

Appendix A_Conduction Data for BR_EDR:

1.Conducted Peak Output Power

Test Result

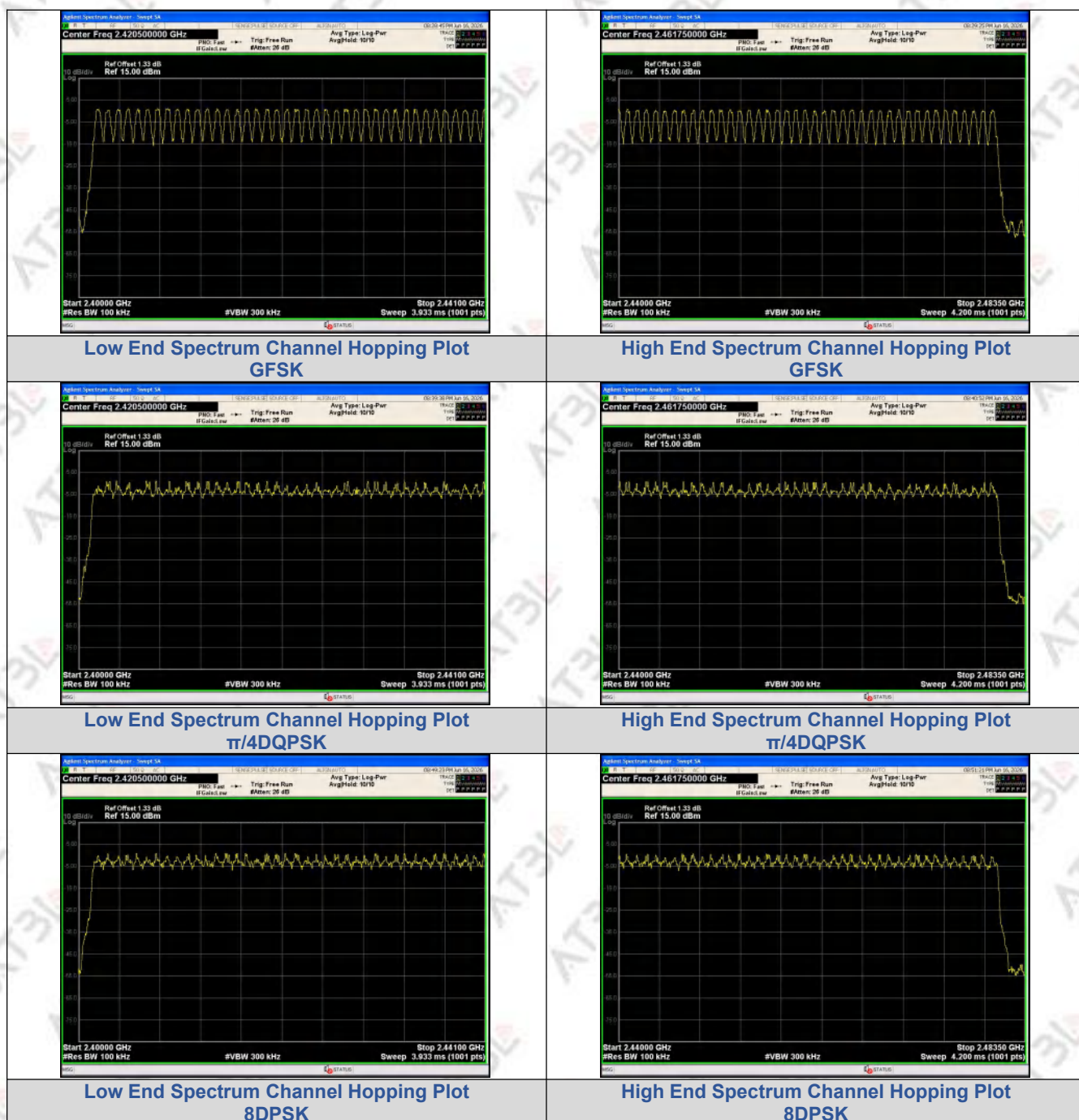
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
GFSK	DH5	0	1.33	≤21	PASS
		39	1.07	≤21	PASS
		78	0.68	≤21	PASS
π/4DQPSK	2-DH5	0	2.19	≤21	PASS
		39	1.92	≤21	PASS
		78	1.52	≤21	PASS
8DPSK	3-DH5	0	2.57	≤21	PASS
		39	2.34	≤21	PASS
		78	1.92	≤21	PASS

2.Number of Hopping Frequencies

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



3.Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.880	107	308.16	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.880	112	322.56		PASS
8DPSK	3-DH5		2.896	119	344.62		PASS

Note: Dwell time= Pulse time(ms)*Number of Pulses in 31.6 seconds

Test Graphs

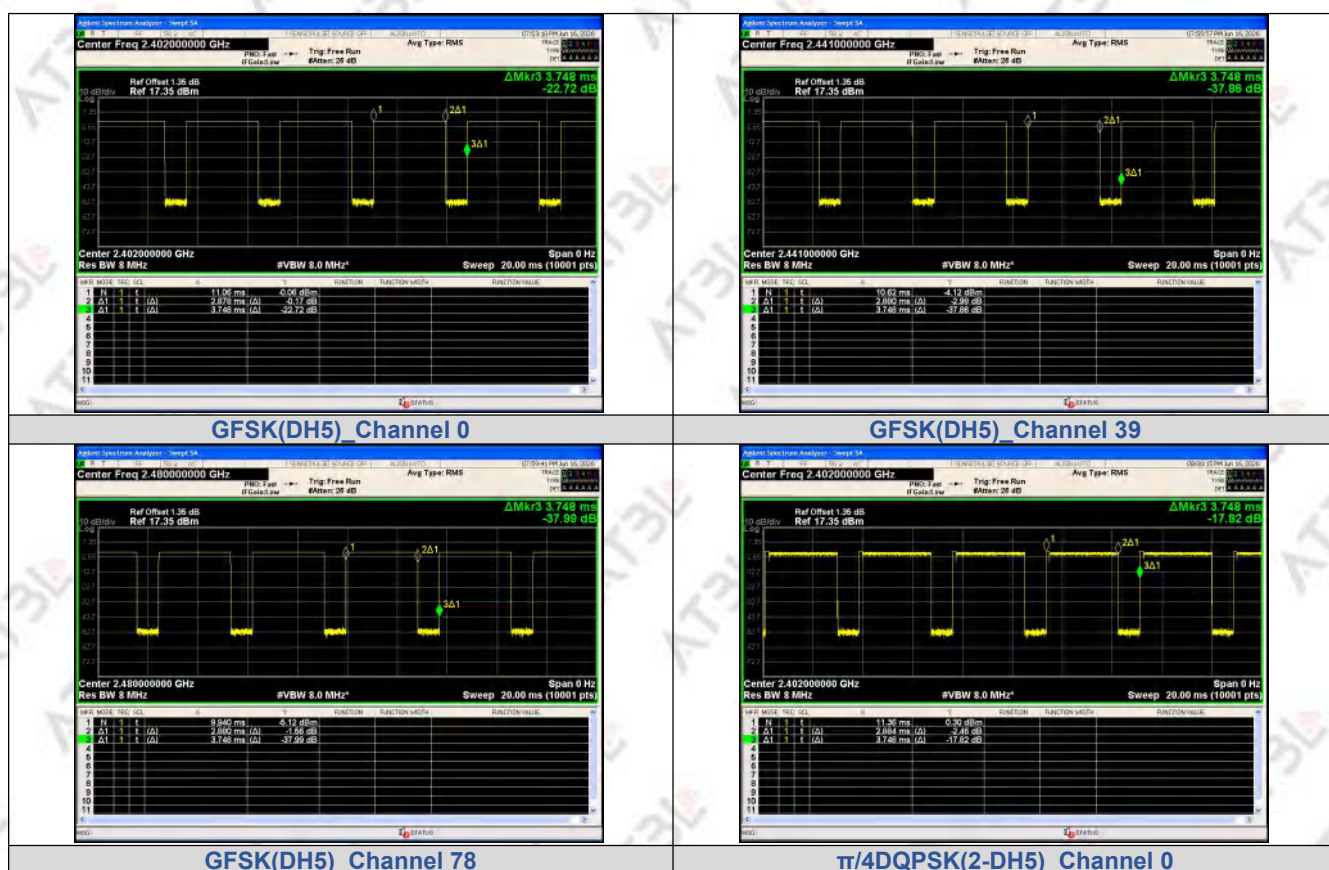
Pulse Width GFSK_DH5	Number of Pulses in 31.6 seconds GFSK_DH5
Pulse Width $\pi/4$DQPSK_2-DH5	Number of Pulses in 31.6 seconds $\pi/4$DQPSK_2-DH5
Pulse Width 8DPSK_3-DH5	Number of Pulses in 31.6 seconds 8DPSK_3-DH5

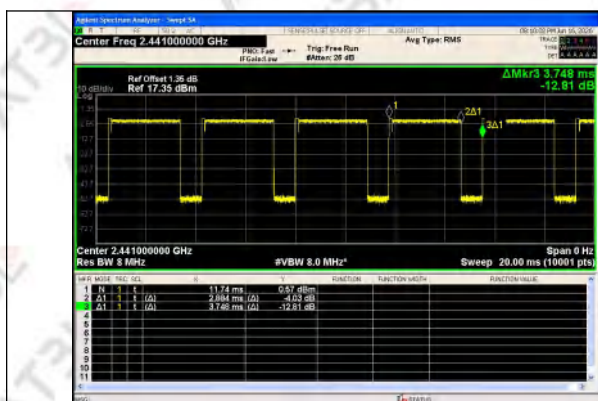
4.Duty Cycle

Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.878	3.748	76.79	0.7679	1.147	0.3475
		39	2.880	3.748	76.84	0.7684	1.1441	0.3472
		78	2.880	3.748	76.84	0.7684	1.1441	0.3472
$\pi/4$ DQPSK	2-DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.884	3.748	76.95	0.7695	1.1379	0.3467
8DPSK	3-DH5	0	2.888	3.748	77.05	0.7705	1.1323	0.3463
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.888	3.748	77.05	0.7705	1.1323	0.3463

Test Graphs

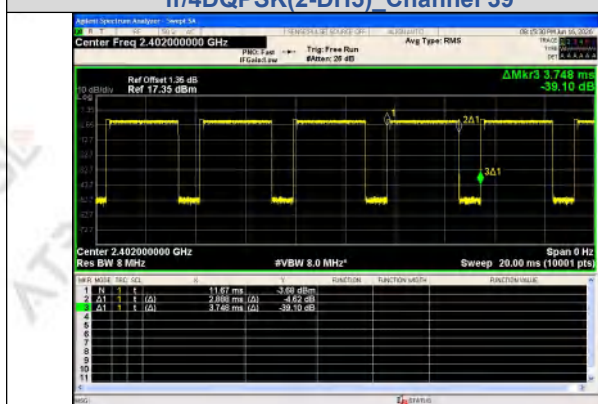




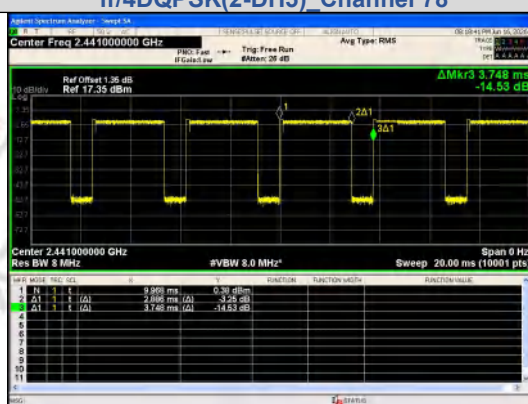
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



8DPSK(3-DH5)_Channel 78

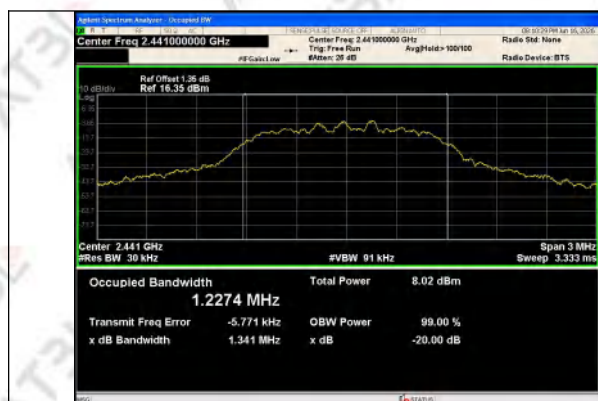
5.20dB Bandwidth

Test Result

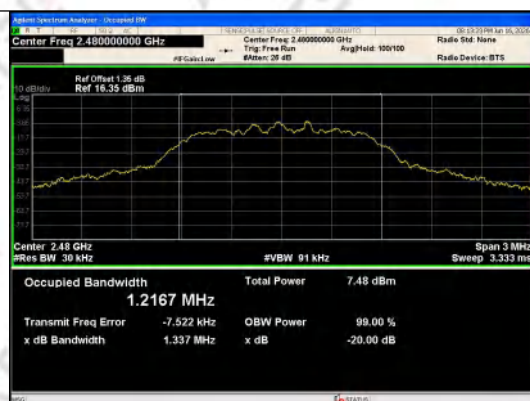
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.056
	39	2441 MHz	1.048
	78	2480 MHz	1.061
$\pi/4$ DQPSK	0	2402 MHz	1.337
	39	2441 MHz	1.341
	78	2480 MHz	1.337
8DPSK	0	2402 MHz	1.291
	39	2441 MHz	1.293
	78	2480 MHz	1.289

Test Graphs

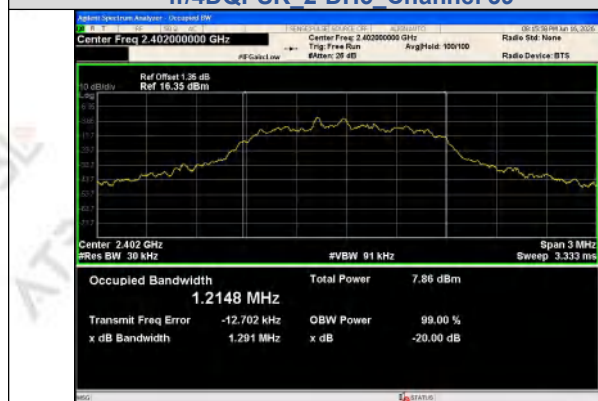




π /4DQPSK 2-DH5 Channel 39



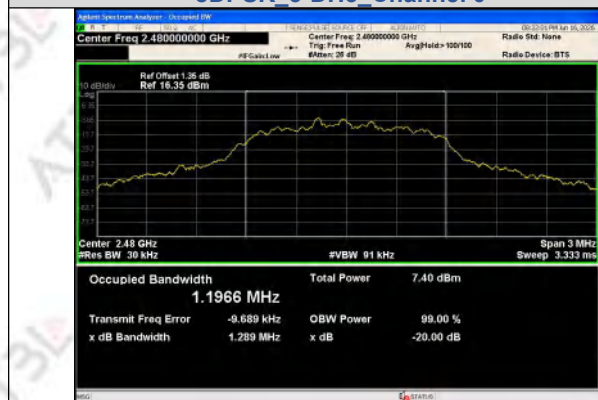
π /4DQPSK 2-DH5 Channel 78



8DPSK 3-DH5 Channel 0



8DPSK 3-DH5 Channel 39



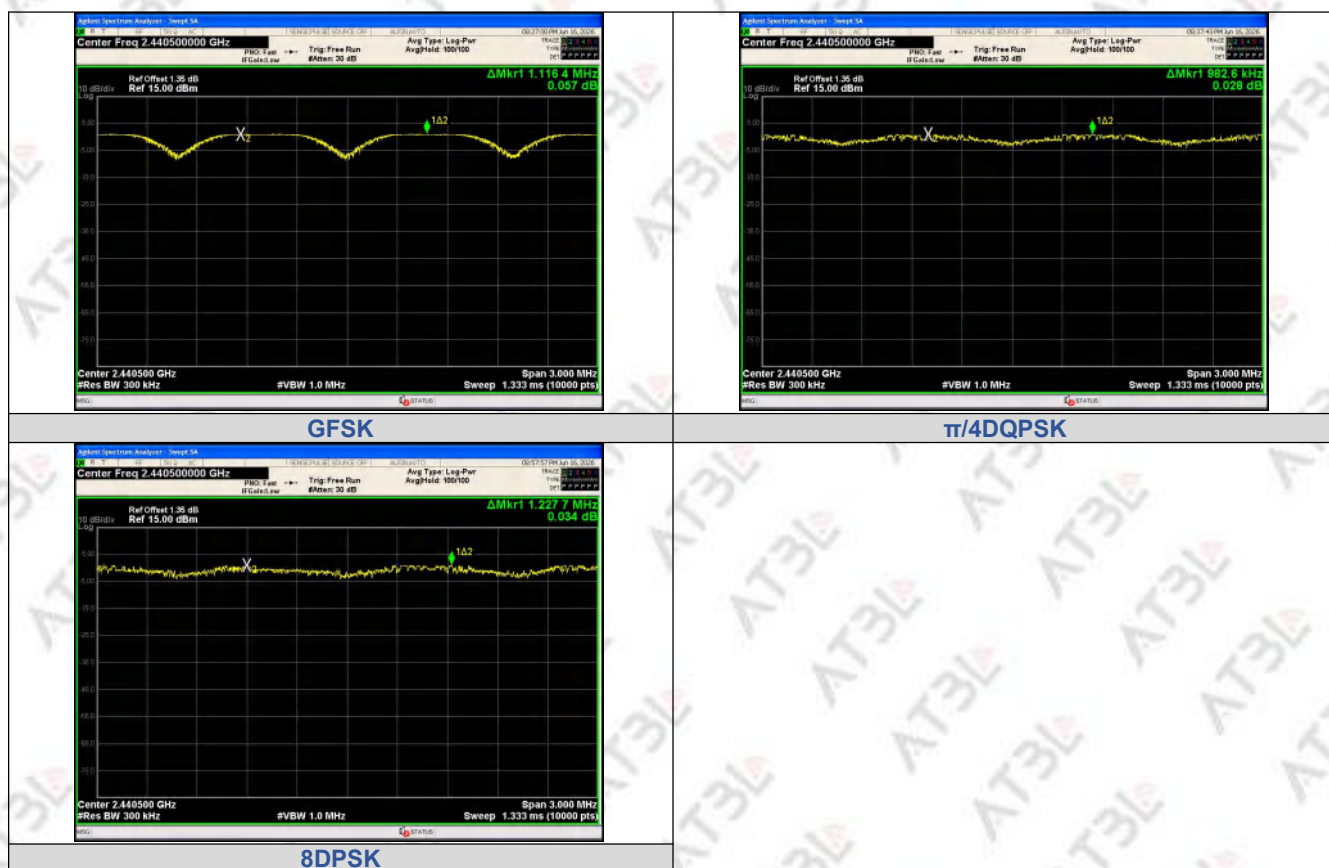
8DPSK 3-DH5 Channel 78

6.Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8608	2440.9772	1.1164	0.707	PASS
$\pi/4$ DQPSK	2-DH5	2439.9958	2440.9784	0.9826	0.894	PASS
8DPSK	3-DH5	2439.8977	2441.1254	1.2277	0.862	PASS

Test Graphs



7. Conducted Spurious & Band Edge Emission

Test Result

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-51.669	-19.09	-32.579	PASS
			4803.64	-37.033	-19.09	-17.943	PASS
		39	4881.67	-34.522	-19.26	-15.262	PASS
		78	2483.50	-55.905	-19.85	-36.055	PASS
			4959.70	-35.085	-19.85	-15.235	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-49.318	-19.14	-30.178	PASS
			4804.26	-40.286	-19.14	-21.146	PASS
		39	4881.67	-37.714	-19.37	-18.344	PASS
		78	2483.50	-54.536	-19.69	-34.846	PASS
			4959.70	-39.219	-19.69	-19.529	PASS
8DPSK	3-DH5	0	2400.00	-51.301	-19.1	-32.201	PASS
			4804.26	-38.886	-19.1	-19.786	PASS
		39	4881.67	-33.302	-19.27	-14.032	PASS
		78	2483.50	-57.012	-19.82	-37.192	PASS
			4959.70	-38.610	-19.82	-18.790	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

Hopping							
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2393.97	-48.291	-18.96	-29.331	PASS
			2400.00	-49.489	-18.96	-30.529	PASS
			2483.50	-55.600	-19.13	-36.470	PASS
π/4DQPSK	2-DH5		2394.18	-48.803	-19.24	-29.563	PASS
			2400.00	-49.536	-19.24	-30.296	PASS
			2483.50	-54.109	-19.21	-34.899	PASS
8DPSK	3-DH5		2397.12	-49.114	-19.17	-29.944	PASS
			2400.00	-51.490	-19.17	-32.320	PASS
			2483.50	-53.829	-19.09	-34.739	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

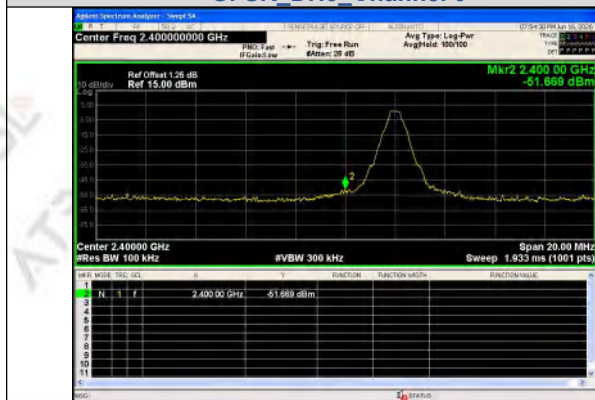
Test Graphs



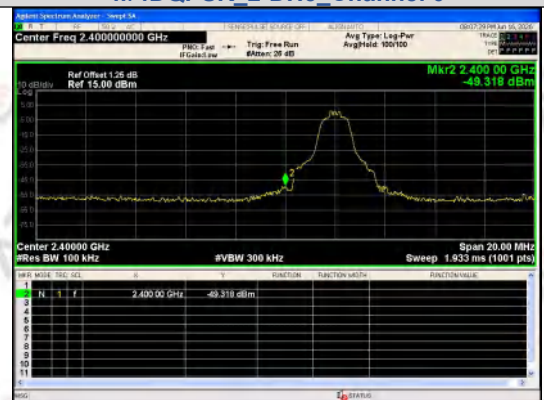
In-Band Reference Level
GFSK DH5 Channel 0



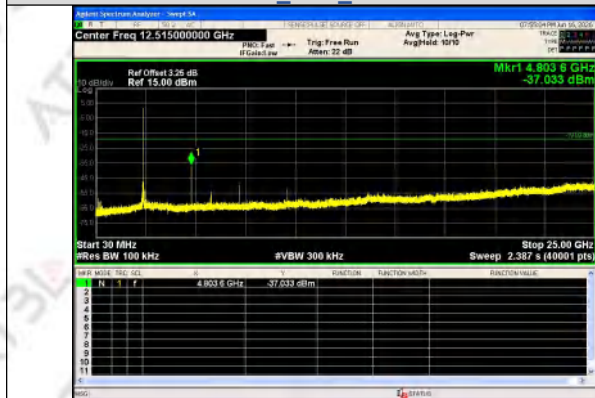
In-Band Reference Level
 $\pi/4$ DQPSK 2-DH5 Channel 0



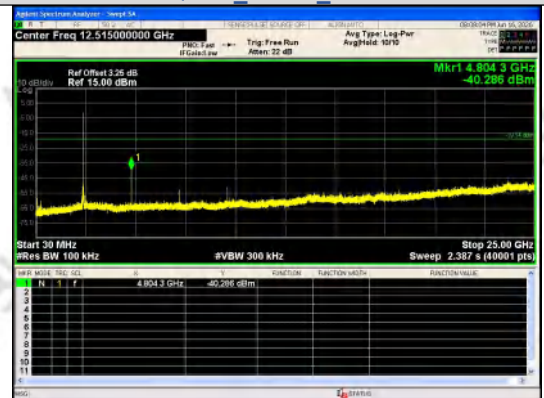
Out Of Band Emission
GFSK DH5 Channel 0



Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 0



30.0 MHz - 25000.0 MHz
GFSK DH5 Channel 0



30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5 Channel 0

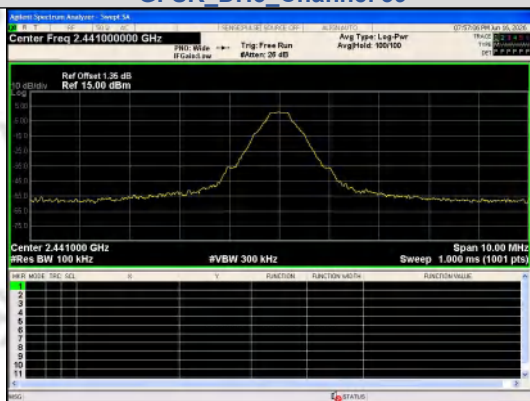


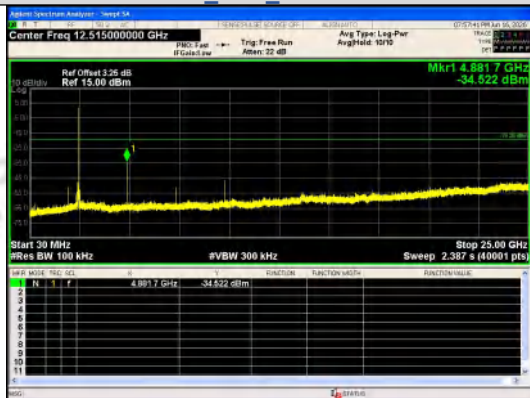
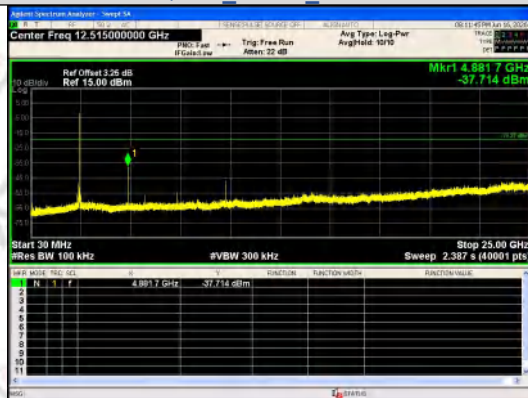
In-Band Reference Level

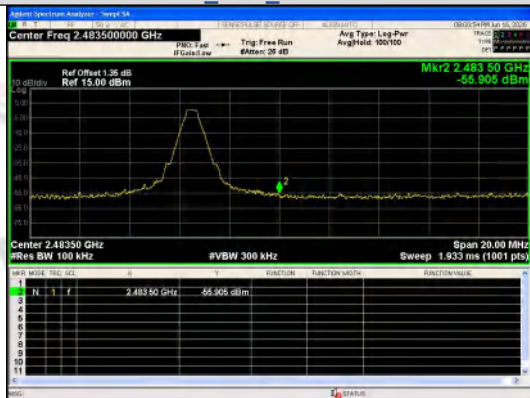
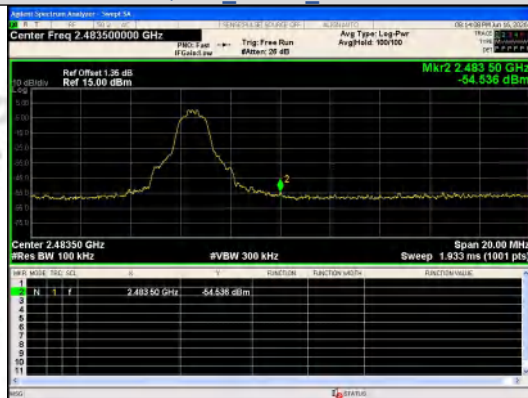


In-Band Reference Level

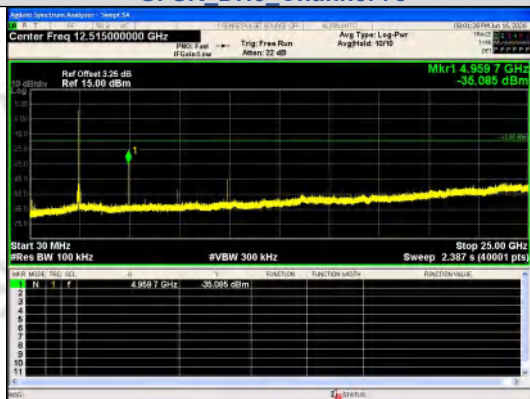
GFSK DH5 Channel 39


 $\pi/4$ DQPSK 2-DH5 Channel 39

Out Of Band Emission
GFSK DH5 Channel 39

Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 39

30.0 MHz - 25000.0 MHz
GFSK DH5 Channel 39
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5 Channel 39

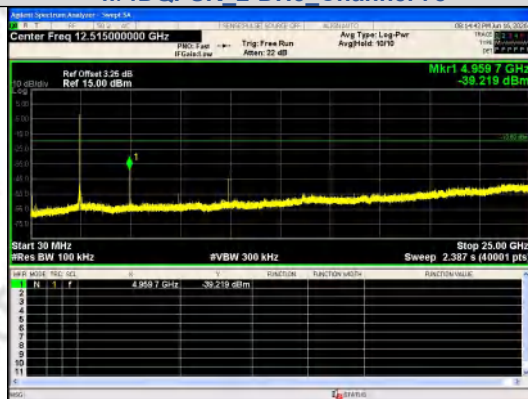
In-Band Reference Level
GFSK DH5 Channel 78

In-Band Reference Level
 $\pi/4$ DQPSK 2-DH5 Channel 78


Out Of Band Emission GFSK_DH5_Channel 78

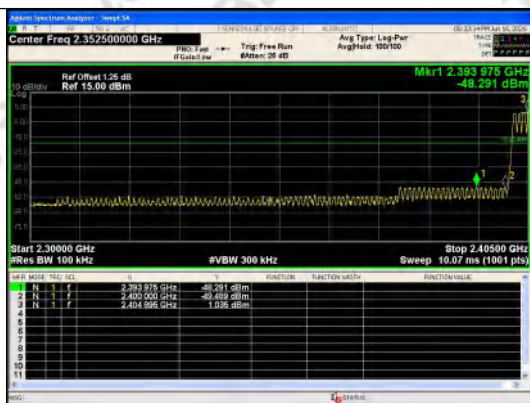


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

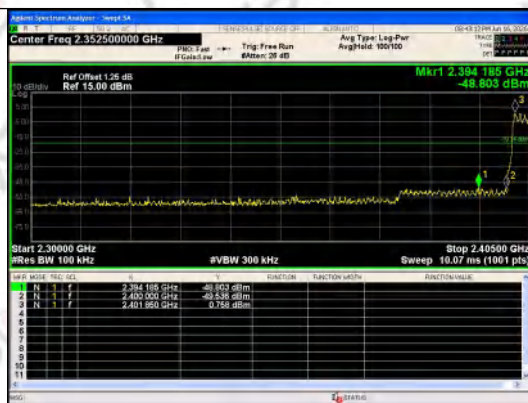
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 78



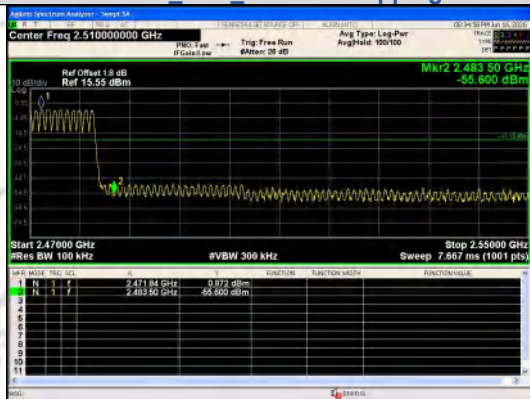
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



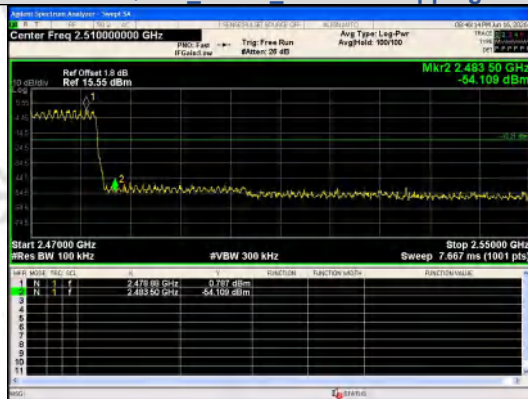
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping

*****END*****