Appendix A

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

Product Name: Facial Recognition Thermal Measurement Terminal

Trade Mark: 智小通

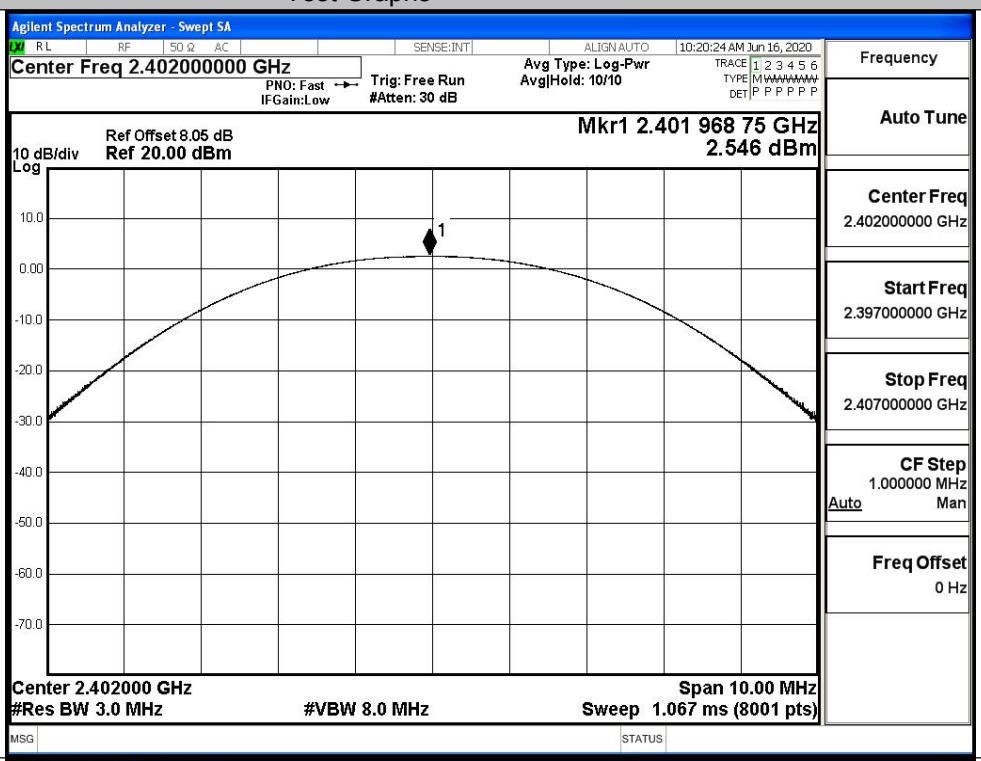
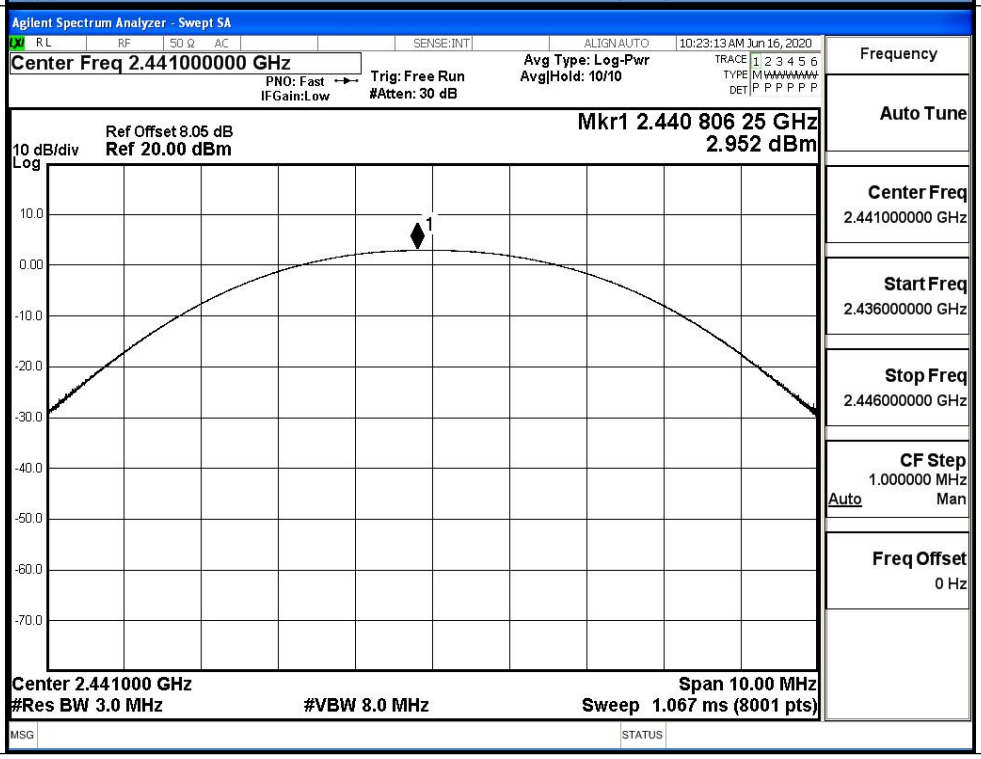
Test Model: FX6

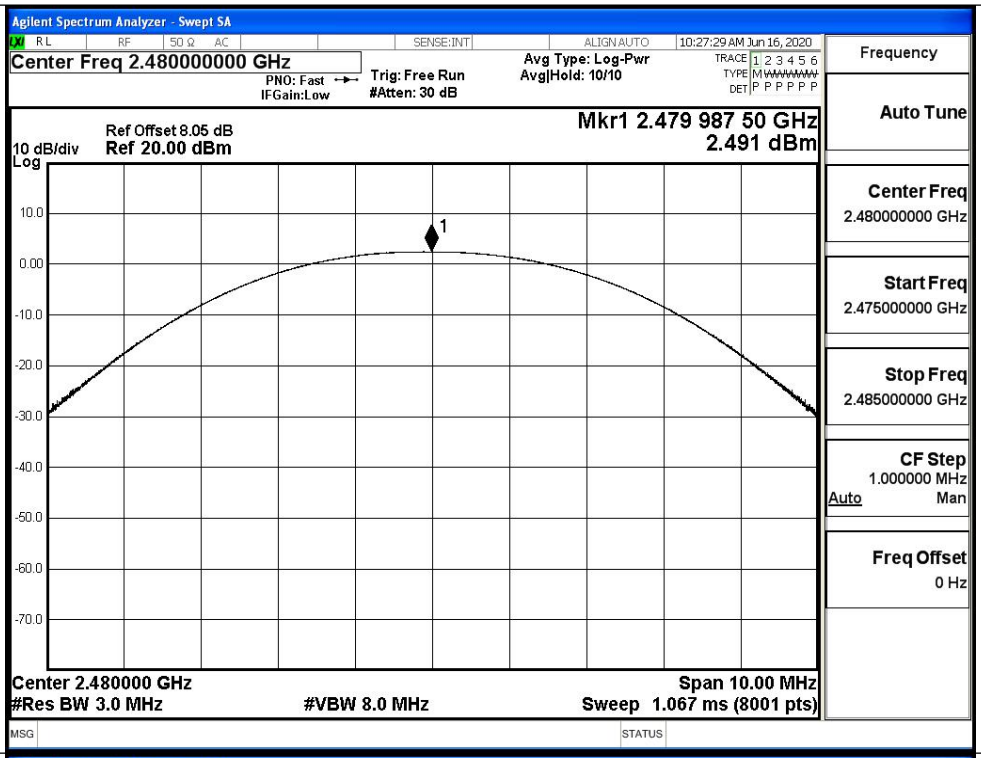
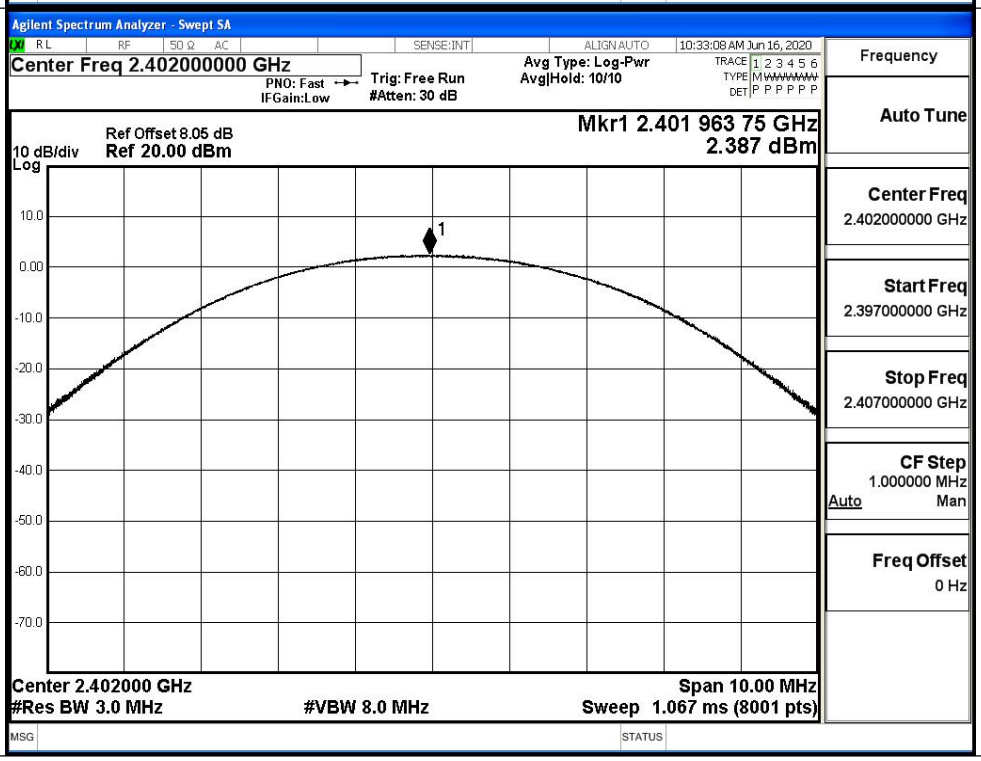
Environmental Conditions

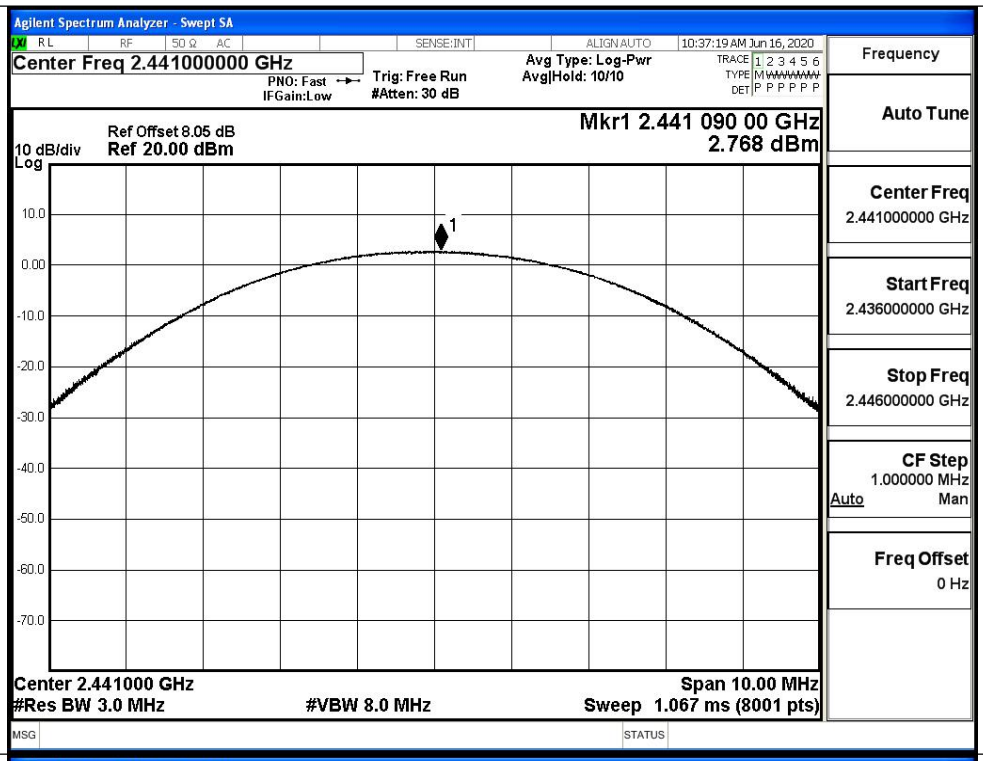
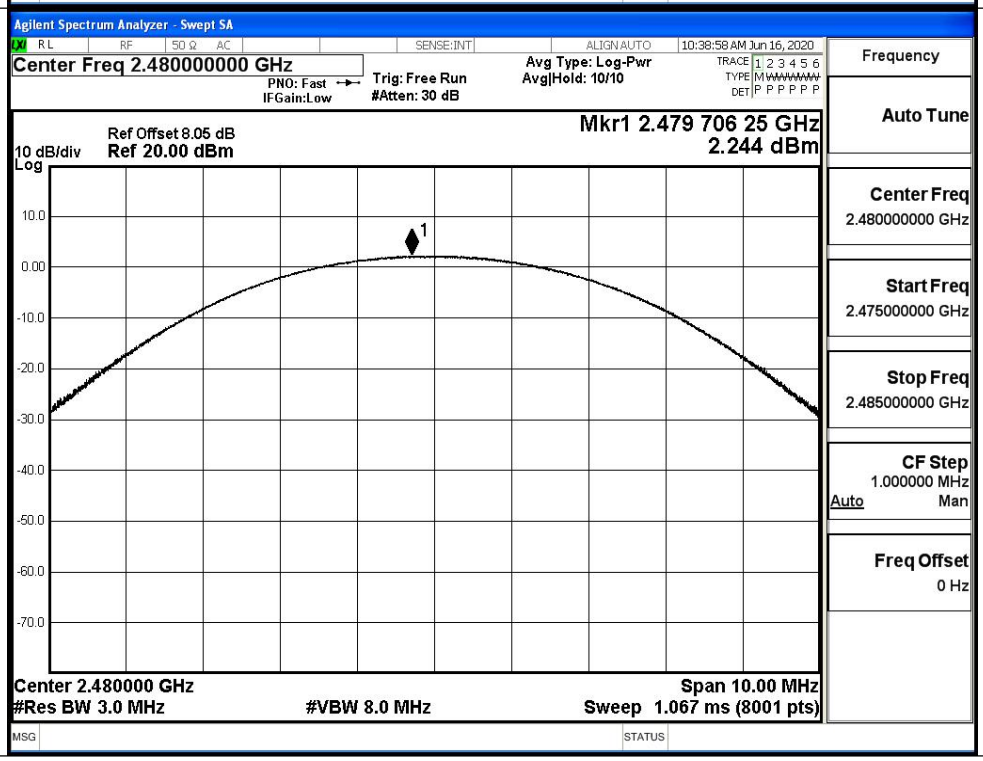
Temperature:	23.1 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

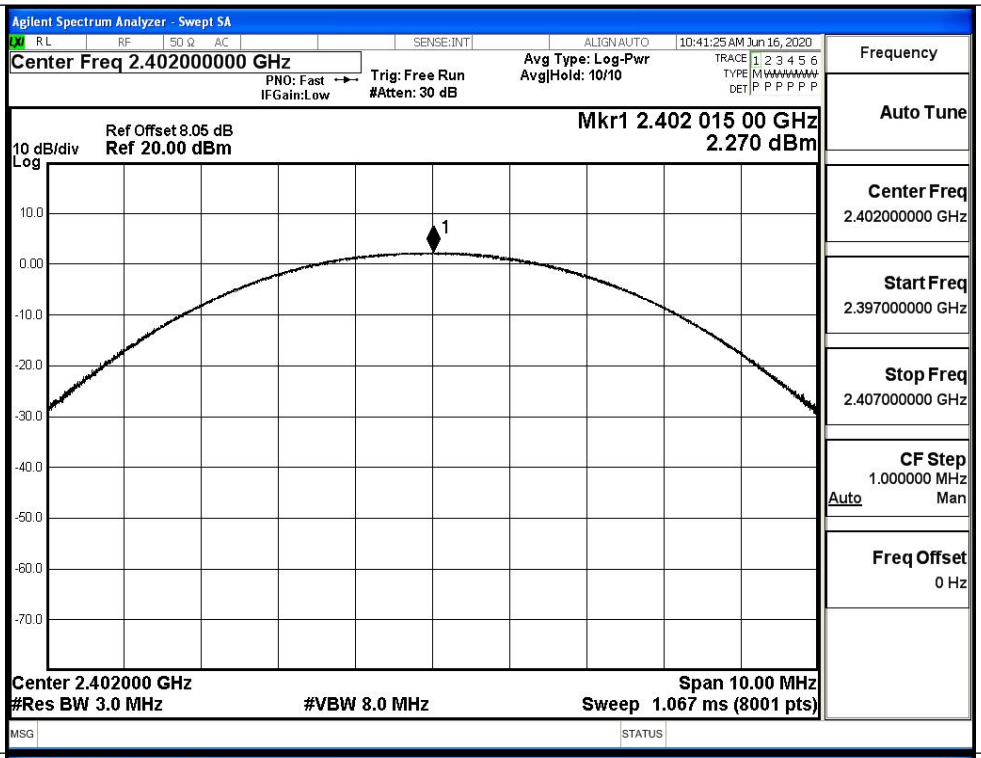
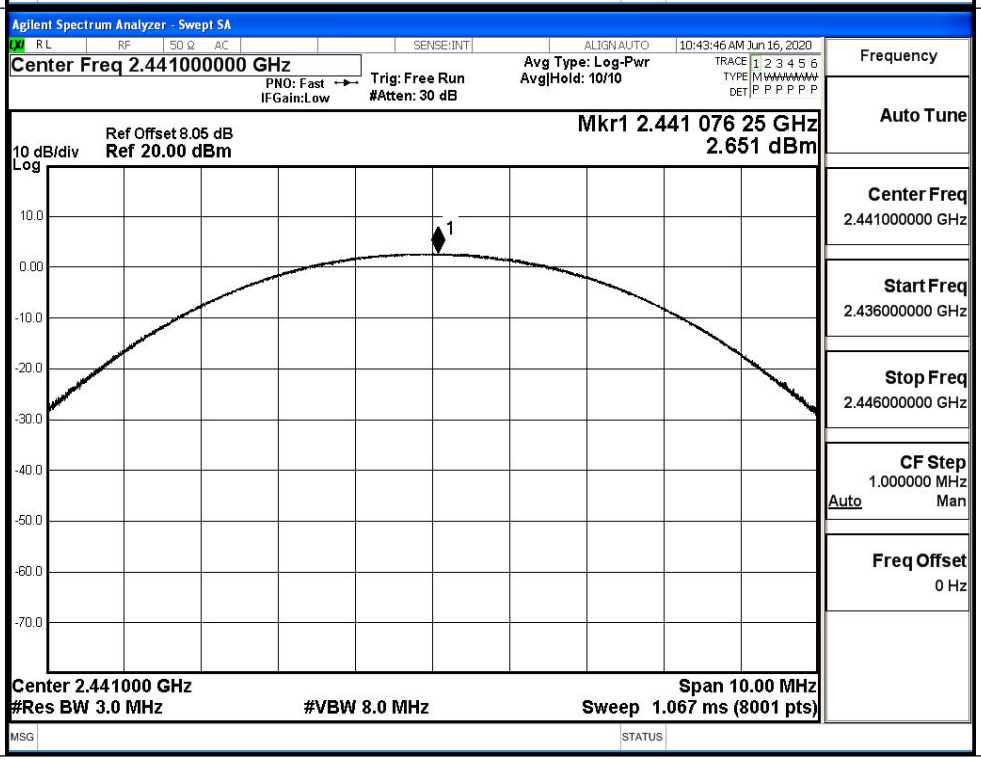
A.1 Maxmum Conducted Peak Output Power

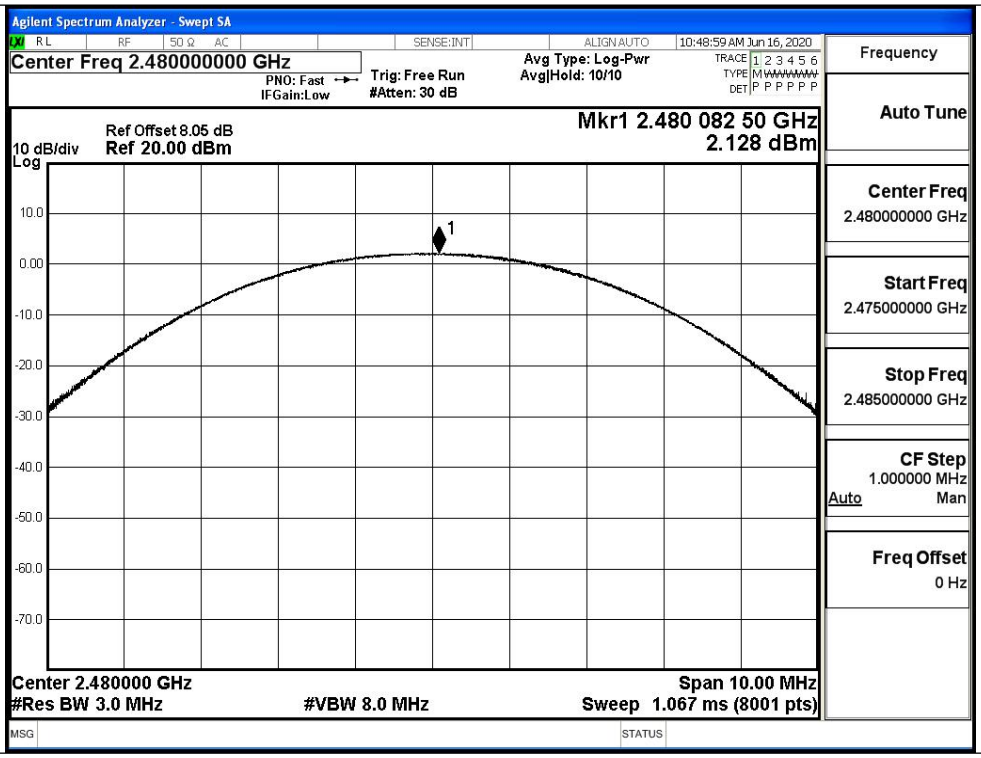
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.546	21	PASS
	MCH	**2.952**	21	PASS
	HCH	2.491	21	PASS
π/4DQPSK	LCH	2.387	21	PASS
	MCH	2.768	21	PASS
	HCH	2.244	21	PASS
8DPSK	LCH	2.270	21	PASS
	MCH	2.651	21	PASS
	HCH	2.128	21	PASS

Test Graphs		
GFSK/LCH		
GFSK/MCH		

GFSK/HCH		
π/4DQPSK/LCH		

π/4DQPSK/MCH	
π/4DQPSK/HCH	

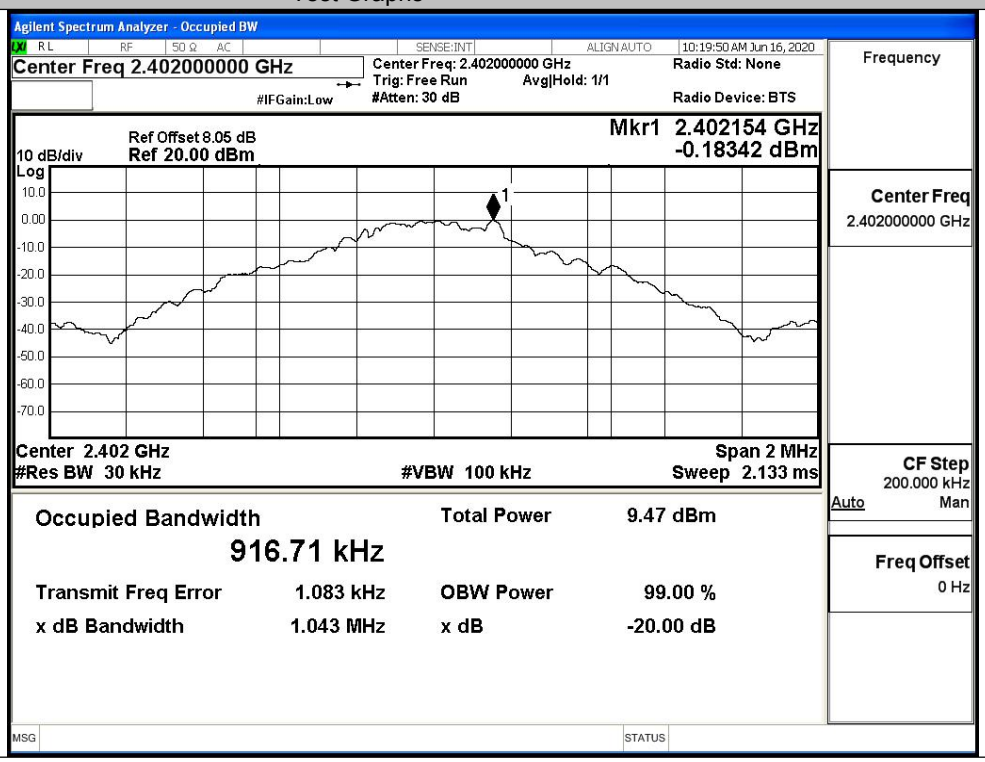
8DPSK/LCH		
8DPSK/MCH		

8DPSK/HCH		

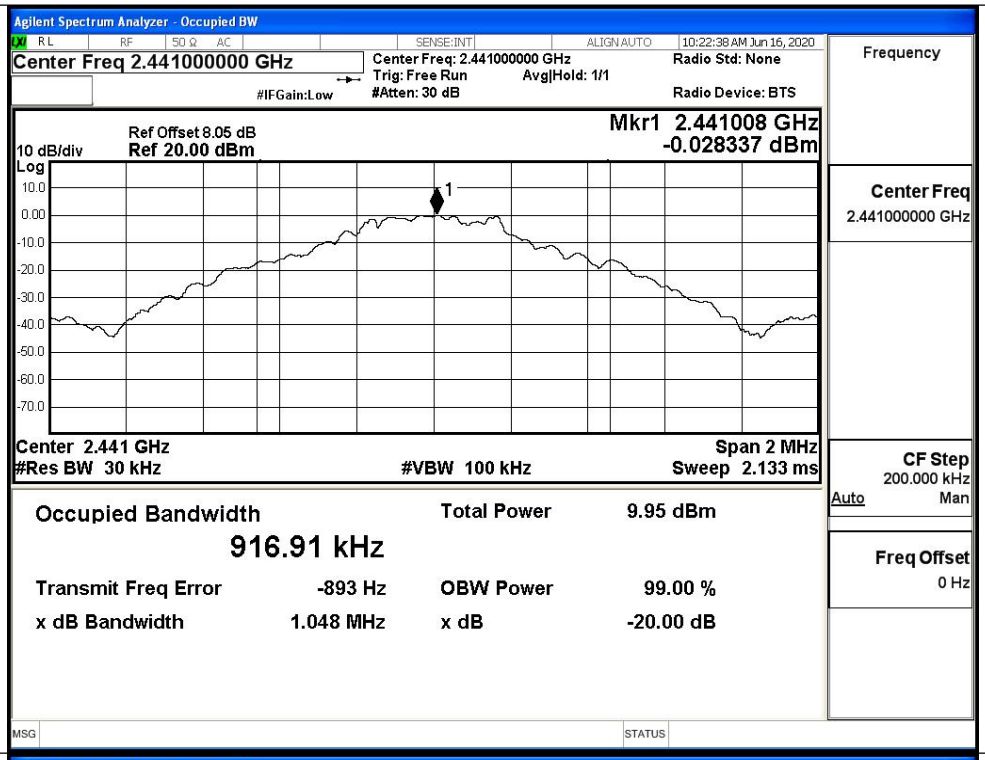
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
10:48:59 AM Jun 16, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 082 50 GHz
2.128 dBm
Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 10.00 MHz
Sweep 1.067 ms (8001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.485000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz

A.2 20dB Bandwidth

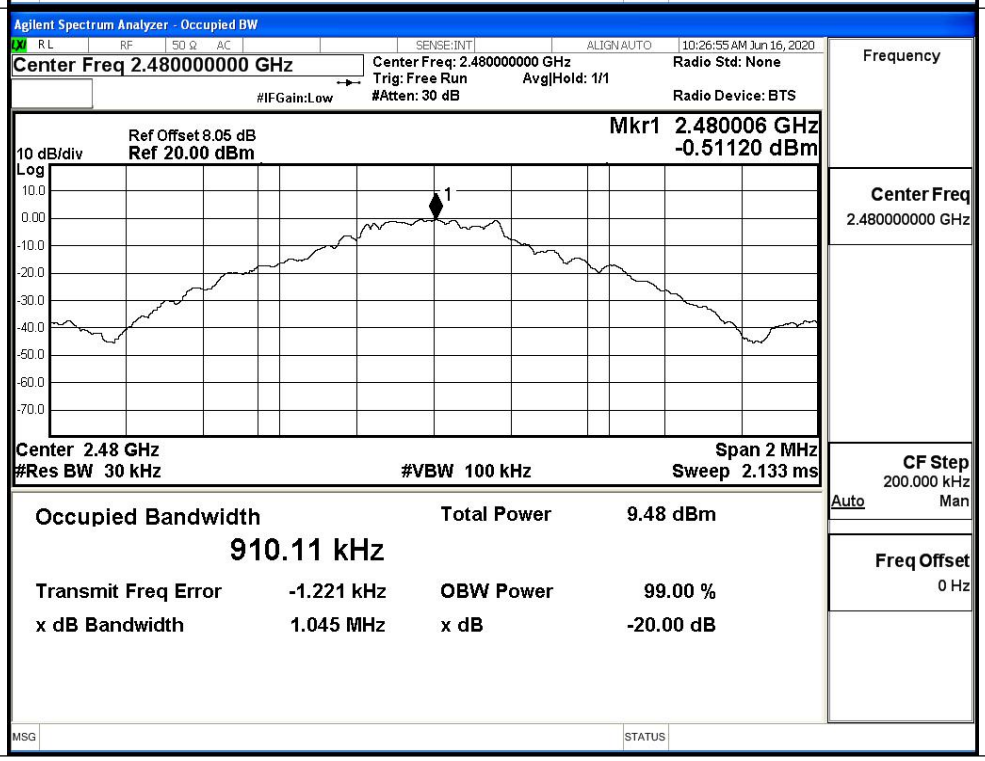
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.043	Not Specified	PASS
	MCH	1.048	Not Specified	PASS
	HCH	1.045	Not Specified	PASS
π/4DQPSK	LCH	1.291	Not Specified	PASS
	MCH	1.307	Not Specified	PASS
	HCH	1.290	Not Specified	PASS
8DPSK	LCH	1.298	Not Specified	PASS
	MCH	1.315	Not Specified	PASS
	HCH	1.298	Not Specified	PASS

Test Graphs		
GFSK/LCH		

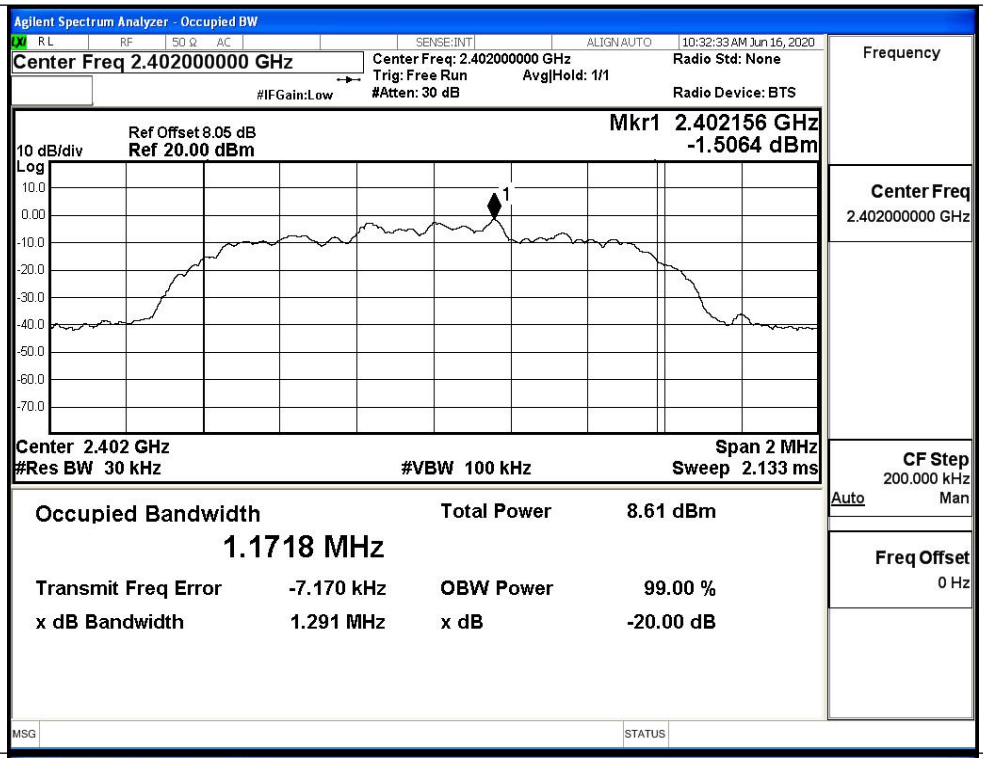
GFSK/MCH



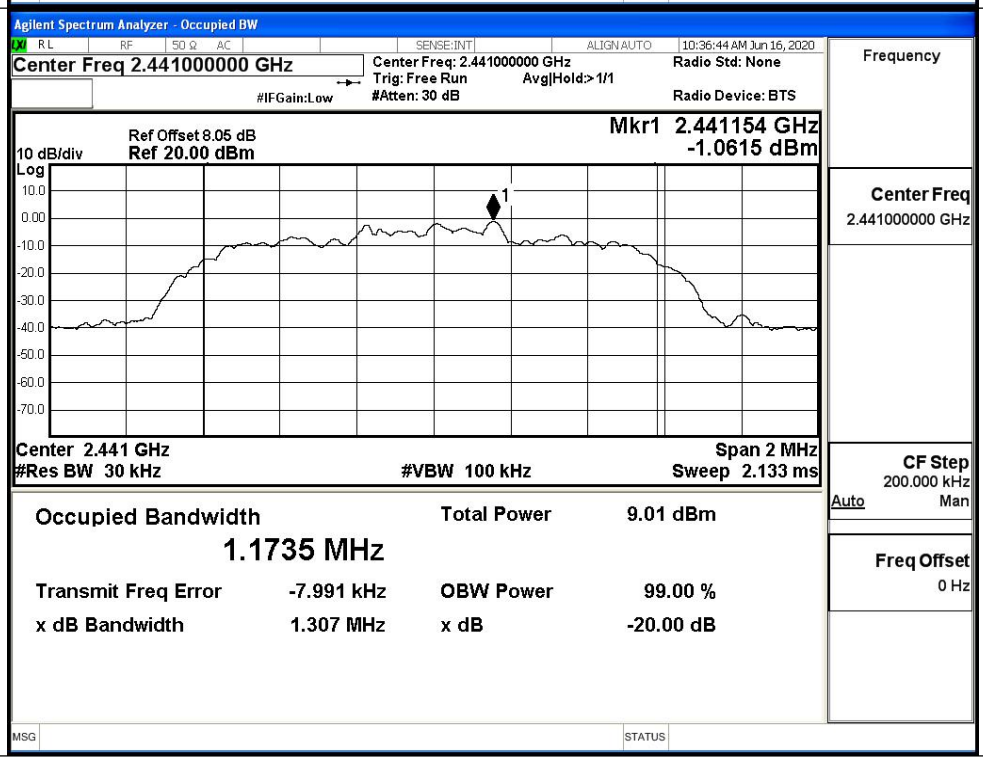
GFSK/HCH



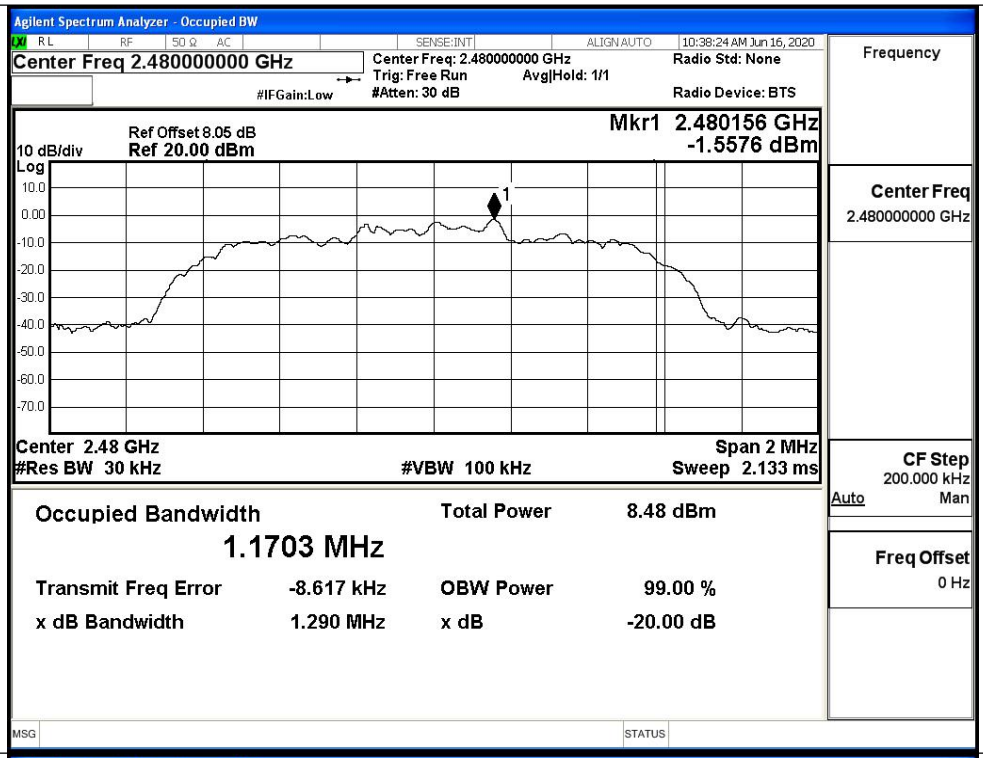
π/4DQPSK/LCH



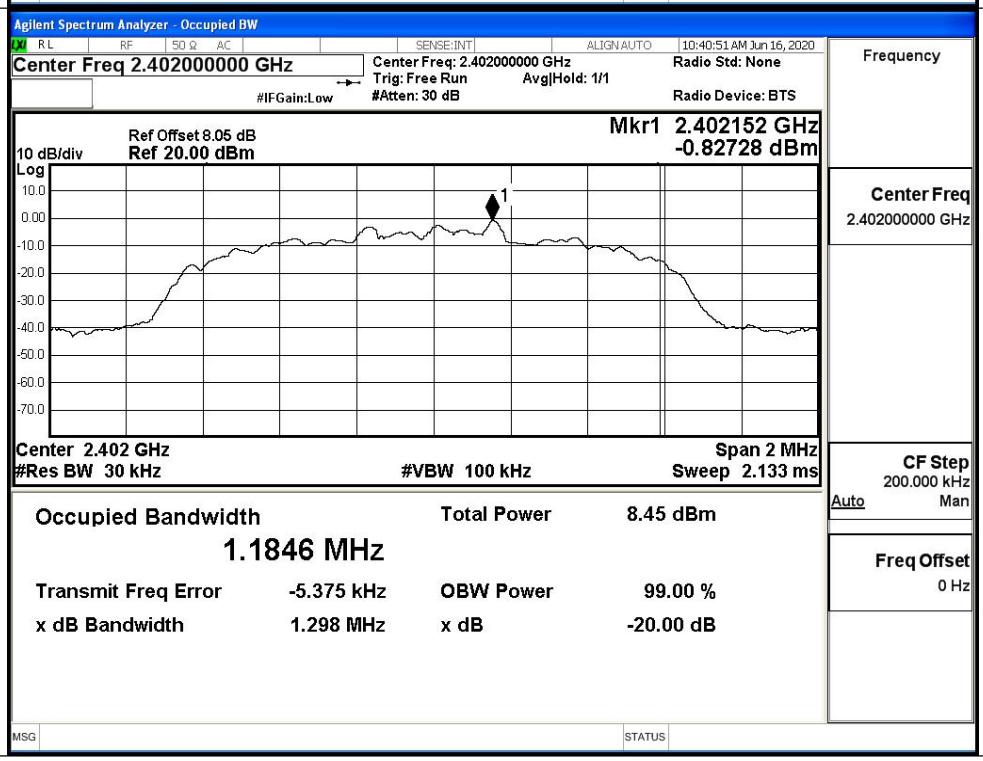
π/4DQPSK/MCH



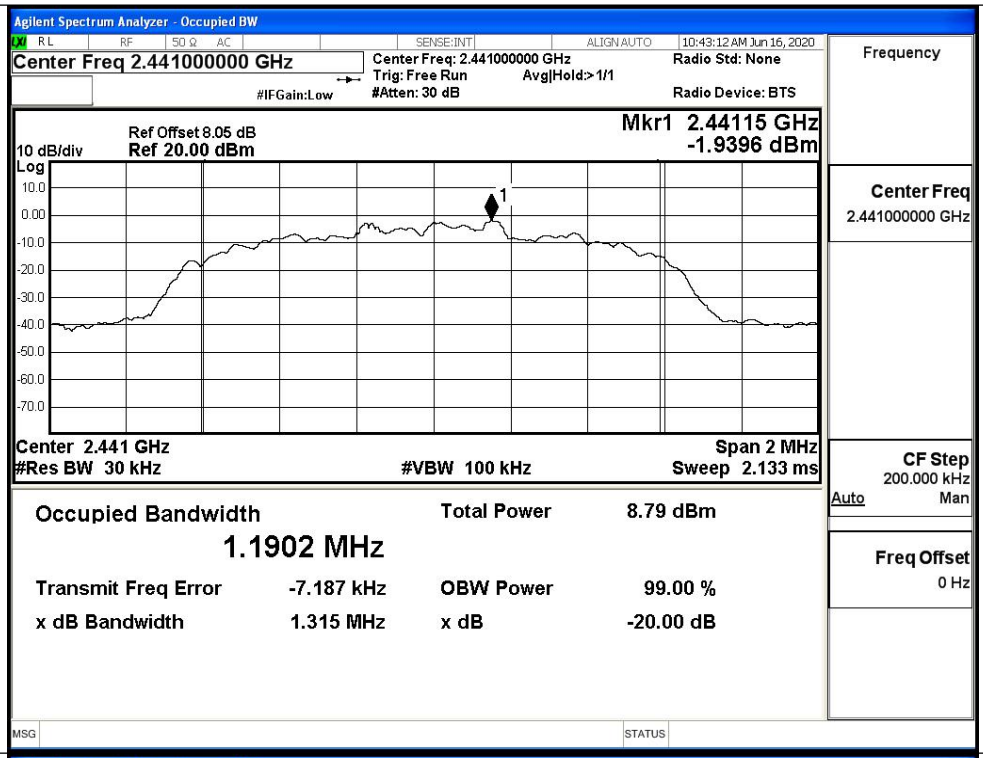
π/4DQPSK/HCH



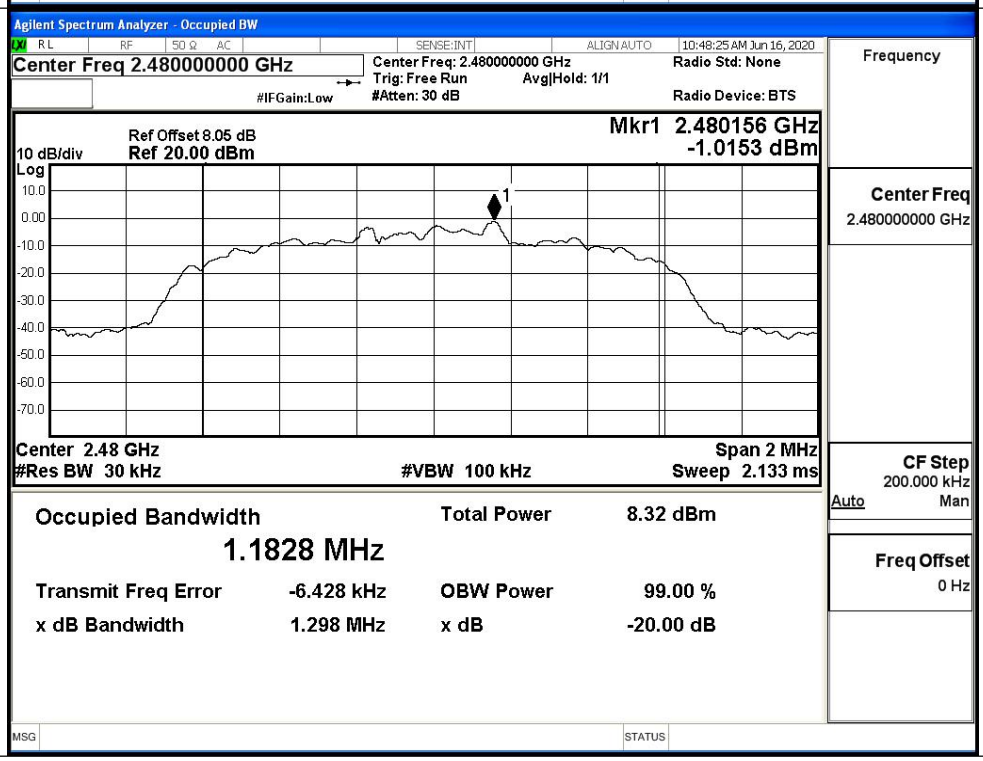
8DPSK/LCH



8DPSK/MCH

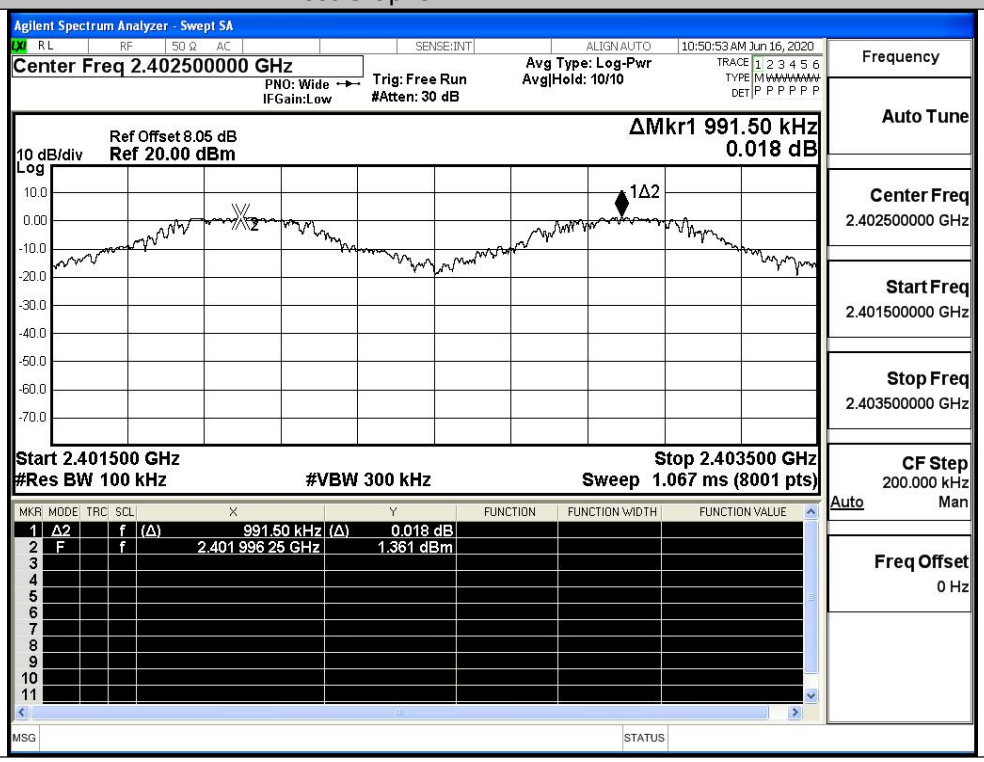


8DPSK/HCH

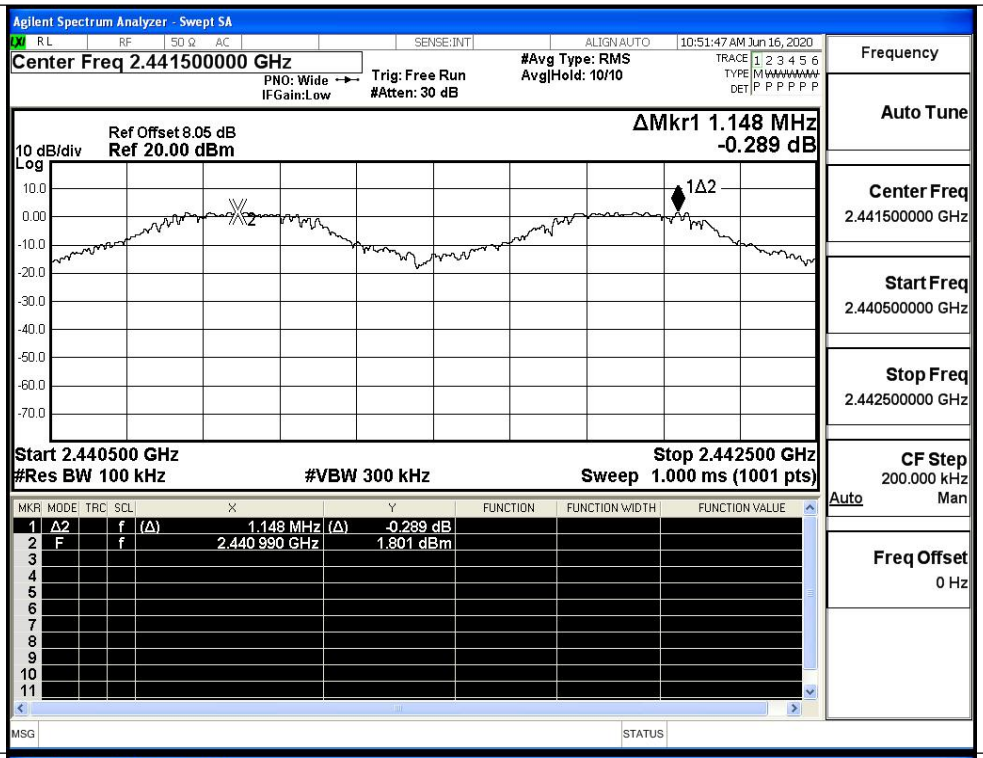


A.3 Carrier Frequency Separation

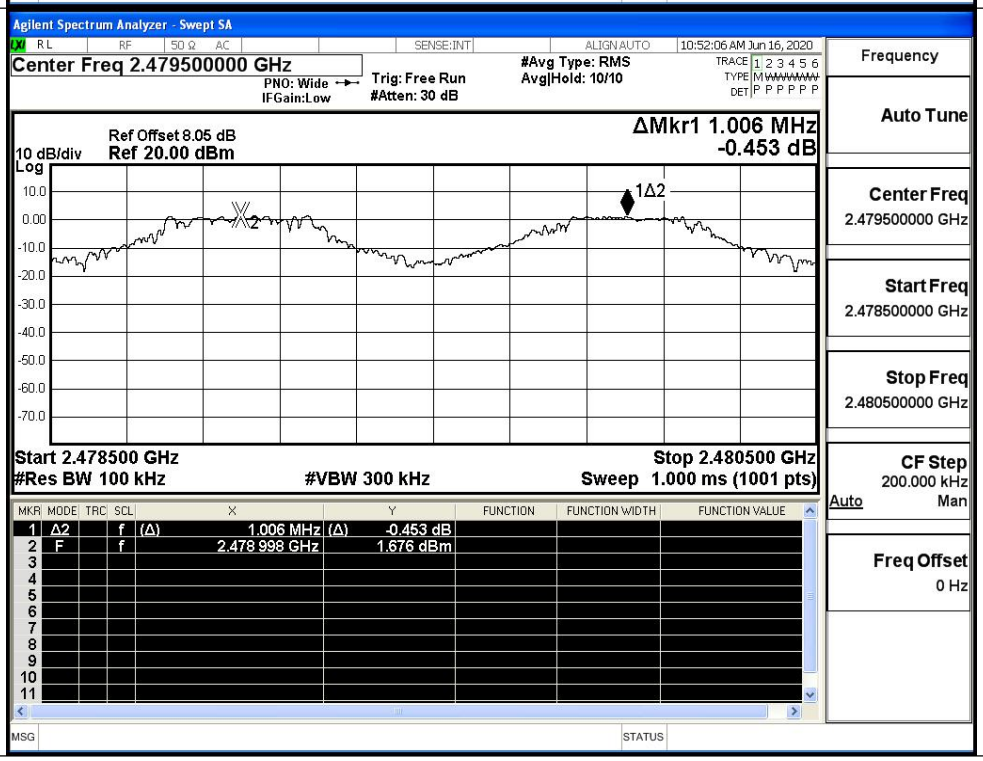
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.991	0.695	PASS
	MCH	1.148	0.699	PASS
	HCH	1.006	0.697	PASS
π/4DQPSK	LCH	0.944	0.861	PASS
	MCH	0.904	0.871	PASS
	HCH	1.342	0.860	PASS
8DPSK	LCH	1.000	0.865	PASS
	MCH	1.060	0.877	PASS
	HCH	1.128	0.865	PASS

Test Graphs	
GFSK/LCH	

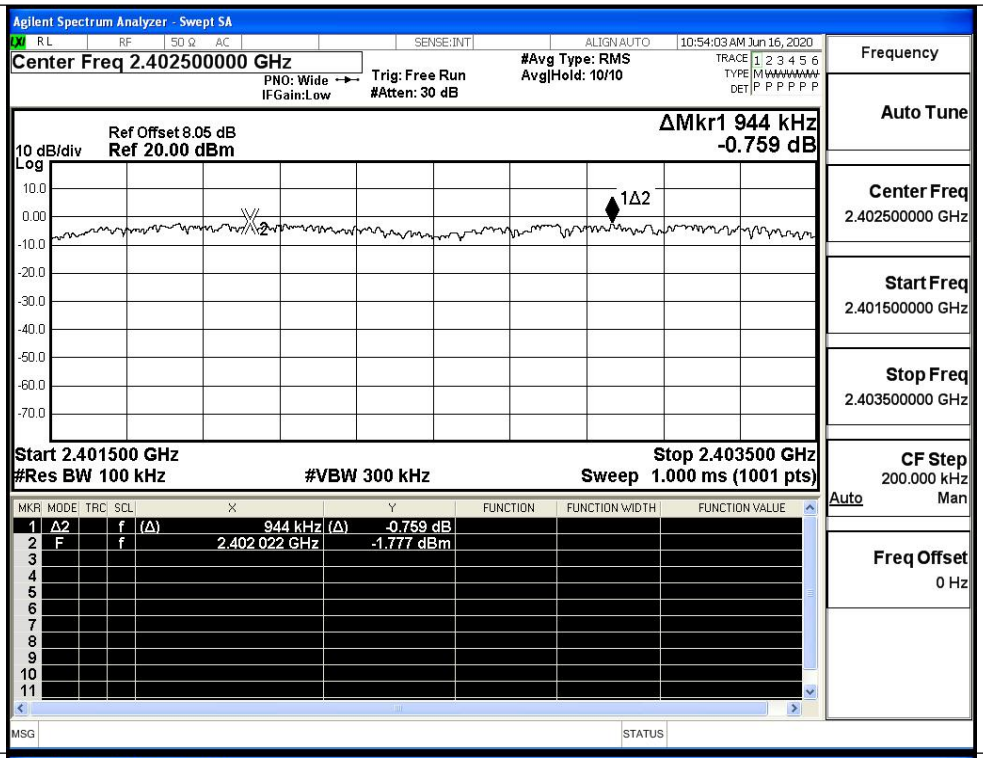
GFSK/MCH



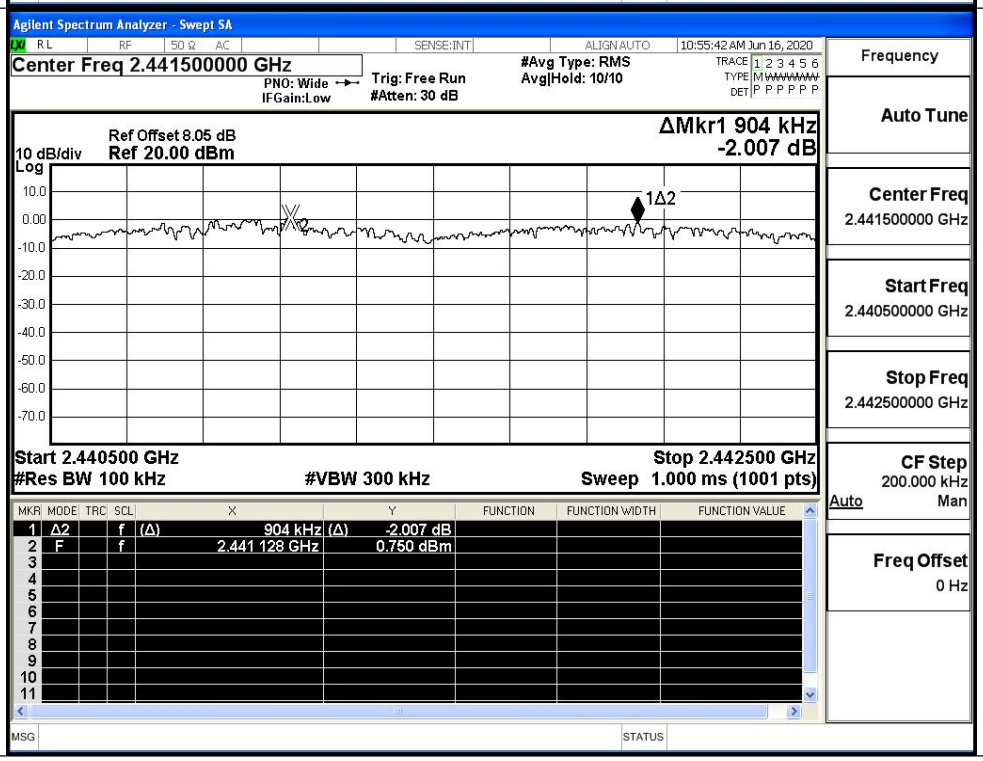
GFSK/HCH



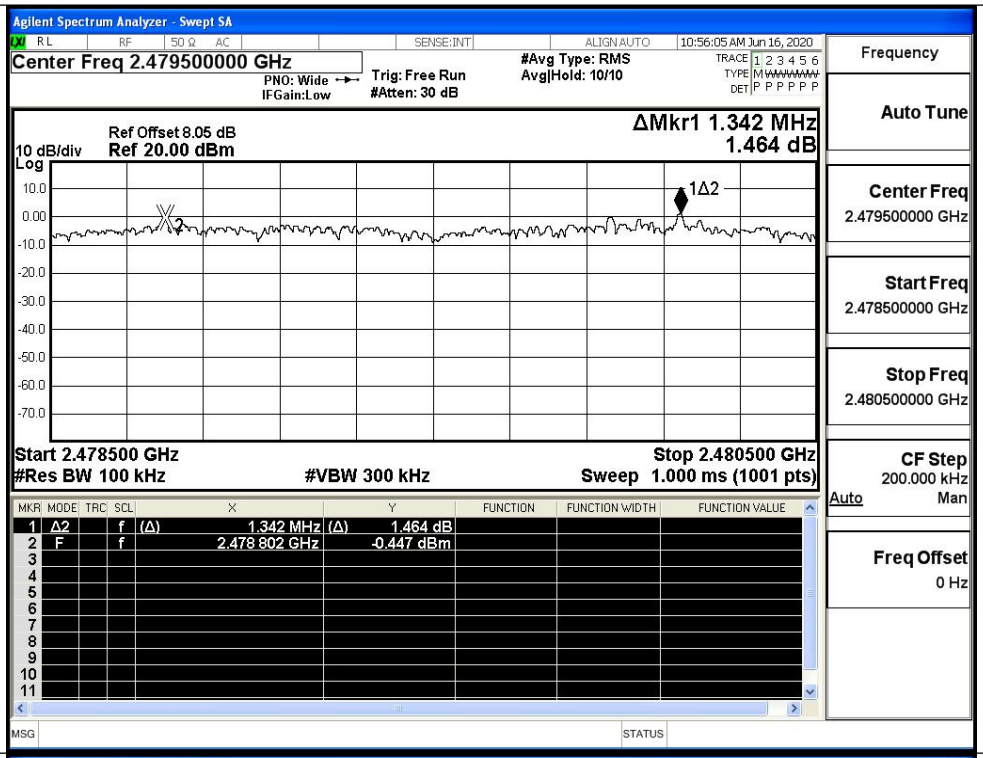
π/4DQPSK/LCH



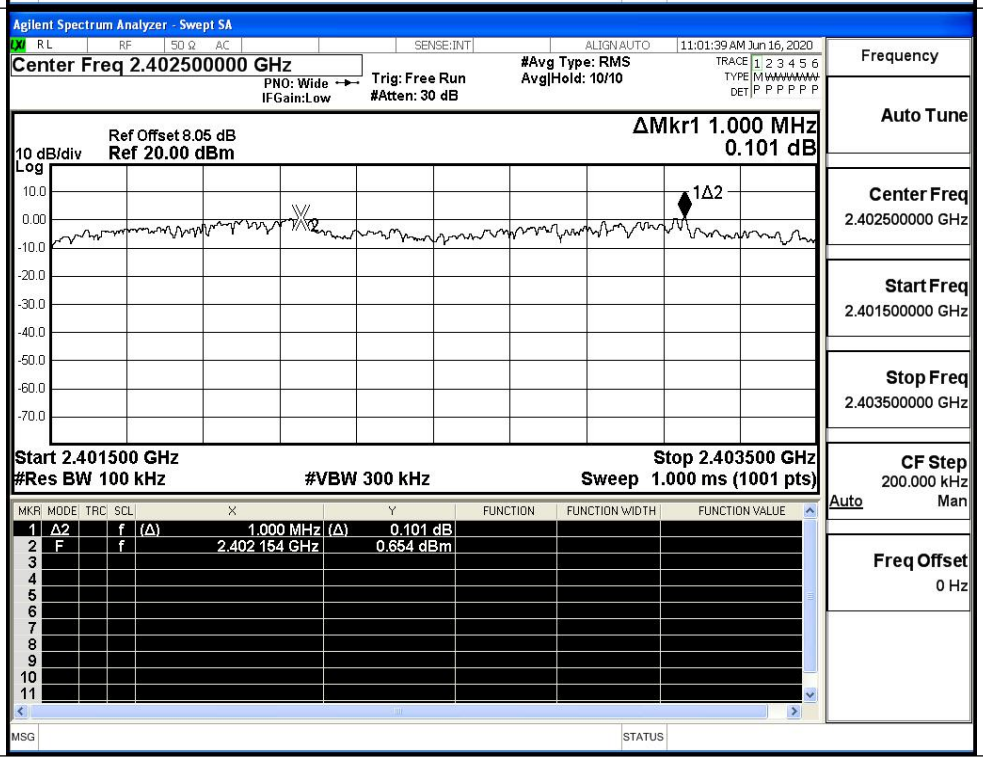
π/4DQPSK/MCH



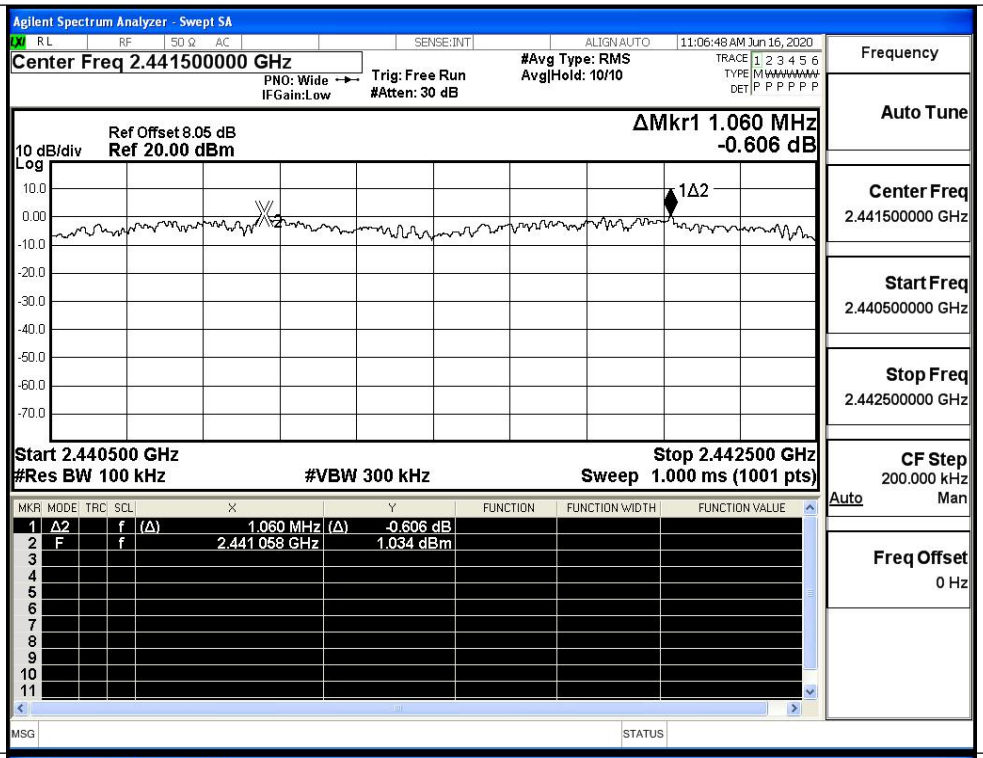
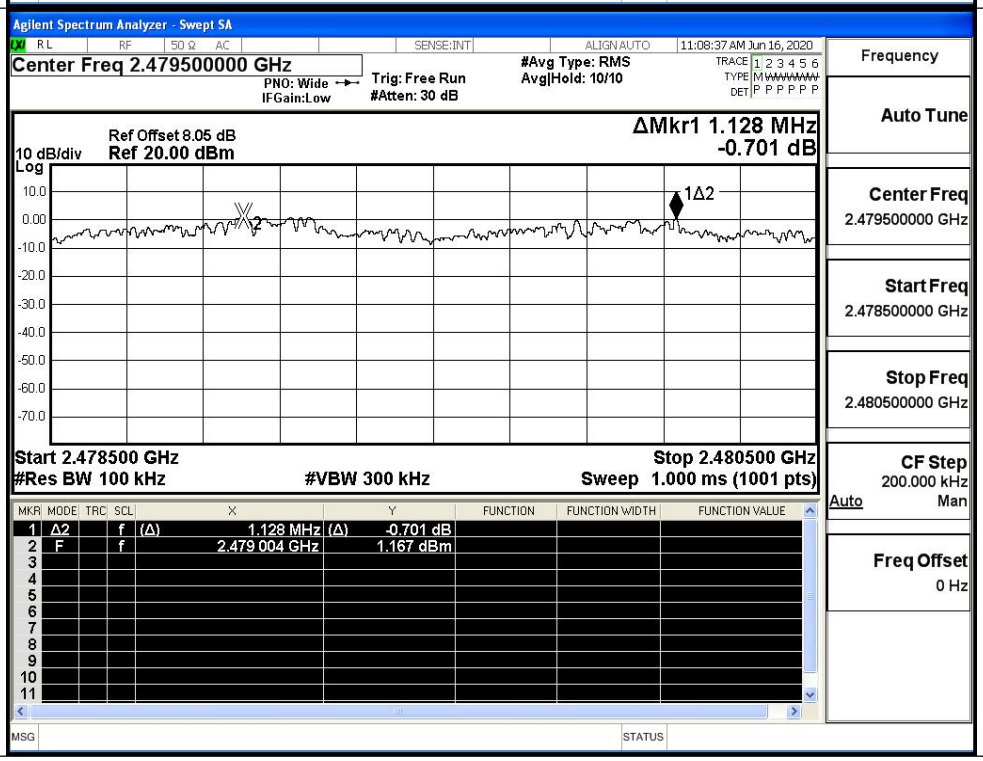
π/4DQPSK/HCH



8DPSK/LCH



8DPSK/MCH



8DPSK/HCH