π/4-DQPSK HIGH CHANNEL

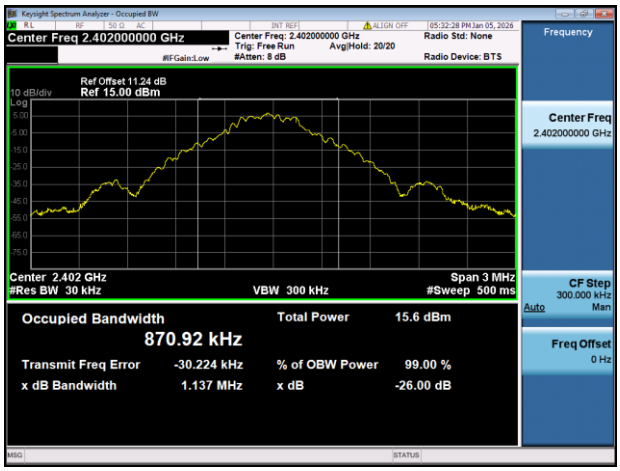
8-DPSK LOW CHANNEL

8-DPSK MIDDLE CHANNEL

8-DPSK HIGH CHANNEL

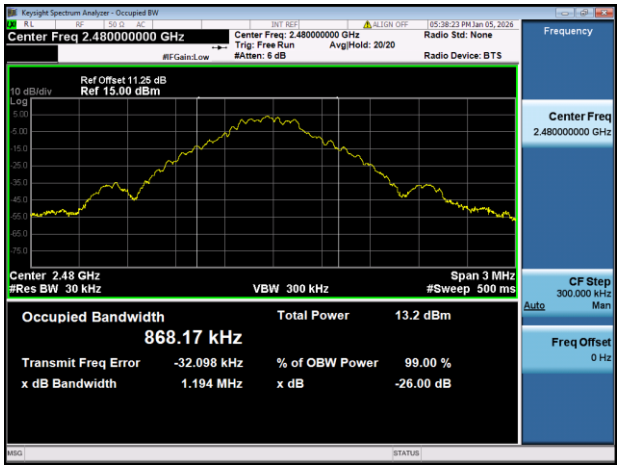
99% Bandwidth

GFSK LOW CHANNEL

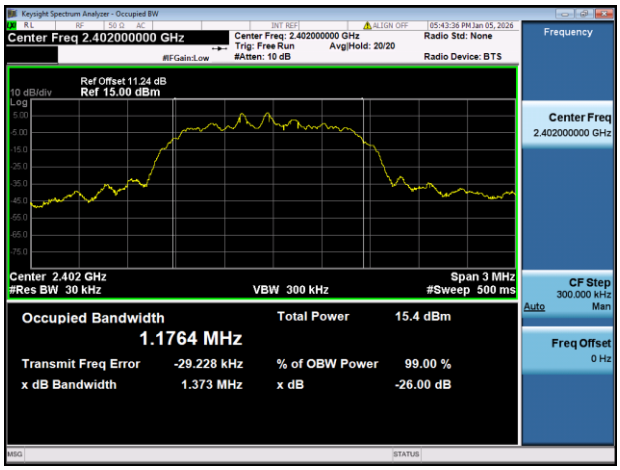


GFSK MIDDLE CHANNEL

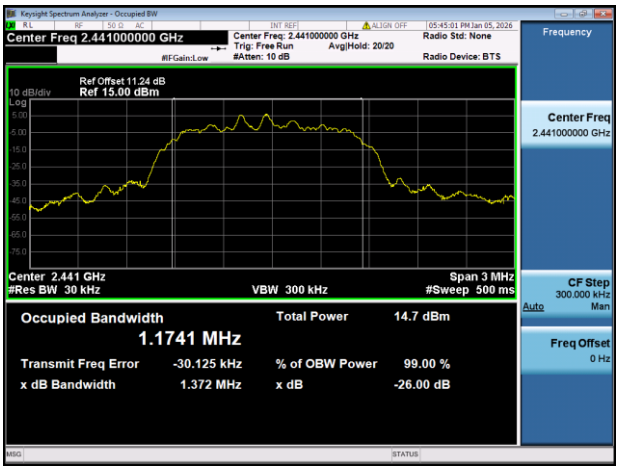
GFSK HIGH CHANNEL



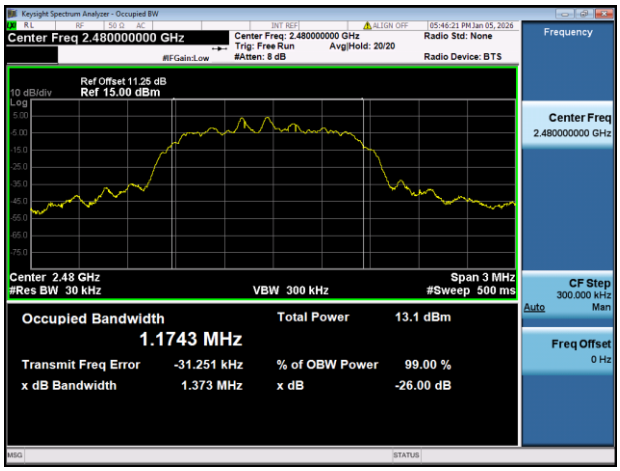
π/4-DQPSK LOW CHANNEL



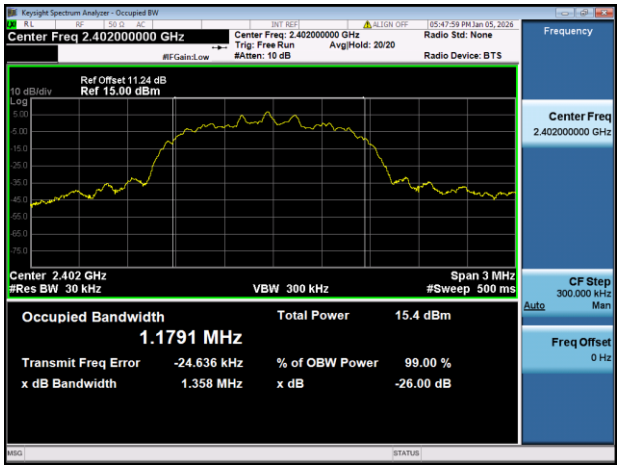
π/4-DQPSK MIDDLE CHANNEL



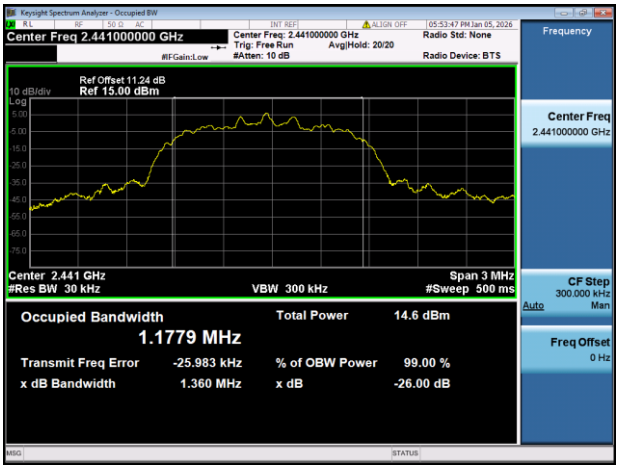
π/4-DQPSK HIGH CHANNEL



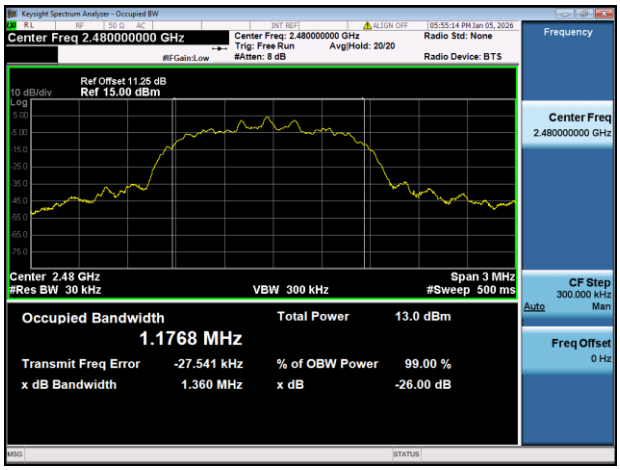
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.4 Hopping Frequency Separation

Test Data

Left Ear

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.640	Pass
8-DPSK	1.000	0.870	Pass

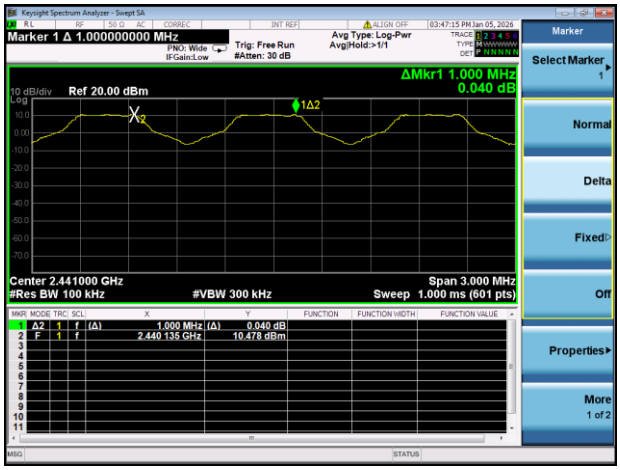
Right Ear

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.640	Pass
8-DPSK	1.000	0.865	Pass

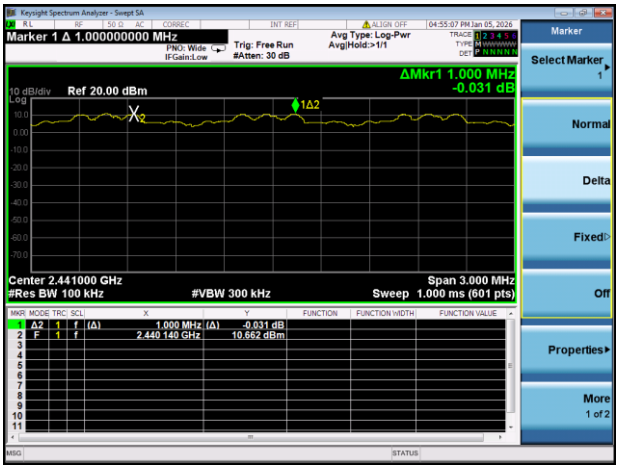
Test Plots

Left Ear

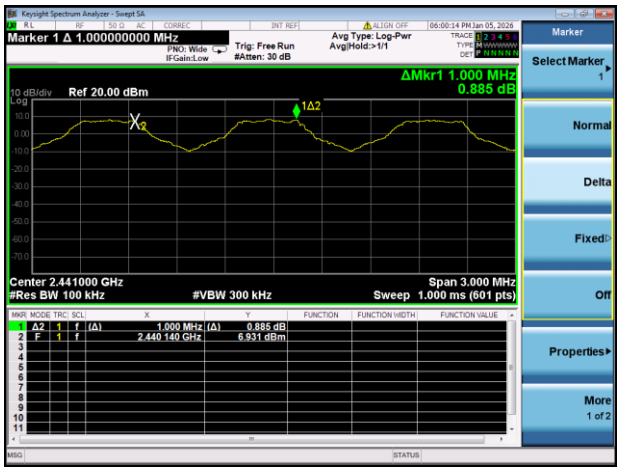
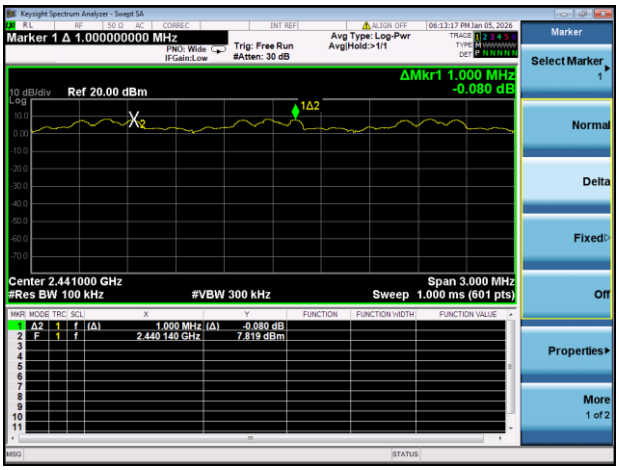
GFSK



8-DPSK



Right Ear

GFSK	8-DPSK
	

A.5 Average Time of Occupancy

Test Data

Left Ear

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38080	121.856	0.4	Pass
DH 3	1.63800	262.080	0.4	Pass
DH 5	2.88000	307.200	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.39040	124.928	0.4	Pass
3DH 3	1.63800	262.080	0.4	Pass
3DH 5	2.89200	308.480	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	61.184	0.4	Pass
DH 3	1.63800	131.040	0.4	Pass
DH 5	2.88000	153.600	0.4	Pass

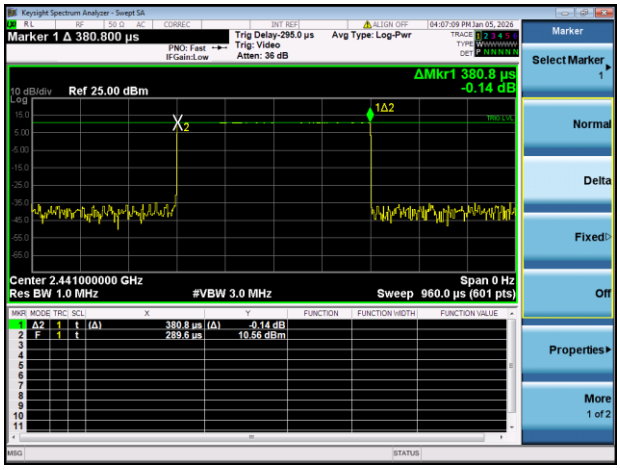
Right Ear

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38080	121.856	0.4	Pass
DH 3	1.63800	262.080	0.4	Pass
DH 5	2.88000	307.200	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.39040	124.928	0.4	Pass
3DH 3	1.64500	263.200	0.4	Pass
3DH 5	2.89200	308.480	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	61.184	0.4	Pass
DH 3	1.63800	131.040	0.4	Pass
DH 5	2.89200	154.240	0.4	Pass

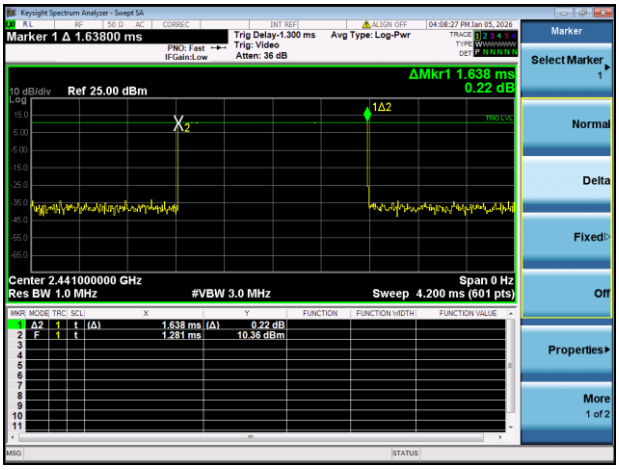
Test Plots

Left Ear

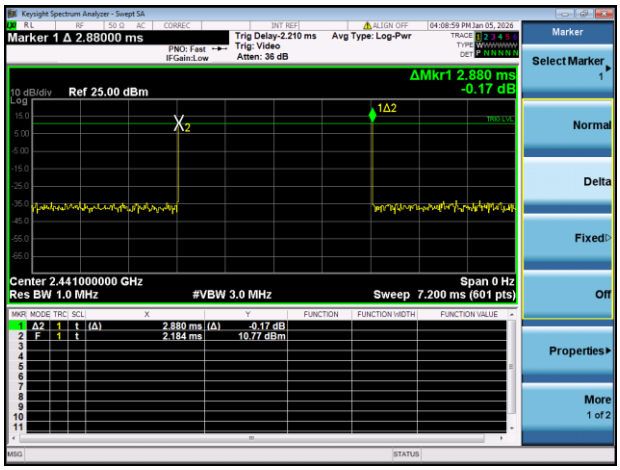
GFSK DH1



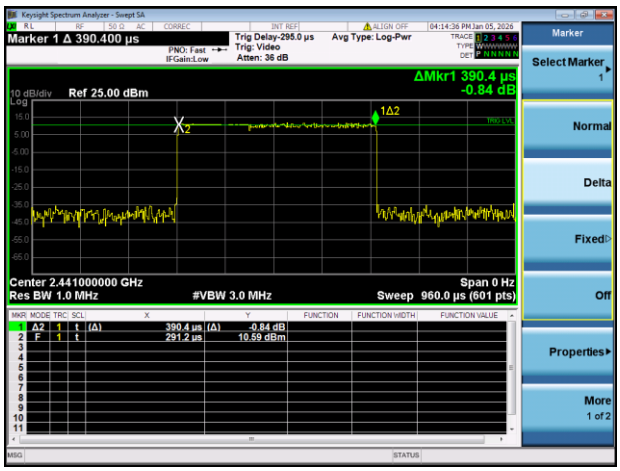
GFSK DH3



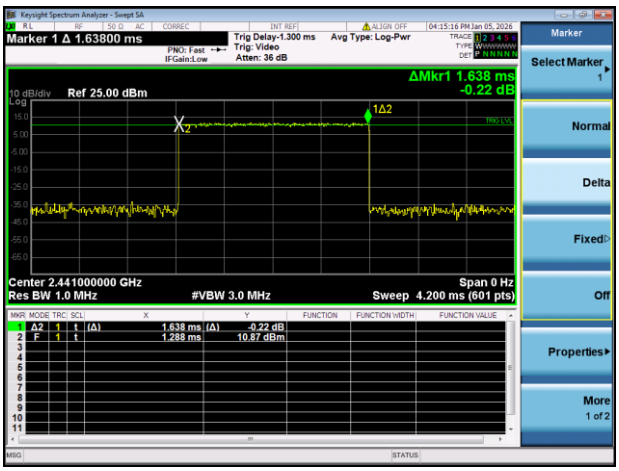
GFSK DH5



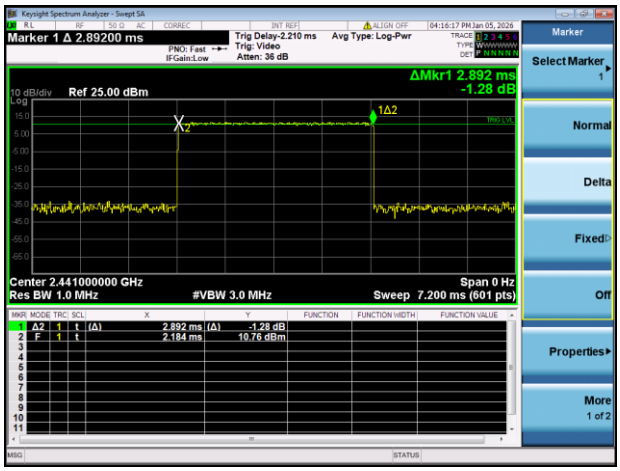
8-DPSK 3DH1



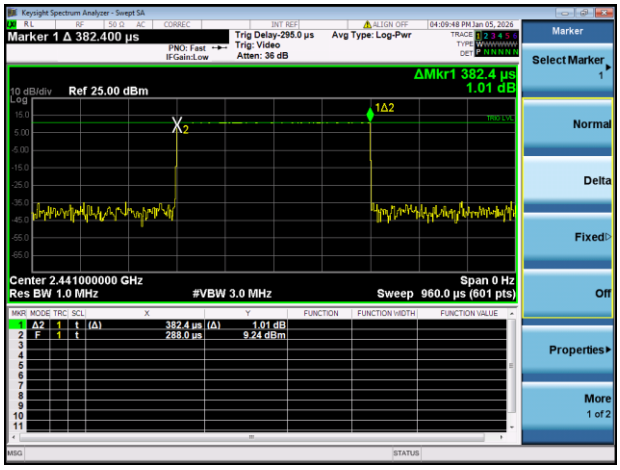
8-DPSK 3DH3



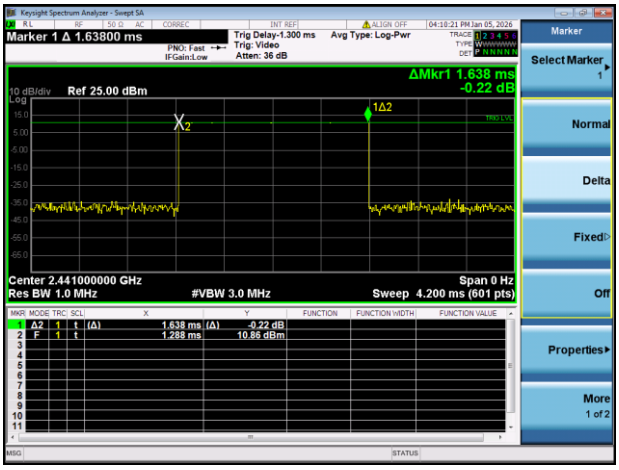
8-DPSK 3DH5



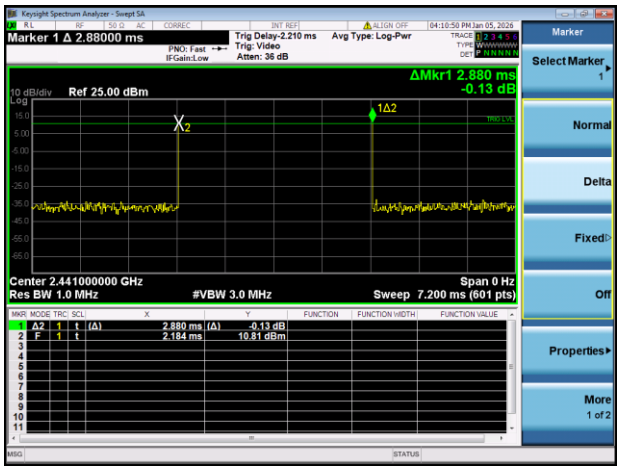
AFH Mode DH1



AFH Mode DH3

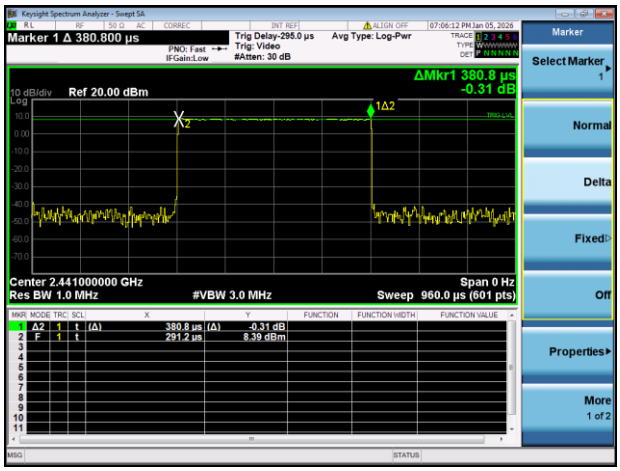


AFH Mode DH5

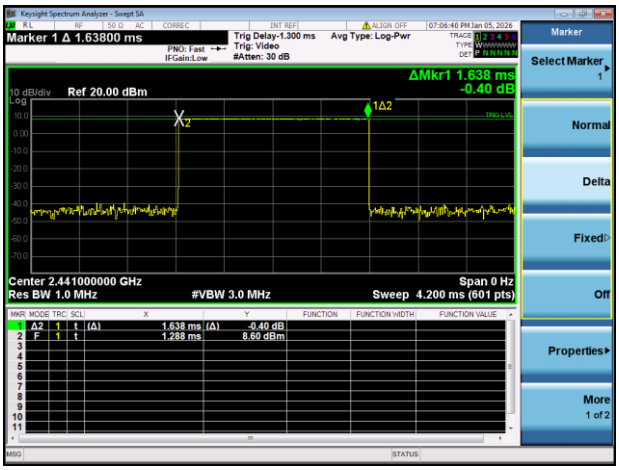


Right Ear

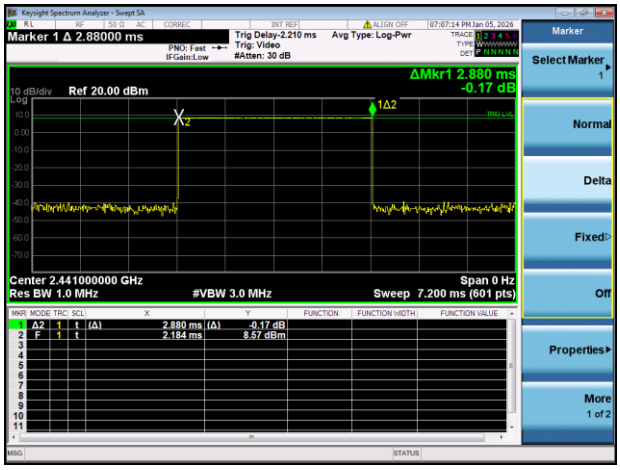
GFSK DH1



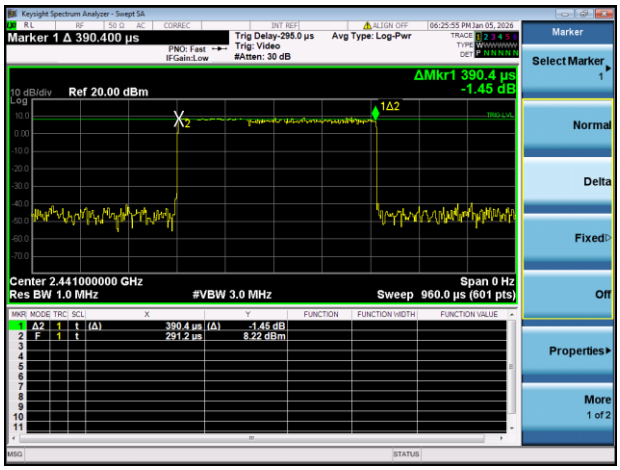
GFSK DH3



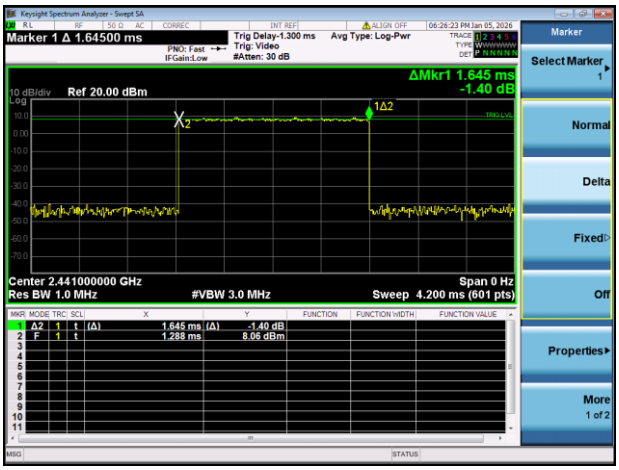
GFSK DH5



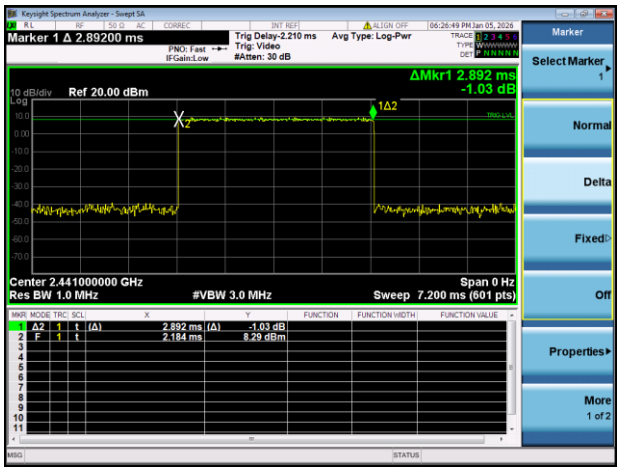
8-DPSK 3DH1



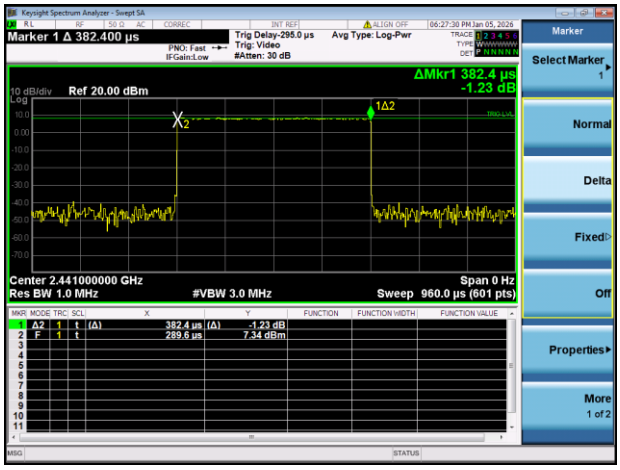
8-DPSK 3DH3



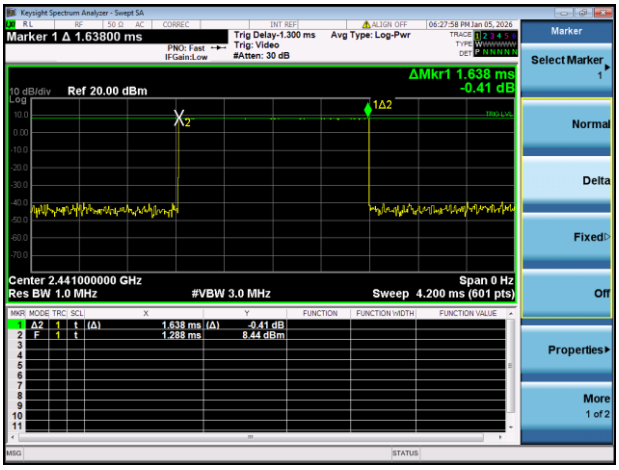
8-DPSK 3DH5



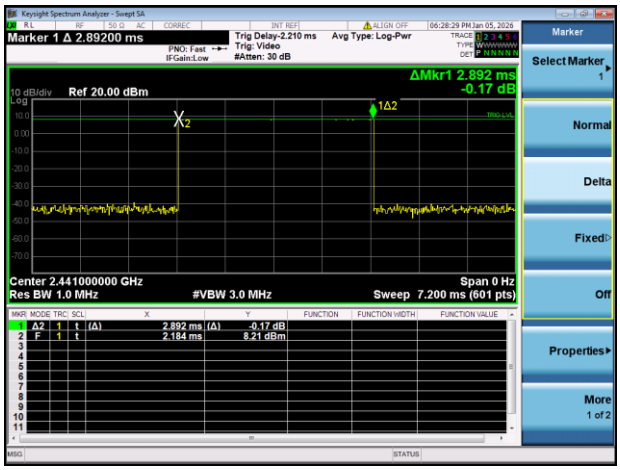
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

Left Ear

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.00	-2.80	-22.80	Pass
Middle	-33.28	-2.29	-22.29	Pass
High	-39.64	-2.05	-22.05	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-39.31	2.04	-17.96	Pass
Middle	-37.18	2.36	-17.64	Pass
High	-37.08	2.43	-17.57	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-40.70	-2.03	-22.03	Pass
8-DPSK	-36.61	2.51	-17.49	Pass

Right Ear

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.15	0.06	-19.94	Pass
Middle	-32.14	-0.28	-20.28	Pass
High	-31.91	-1.37	-21.37	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.60	0.05	-19.95	Pass
Middle	-33.23	-0.27	-20.27	Pass
High	-32.46	2.23	-17.77	Pass

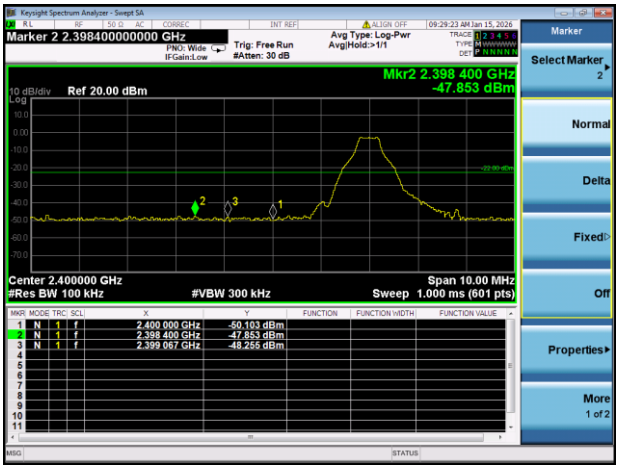
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-39.62	-0.04	-20.04	Pass
8-DPSK	-35.79	-0.35	-20.35	Pass

Test Plots

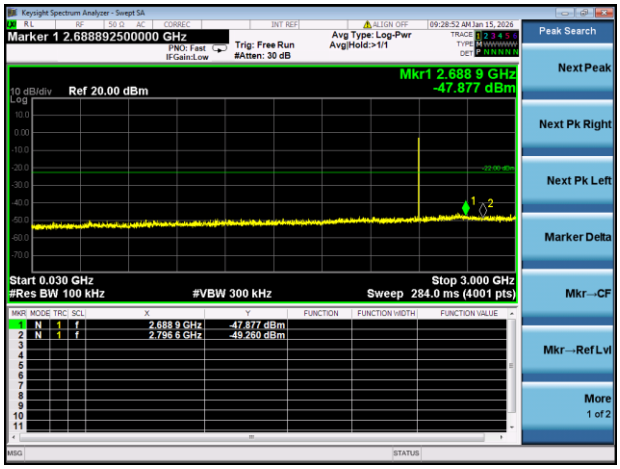
Left Ear

GFSK LOW CHANNEL, CARRIER LEVEL

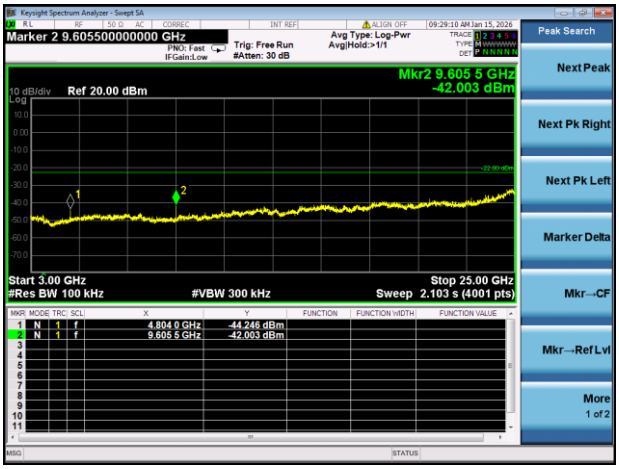
GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

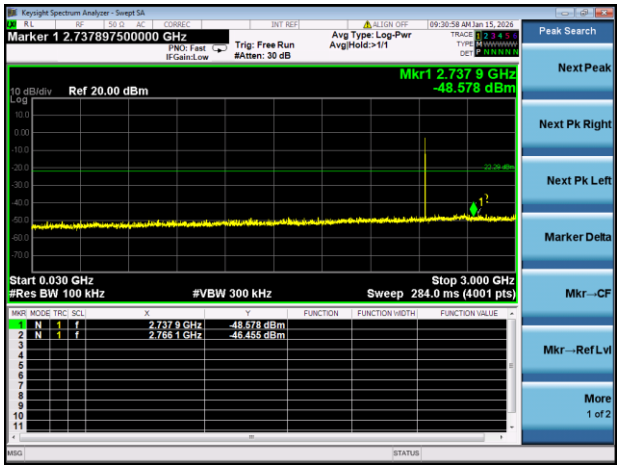


GFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

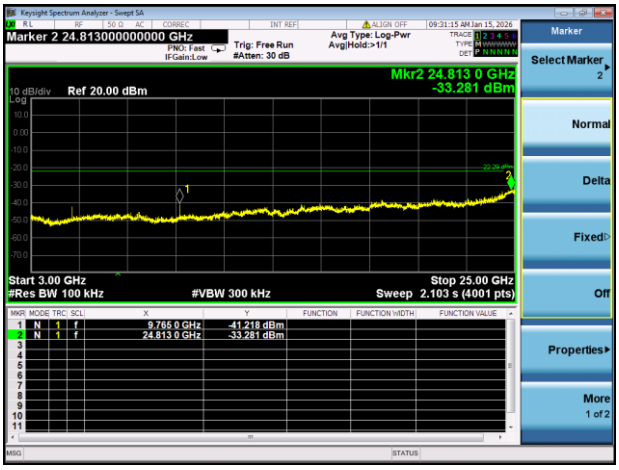


GFSK MIDDLE CHANNEL, CARRIER LEVEL

GFSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

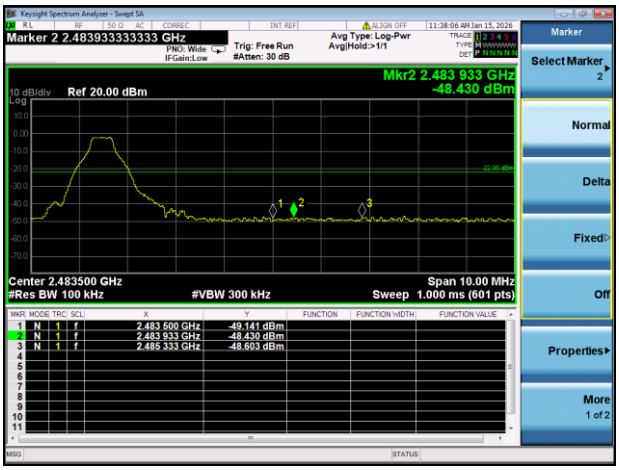


GFSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

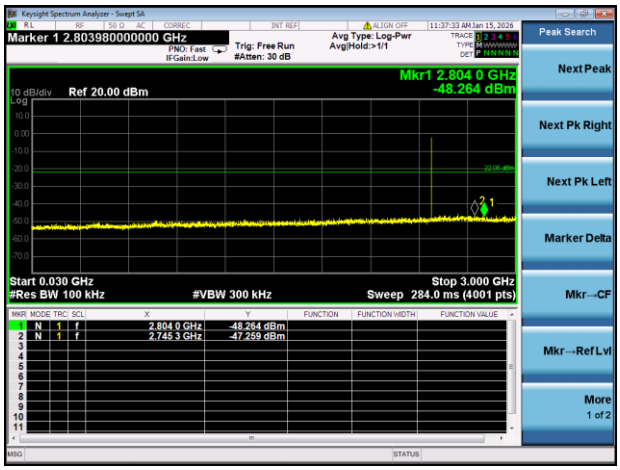


GFSK HIGH CHANNEL, CARRIER LEVEL

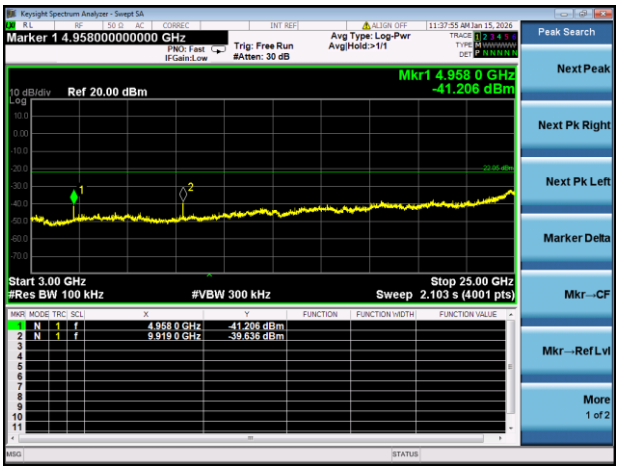
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

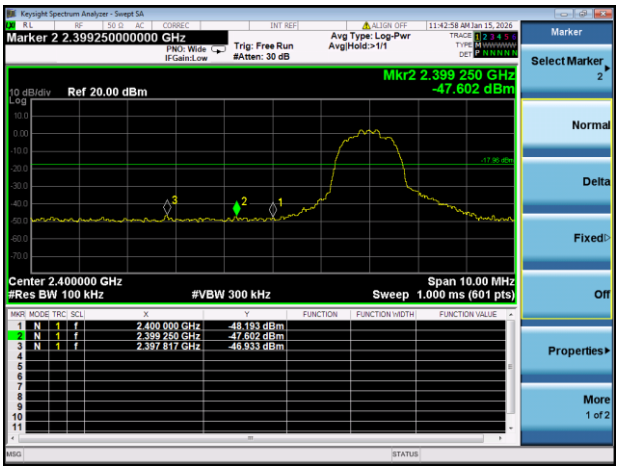


GFSK HIGH CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

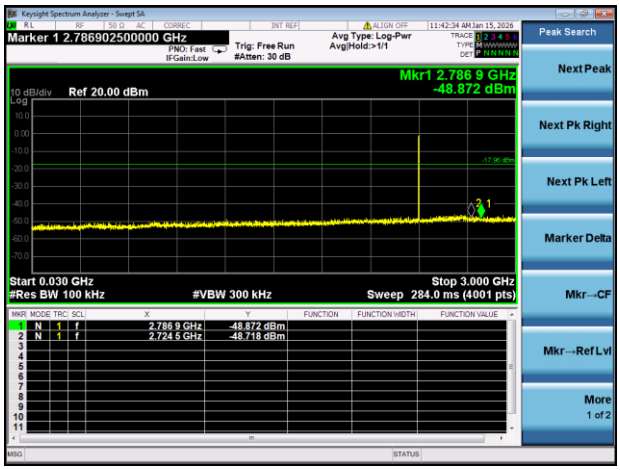


8-DPSK LOW CHANNEL, CARRIER LEVEL

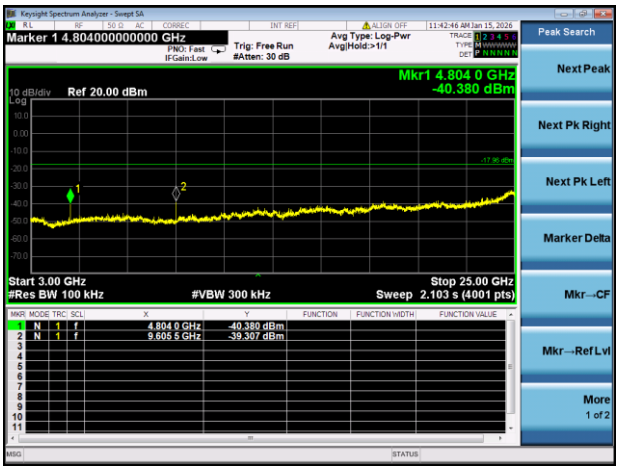
8-DPSK LOW CHANNEL, BAND EDGE



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

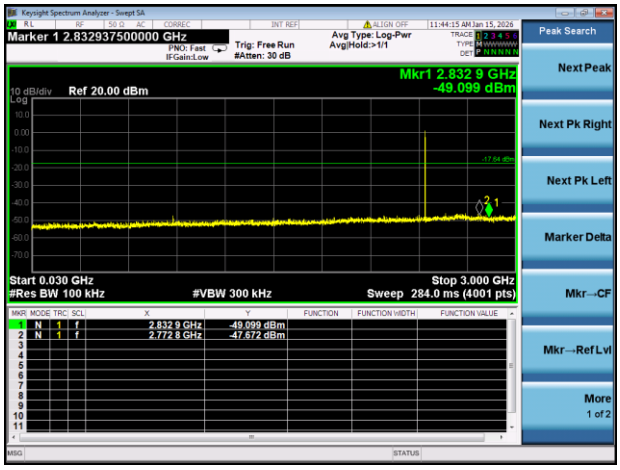


8-DPSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz

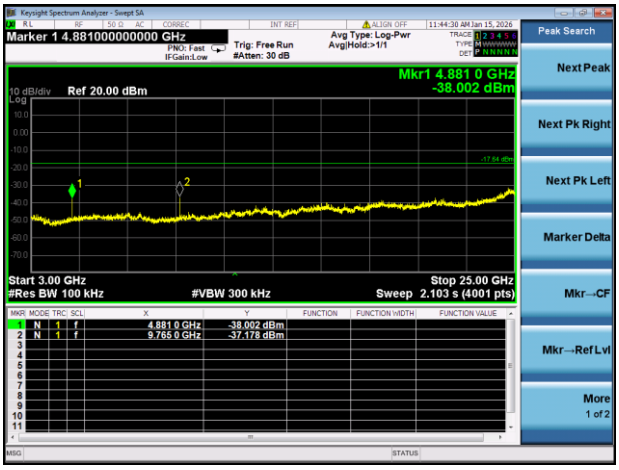


8-DPSK MIDDLE CHANNEL, CARRIER LEVEL

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

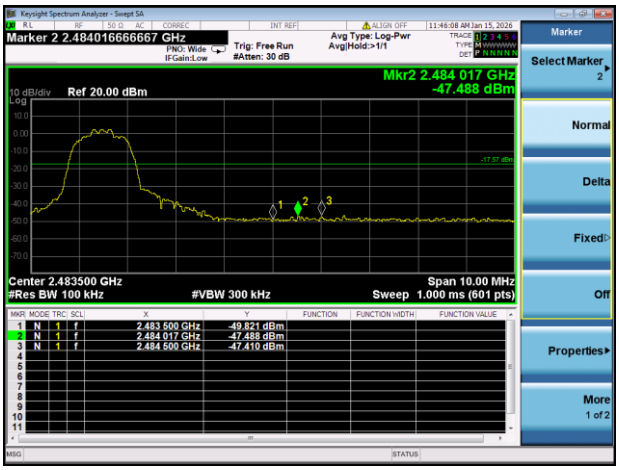


8-DPSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

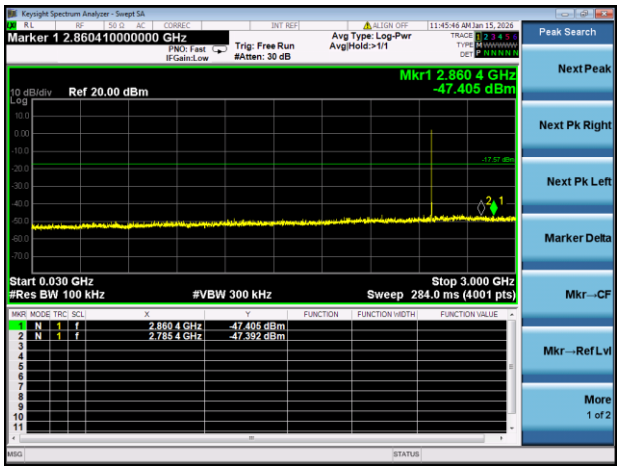
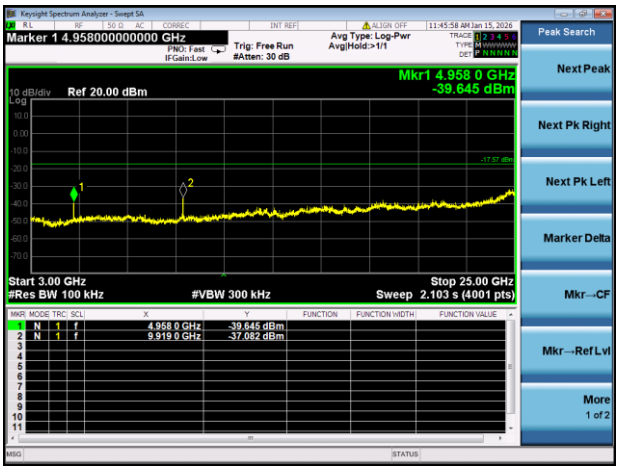


8-DPSK HIGH CHANNEL, CARRIER LEVEL

8-DPSK HIGH CHANNEL, BAND EDGE



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



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