

Appendix RF test data for BT

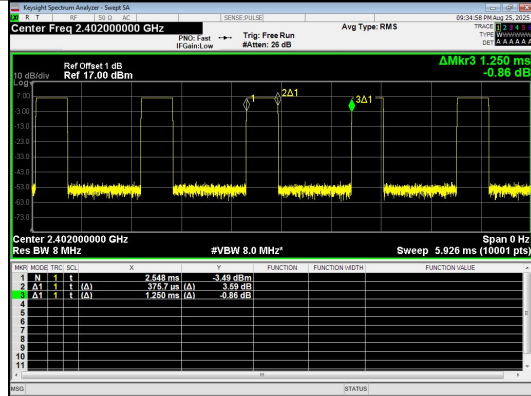
(BT2: QCC3024)

Duty Cycle Test Result

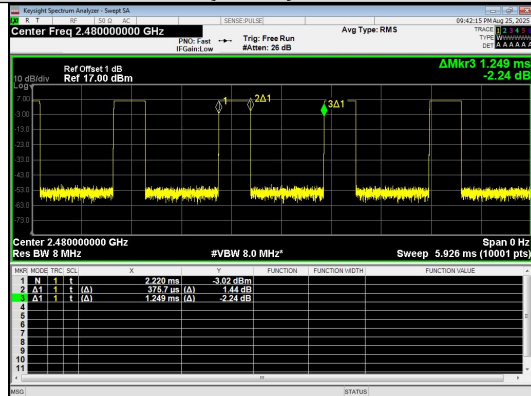
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	0.376	1.250	30.11	0.3011	5.2129	2.6596
		39	0.376	1.249	30.08	0.3008	5.2172	2.6596
		78	0.376	1.249	30.08	0.3008	5.2172	2.6596
$\pi/4$ DQPSK	2-DH5	0	0.376	1.250	30.06	0.3006	5.2201	2.6596
		39	0.376	1.250	30.11	0.3011	5.2129	2.6596
		78	0.376	1.250	30.11	0.3011	5.2129	2.6596
8DPSK	3-DH5	0	0.376	1.250	30.06	0.3006	5.2201	2.6596
		39	0.376	1.250	30.11	0.3011	5.2129	2.6596
		78	0.376	1.249	30.08	0.3008	5.2172	2.6596

Test Graphs

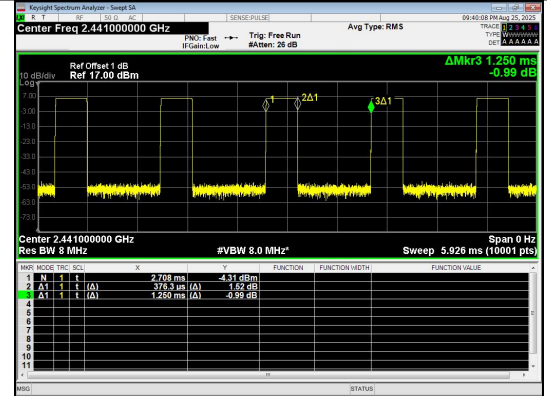


 $\pi/4$ DQPSK(2-DH5)_Channel 39

8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 78

 $\pi/4$ DQPSK(2-DH5)_Channel 78

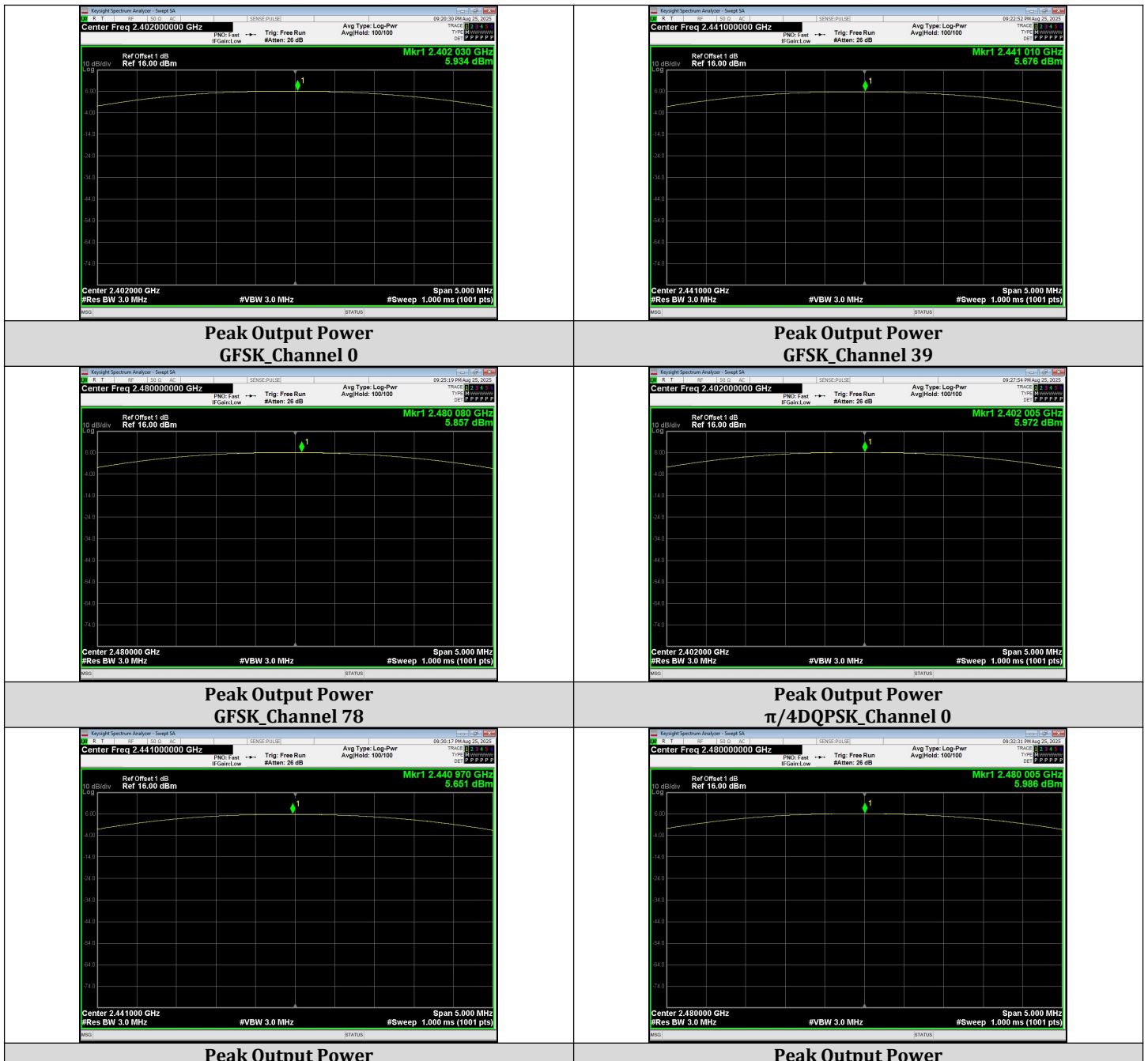
8DPSK(3-DH5)_Channel 39

Conducted Output Power

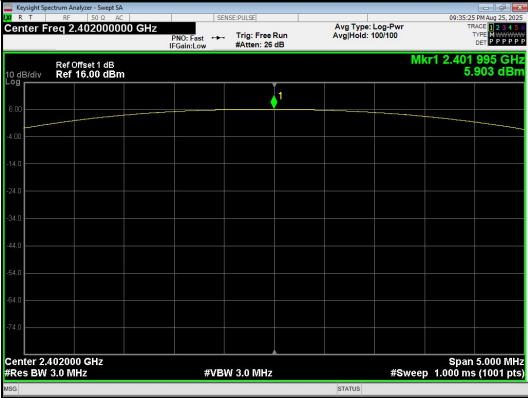
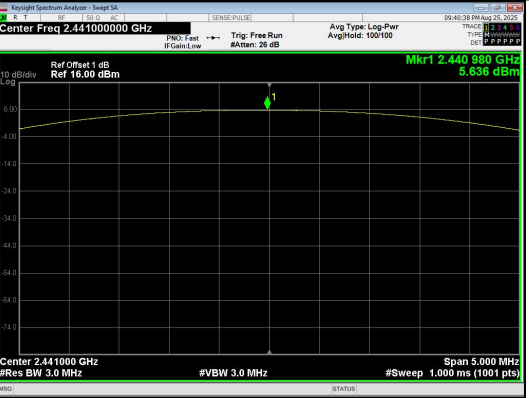
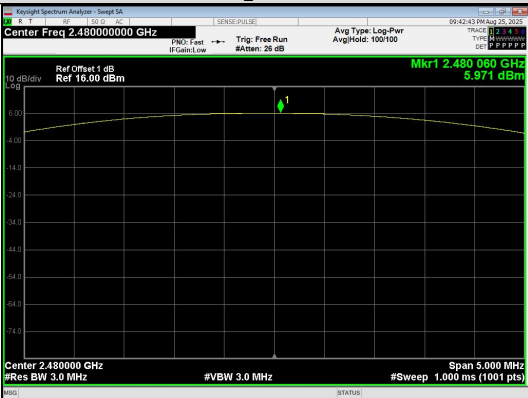
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	5.93	≤30	PASS
		39	5.68		PASS
		78	5.86		PASS
$\pi/4$ DQPSK	2-DH5	0	5.97	≤20.97	PASS
		39	5.65		PASS
		78	5.99		PASS
8DPSK	3-DH5	0	5.90		PASS
		39	5.64		PASS
		78	5.97		PASS

Test Graphs





π/4QPSK_Channel 39 	π/4QPSK_Channel 78 
Peak Output Power 8DPSK_Channel 0	Peak Output Power 8DPSK_Channel 39
 Peak Output Power 8DPSK_Channel 78	

20dB Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9400
	39	2441 MHz	0.9400
	78	2480 MHz	0.9400
$\pi/4$ DQPSK	0	2402 MHz	1.330
	39	2441 MHz	1.330
	78	2480 MHz	1.330
8DPSK	0	2402 MHz	1.210
	39	2441 MHz	1.200
	78	2480 MHz	1.210

Test Graphs

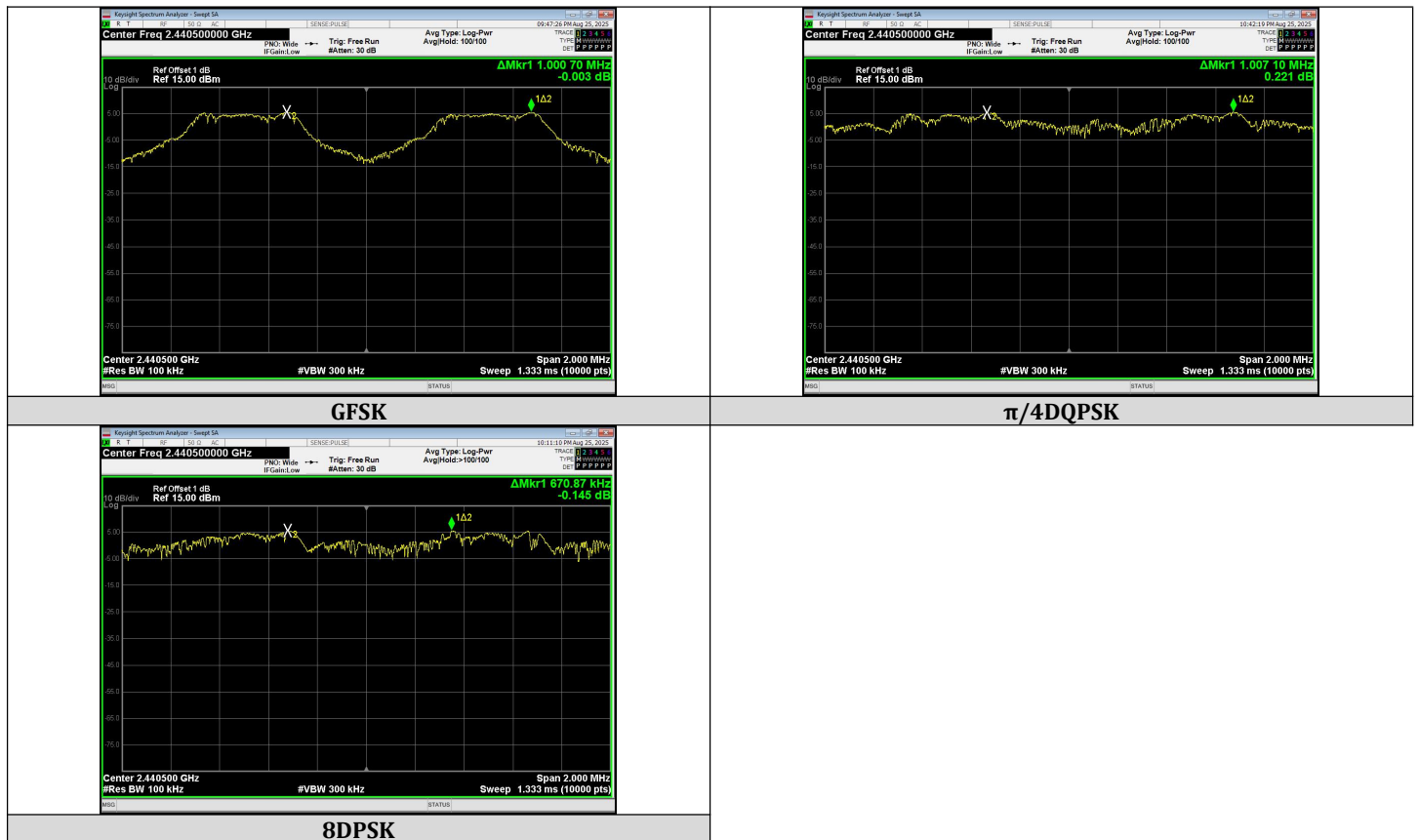


Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.1733	2441.174	1.0007	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1647	2441.1718	1.0071	0.99	PASS
8DPSK	3-DH5	2440.1785	2440.8493	0.6709	0.99	PASS

Test Graphs



Number Of Hopping Channel

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs



Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3648	319	116.37	< 400	PASS
	DH3		0.3840	319	122.5		PASS
	DH5		0.3600	320	115.2		PASS
$\pi/4$ DQPSK	2-DH1		0.2652	319	84.6		PASS
	2-DH3		0.2640	320	84.48		PASS
	2-DH5		0.2560	319	81.66		PASS
8DPSK	3-DH1		0.2232	319	71.2		PASS
	3-DH3		0.2160	319	68.9		PASS
	3-DH5		0.2160	319	68.9		PASS

Test Graphs

