

Appendix A

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

Product Name: Bluetooth Speaker

Trade Mark: AIHOOR

Test Model: AIHOOR C1

Environmental Conditions

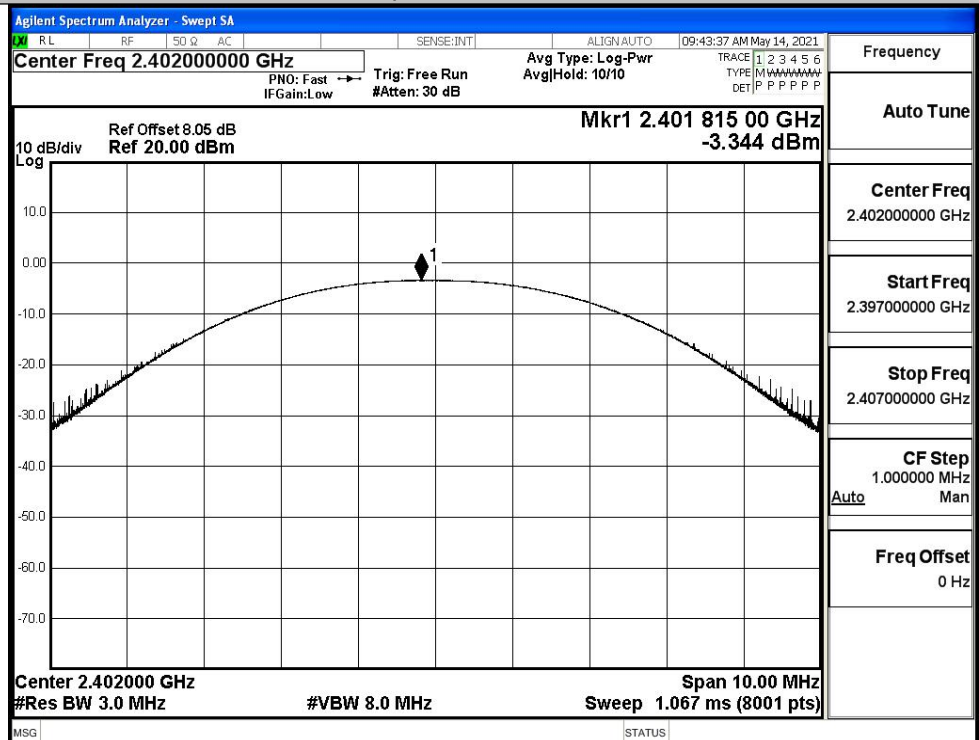
Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

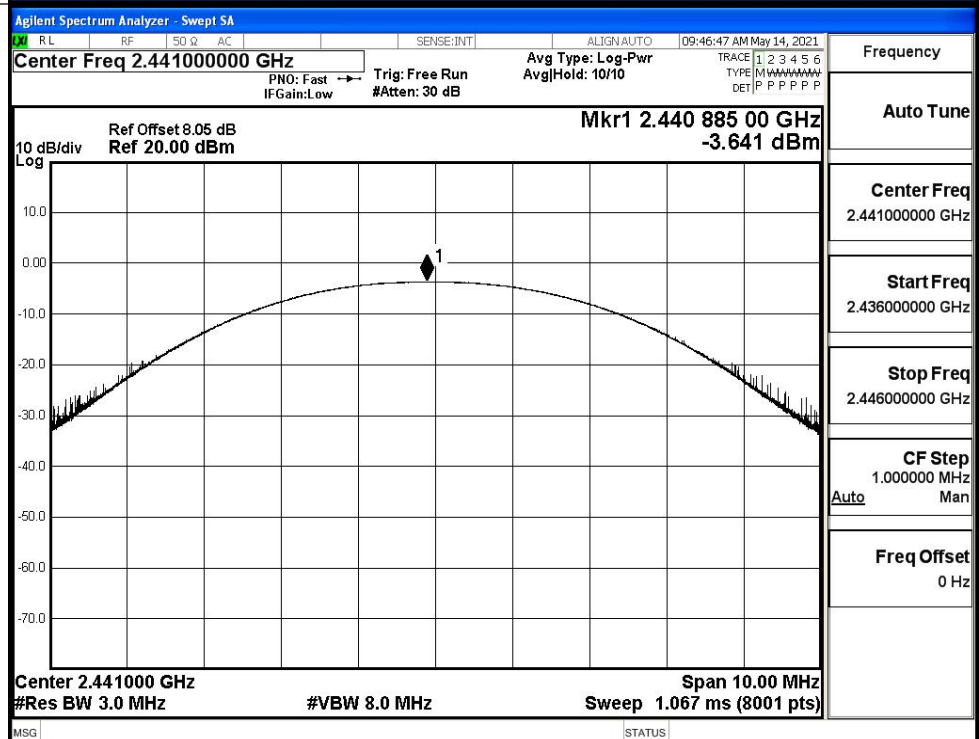
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-3.344	21	PASS
	MCH	-3.641	21	PASS
	HCH	-4.136	21	PASS
$\pi/4$ DQPSK	LCH	-2.162	21	PASS
	MCH	-2.472	21	PASS
	HCH	-3.083	21	PASS
8DPSK	LCH	-1.825	21	PASS
	MCH	-2.155	21	PASS
	HCH	-2.791	21	PASS

Test Graphs

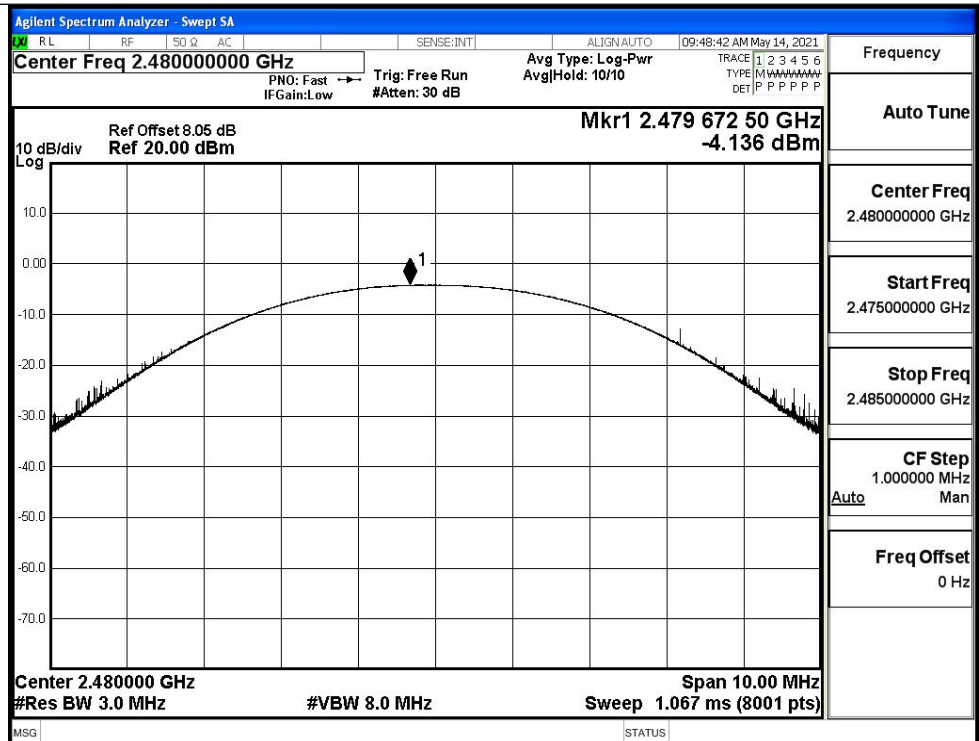
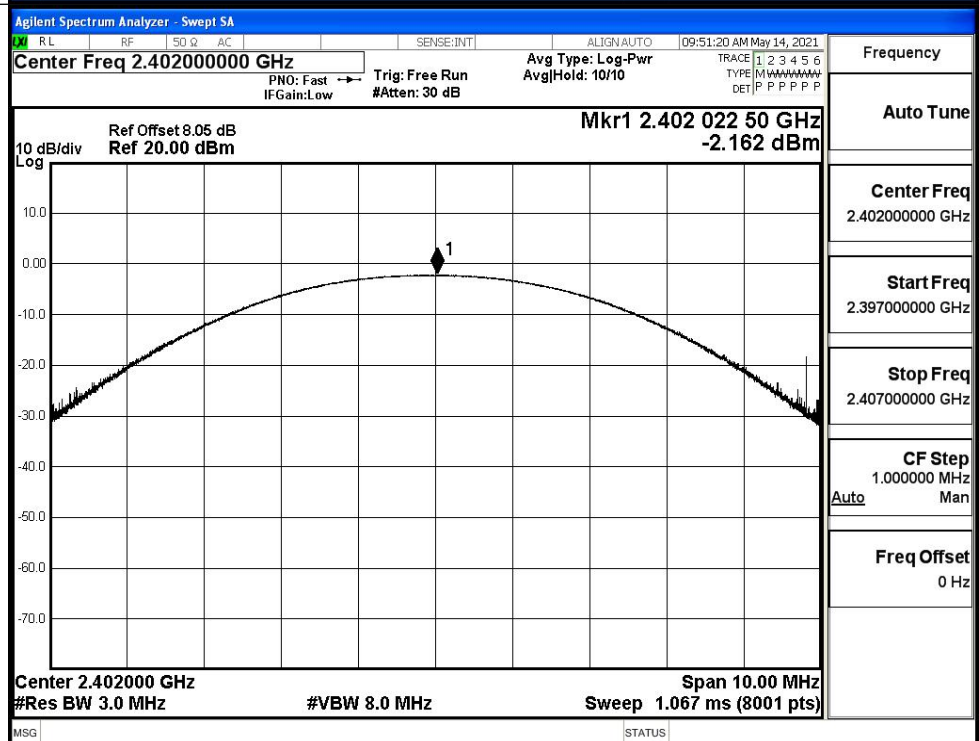
GFSK/LCH

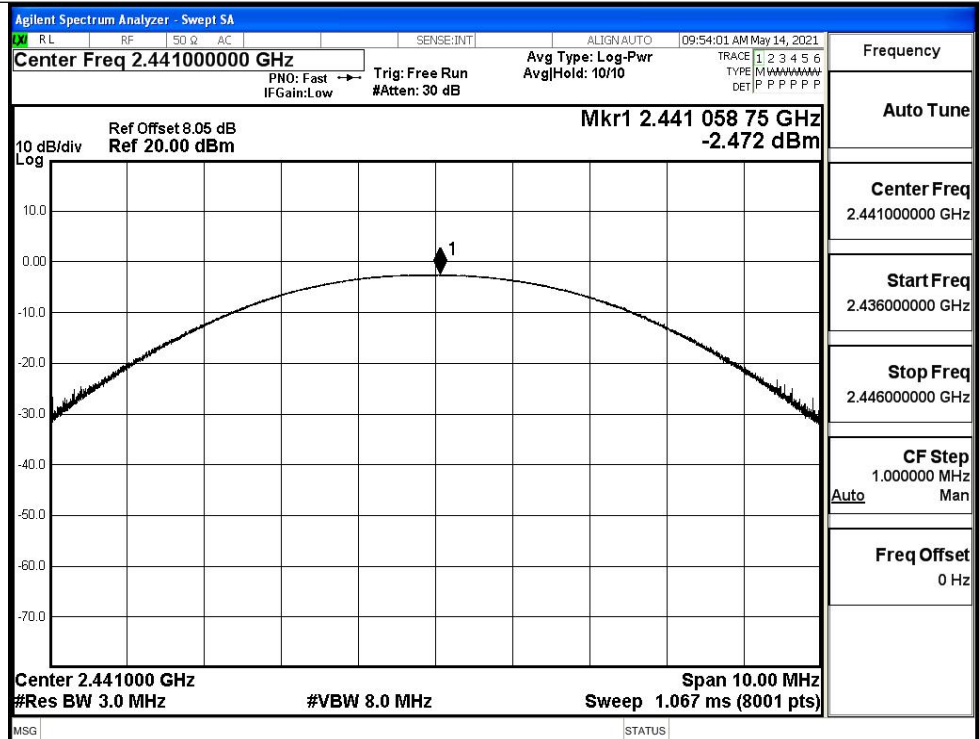
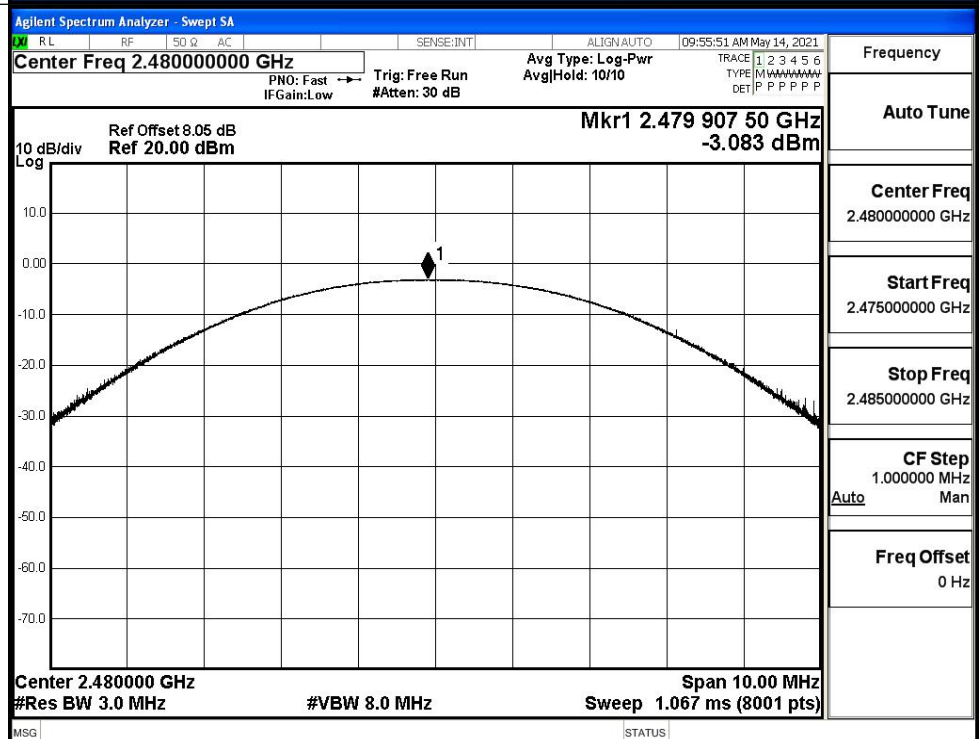


GFSK/MCH

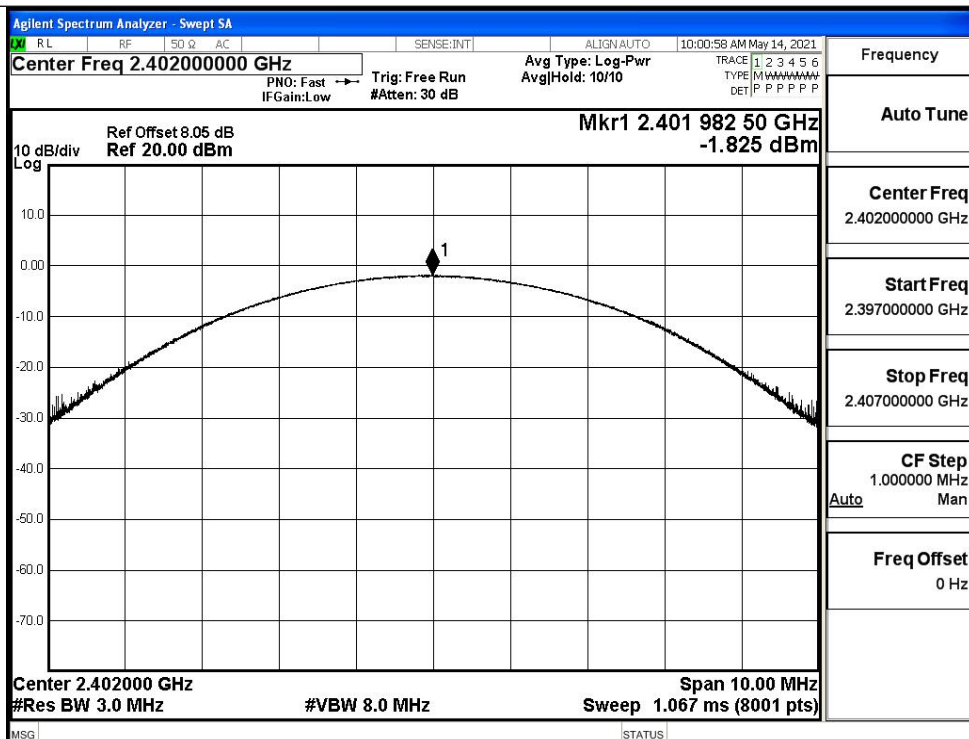


GFSK/HCH

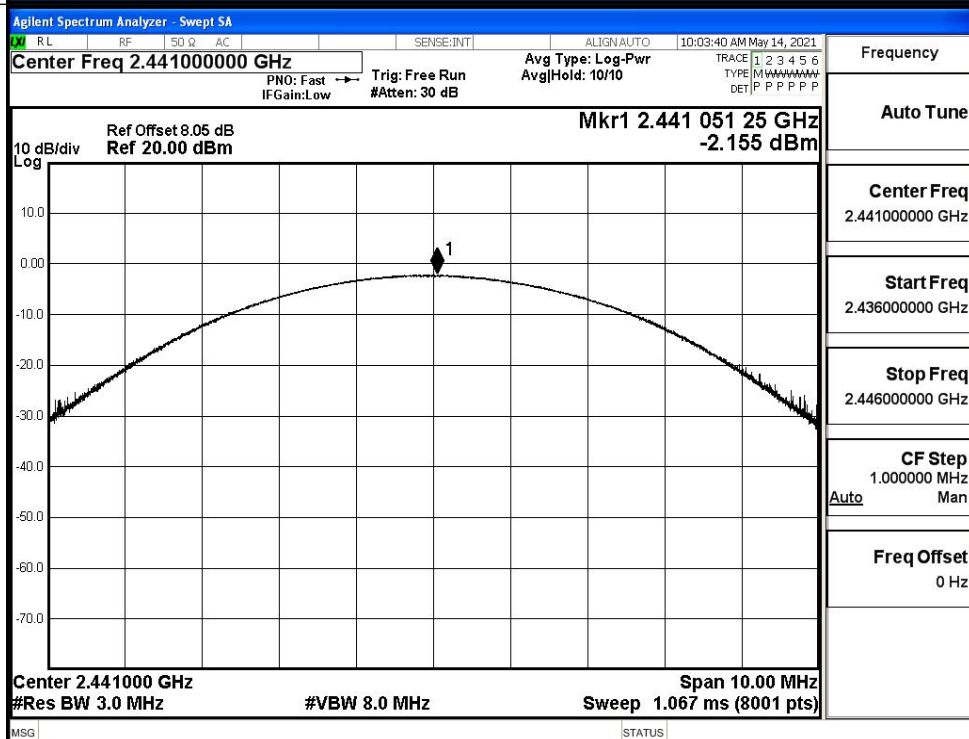
 π /4DQPSK/LCH

π /4DQPSK/MCH π /4DQPSK/HCH

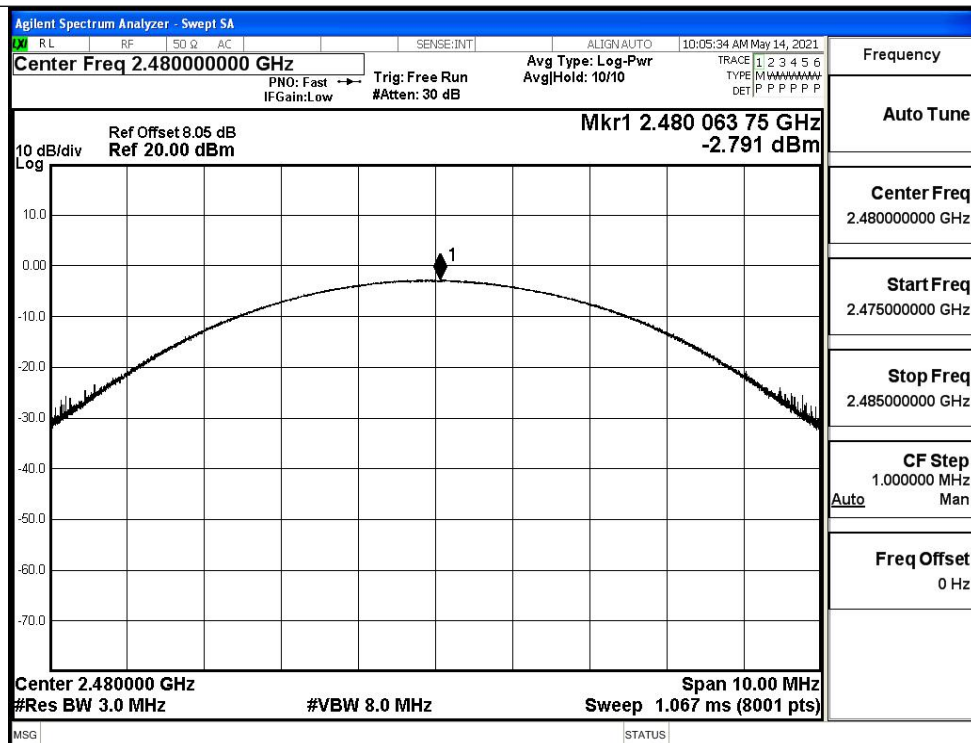
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

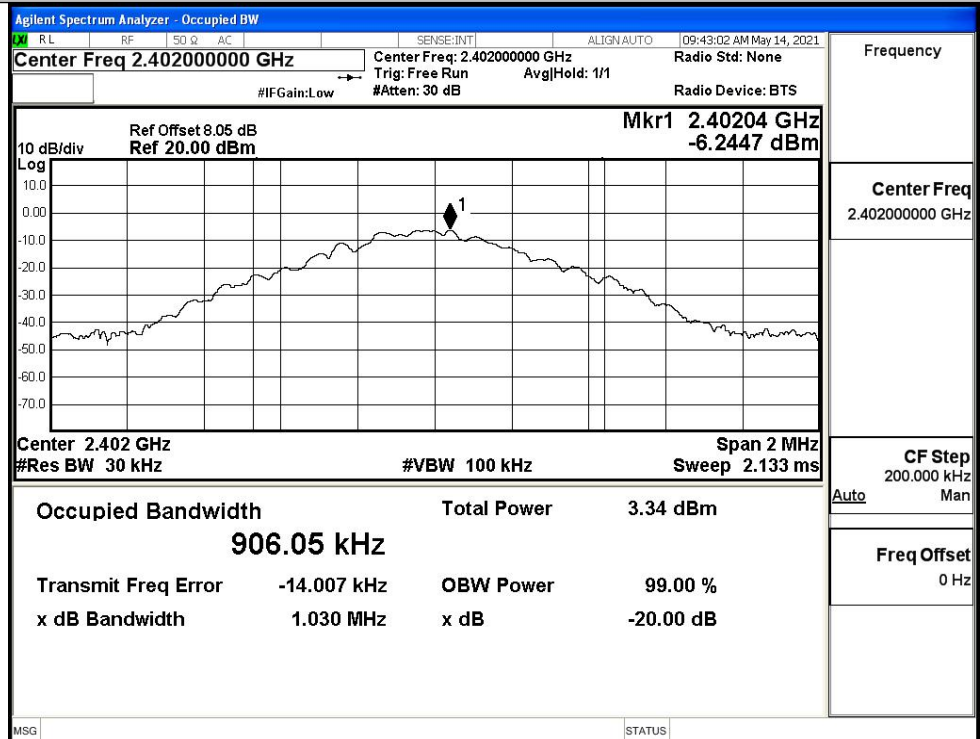


A.2 20dB Bandwidth

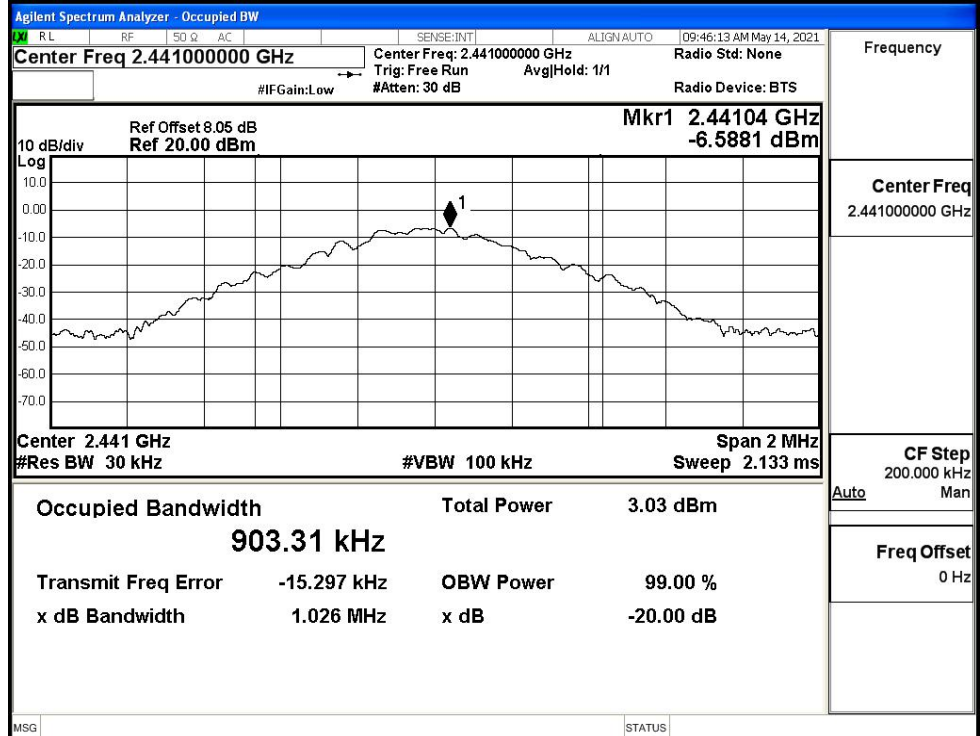
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.030	Not Specified	PASS
	MCH	1.026	Not Specified	PASS
	HCH	1.017	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.395	Not Specified	PASS
	MCH	1.393	Not Specified	PASS
	HCH	1.398	Not Specified	PASS
8DPSK	LCH	1.375	Not Specified	PASS
	MCH	1.380	Not Specified	PASS
	HCH	1.381	Not Specified	PASS

Test Graphs

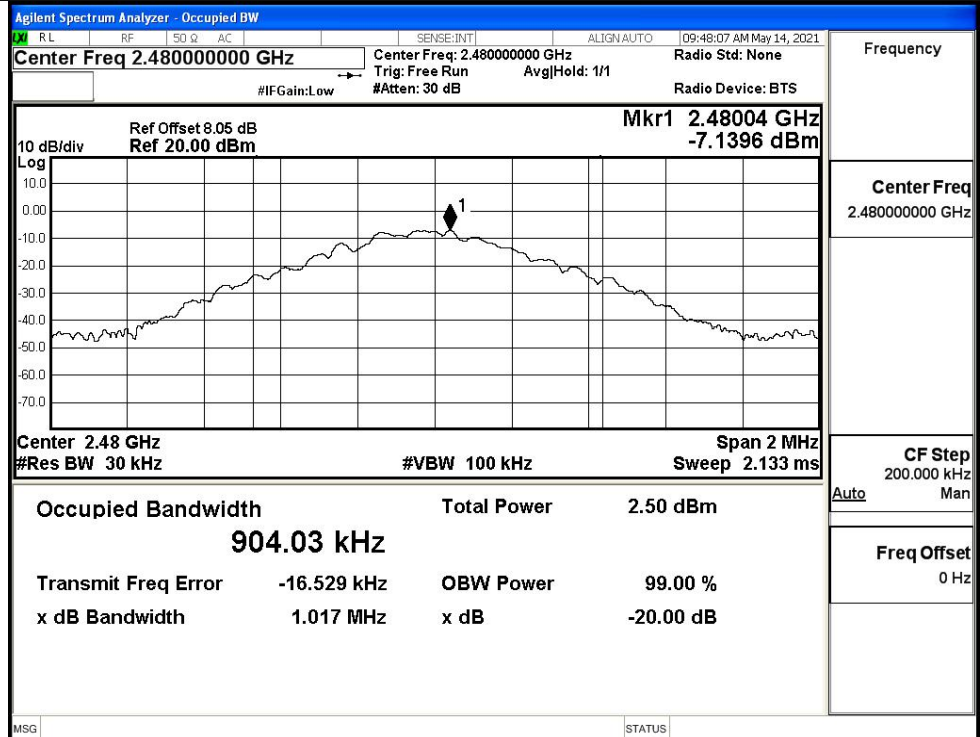
GFSK/LCH

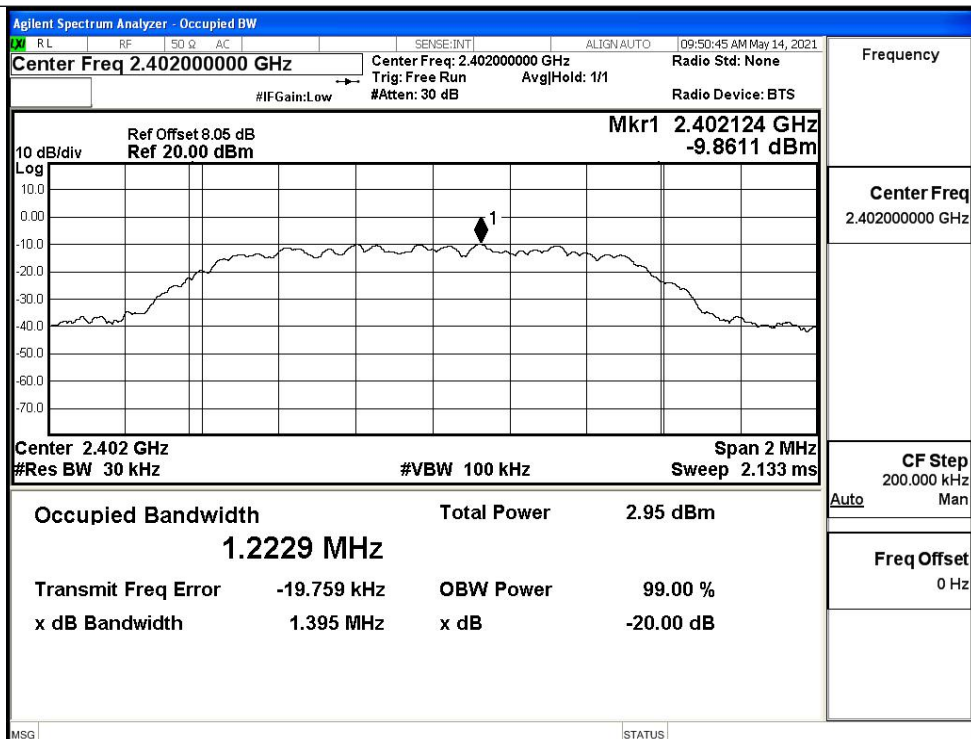
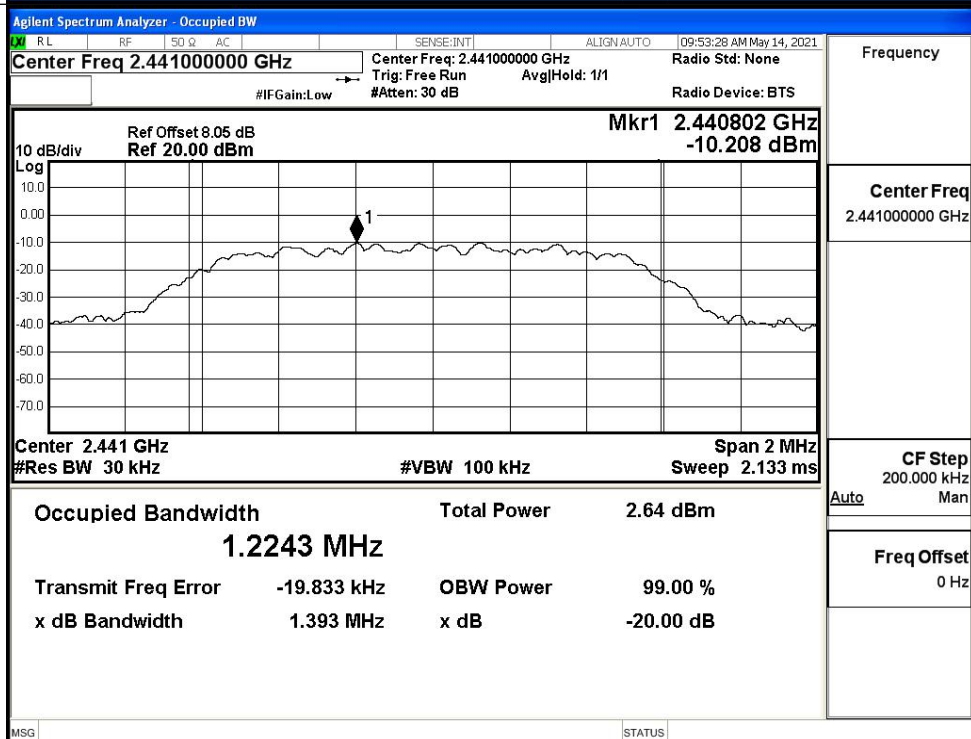


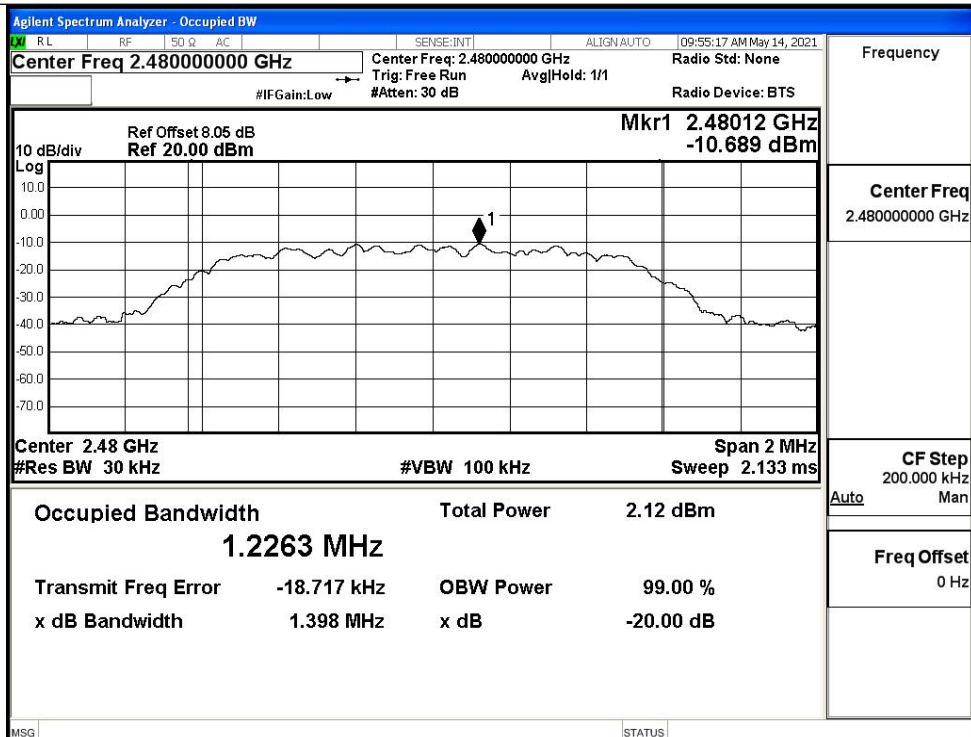
GFSK/MCH



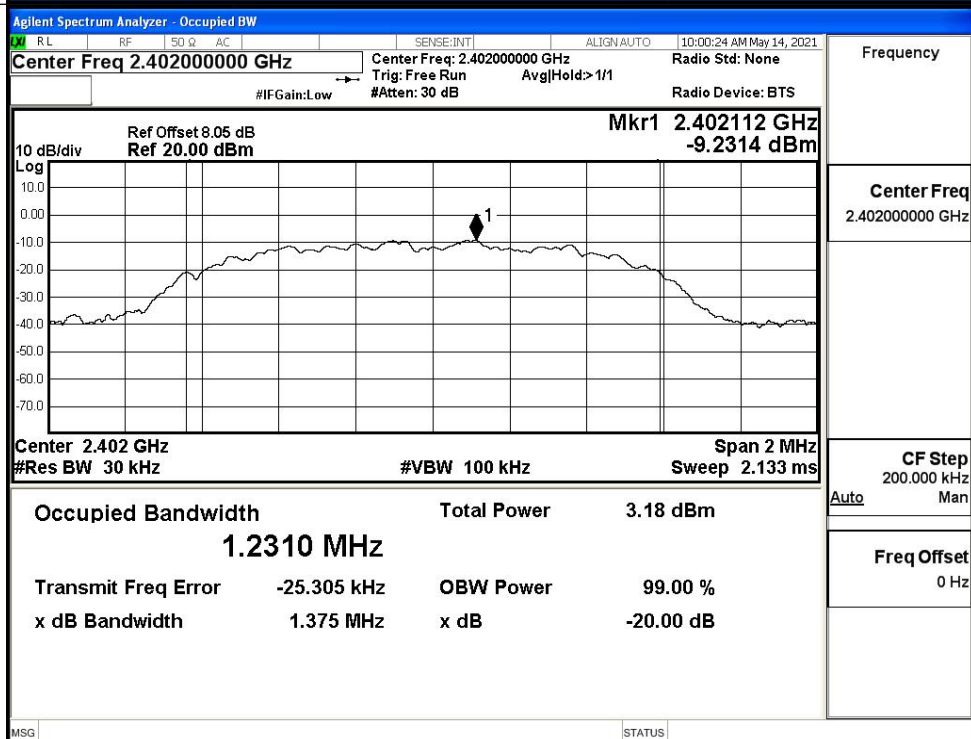
GFSK/HCH



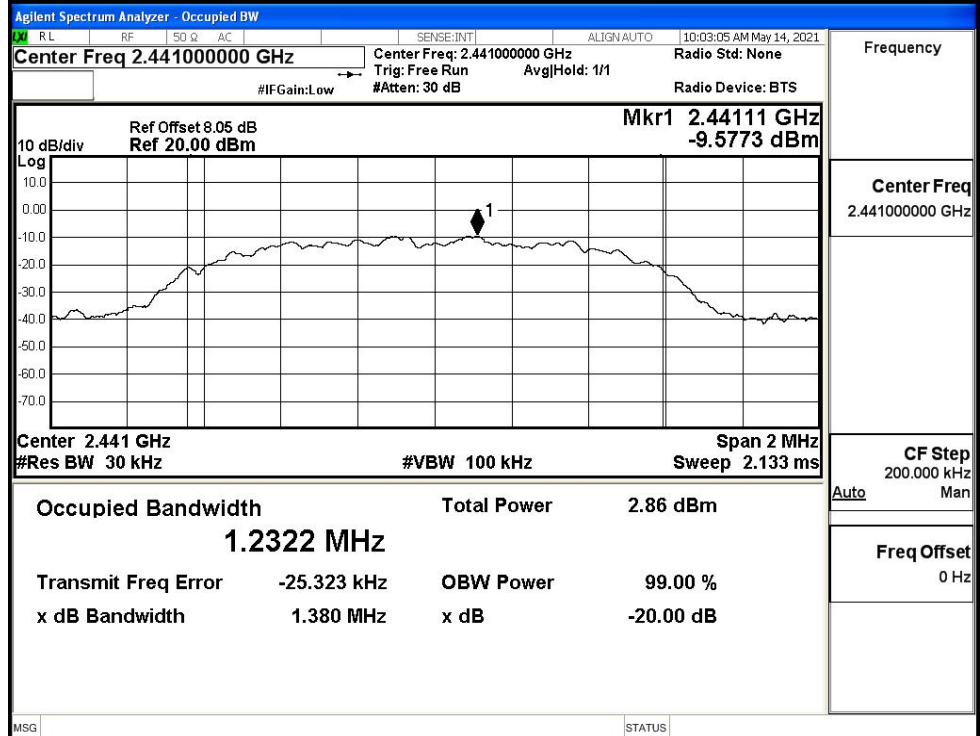
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

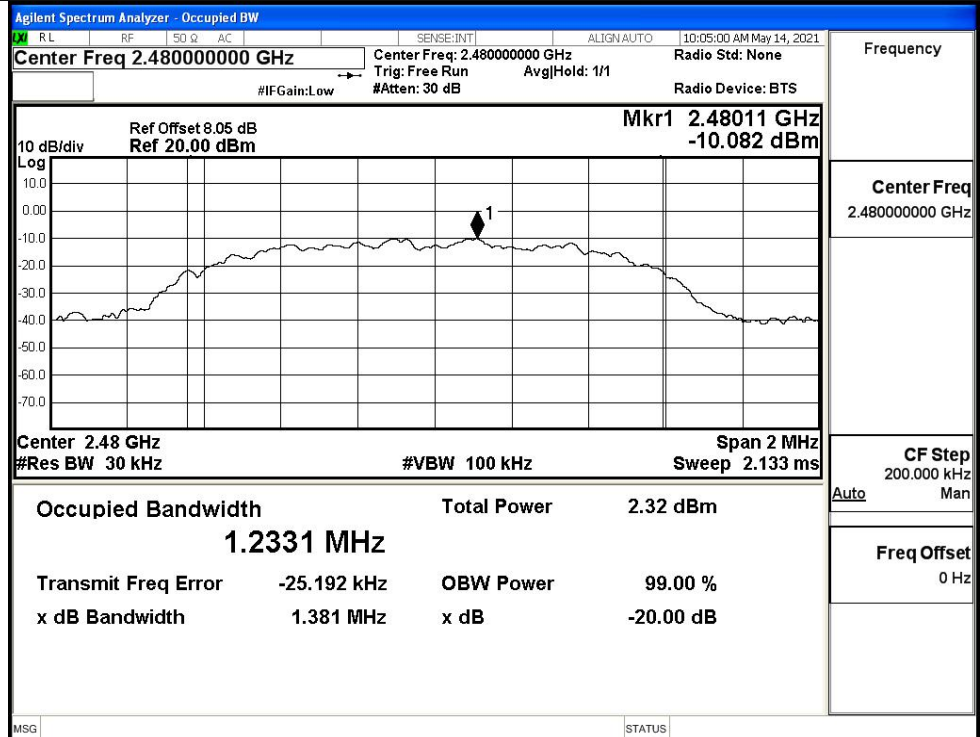
8DPSK/LCH



8DPSK/MCH



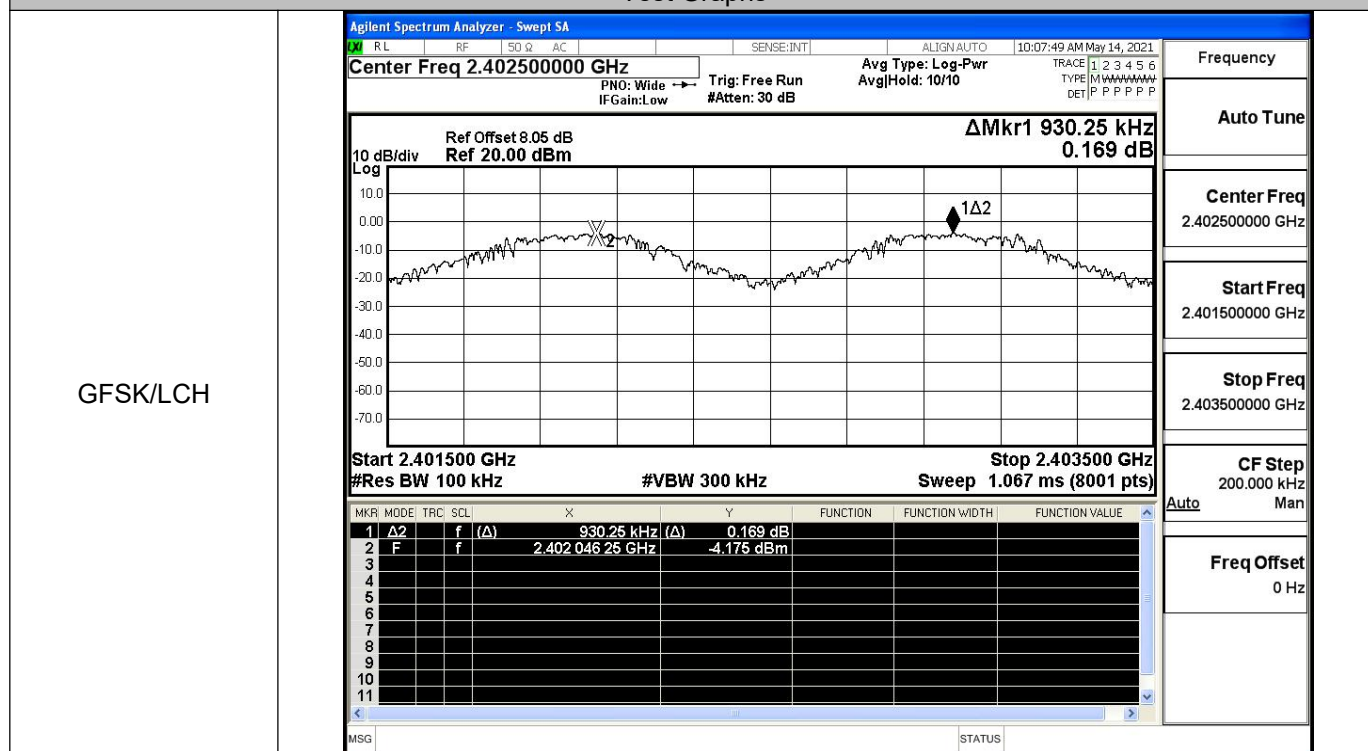
8DPSK/HCH



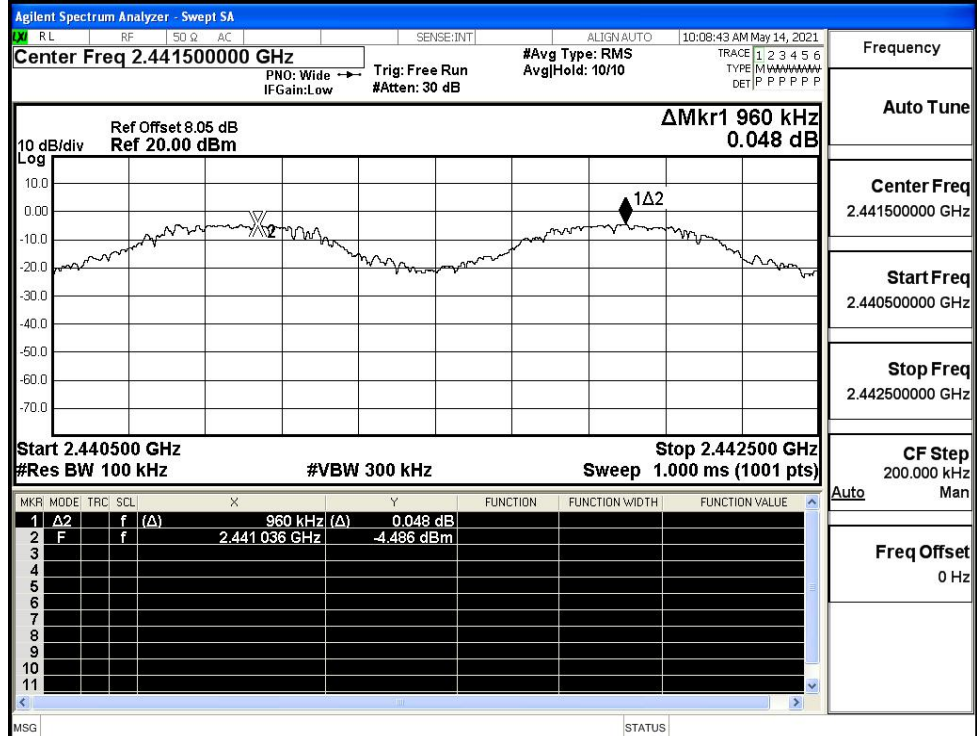
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.930	0.687	PASS
	MCH	0.960	0.687	PASS
	HCH	1.118	0.687	PASS
$\pi/4$ DQPSK	LCH	0.994	0.932	PASS
	MCH	0.998	0.932	PASS
	HCH	1.034	0.932	PASS
8DPSK	LCH	1.012	0.921	PASS
	MCH	1.010	0.921	PASS
	HCH	1.018	0.921	PASS

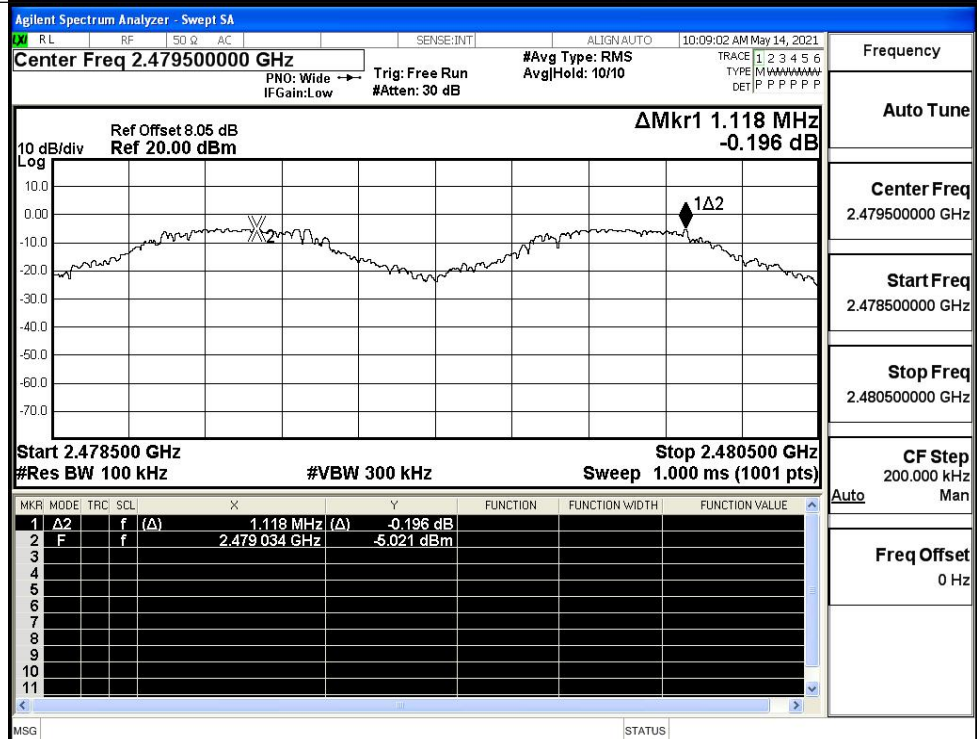
Test Graphs

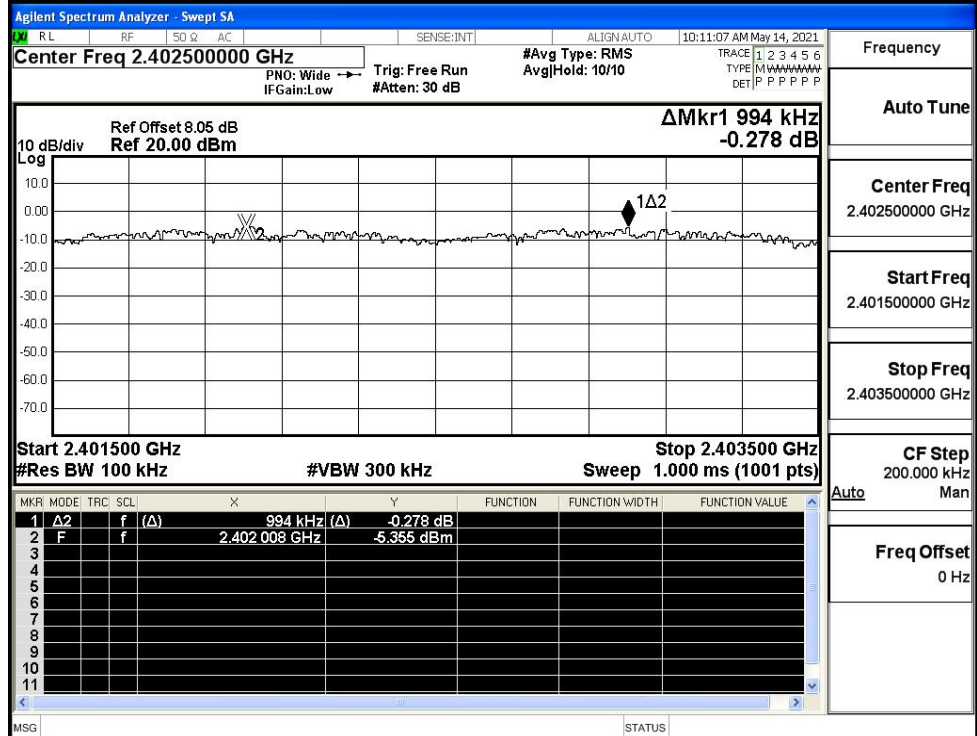
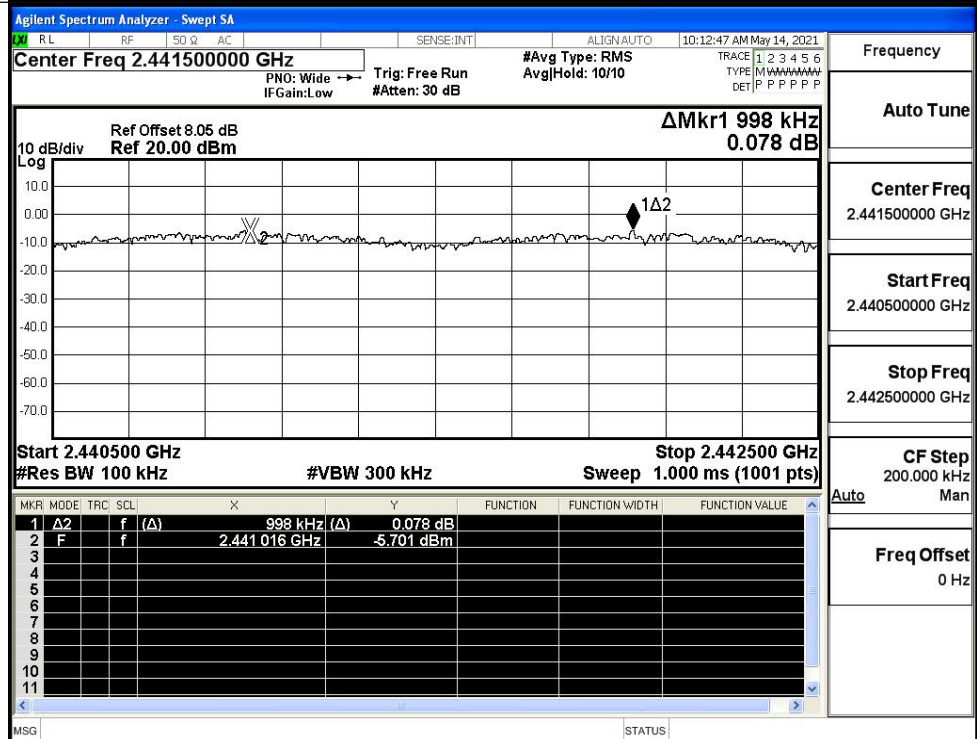


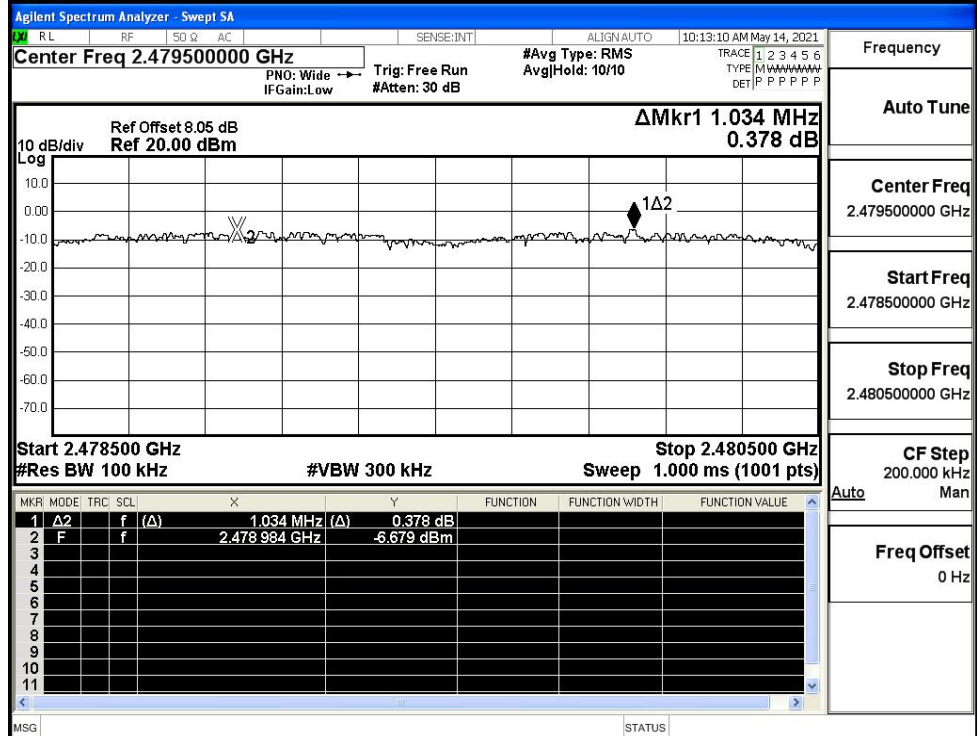
GFSK/MCH



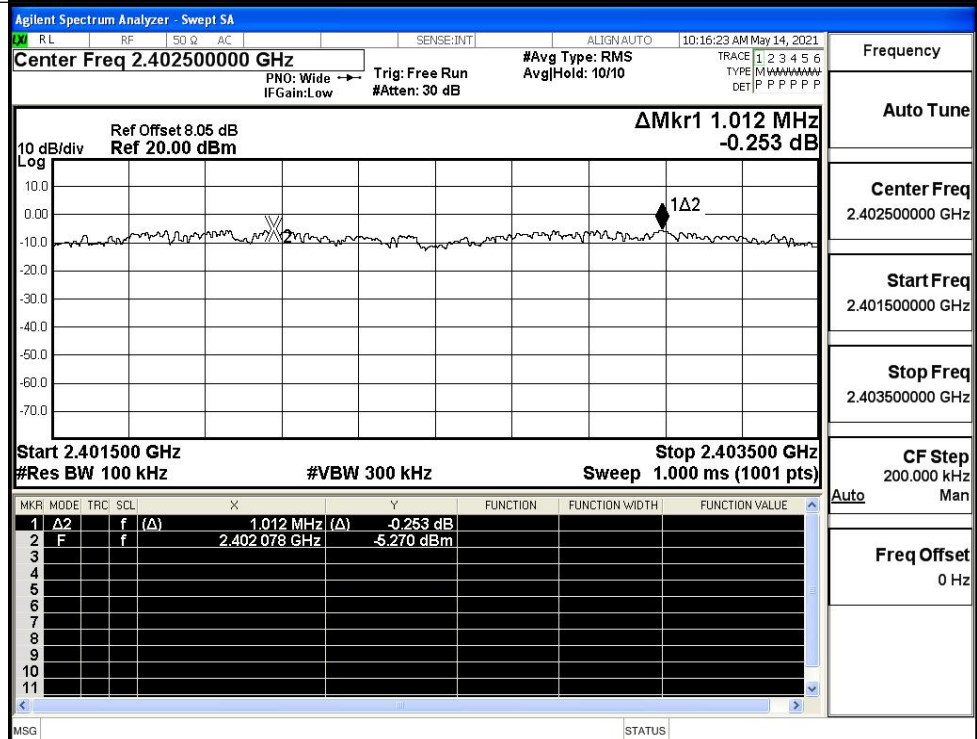
GFSK/HCH



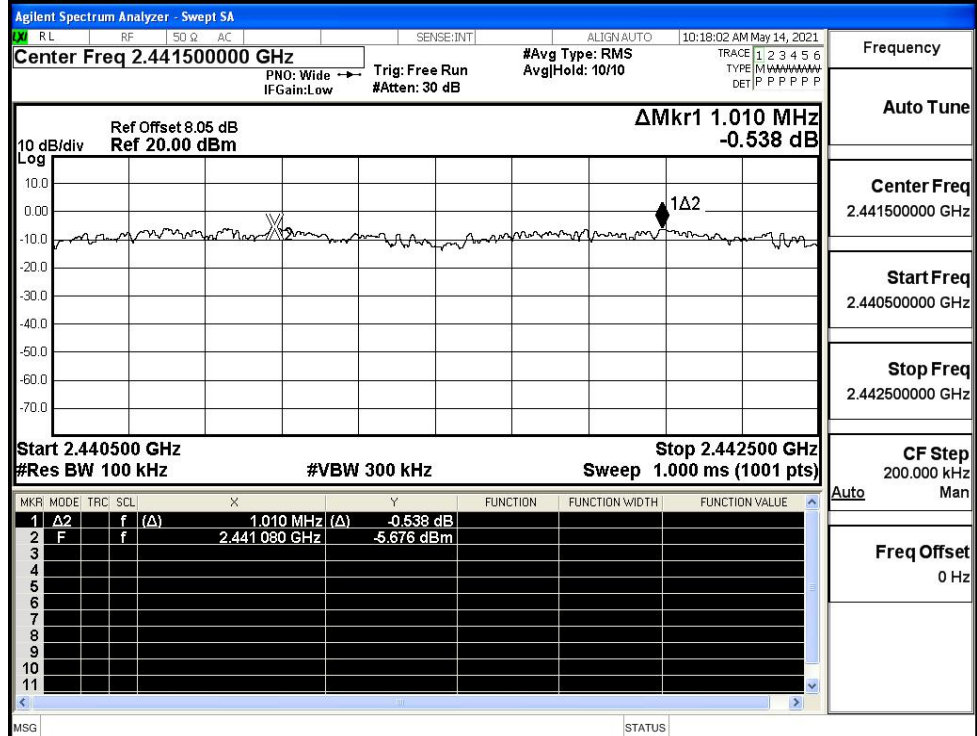
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

π /4DQPSK/HCH

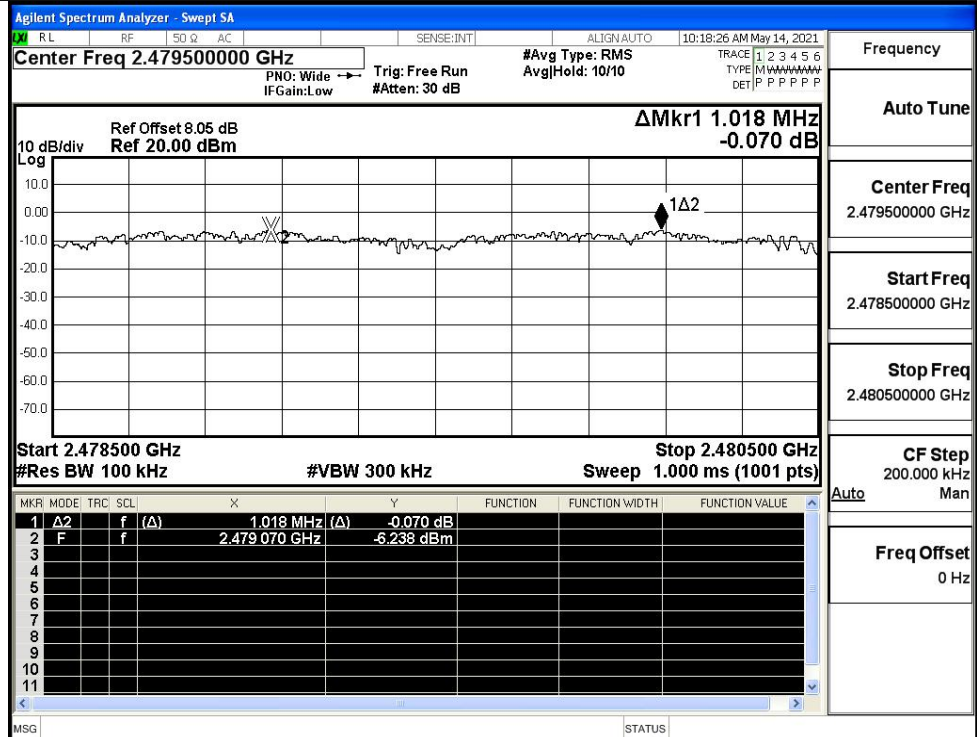
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

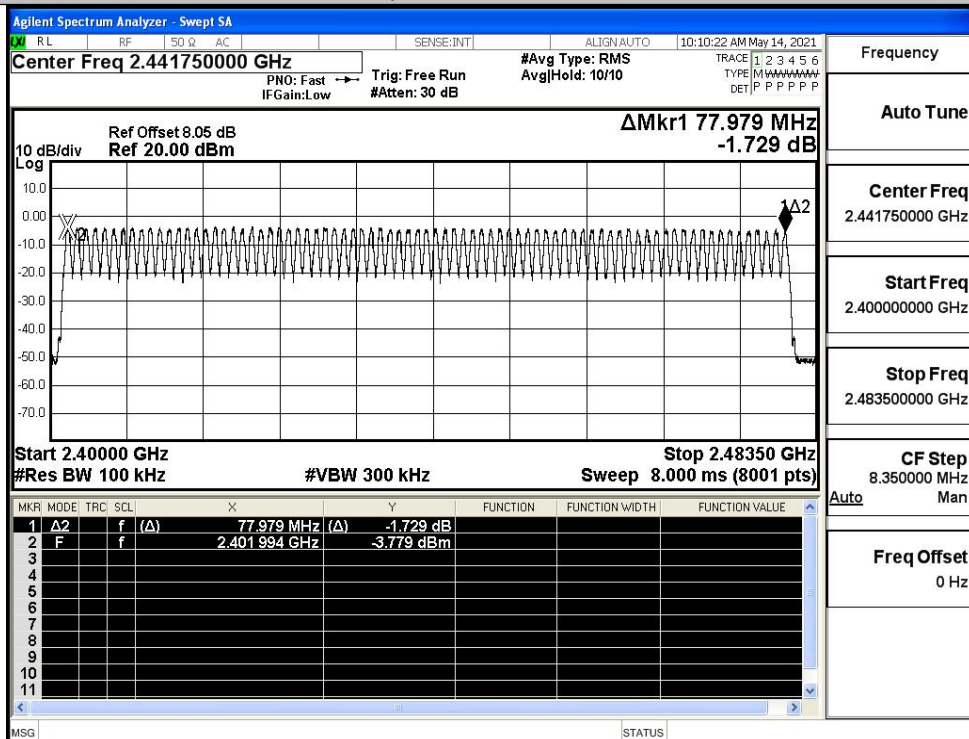
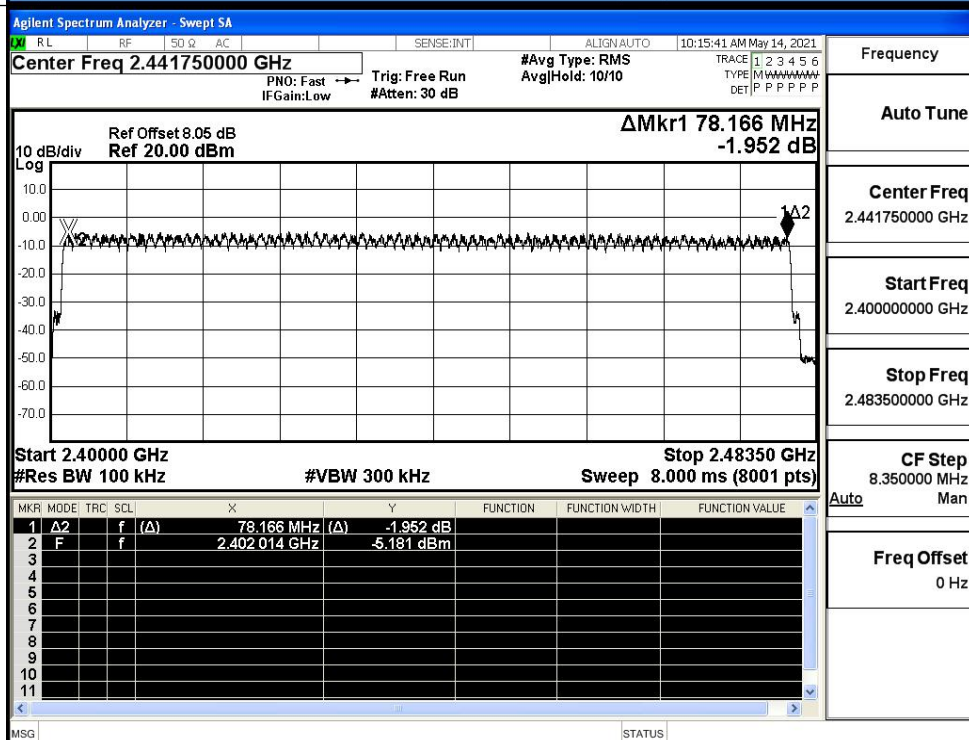


A.4 Hopping Channel Number

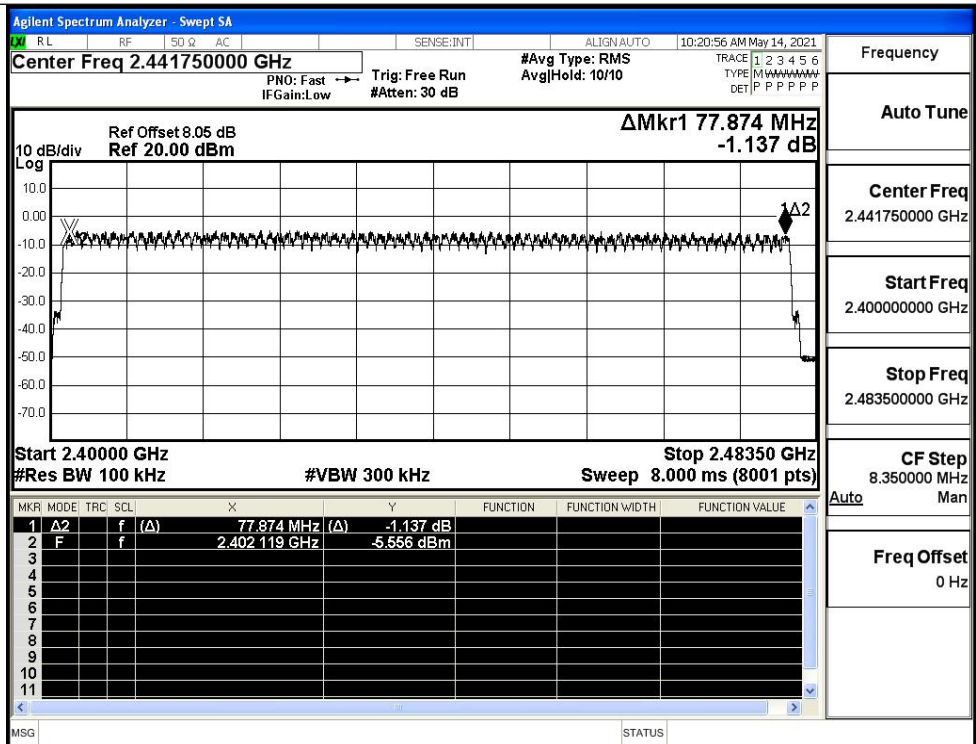
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

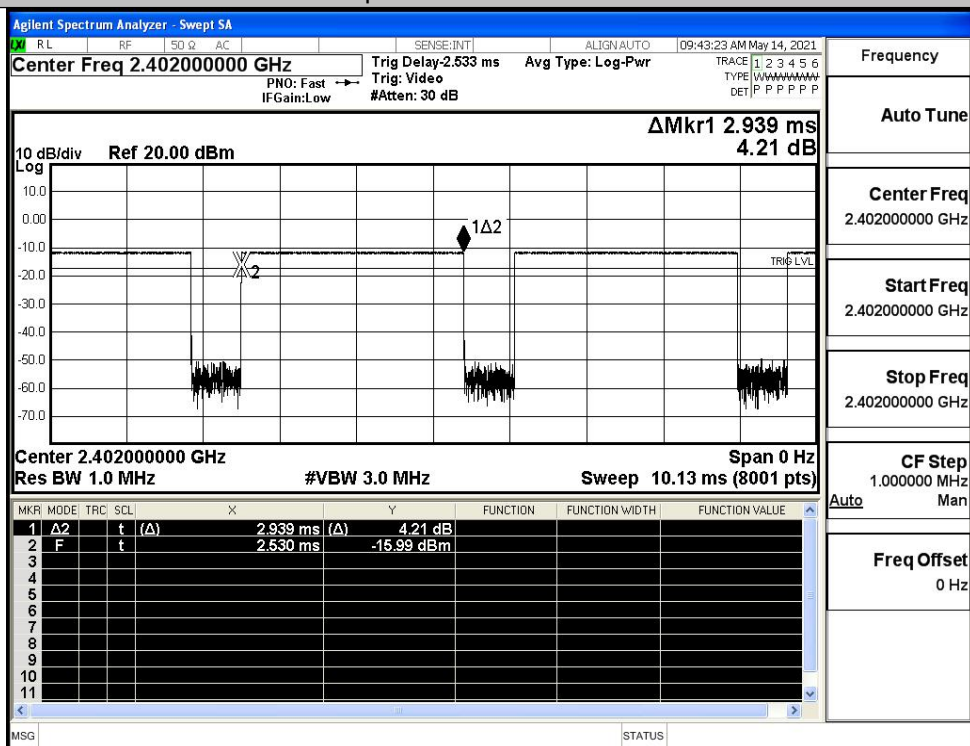


A.5 Dwell Time

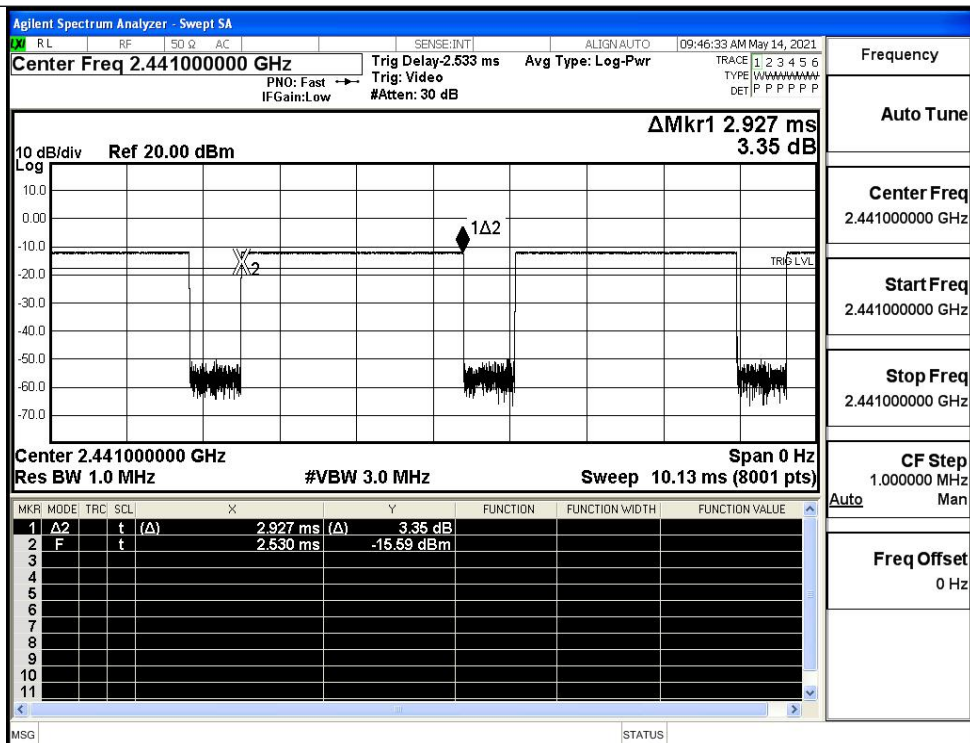
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.94	106.7	0.314	0.4	PASS
	DH5	MCH	2.93	106.7	0.313	0.4	PASS
	DH5	HCH	2.93	106.7	0.313	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.94	106.7	0.312	0.4	PASS
	2DH5	MCH	2.93	106.7	0.312	0.4	PASS
	2DH5	HCH	2.93	106.7	0.313	0.4	PASS
8DPSK	3DH5	LCH	2.94	106.7	0.312	0.4	PASS
	3DH5	MCH	2.93	106.7	0.314	0.4	PASS
	3DH5	HCH	2.93	106.7	0.313	0.4	PASS

Test Graphs

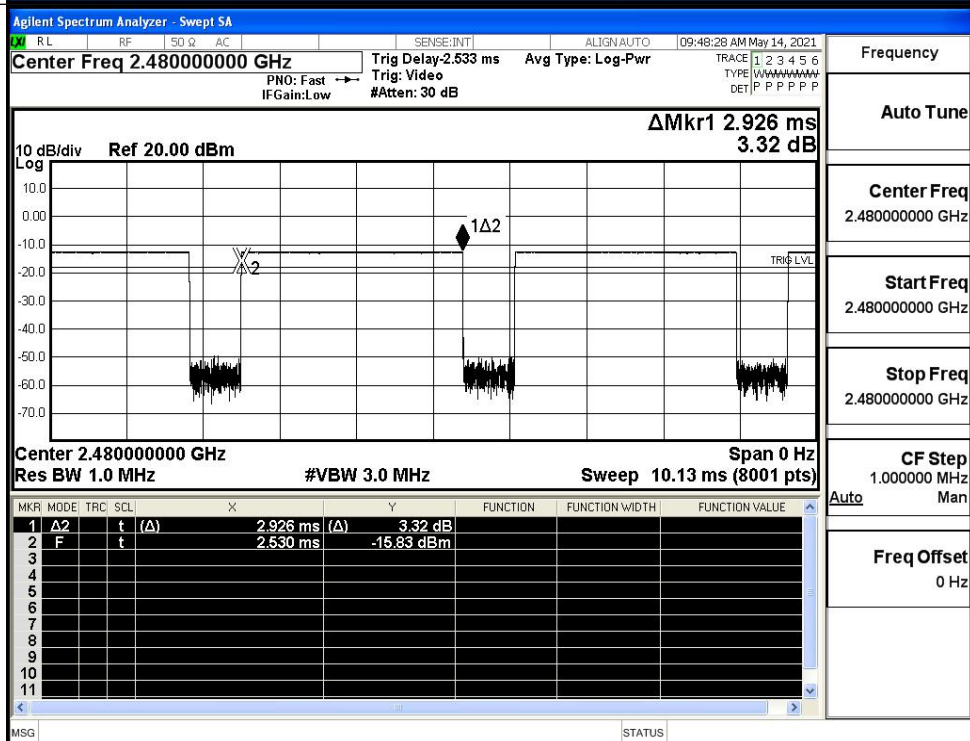
GFSK_DH5/LCH

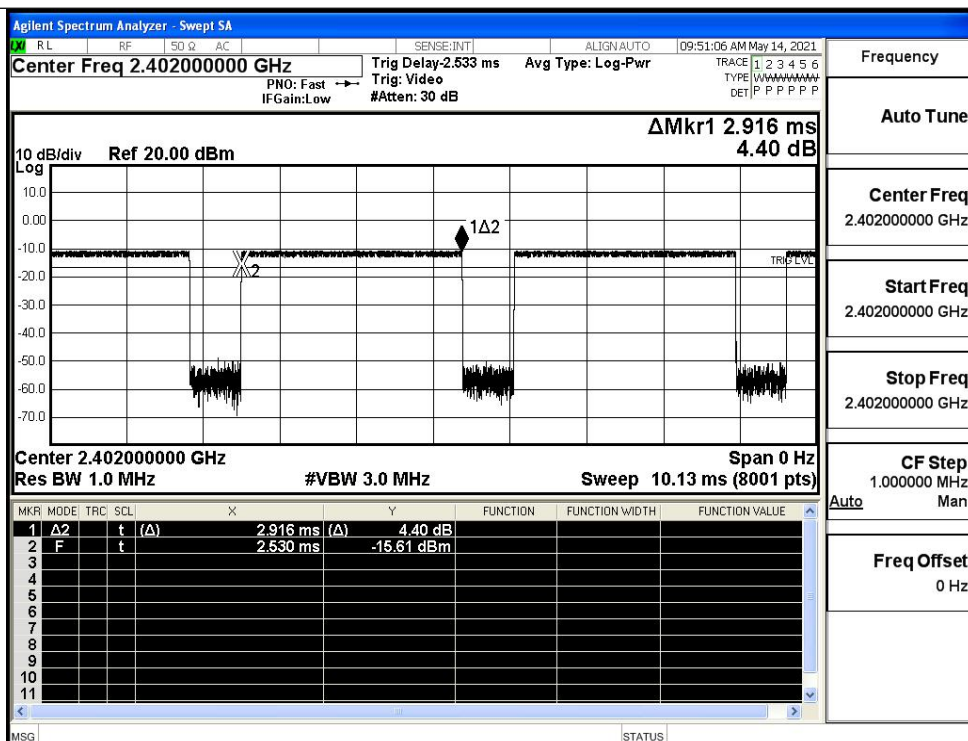


GFSK_DH5/MCH



GFSK_DH5/HCH



$\pi/4$ DQPSK
_2DH5/LCH $\pi/4$ DQPSK
_2DH5/MCH