

## Appendix B

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

Product Name: Arcos Bluetooth® Earbuds

Trade Mark: Gemline

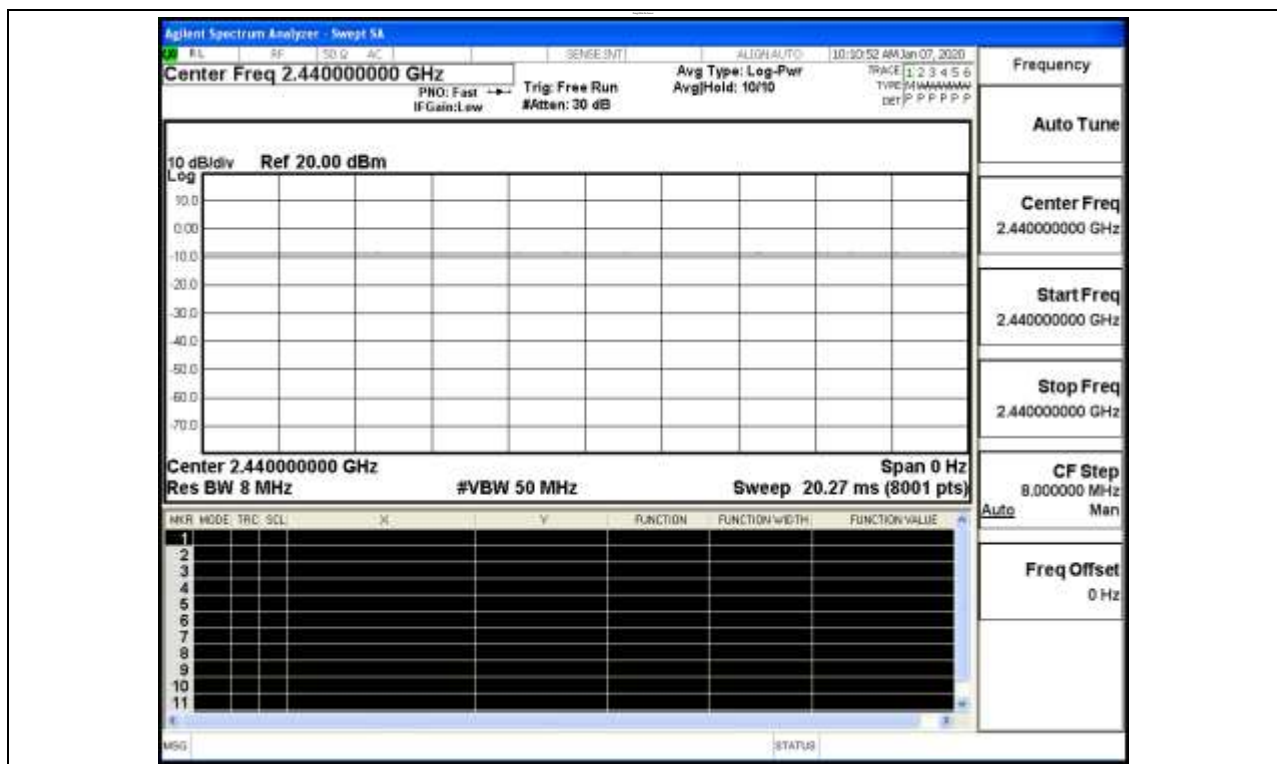
Test Model: 100498-001B

#### Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	SCOUT WU
Supervised by:	Tom.Liu

#### B.1 Duty Cycle

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

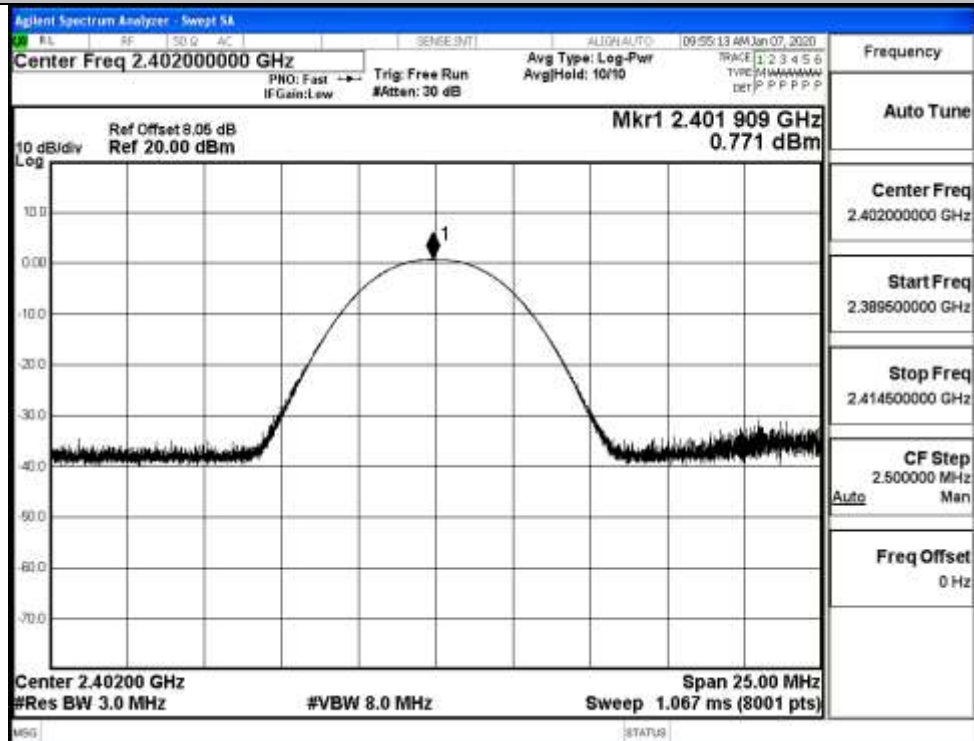


## B.2 Maximum Conducted Peak Output Power

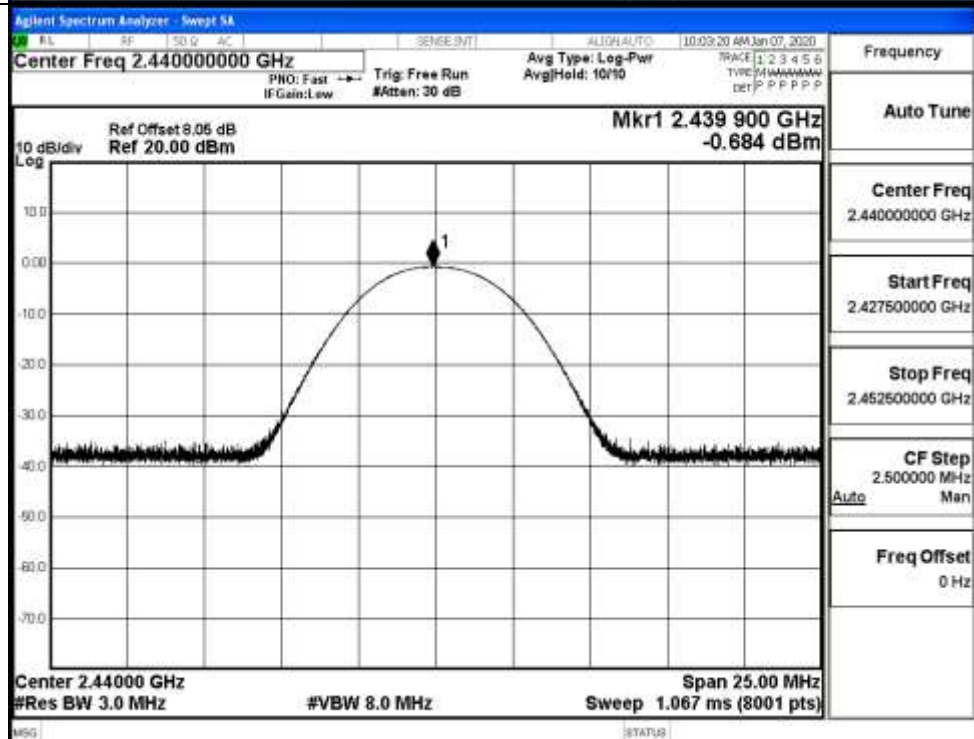
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.771	30	PASS
BT LE	MCH	-0.684	30	PASS
BT LE	HCH	-2.304	30	PASS

Test Graphs

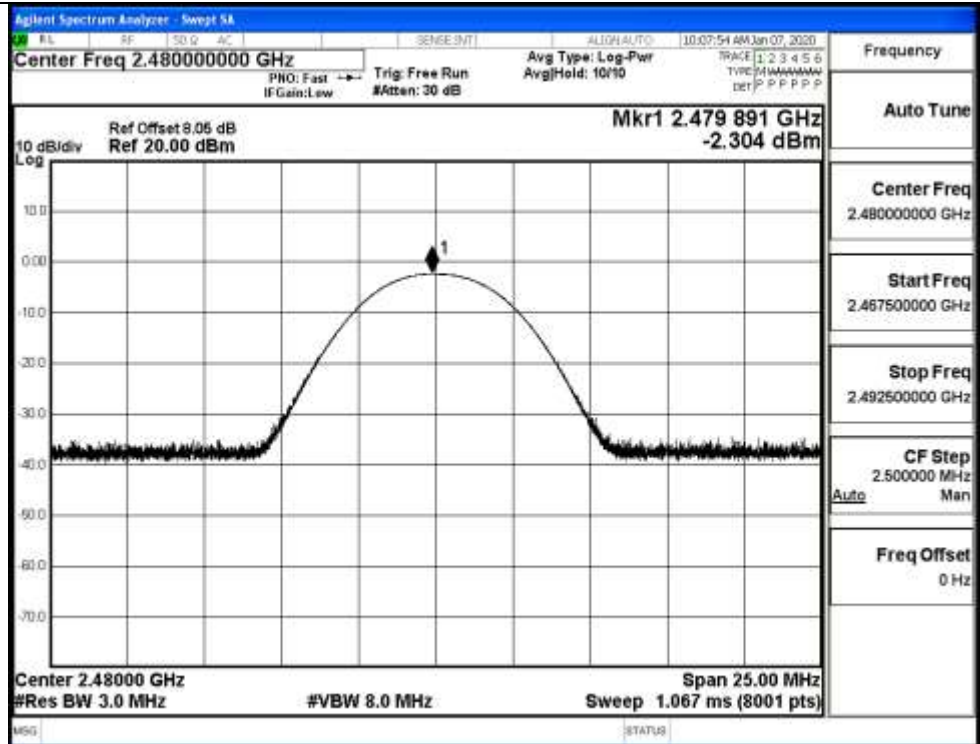
LCH



MCH



HCH

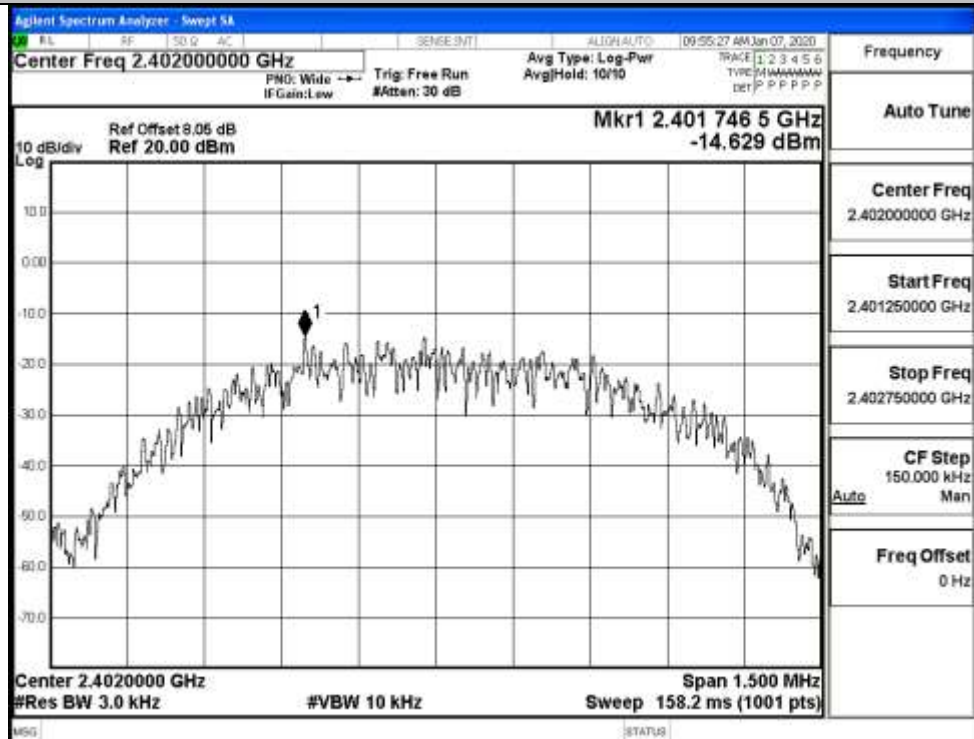


### B.3 Maximum Power Spectral Density

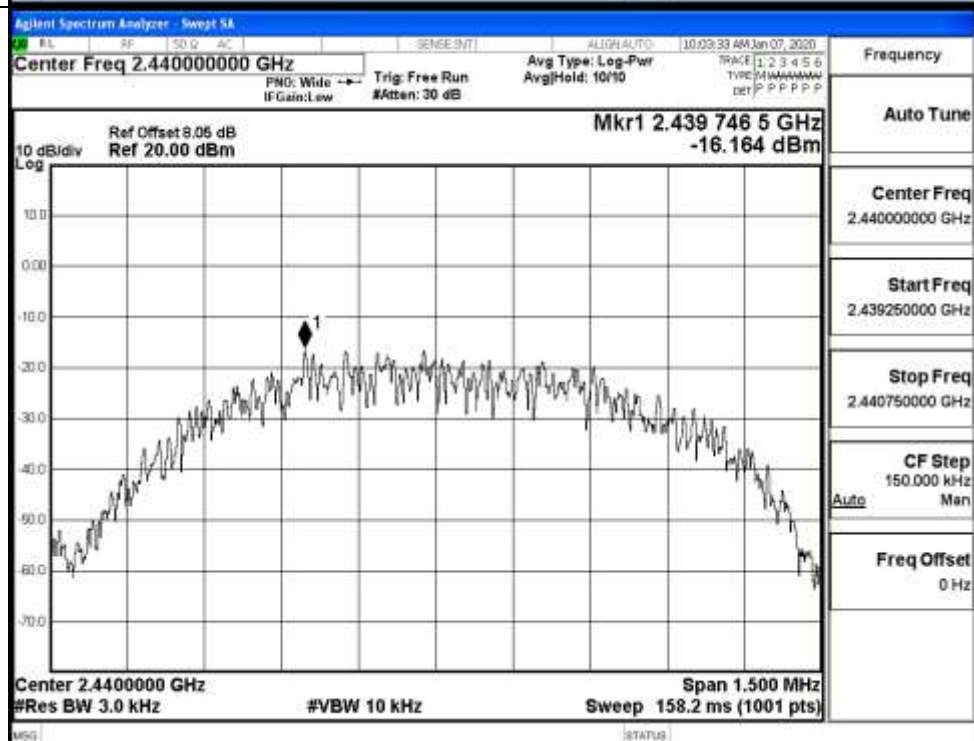
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.629	8	PASS
BT LE	MCH	-16.164	8	PASS
BT LE	HCH	-17.805	8	PASS

Test Graphs

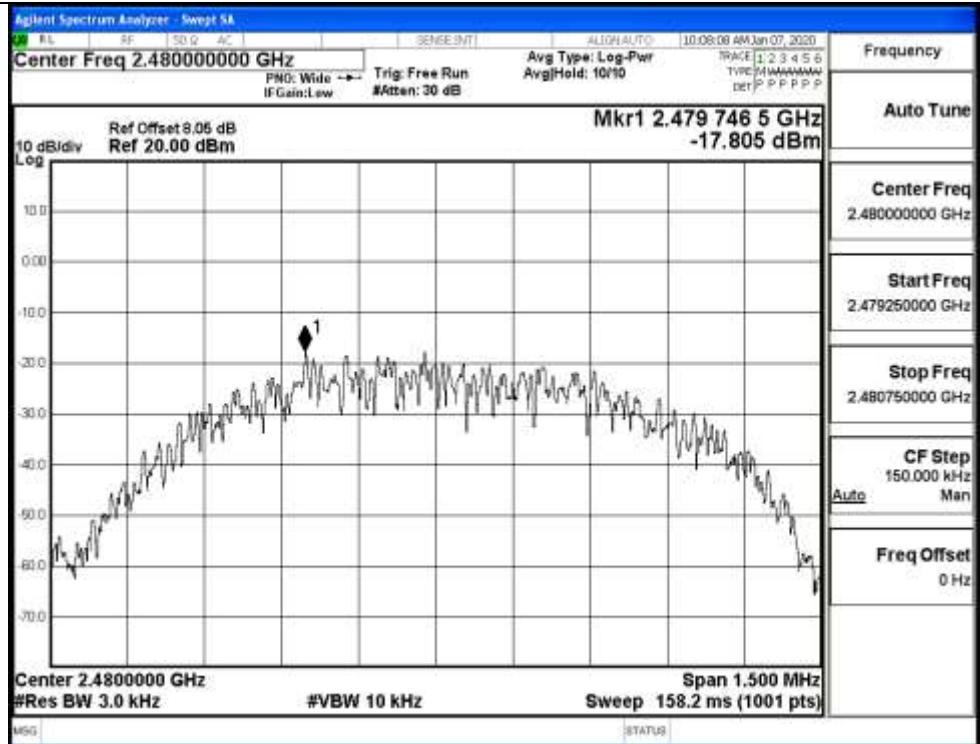
LCH



MCH



HCH

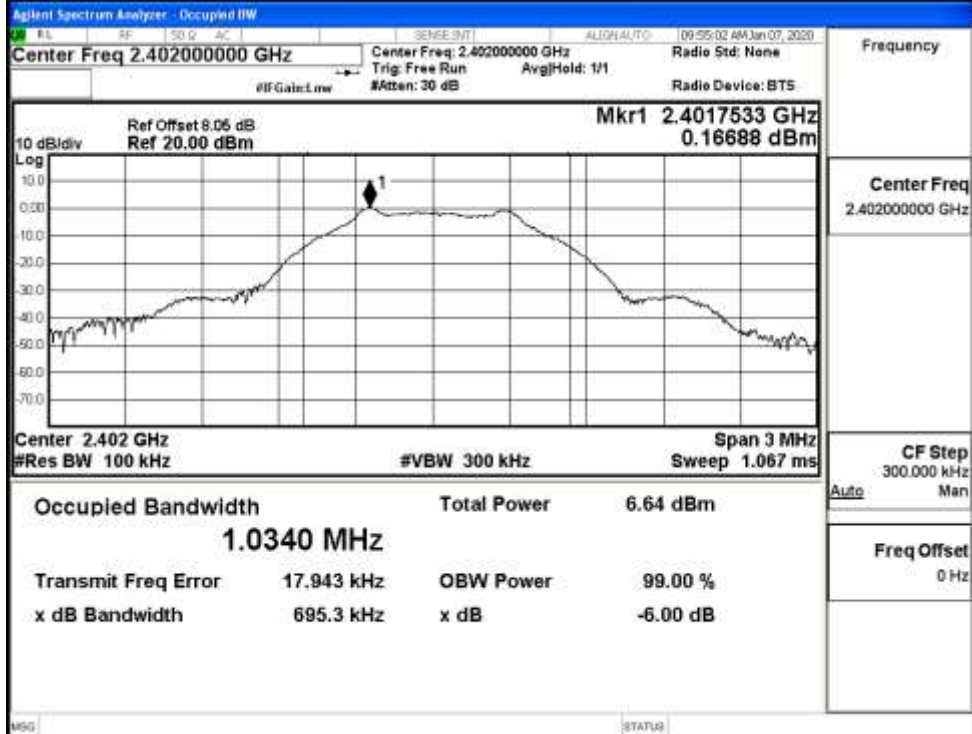


## B.4 6dB Bandwidth

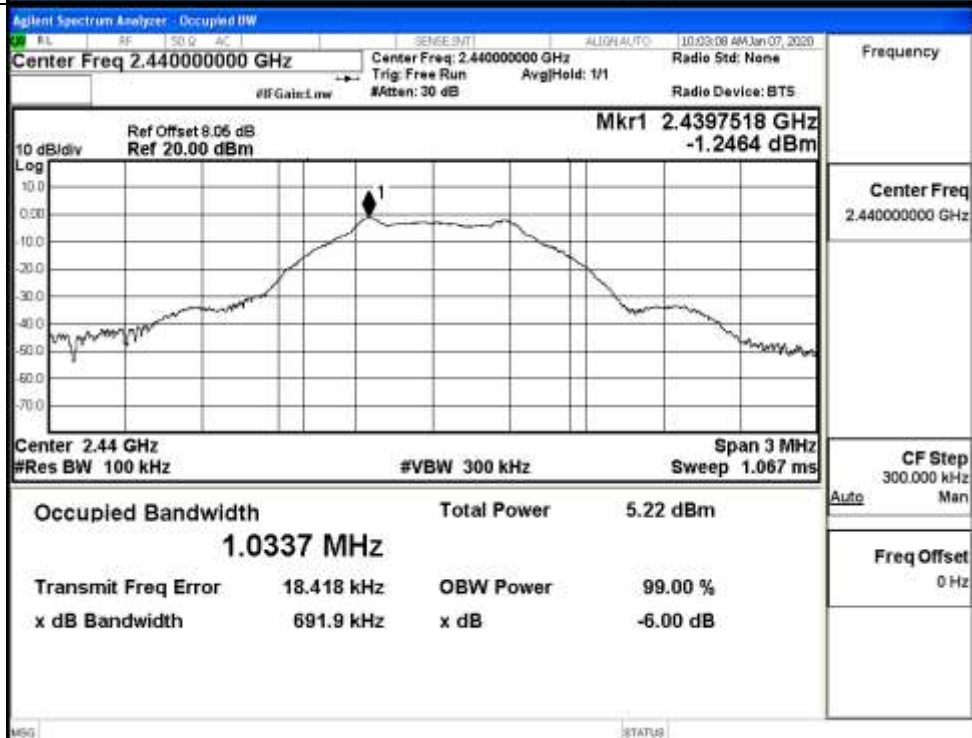
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6953	$\geq 0.5$	PASS
BT LE	MCH	0.6919	$\geq 0.5$	PASS
BT LE	HCH	0.6912	$\geq 0.5$	PASS

Test Graphs

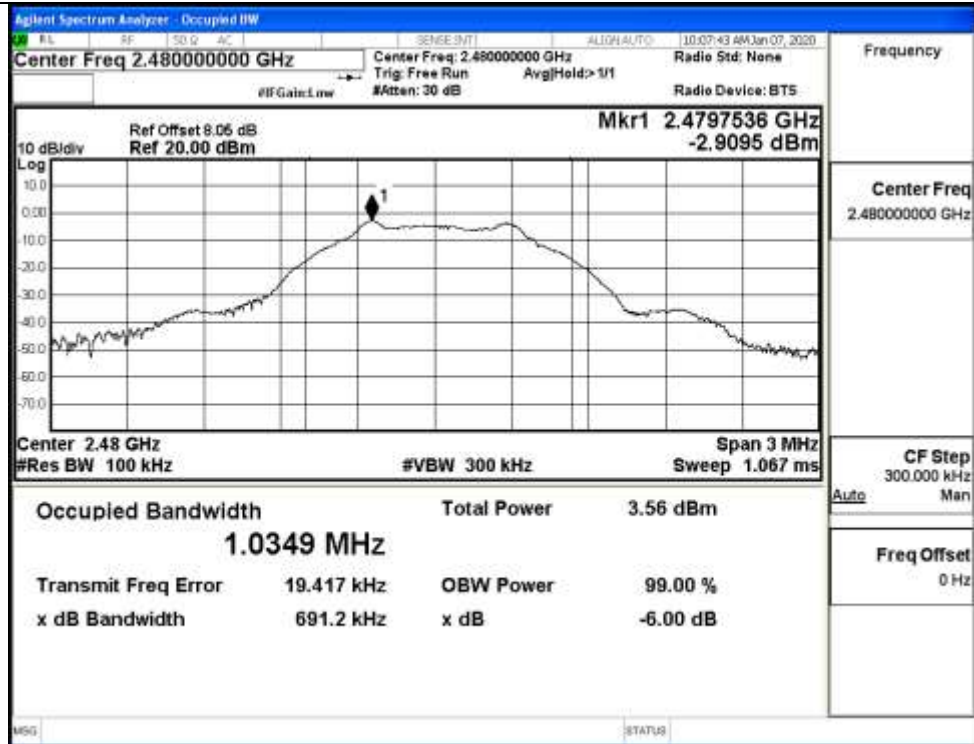
LCH



MCH



HCH



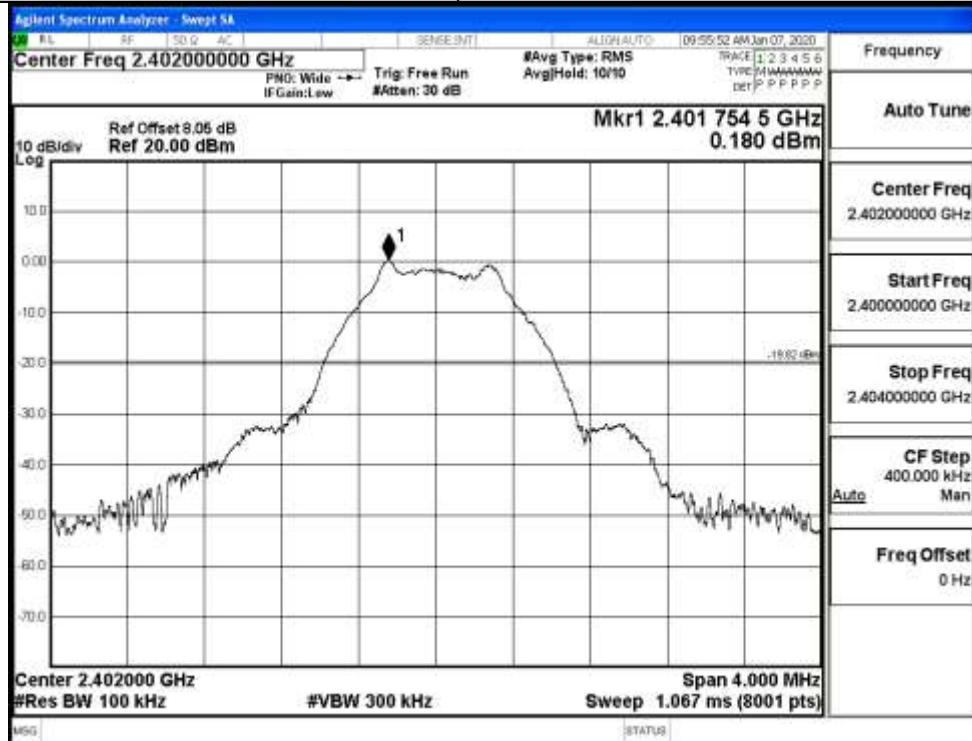


## B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.18	-36.428	-19.820	PASS
BT LE	MCH	-1.248	-37.233	-21.248	PASS
BT LE	HCH	-2.906	-37.366	-22.906	PASS

BT LE\_LCH\_Graphs

Pref/BT LE/LCH



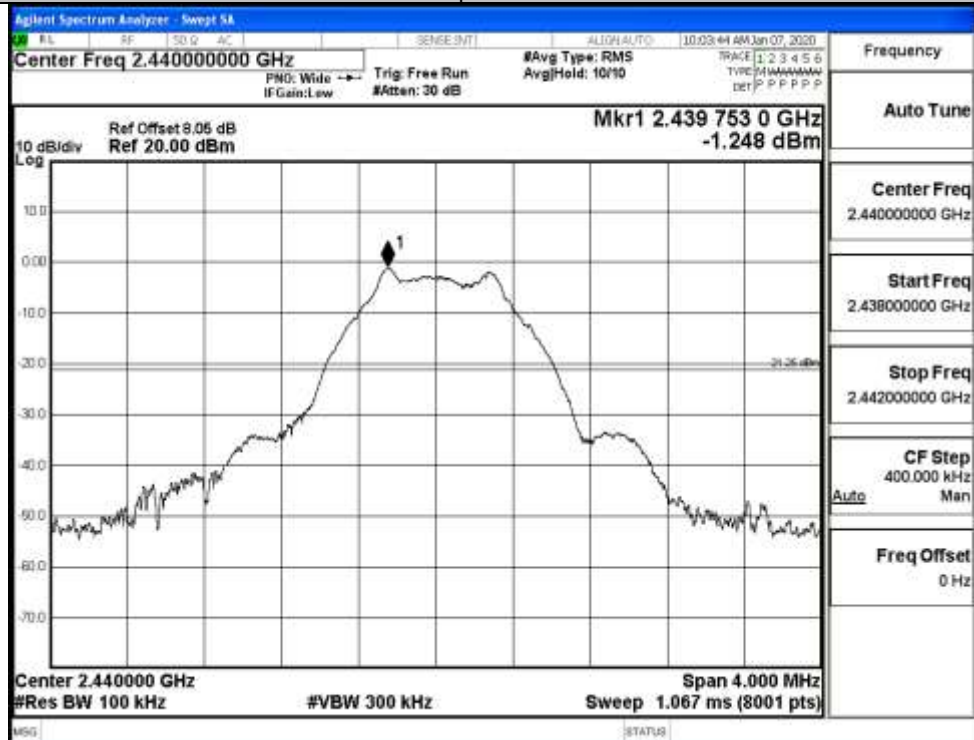
Puw/BT LE/LCH





## BT LE\_MCH\_Graphs

Pref/BT LE/MCH

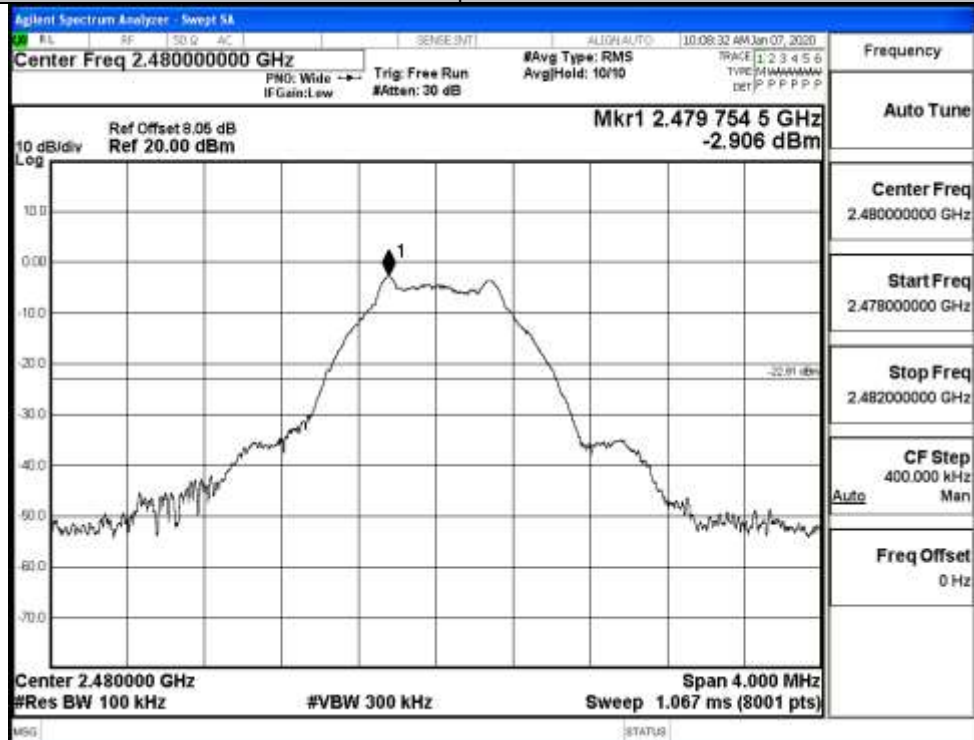


Puw/BT LE/MCH



## BT LE\_HCH\_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

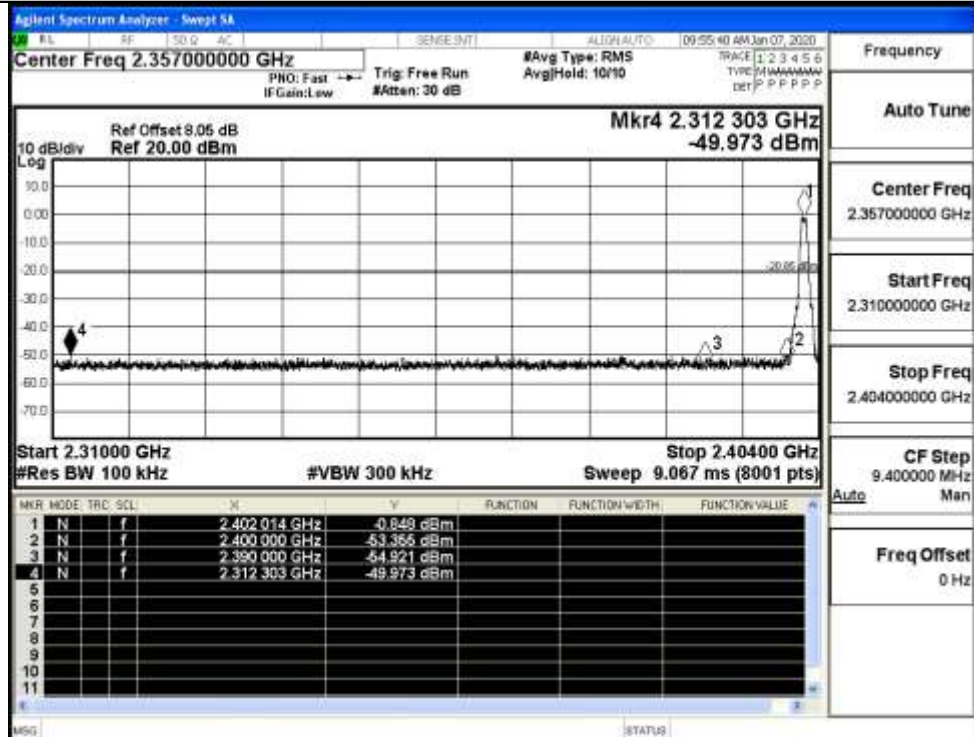


## B.6 Band-edge for RF Conducted Emissions

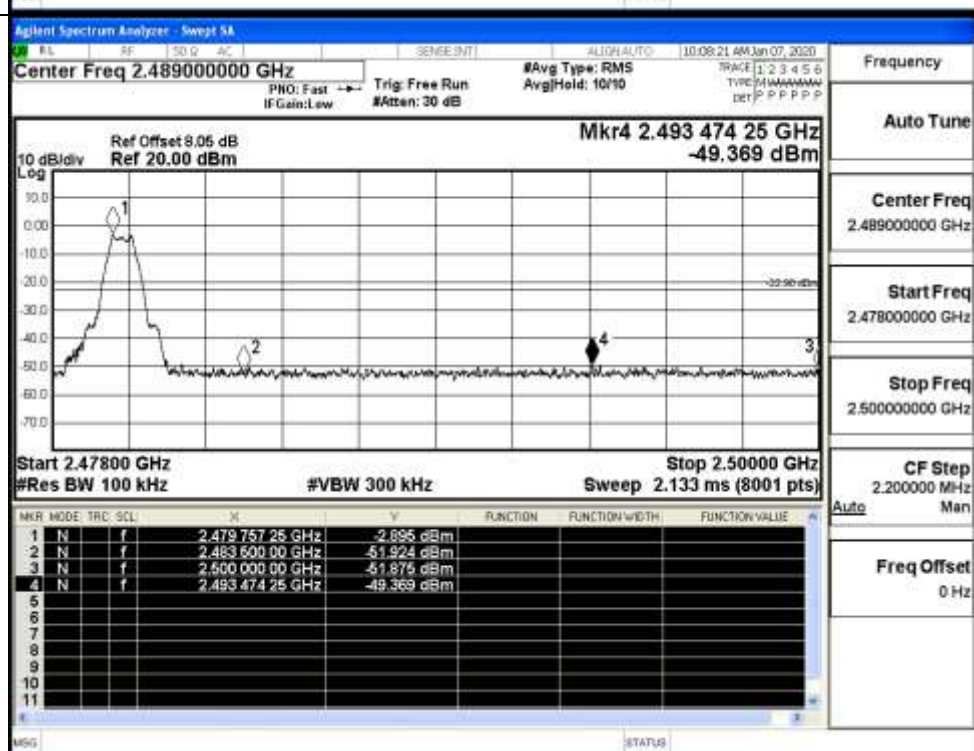
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.848	-49.973	-20.85	PASS
BT LE	HCH	-2.895	-49.369	-22.9	PASS

Test Graphs

LCH



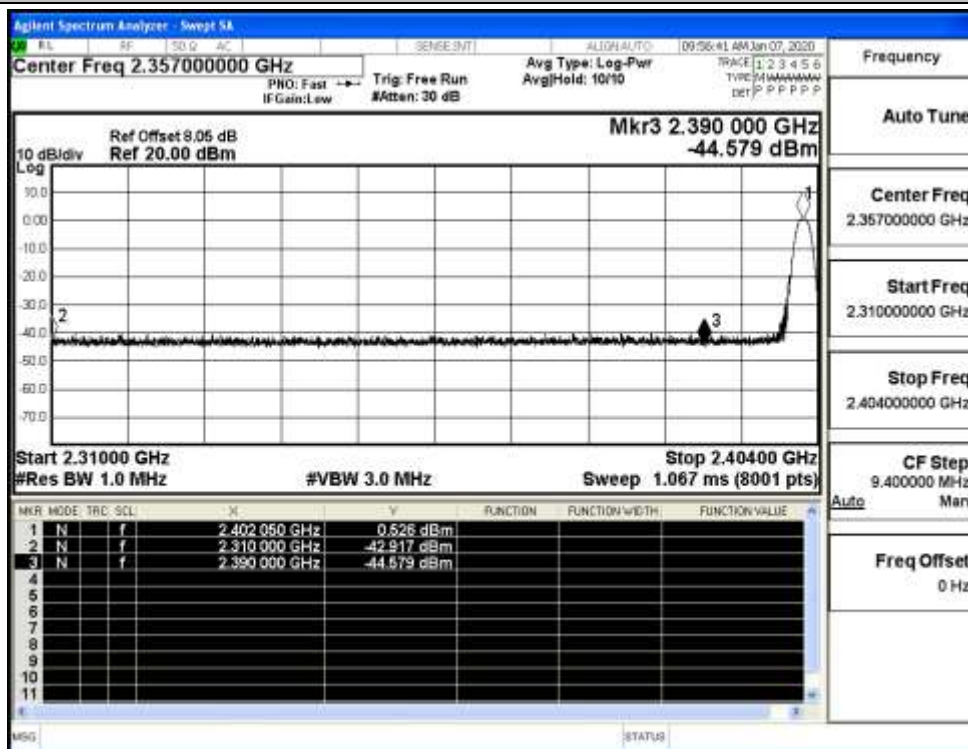
HCH



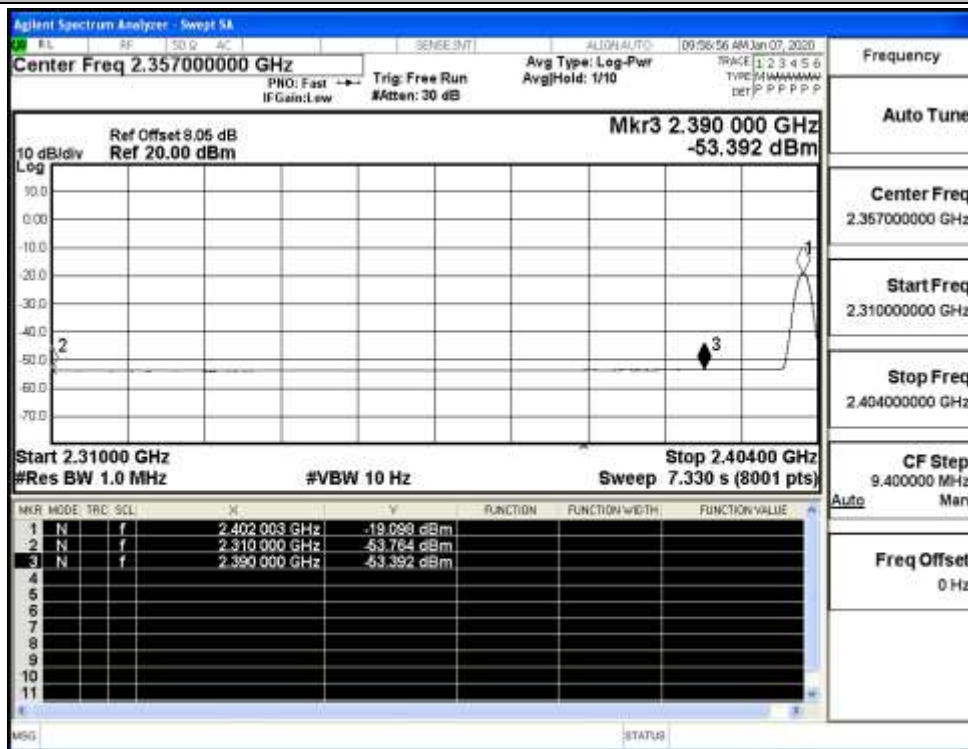
**B.7 Restrict-band band-edge measurements**

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	-42.92	0	0	52.34	PEAK	74	PASS
		Ant1	2310.0	-53.76	0	0	41.49	AV	54	PASS
		Ant1	2390.0	-44.58	0	0	50.68	PEAK	74	PASS
		Ant1	2390.0	-53.39	0	0	41.87	AV	54	PASS
	2480	Ant1	2483.5	-41.62	0	0	53.64	PEAK	74	PASS
		Ant1	2483.5	-52.88	0	0	42.38	AV	54	PASS
		Ant1	2500.0	-42.54	0	0	52.71	PEAK	74	PASS
		Ant1	2500.0	-52.72	0	0	42.54	AV	54	PASS

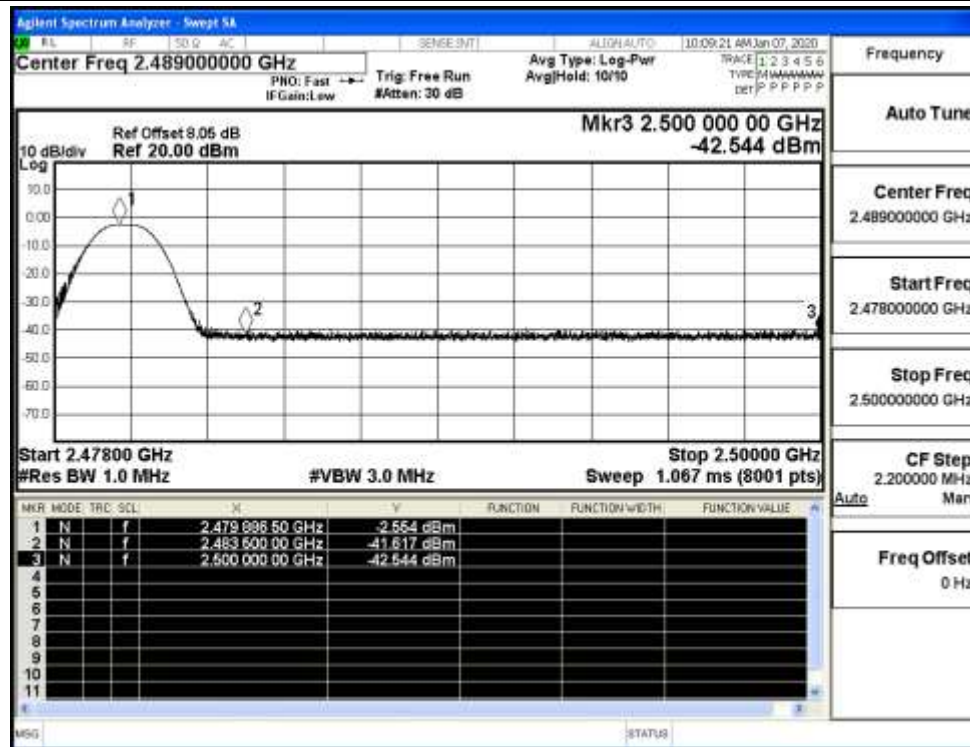
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

