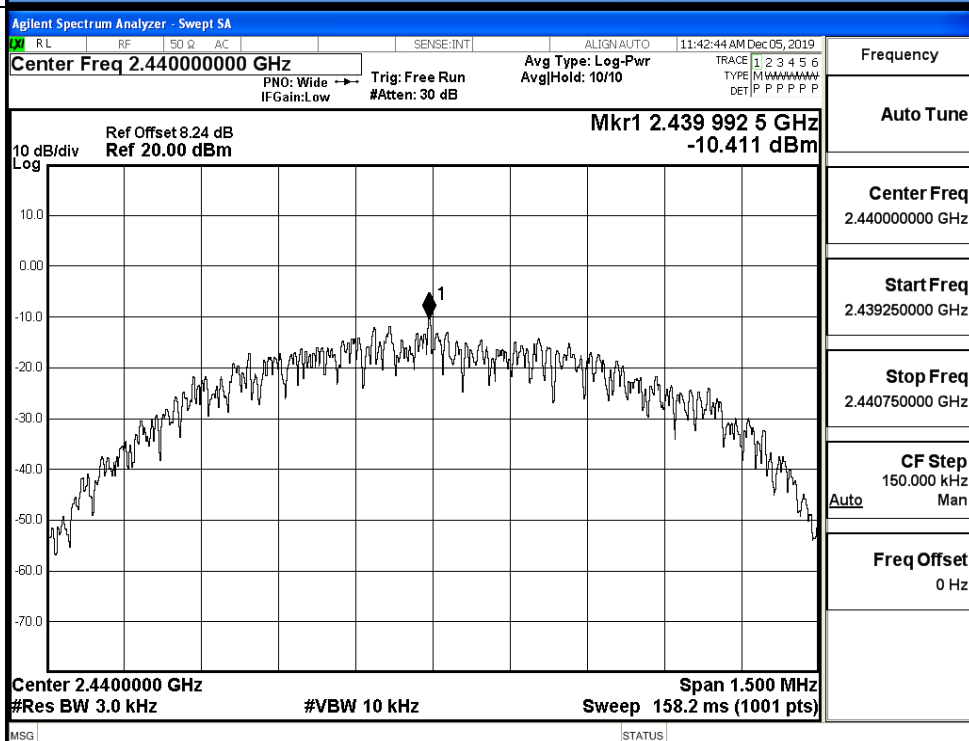


Frequency

Auto Tune

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

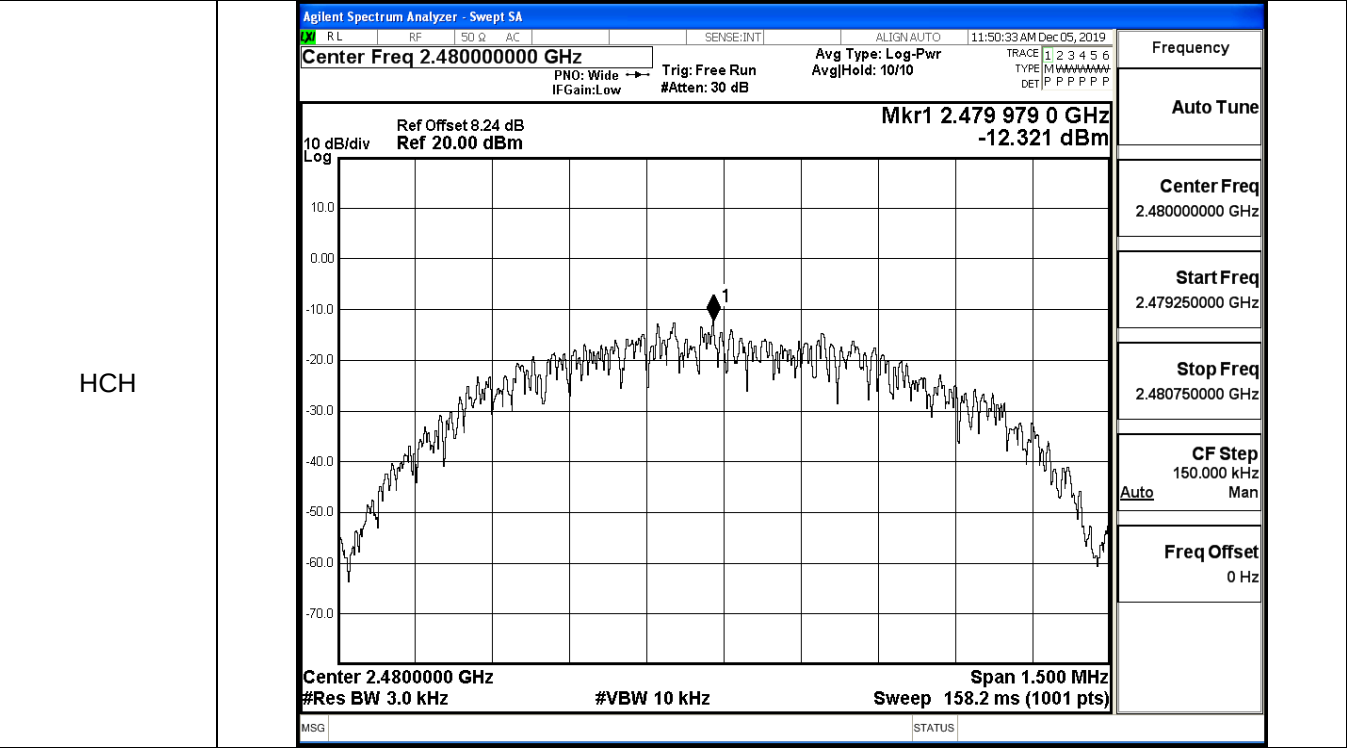
MCH



Frequency

Auto Tune

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

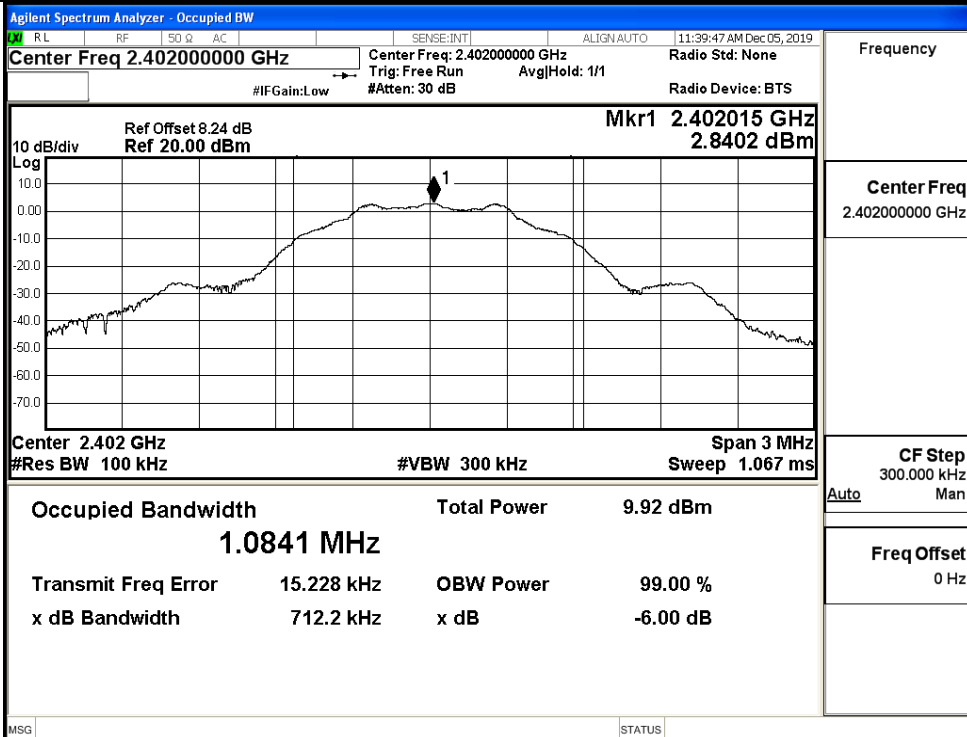


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7122	≥ 0.5	PASS
BT LE	MCH	0.6993	≥ 0.5	PASS
BT LE	HCH	0.7034	≥ 0.5	PASS

Test Graphs

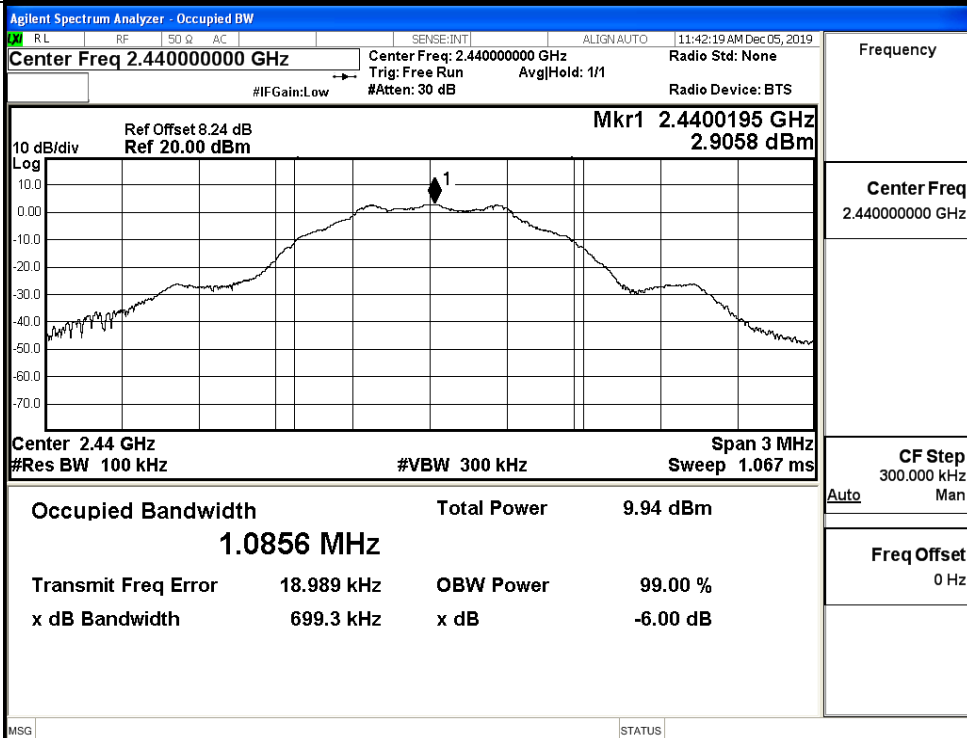
LCH



Frequency

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

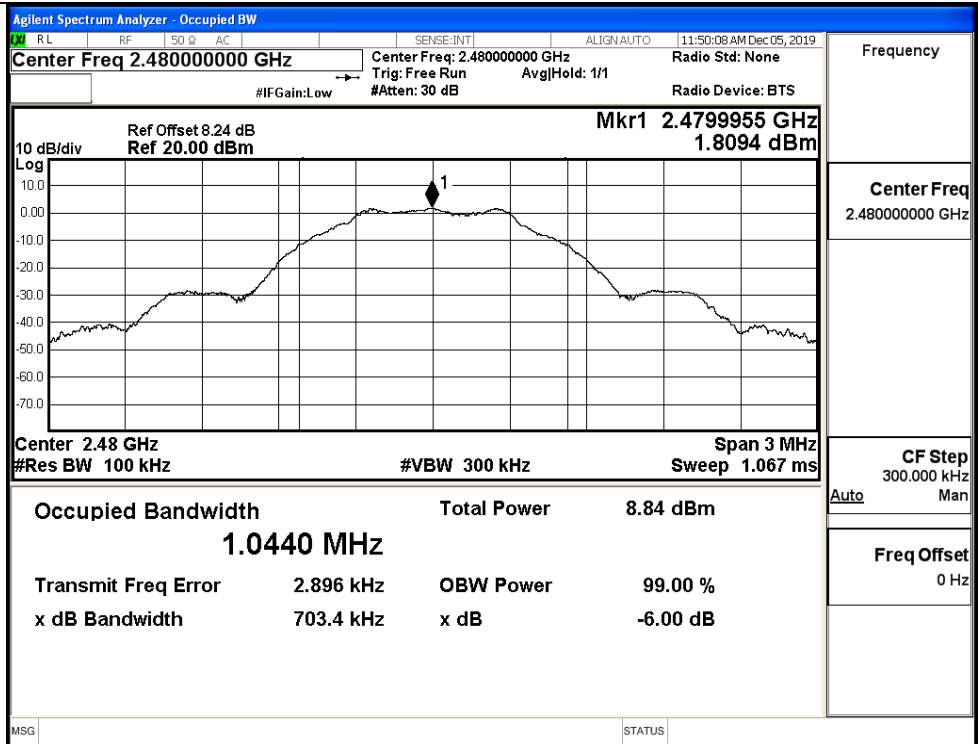
MCH



Frequency

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

HCH

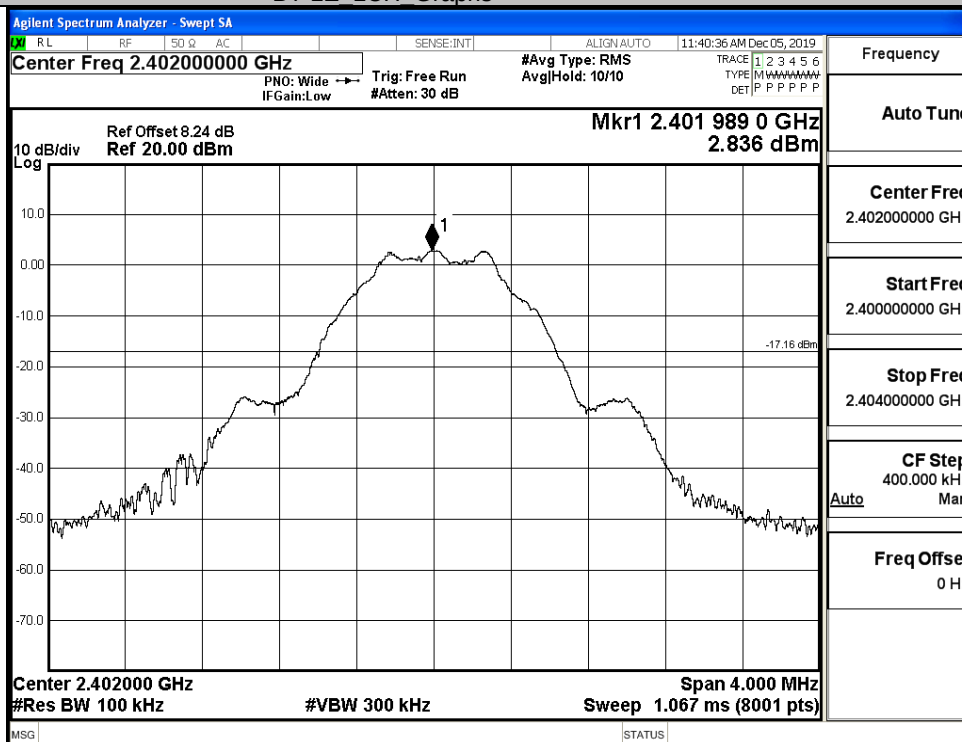


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.836	-36.914	-17.164	PASS
BT LE	MCH	2.894	-36.709	-17.106	PASS
BT LE	HCH	1.756	-37.049	-18.244	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

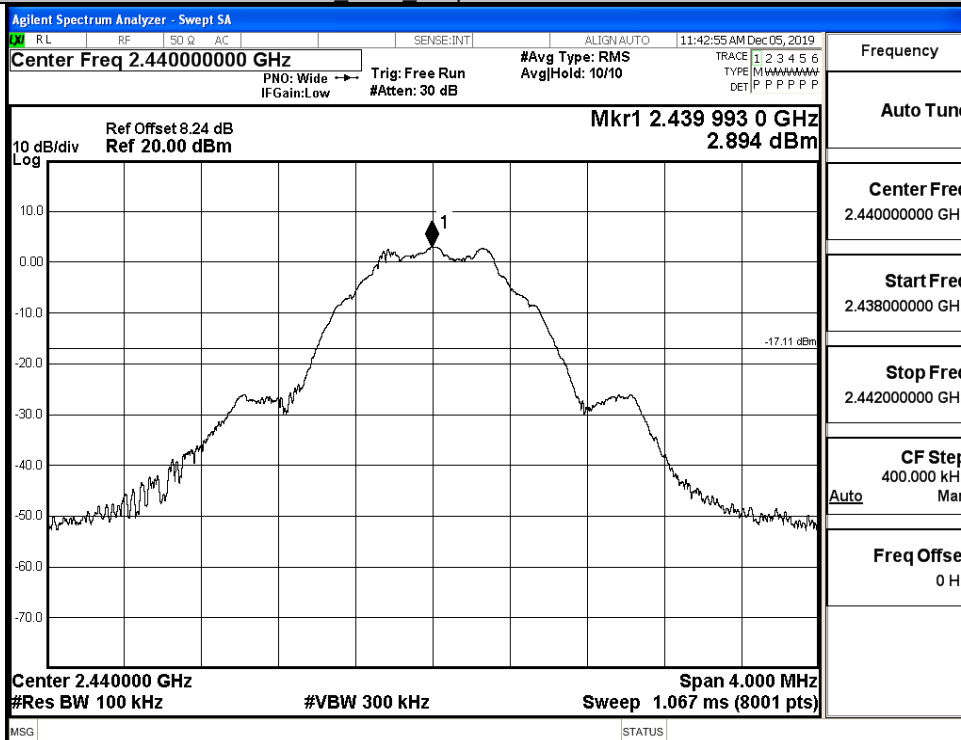


Puw/BT LE/LCH

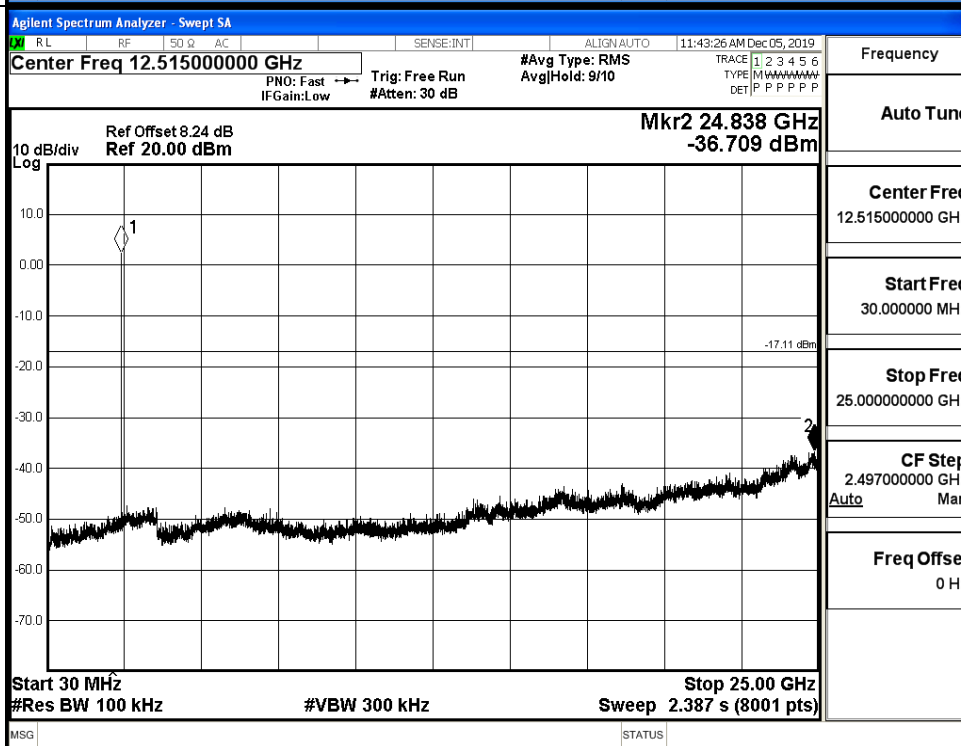


BT LE MCH Graphs

Pref/BT LE/MCH

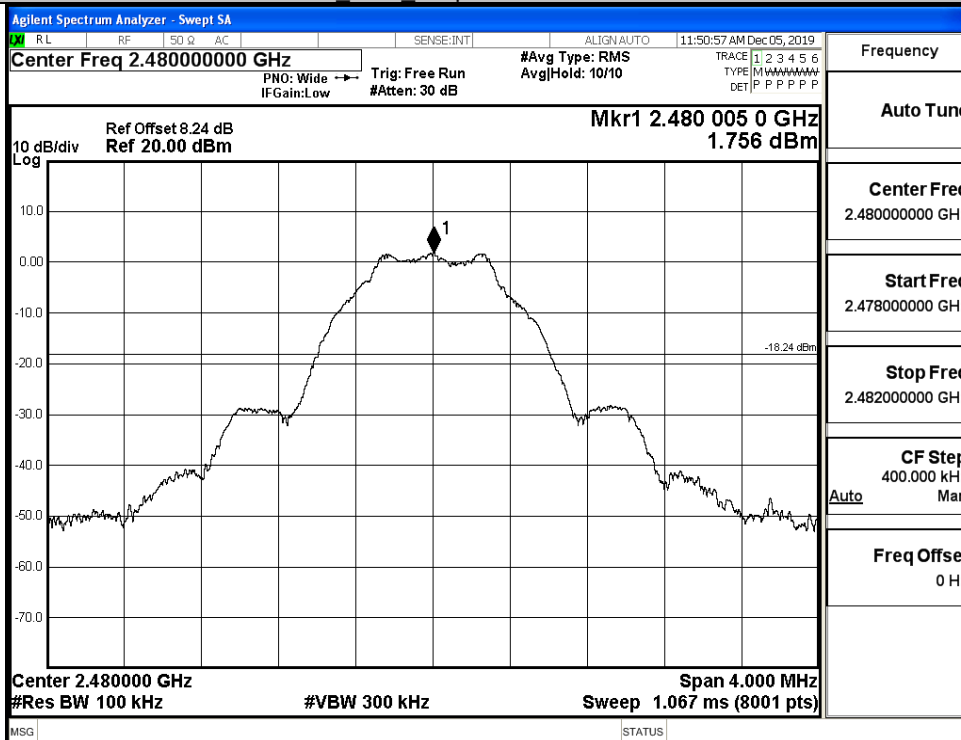


Puw/BT LE/MCH

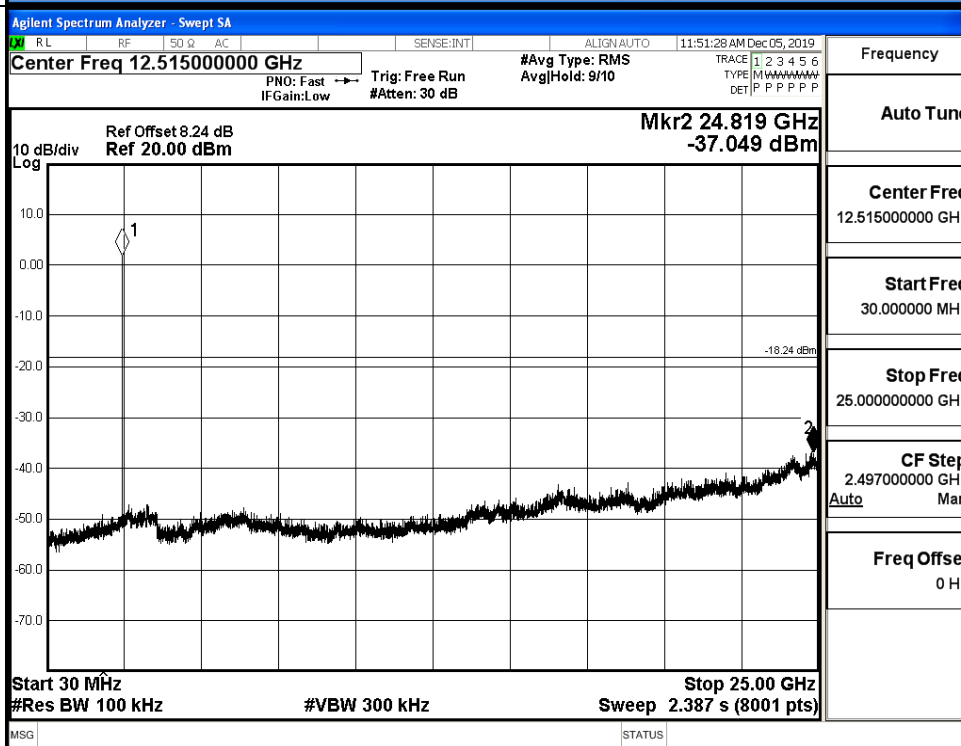


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

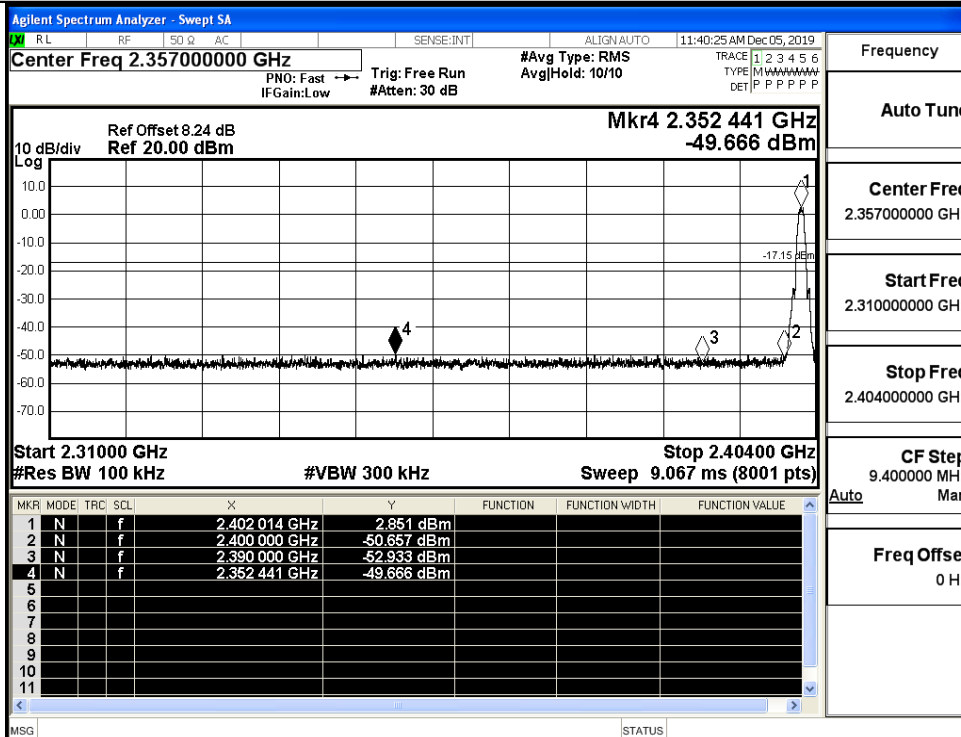


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.851	-49.666	-17.15	PASS
BT LE	HCH	1.989	-48.679	-18.01	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

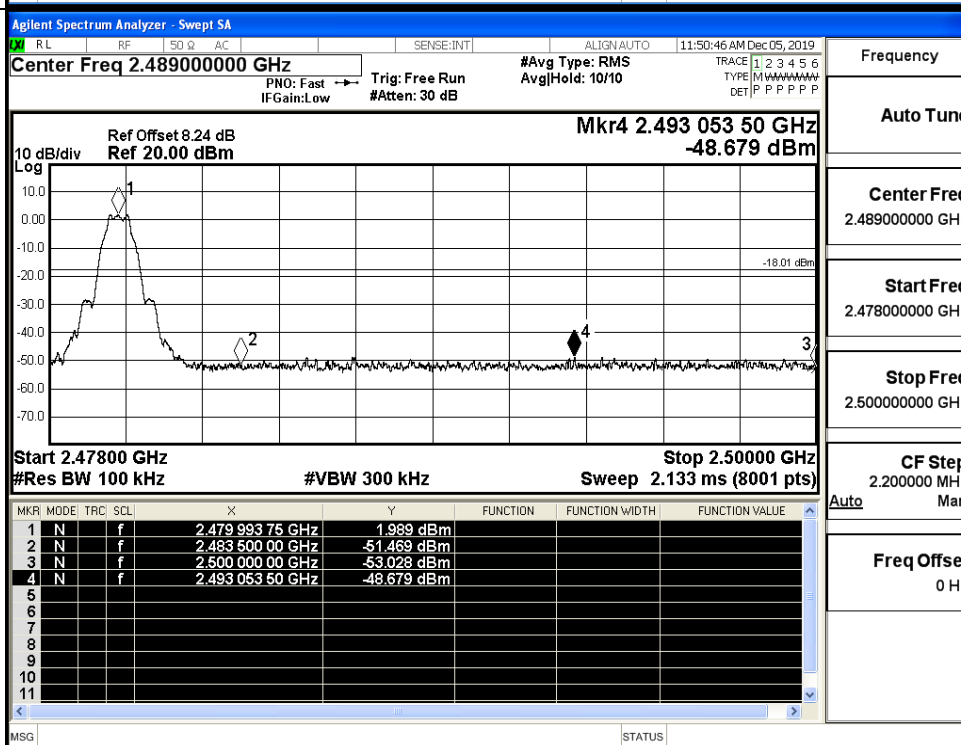
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

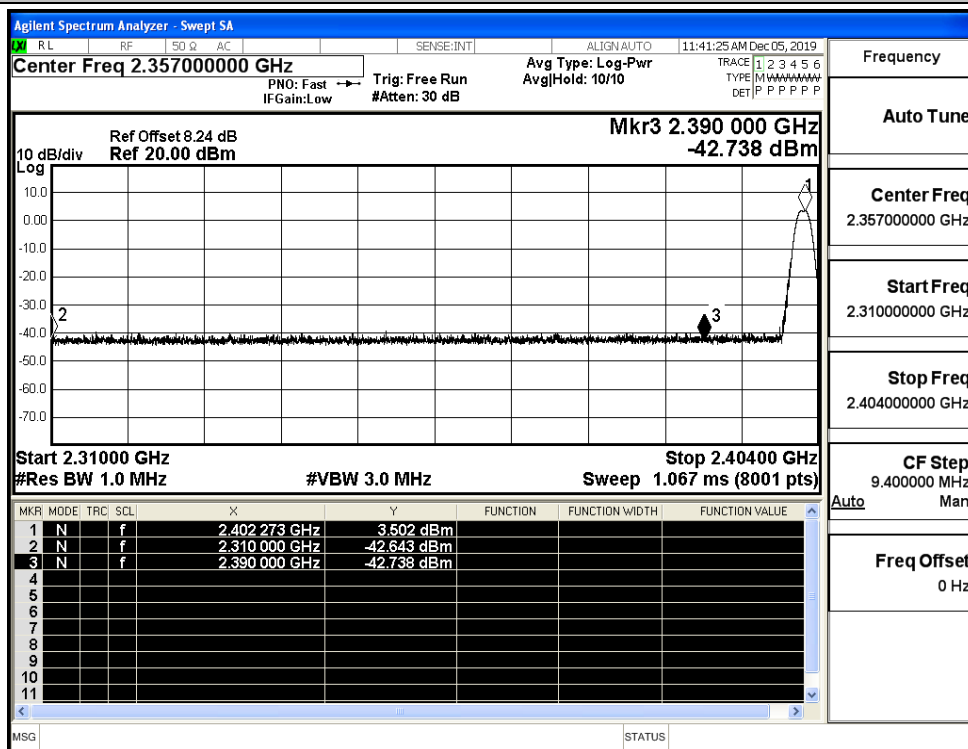
CF Step
2.200000 MHz

Freq Offset
0 Hz

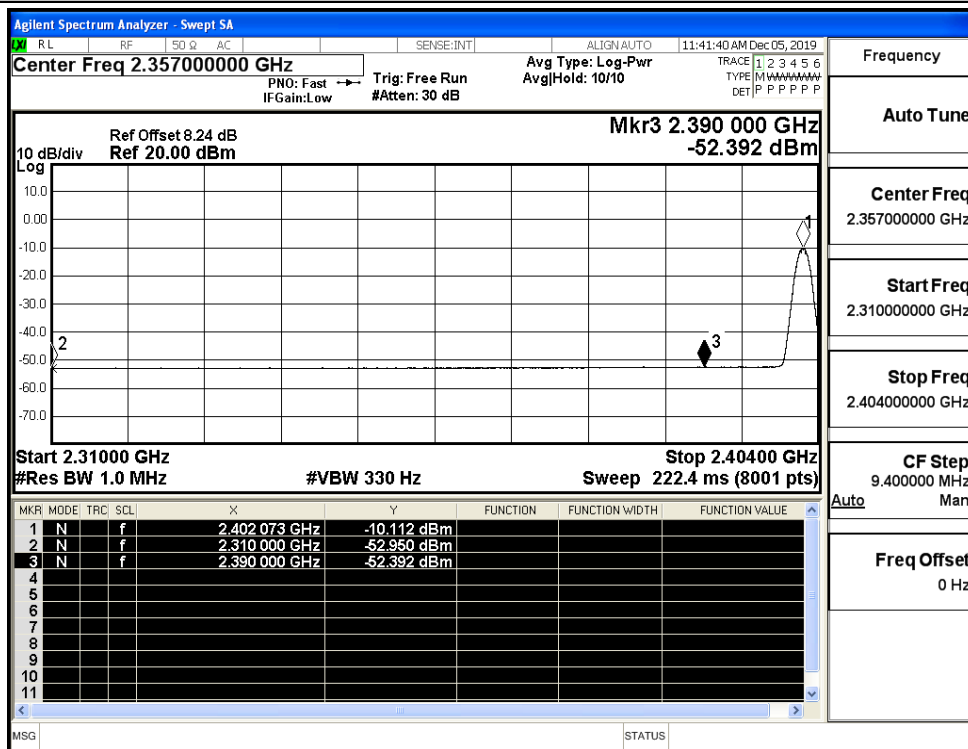
B.7 Restrict-band band-edge measurements

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	-42.64	2.0	0	52.61	PEAK	74	PASS
		Ant1	2310.0	-52.95	2.0	0	42.31	AV	54	PASS
		Ant1	2390.0	-42.74	2.0	0	52.52	PEAK	74	PASS
		Ant1	2390.0	-52.39	2.0	0	42.87	AV	54	PASS
	2480	Ant1	2483.5	-41.77	2.0	0	53.49	PEAK	74	PASS
		Ant1	2483.5	-51.98	2.0	0	43.27	AV	54	PASS
		Ant1	2500.0	-42.29	2.0	0	52.97	PEAK	74	PASS
		Ant1	2500.0	-51.89	2.0	0	43.36	AV	54	PASS

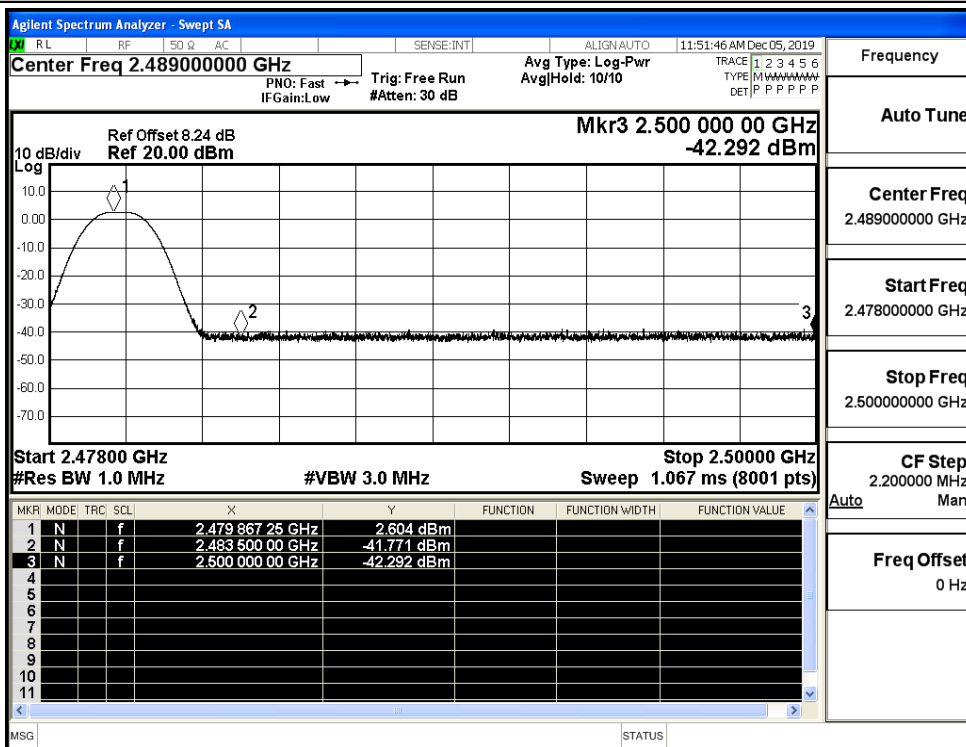
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

