

Appendix A

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

Product Name: Bluetooth speaker side table

Trade Mark: N/A

Test Model: FB-12

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.753	21	PASS
	MCH	5.024	21	PASS
	HCH	4.777	21	PASS
$\pi/4$ DQPSK	LCH	5.406	21	PASS
	MCH	5.649	21	PASS
	HCH	5.396	21	PASS

Test Graphs

GFSK/LCH



GFSK/MCH



GFSK/HCH

 $\pi/4$ DQPSK/LCH

$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9522	Not Specified	PASS
	MCH	0.9546	Not Specified	PASS
	HCH	0.9509	Not Specified	PASS
π /4DQPSK	LCH	1.322	Not Specified	PASS
	MCH	1.314	Not Specified	PASS
	HCH	1.313	Not Specified	PASS

Test Graphs

GFSK/LCH

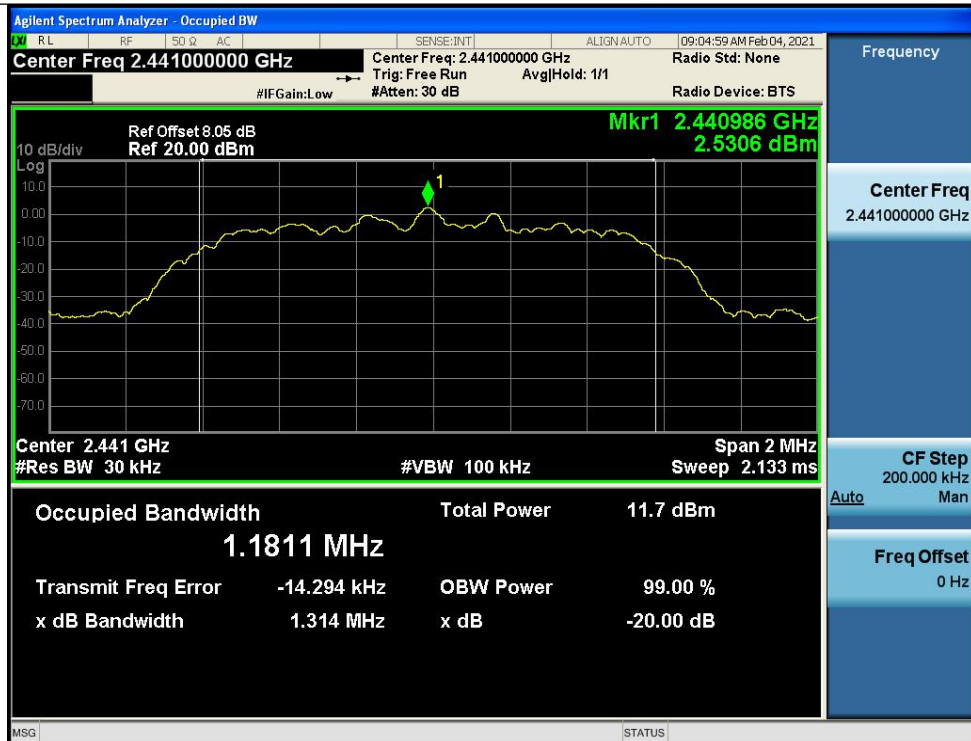


GFSK/MCH



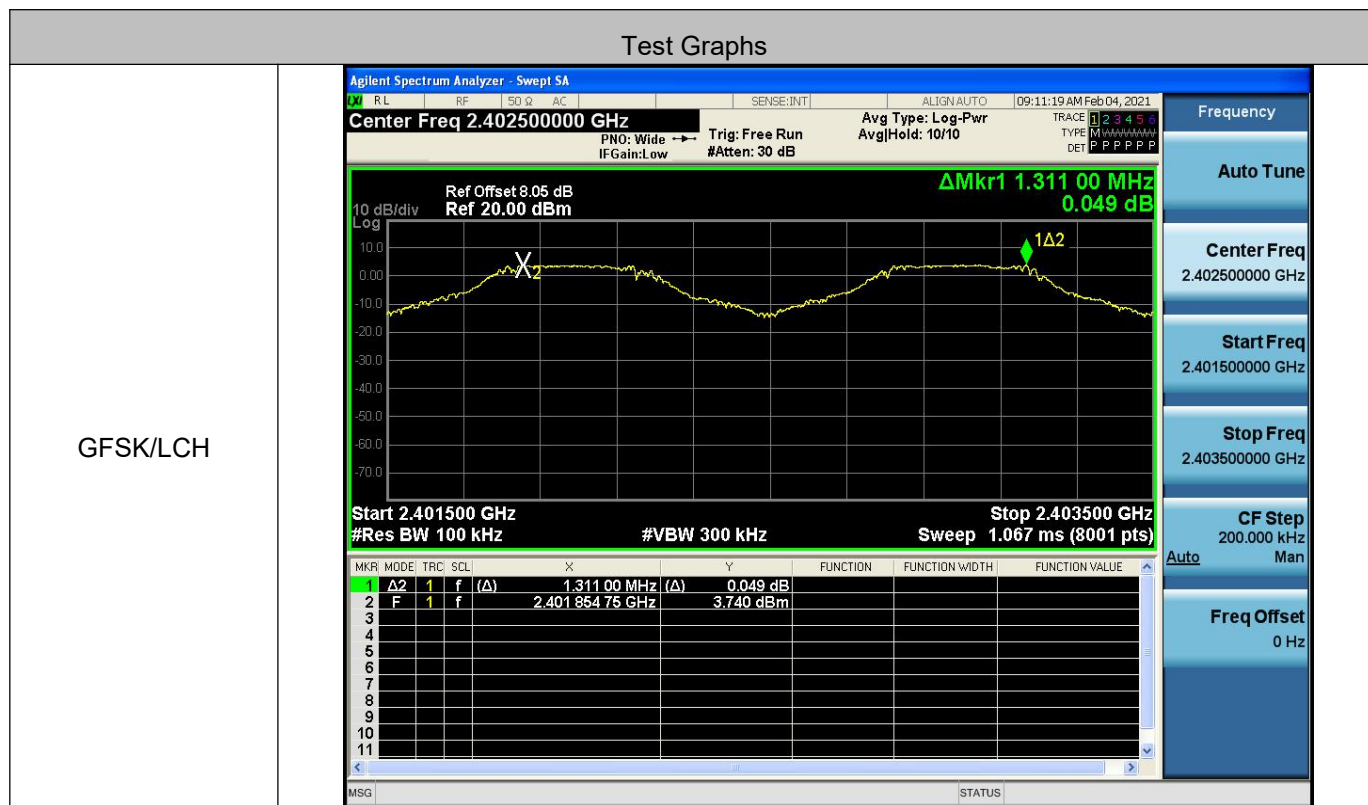
GFSK/HCH

 π /4DQPSK/LCH

$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.311	0.636	PASS
	MCH	1.144	0.636	PASS
	HCH	1.098	0.636	PASS
$\pi/4$ DQPSK	LCH	1.304	0.881	PASS
	MCH	0.992	0.881	PASS
	HCH	0.972	0.881	PASS

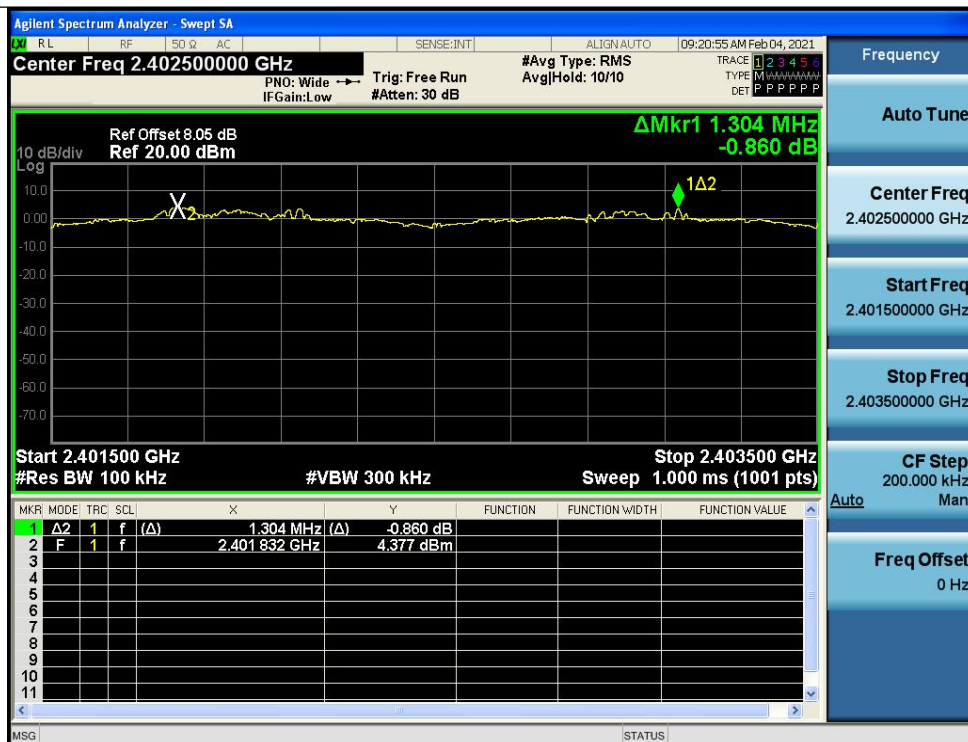


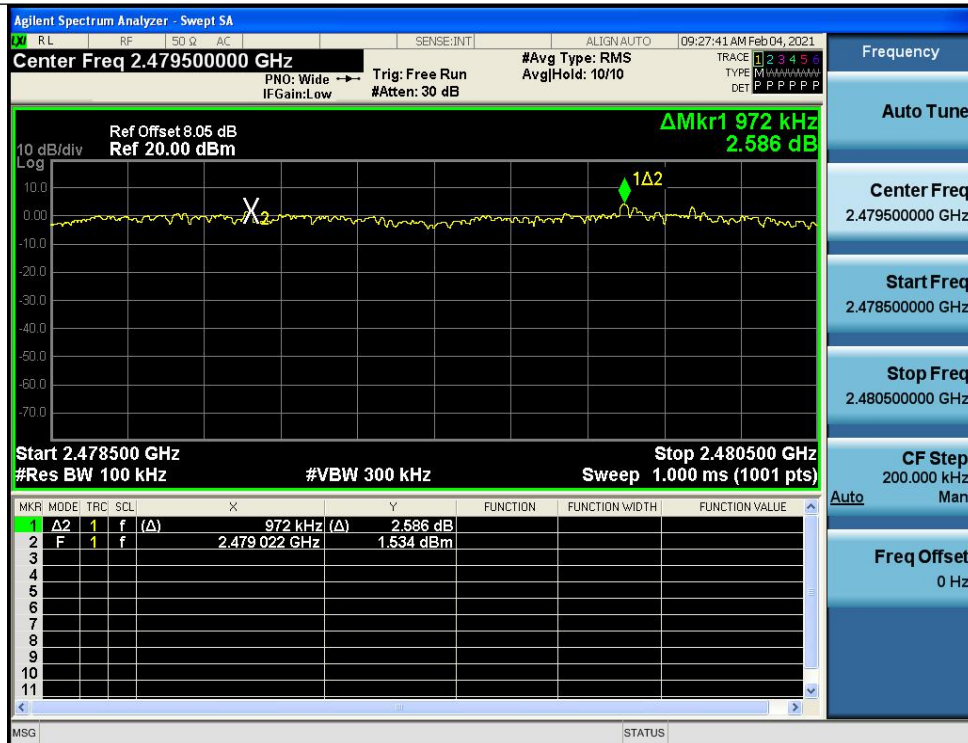
GFSK/MCH



GFSK/HCH



$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

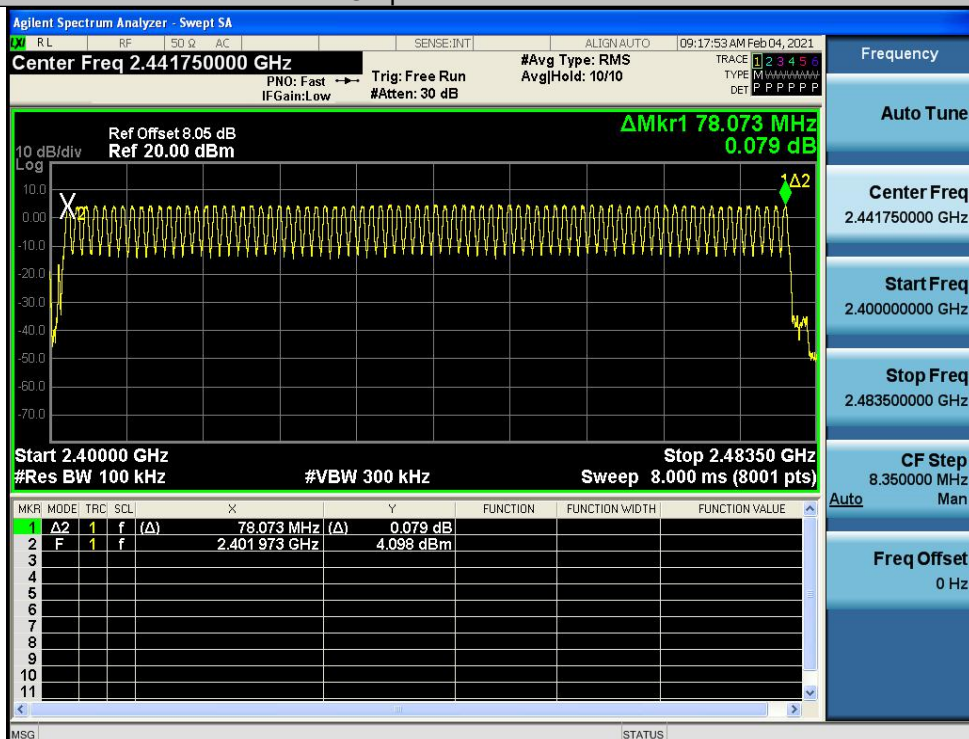
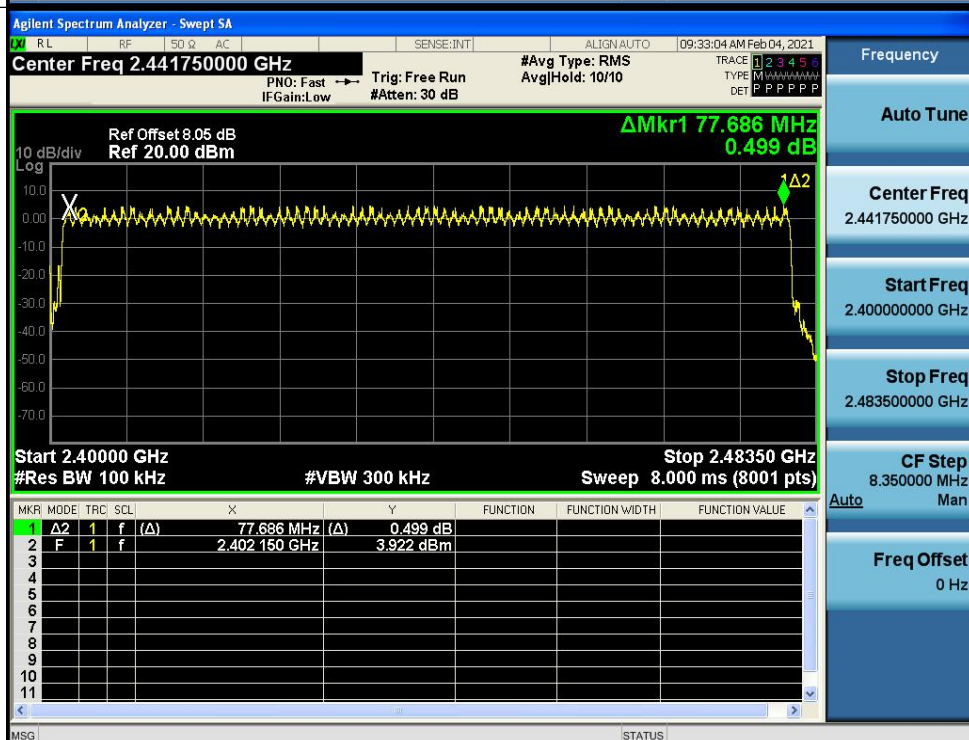
$\pi/4$ DQPSK/HCH

A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

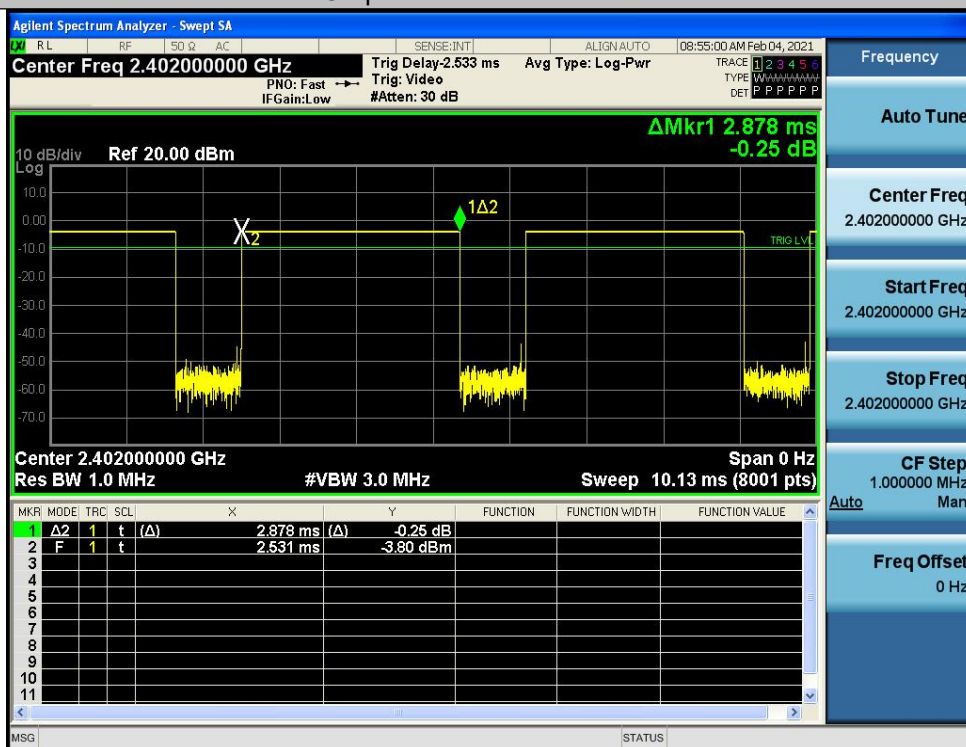
 $\pi/4$ DQPSK/Hop

A.5 Dwell Time

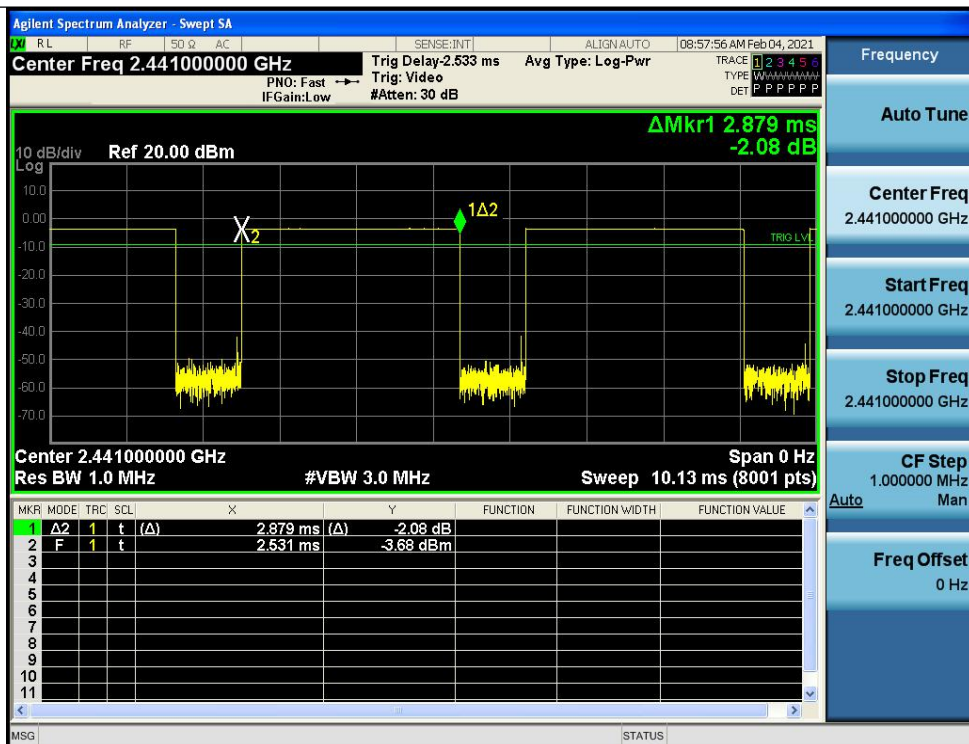
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.308	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS

Test Graphs

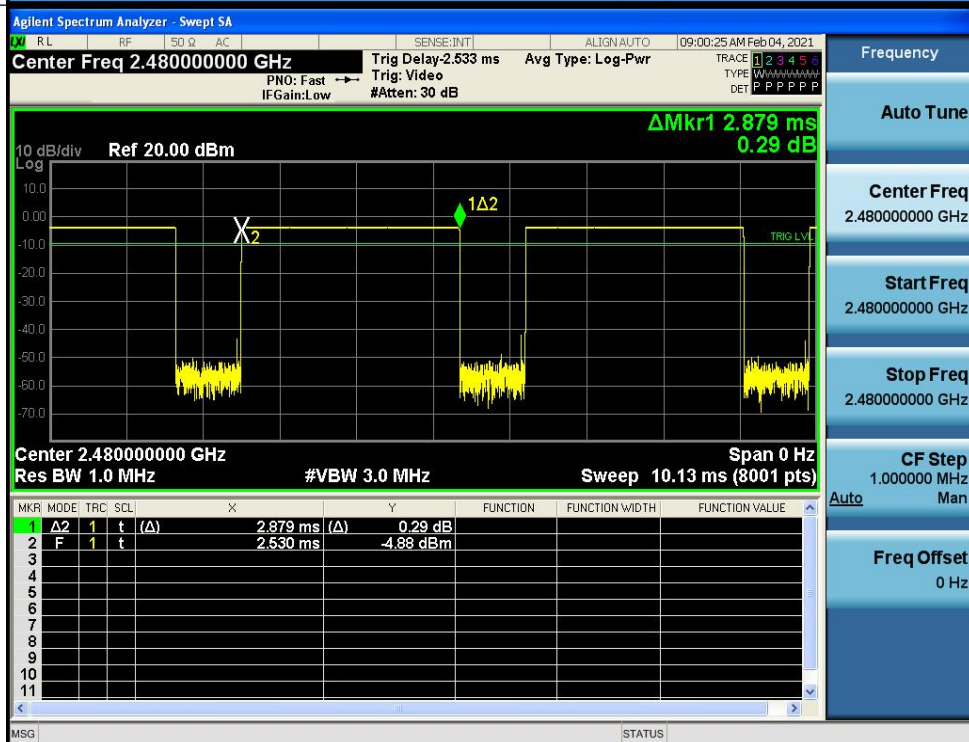
GFSK_DH5/LCH



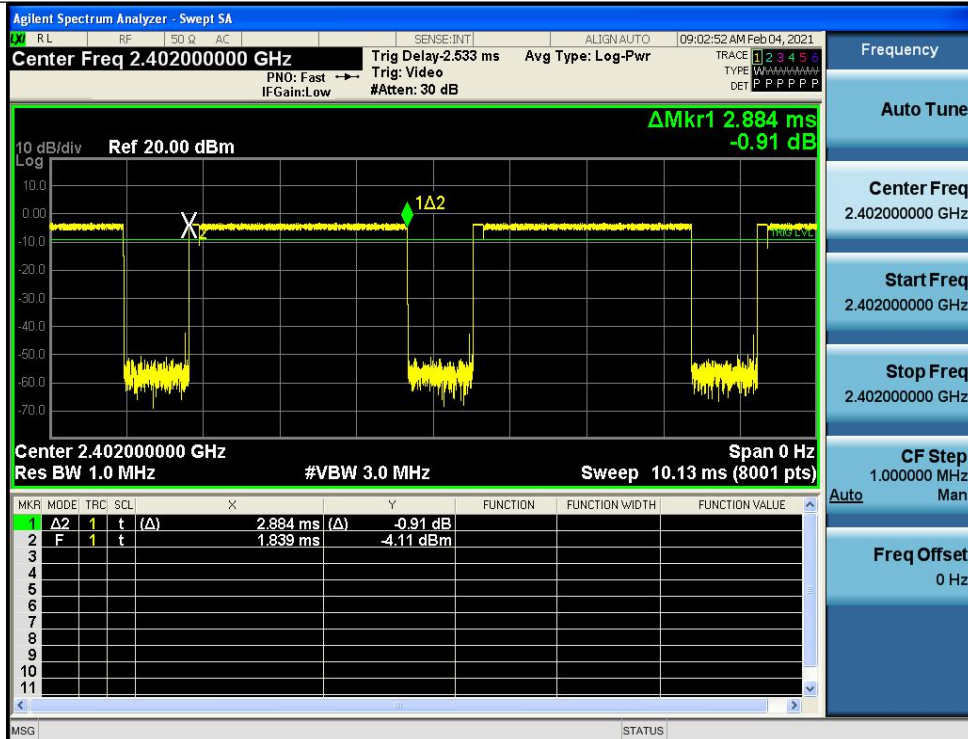
GFSK_DH5/MCH



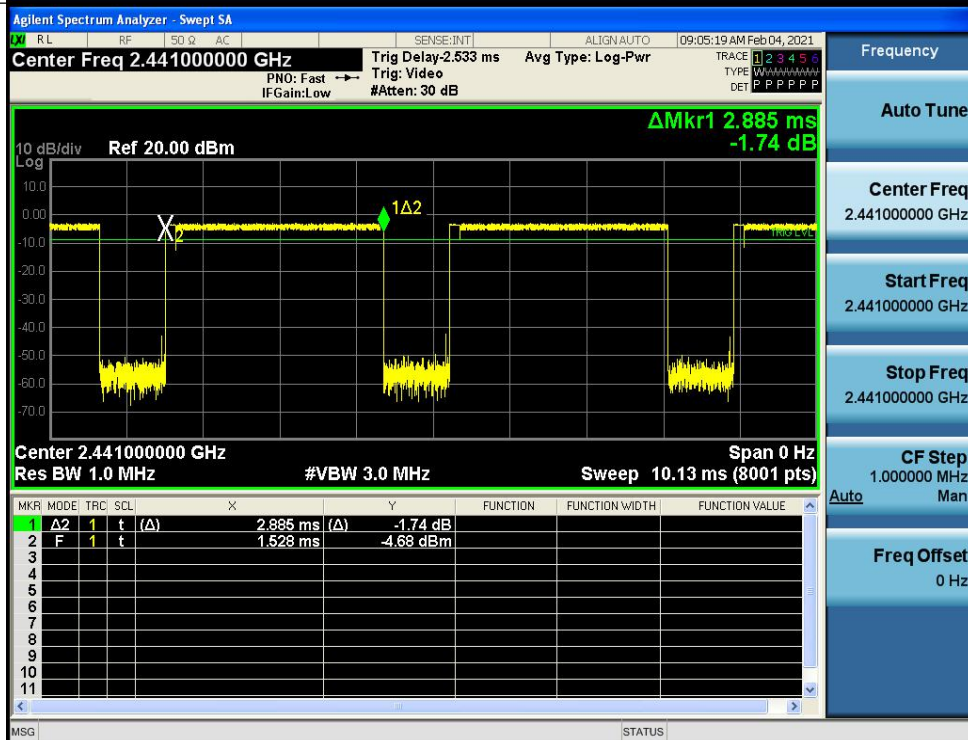
GFSK_DH5/HCH



$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH



A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.13	-37.164	-15.870	PASS
	MCH	4.335	-37.306	-15.665	PASS
	HCH	3.996	-37.826	-16.004	PASS
$\pi/4$ DQPSK	LCH	4.298	-37.665	-15.702	PASS
	MCH	4.565	-37.299	-15.435	PASS
	HCH	4.165	-37.757	-15.835	PASS

GFSK LCH Graphs

Pref



GFSK_MCH_Graphs

Pref



Puw



GFSK HCH_Graphs

Pref



Puw



π /4DQPSK LCH_Graphs

Pref



Puw



$\pi/4$ DQPSK_MCH_Graphs

Pref



Puw

