

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL

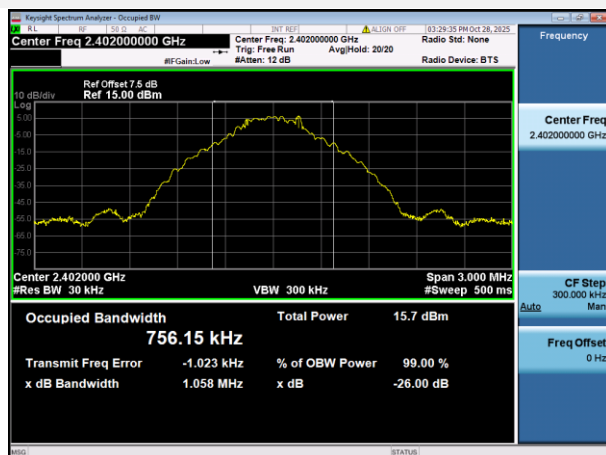


8-DPSK HIGH CHANNEL

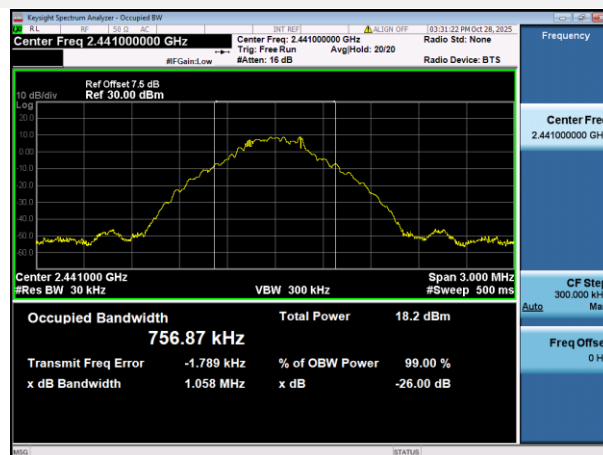


99% Bandwidth

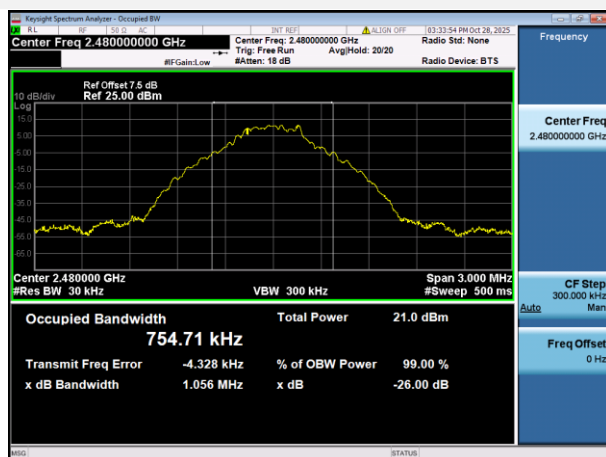
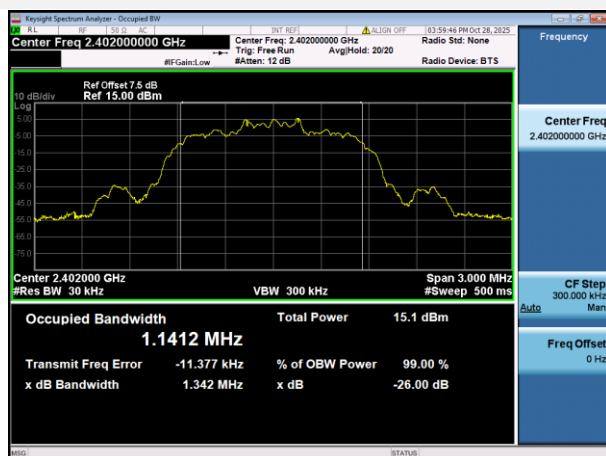
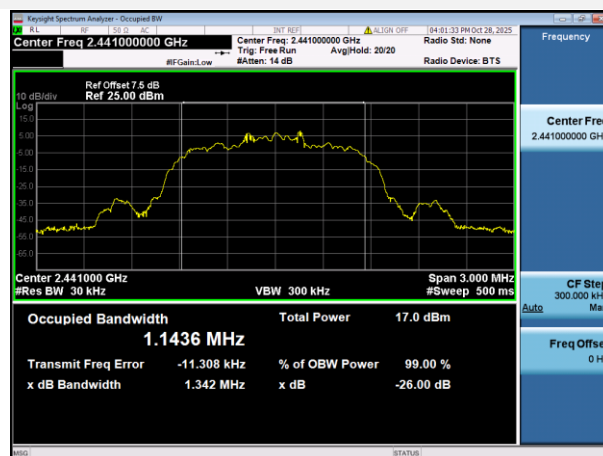
GFSK LOW CHANNEL

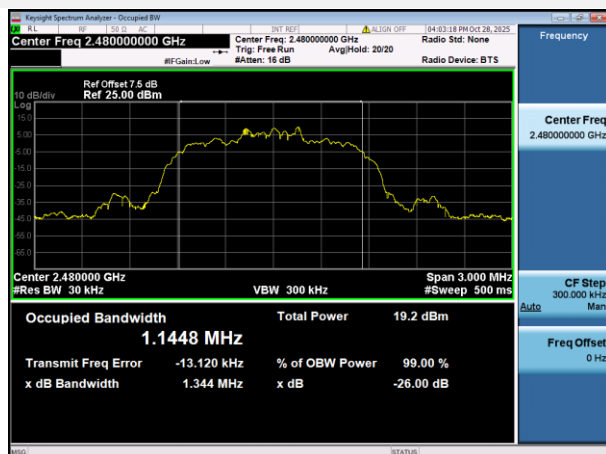


GFSK MIDDLE CHANNEL

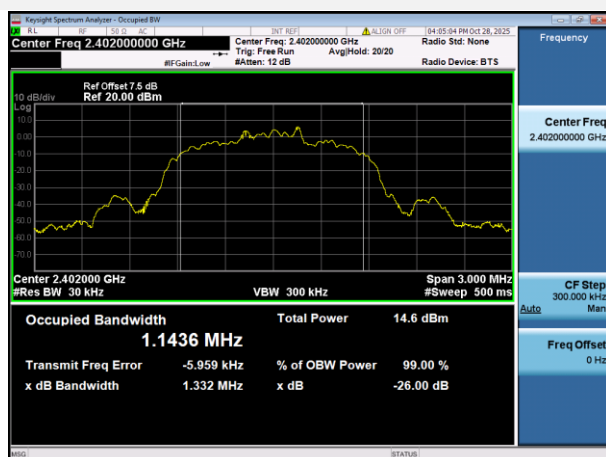


GFSK HIGH CHANNEL

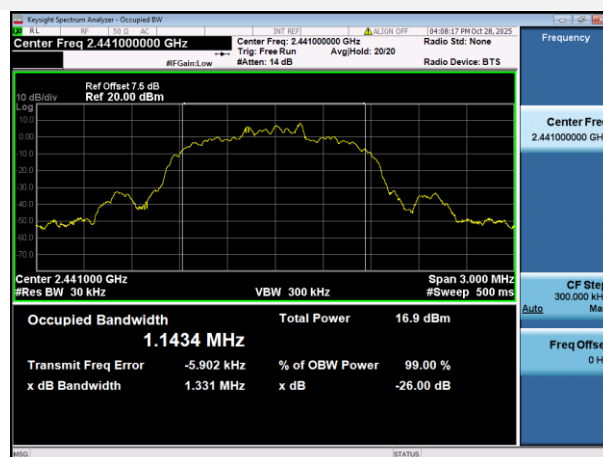
 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL

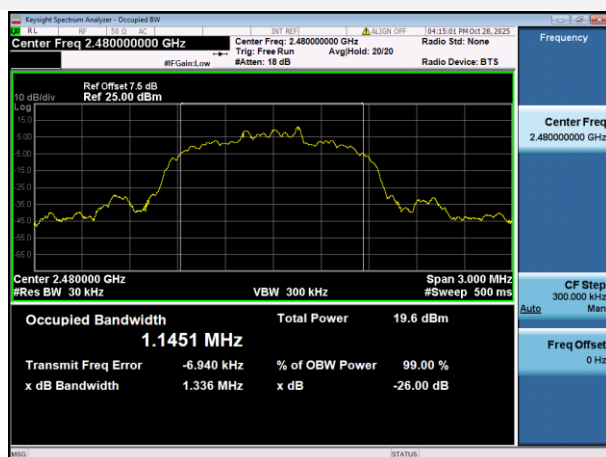
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.4 Carrier Frequency Separation

Test Data

Main Antenna

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.580	Pass
8-DPSK	1.000	0.840	Pass

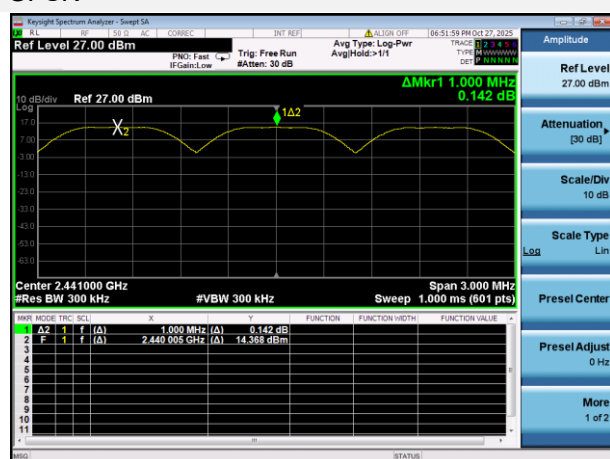
Aux. Antenna

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.580	Pass
8-DPSK	1.000	0.845	Pass

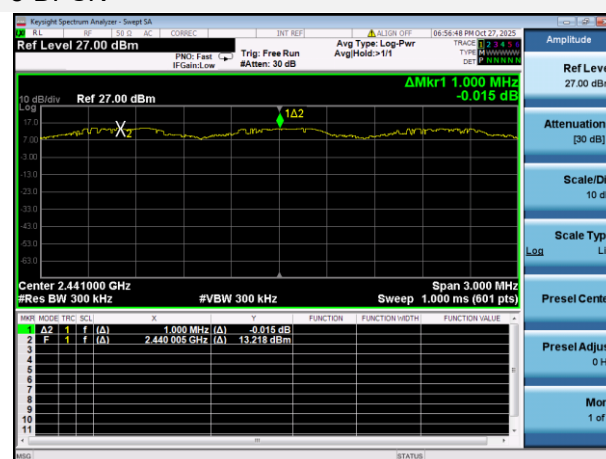
Test Plots

Main Antenna

GFSK

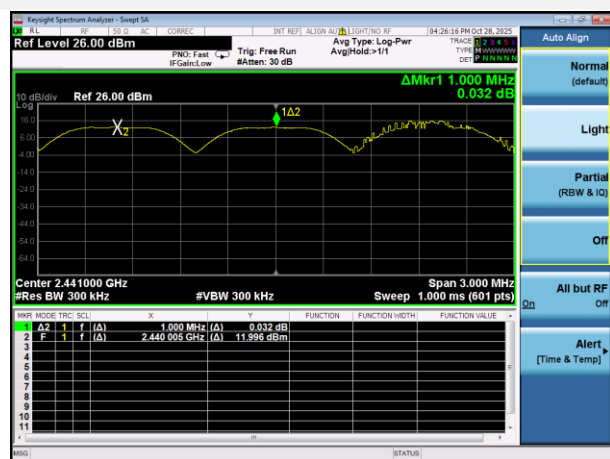


8-DPSK

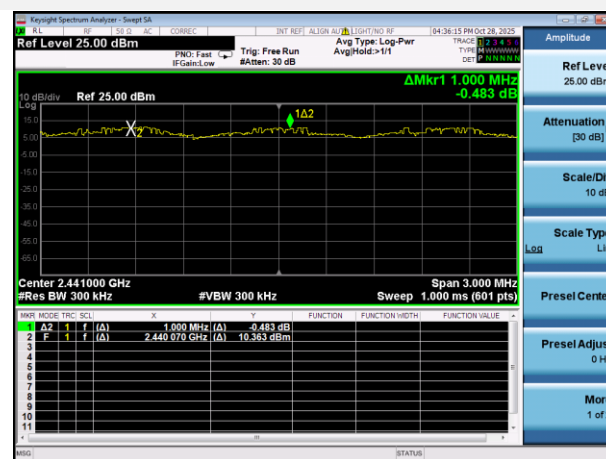


Aux. Antenna

GFSK



8-DPSK



A.5 Time of Occupancy (Dwell time)

Test Data

Main Antenna

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37330	119.456	0.4	Pass
DH 3	1.63300	261.280	0.4	Pass
DH 5	2.88200	307.413	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38000	121.600	0.4	Pass
DH 3	1.62000	259.200	0.4	Pass
DH 5	2.88200	307.413	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37330	59.728	0.4	Pass
DH 3	1.62700	130.160	0.4	Pass
DH 5	2.88200	153.707	0.4	Pass

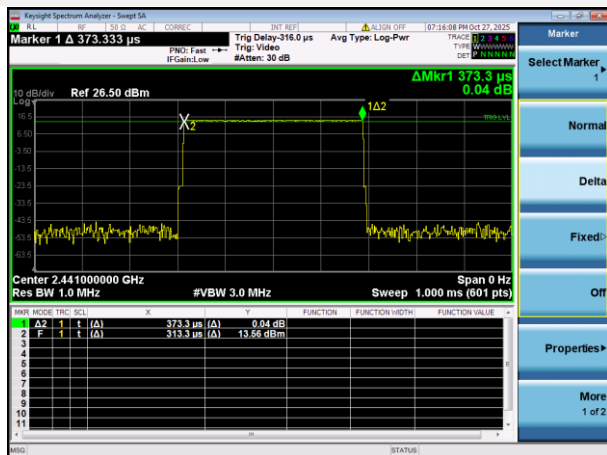
Aux. Antenna

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37330	119.456	0.4	Pass
DH 3	1.63300	261.280	0.4	Pass
DH 5	2.87000	306.133	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38170	122.144	0.4	Pass
DH 3	1.63300	261.280	0.4	Pass
DH 5	2.88200	307.413	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37330	59.728	0.4	Pass
DH 3	1.62700	130.160	0.4	Pass
DH 5	2.87000	153.067	0.4	Pass

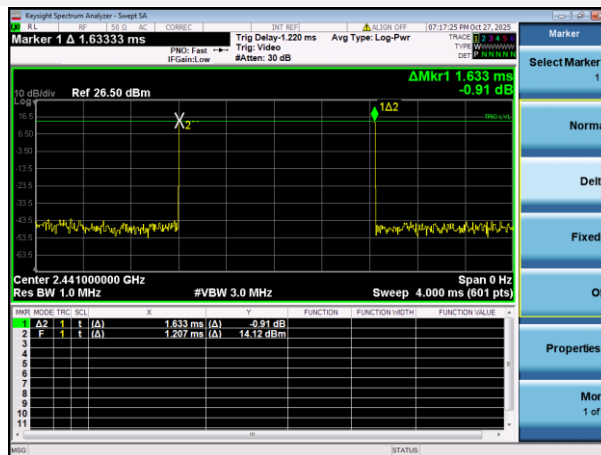
Test Plots

Main Antenna

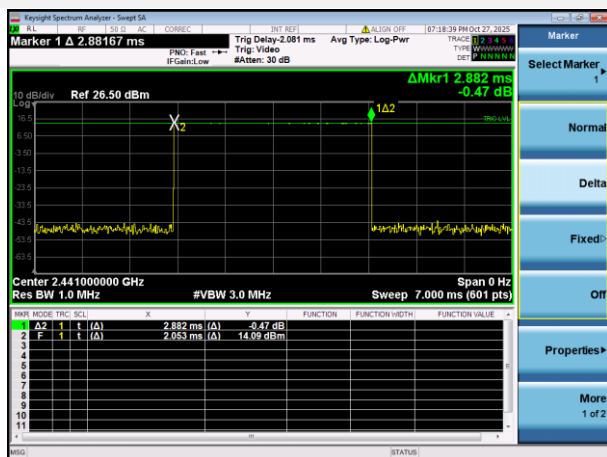
GFSK DH1



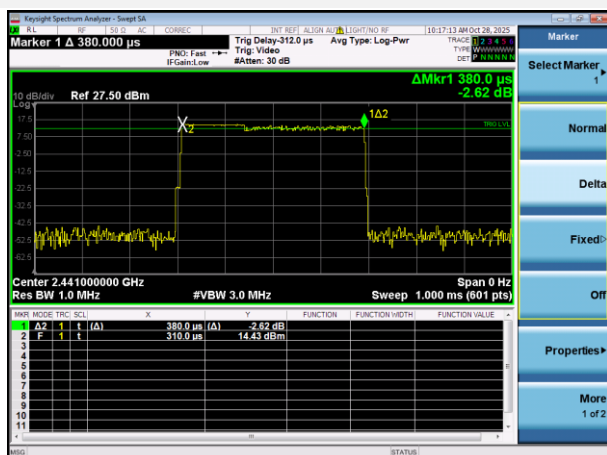
GFSK DH3



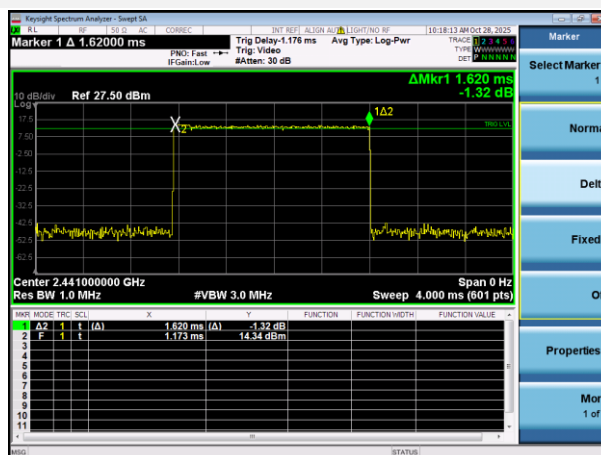
GFSK DH5



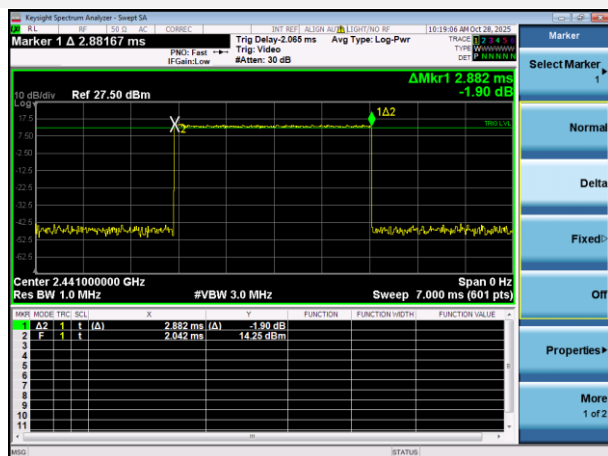
8-DPSK DH1



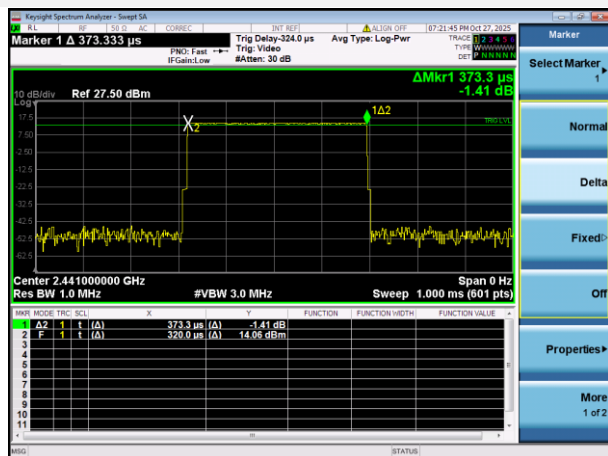
8-DPSK DH3



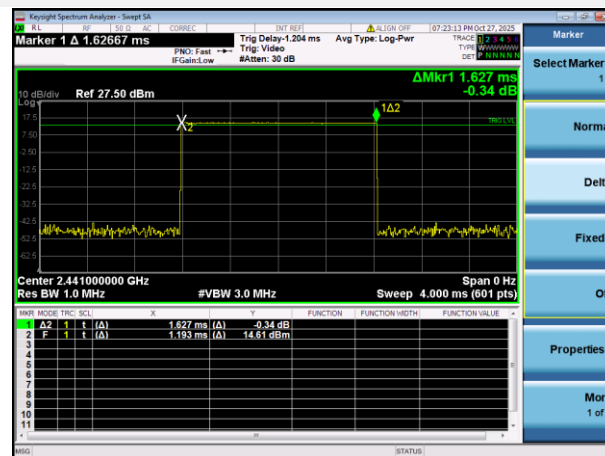
8-DPSK DH5



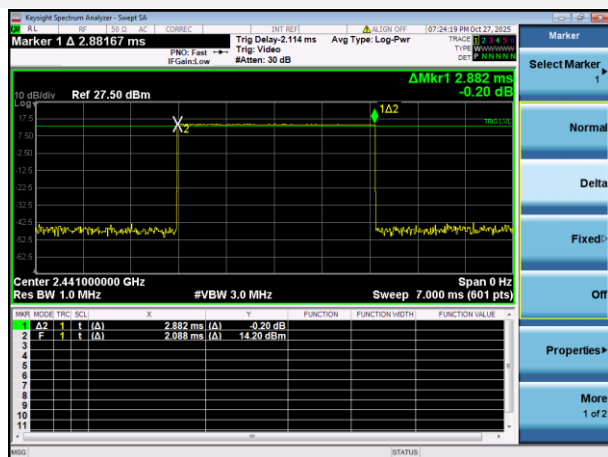
AFH Mode DH1



AFH Mode DH3

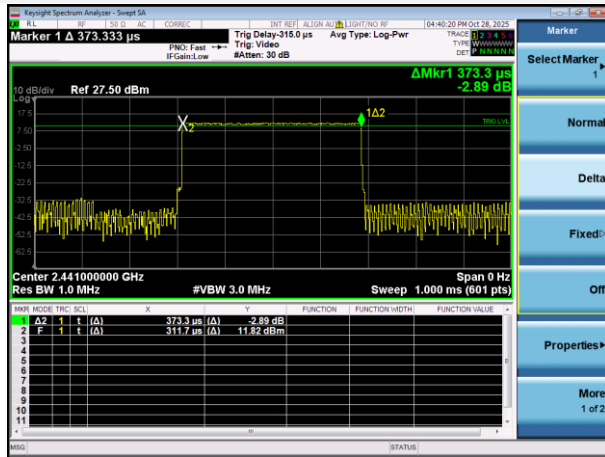


AFH Mode DH5

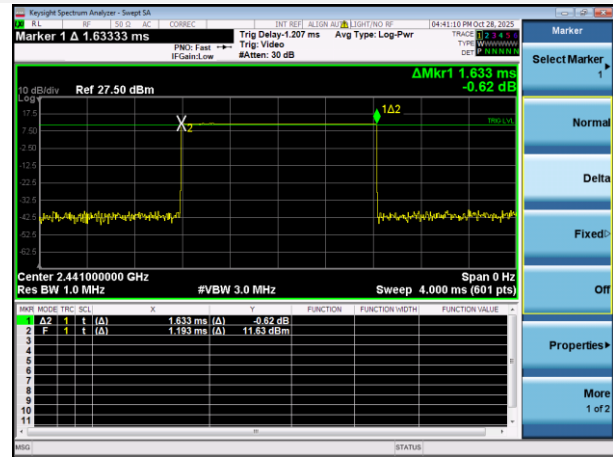


Aux. Antenna

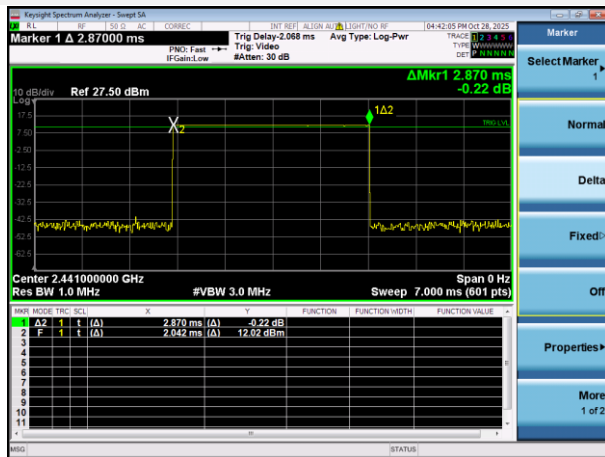
GFSK DH1



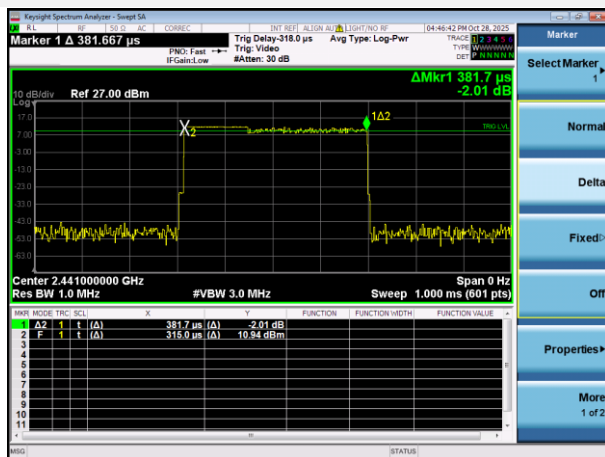
GFSK DH3



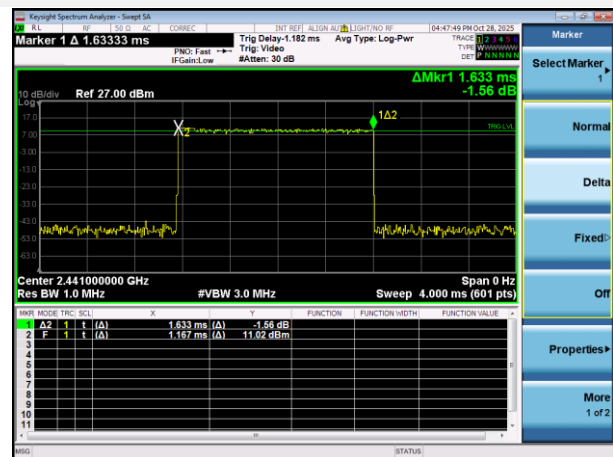
GFSK DH5



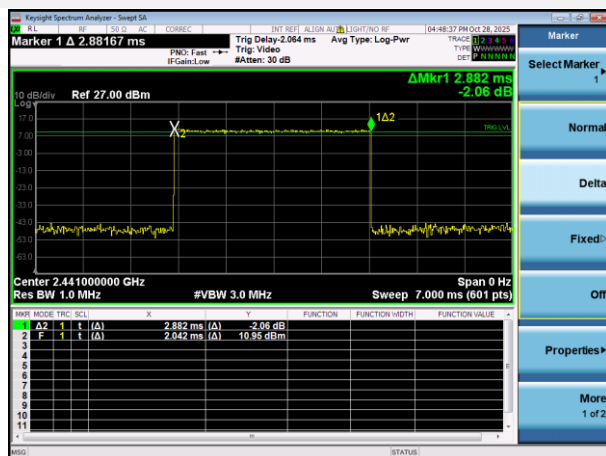
8-DPSK DH1



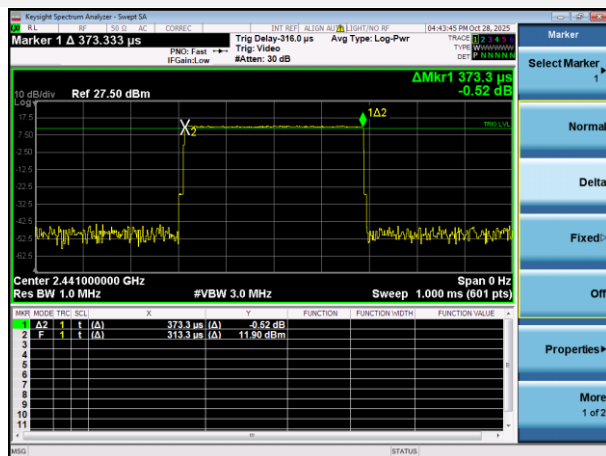
8-DPSK DH3



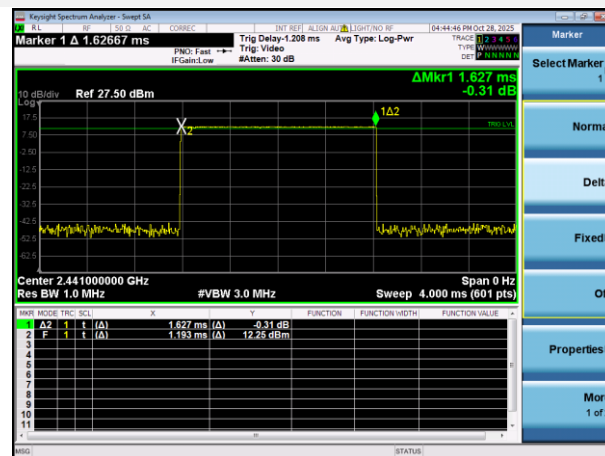
8-DPSK DH5



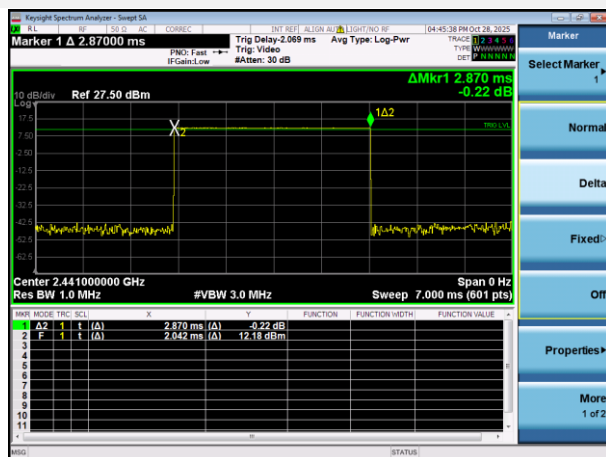
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

Main Antenna

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-25.98	13.21	-6.79	Pass
Middle	-25.47	13.49	-6.51	Pass
High	-23.77	12.51	-7.49	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-26.44	12.55	-7.45	Pass
Middle	-25.53	13.27	-6.73	Pass
High	-22.96	11.77	-8.23	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-25.75	14.82	-5.18	Pass
8-DPSK	-24.49	13.49	-6.51	Pass

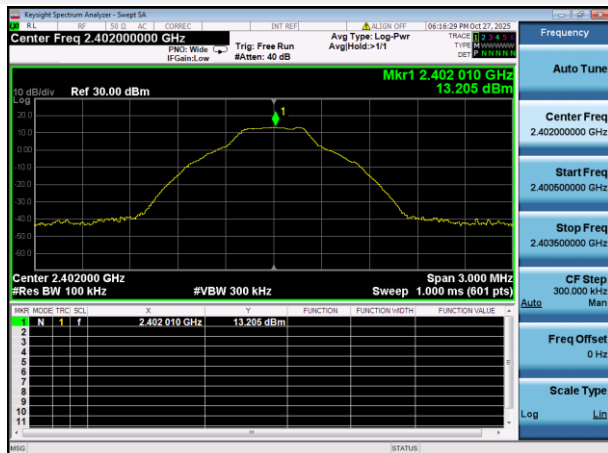
Aux. Antenna

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-25.56	13.43	-6.57	Pass
Middle	-25.28	13.91	-6.09	Pass
High	-25.30	13.78	-6.22	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.94	12.95	-7.05	Pass
Middle	-25.51	13.40	-6.60	Pass
High	-25.60	13.30	-6.70	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-23.71	16.65	-3.35	Pass
8-DPSK	-15.66	16.19	-3.81	Pass

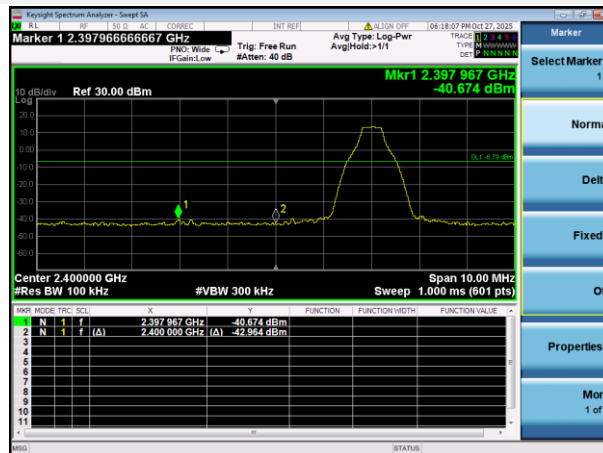
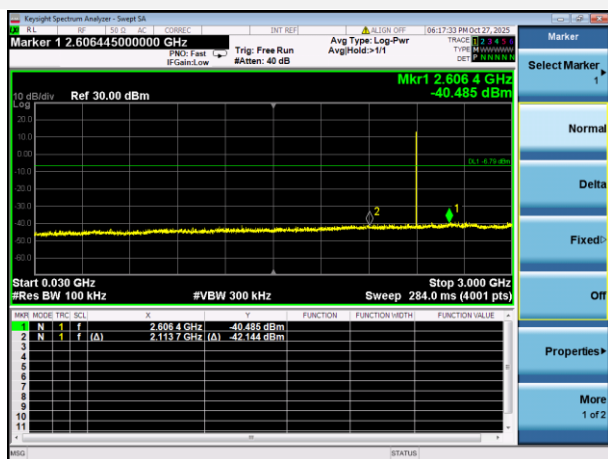
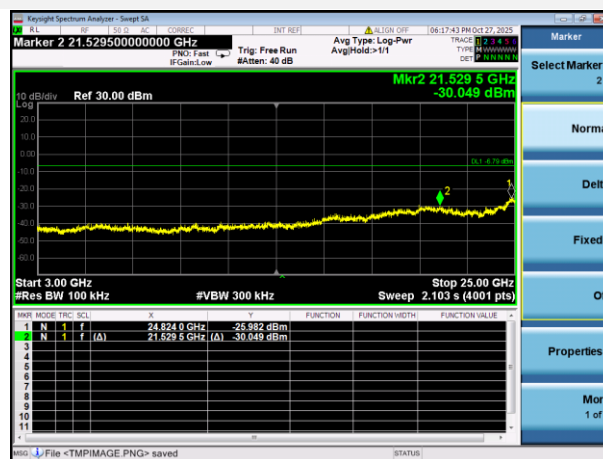
Test Plots

Main Antenna

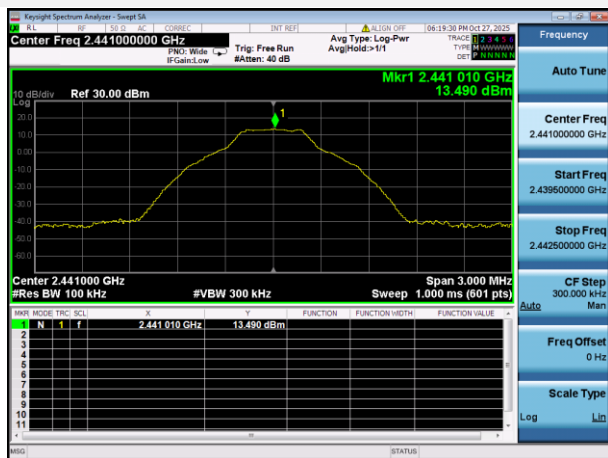
GFSK LOW CHANNEL, CARRIER LEVEL



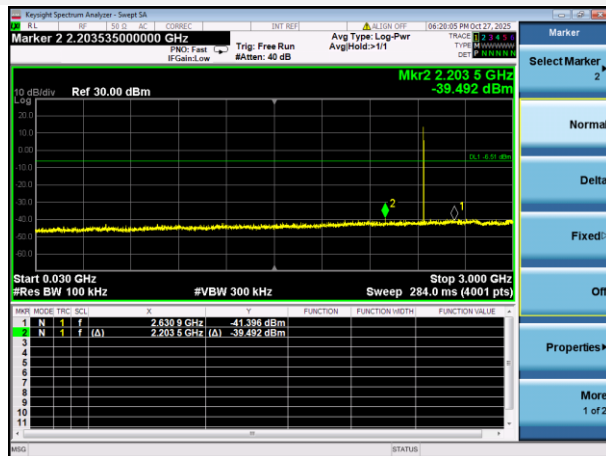
GFSK LOW CHANNEL, BAND EDGE

GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHzGFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

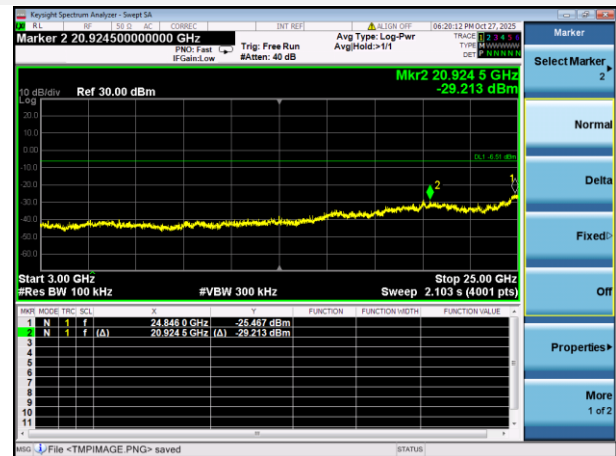
GFSK MIDDLE CHANNEL, CARRIER LEVEL



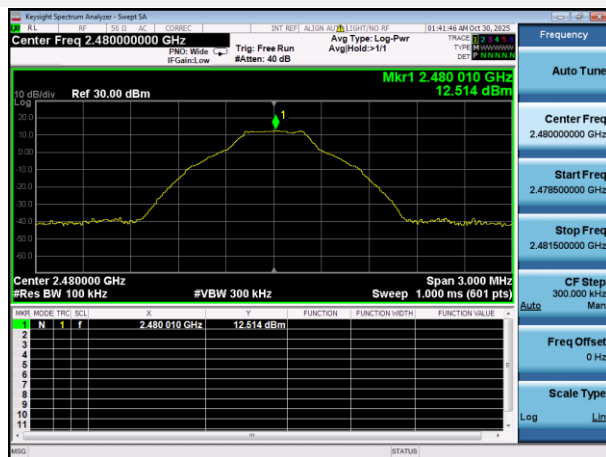
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



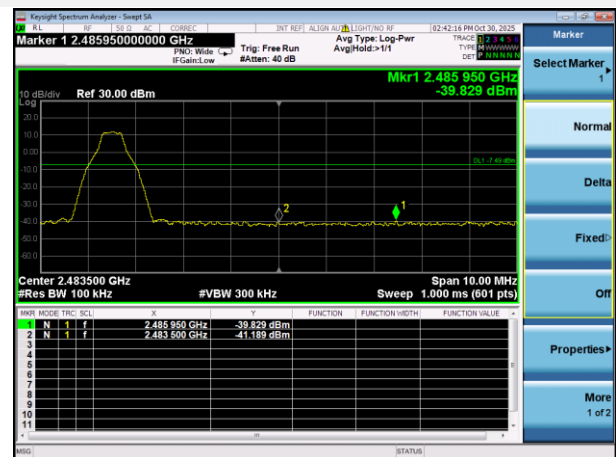
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



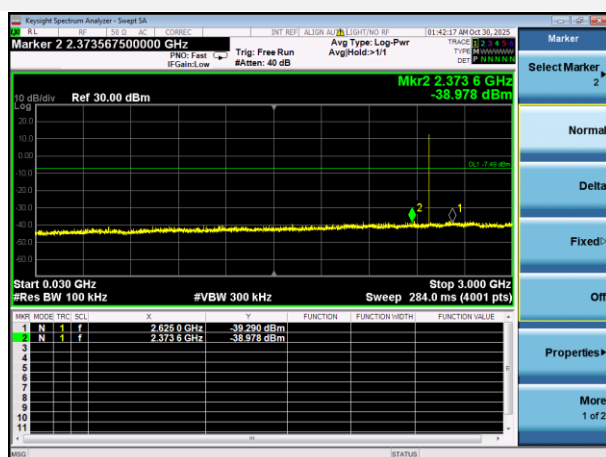
GFSK HIGH CHANNEL, CARRIER LEVEL



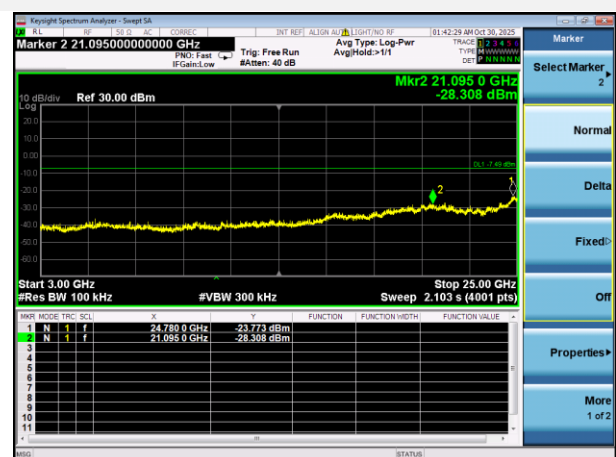
GFSK HIGH CHANNEL, BAND EDGE



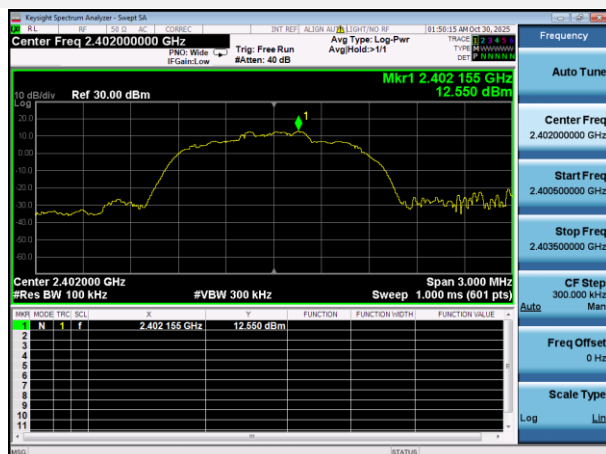
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



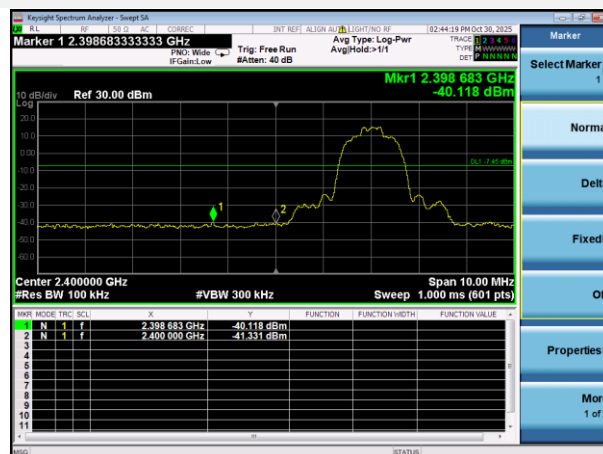
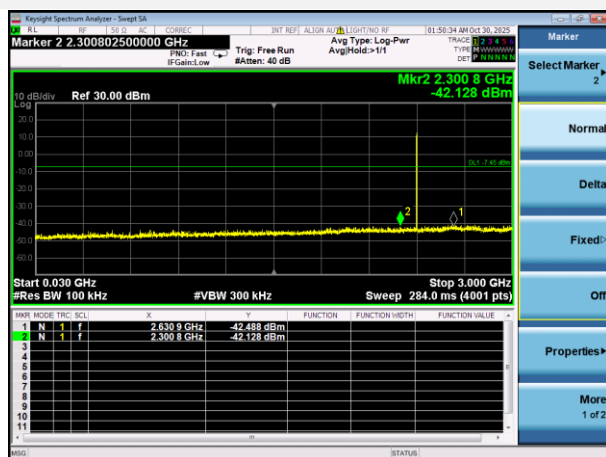
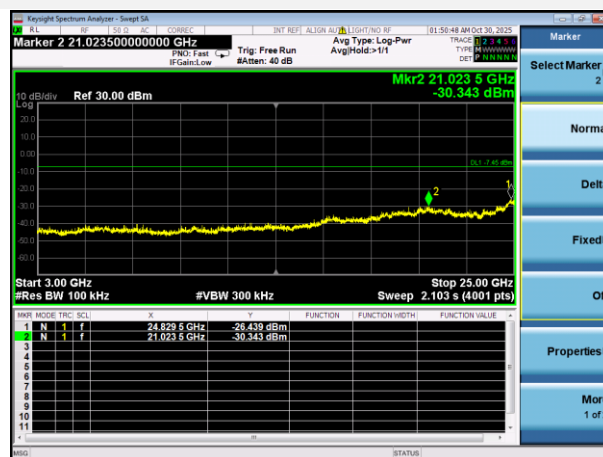
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



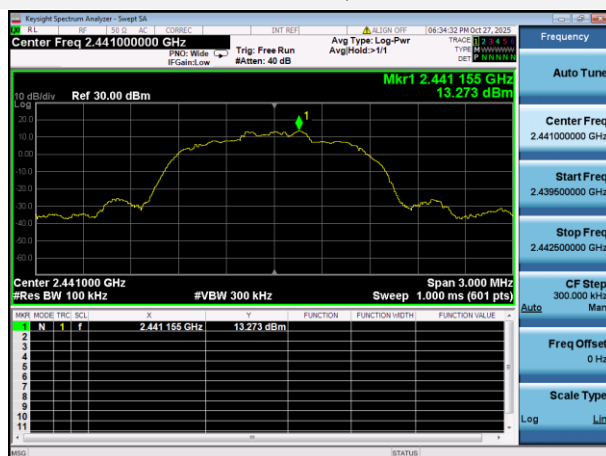
8-DPSK LOW CHANNEL, CARRIER LEVEL



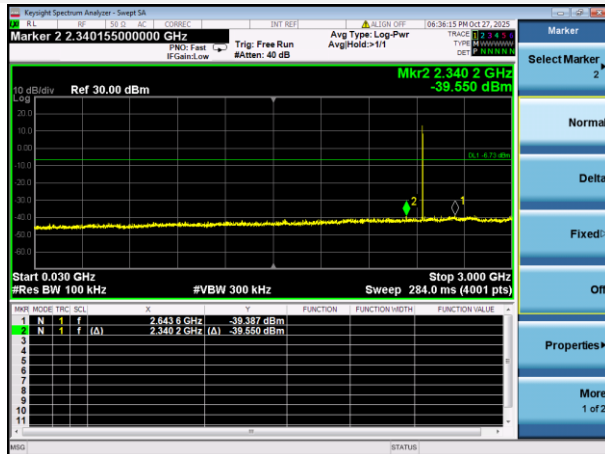
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



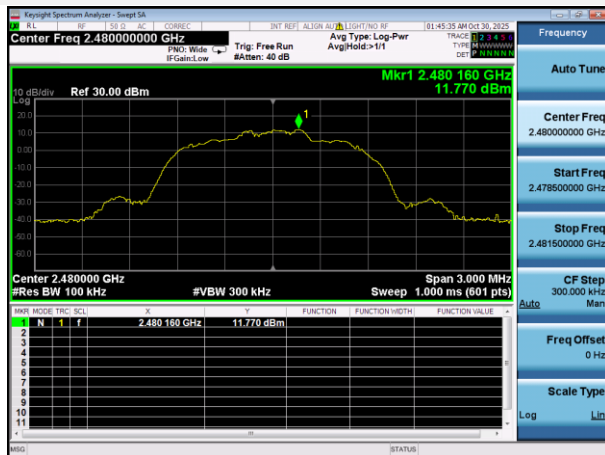
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



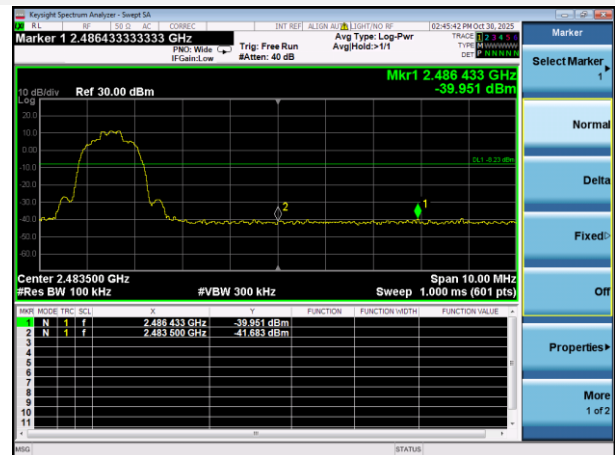
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



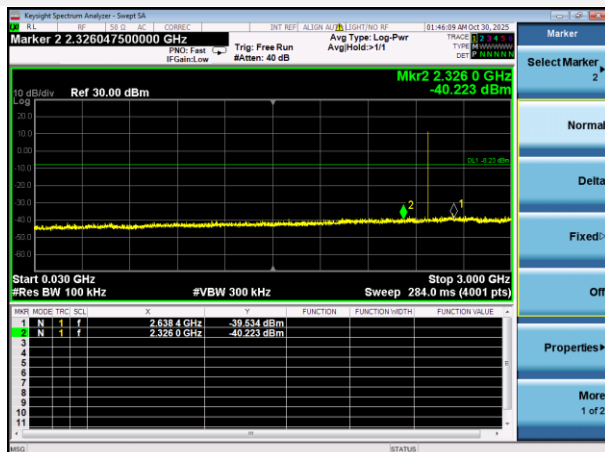
8-DPSK HIGH CHANNEL, CARRIER LEVEL



8-DPSK HIGH CHANNEL, BAND EDGE



8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz

