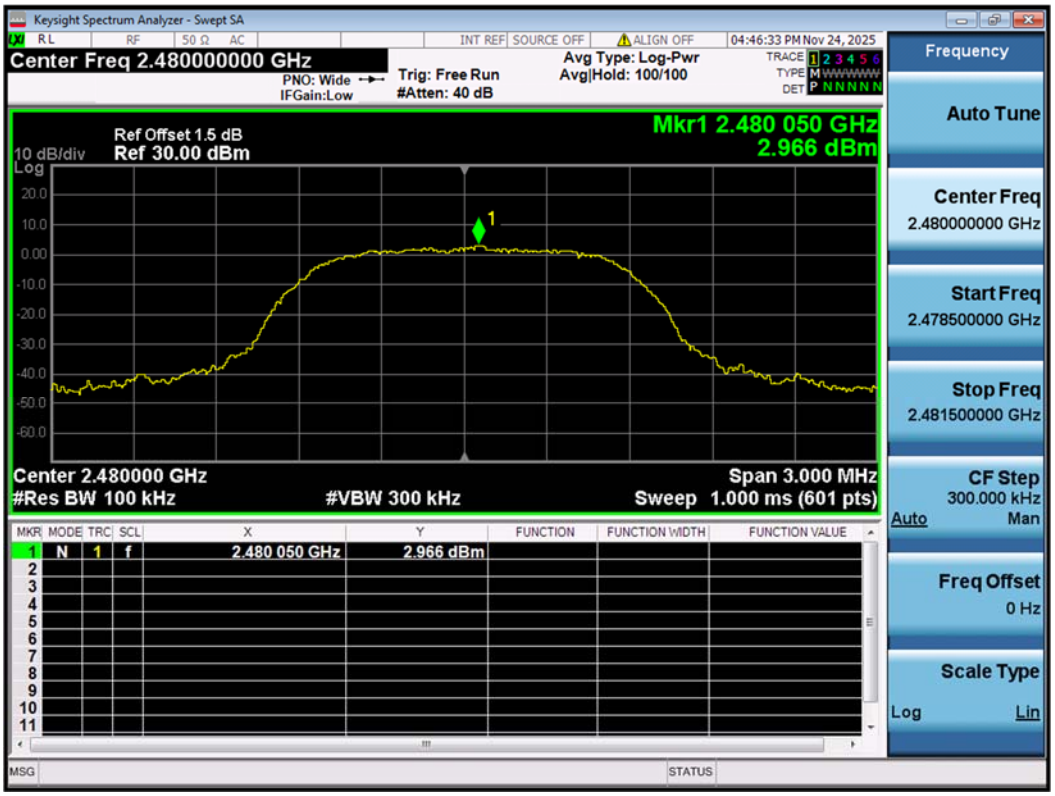
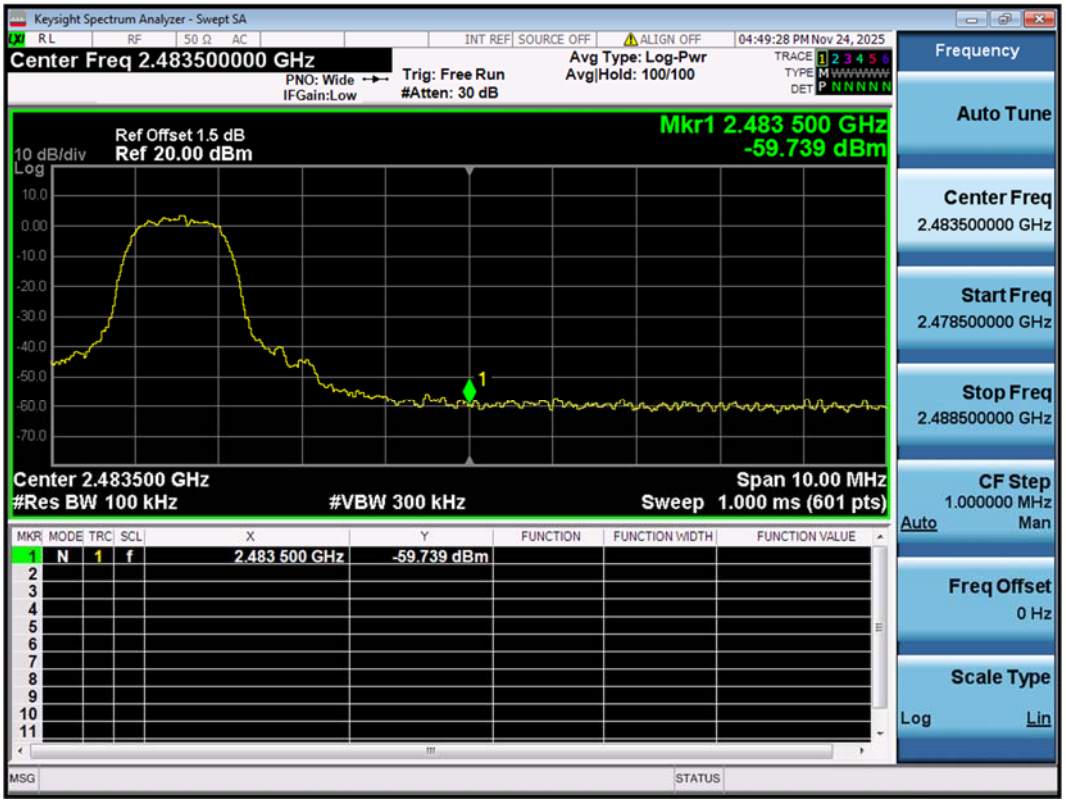
Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, π/4-DQPSK

Carrier Level



Band Edge



Conducted spurious emissions 30MHz-25GHz

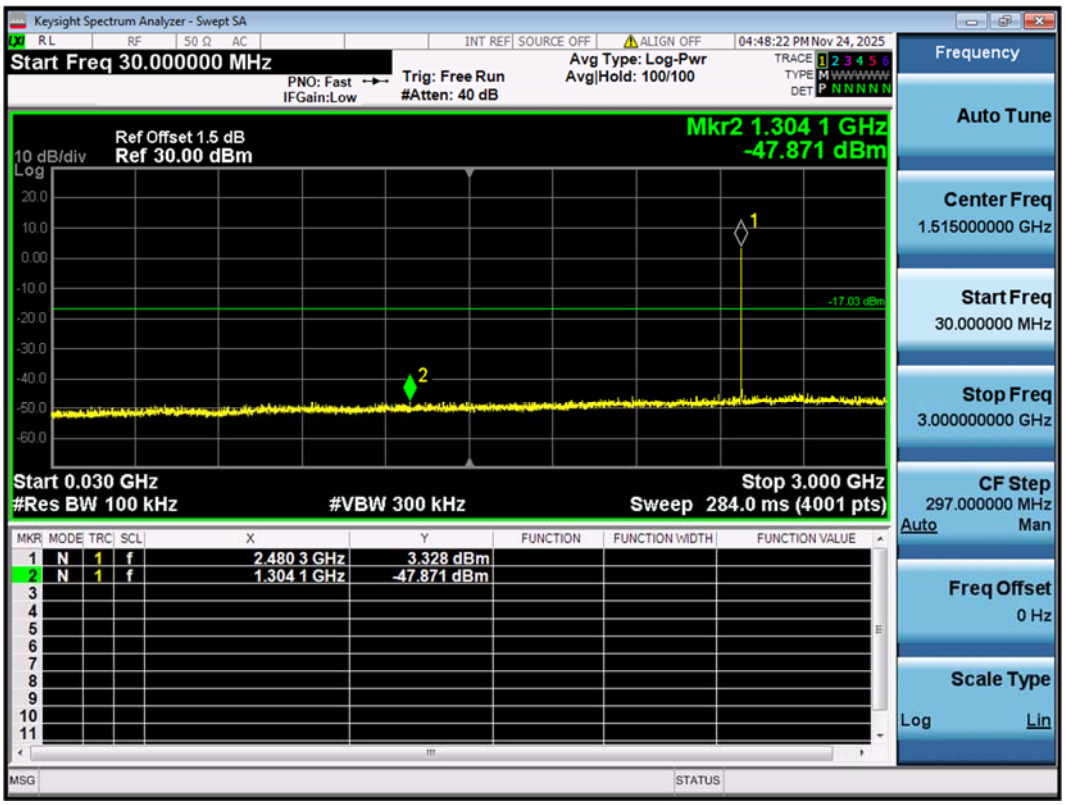
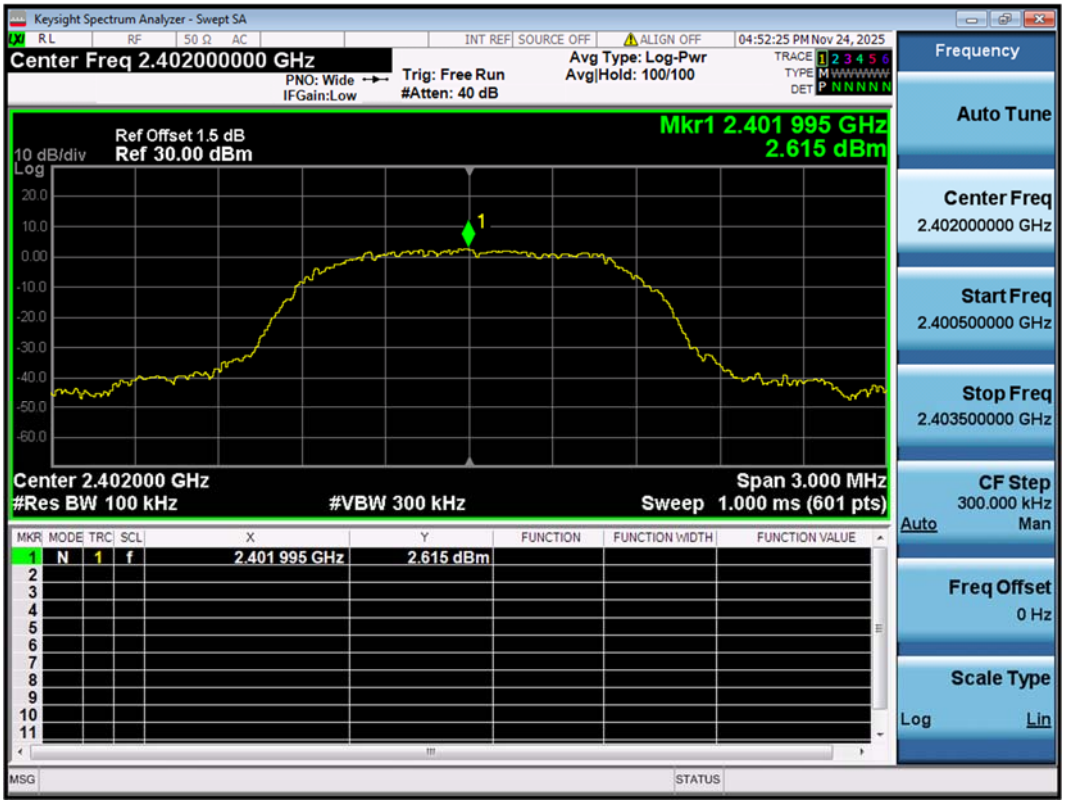
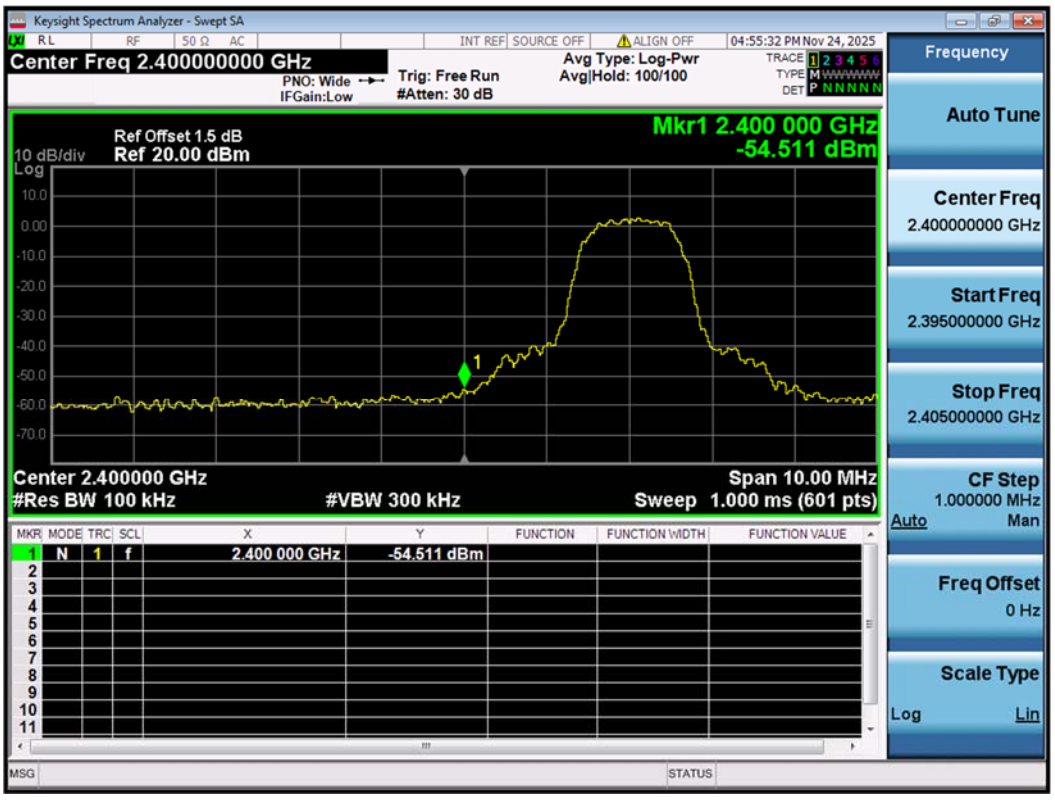


Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK

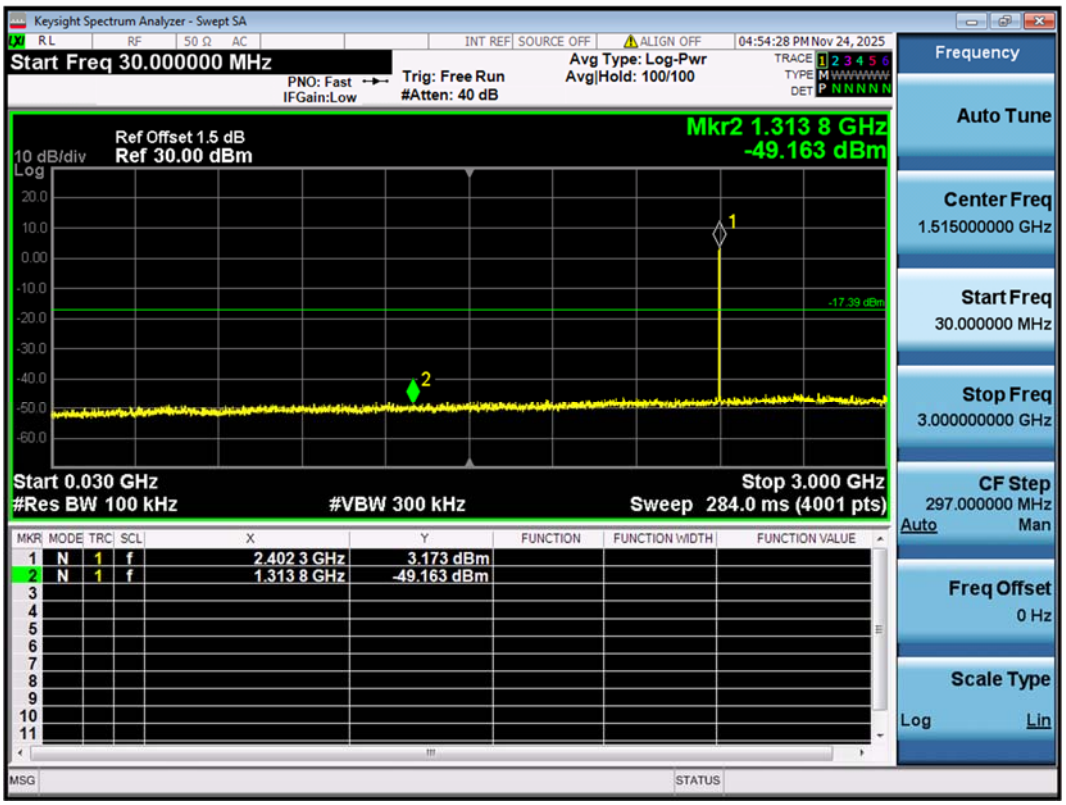
Carrier Level



Band Edge



Conducted spurious emissions 30MHz-25GHz



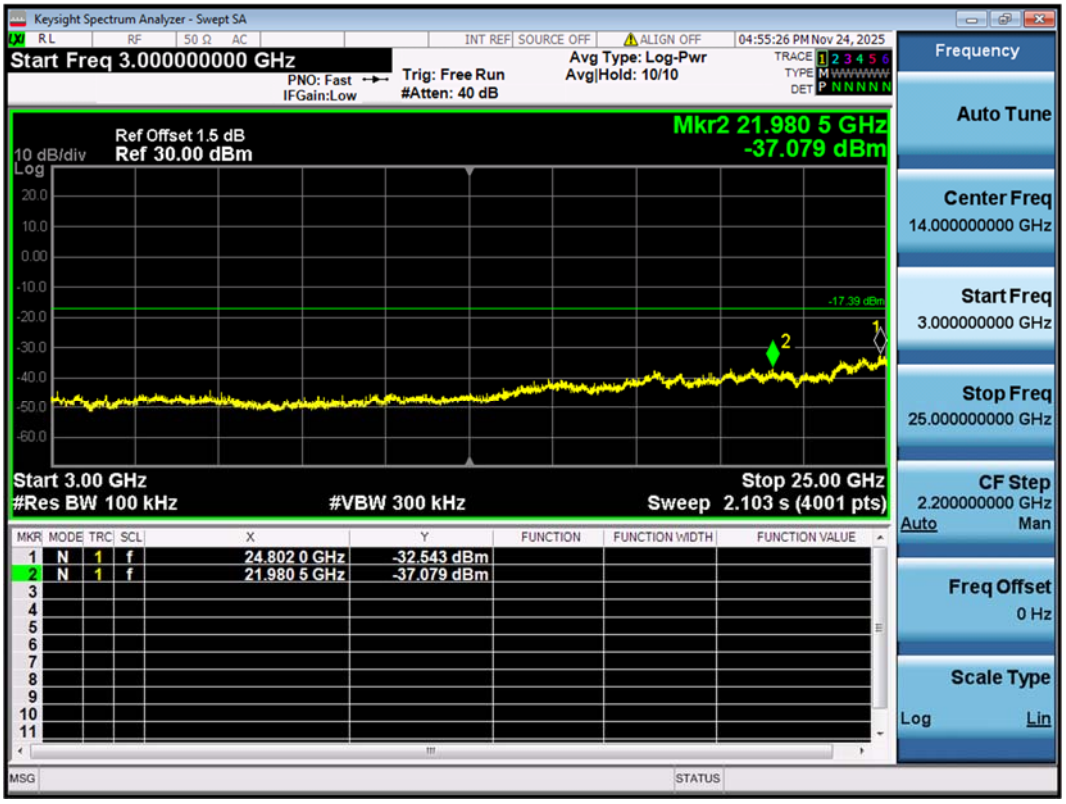
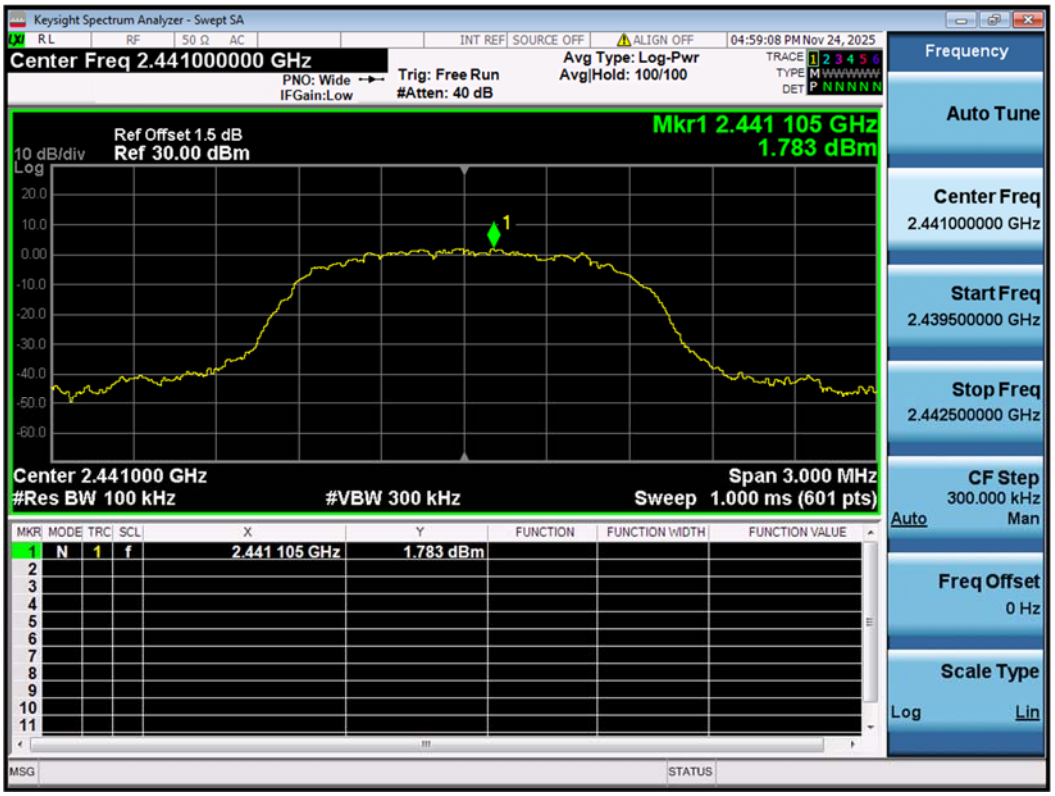


Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK

Carrier Level



Conducted spurious emissions 30MHz-25GHz

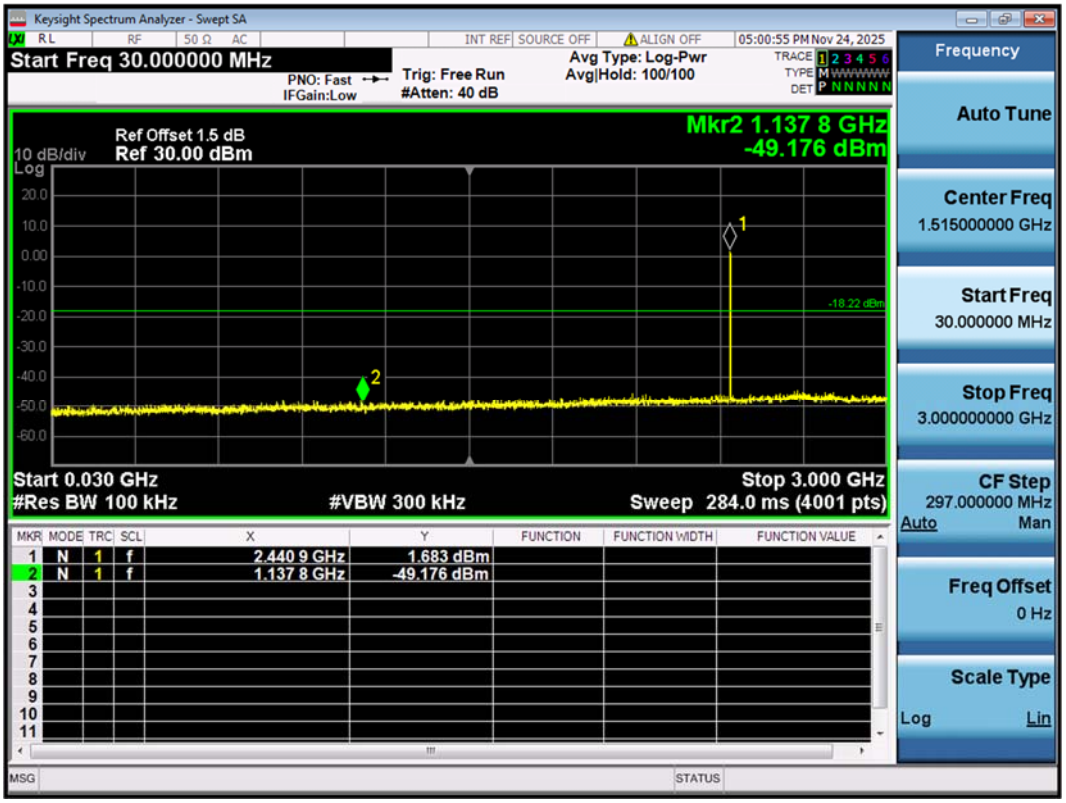
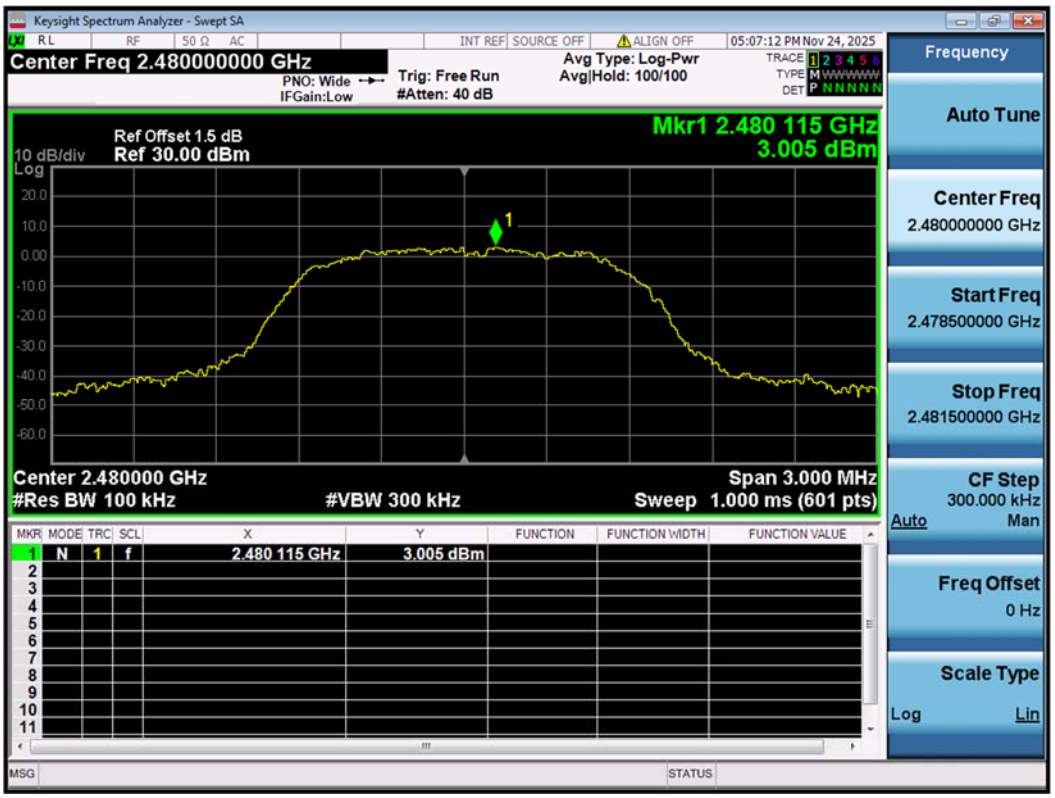
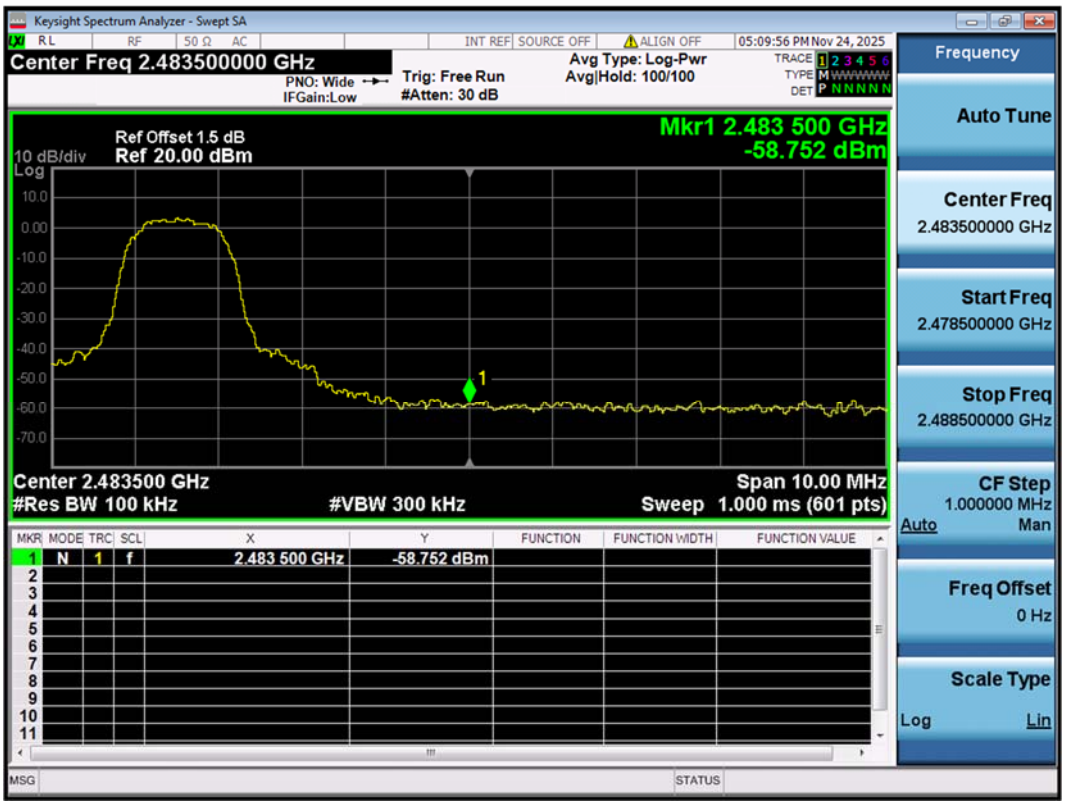


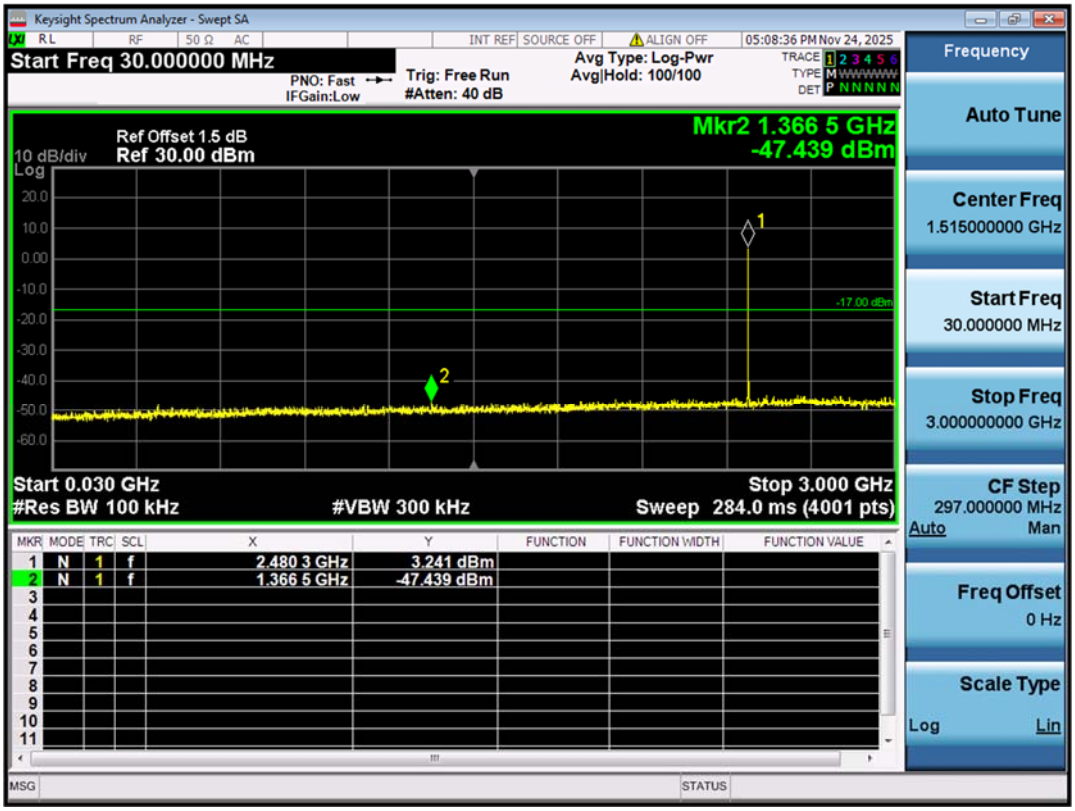
Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Carrier Level



Band Edge



Conducted spurious emissions 30MHz-25GHz



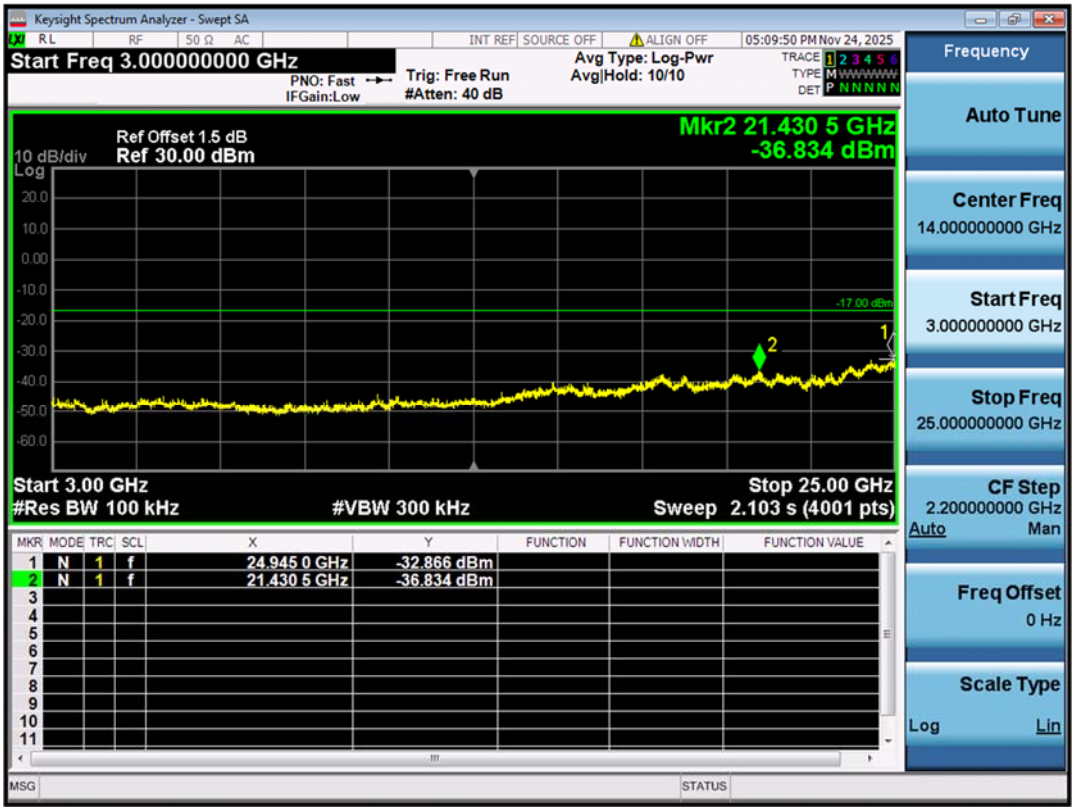
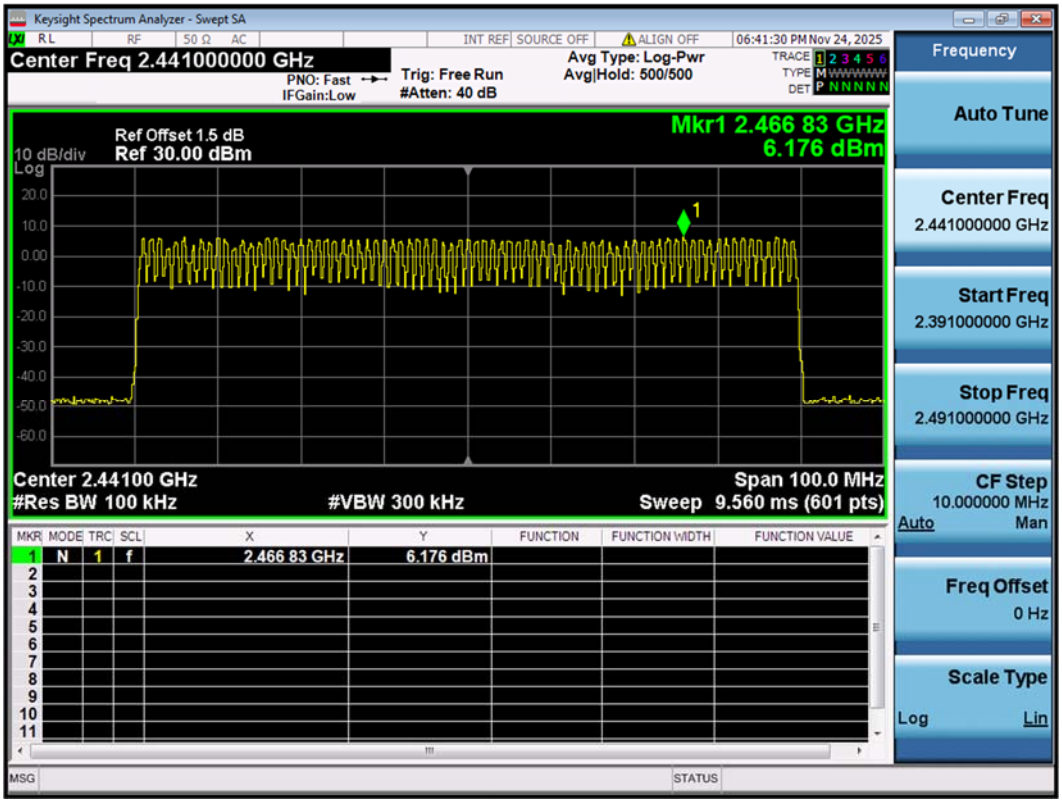
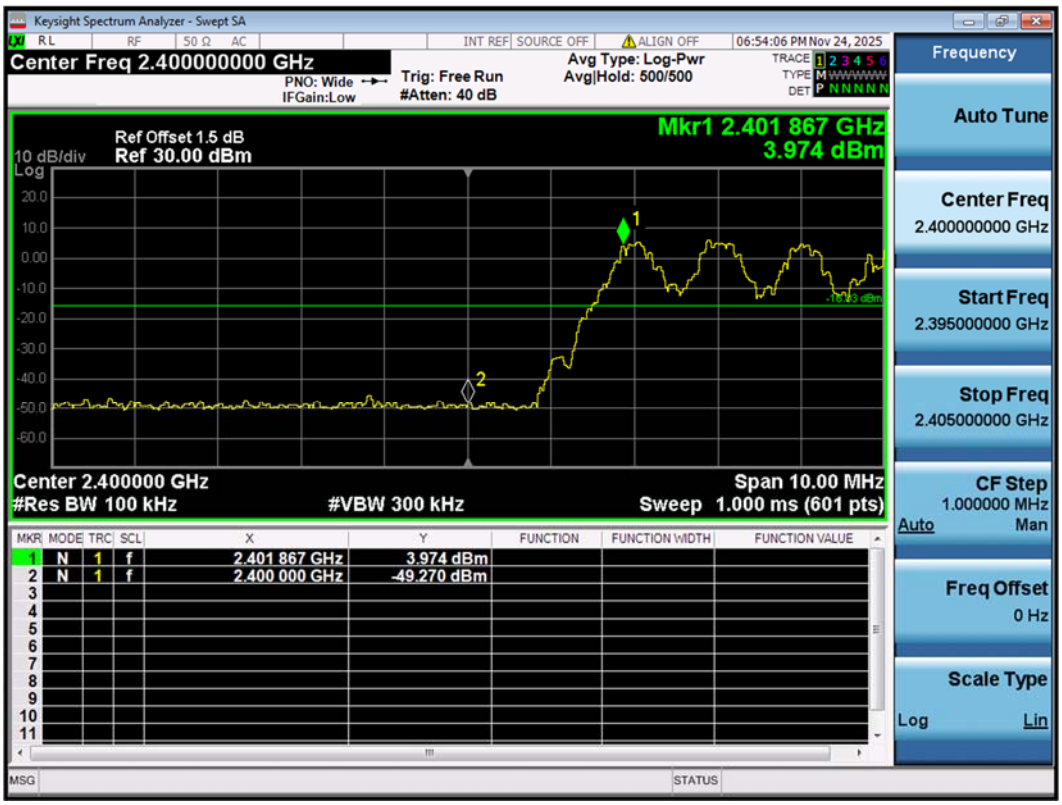


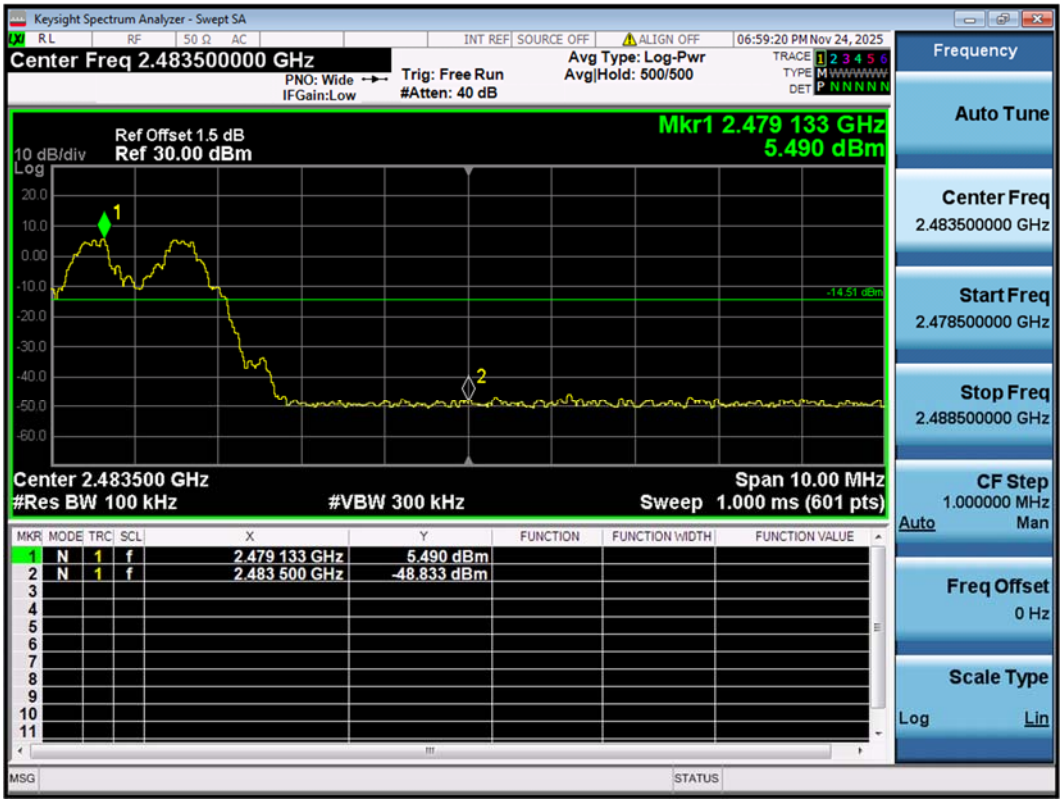
Figure 28: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, GFSK Carrier Level



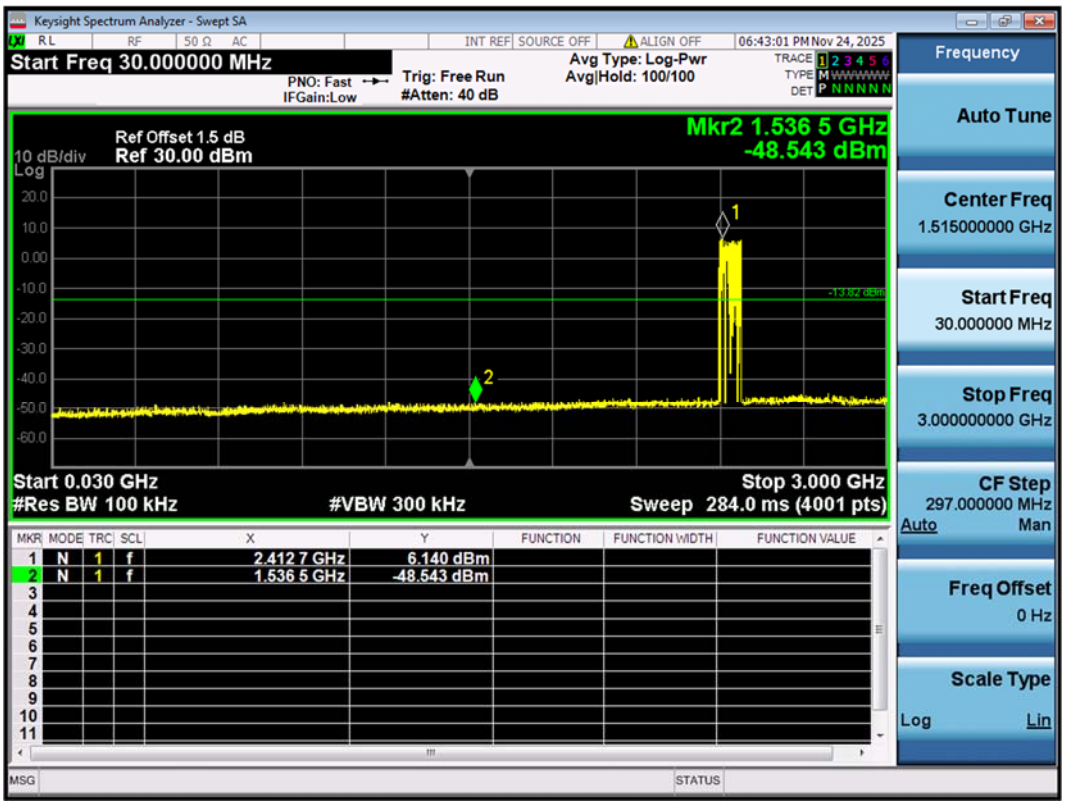
Band Edge(Low)



Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



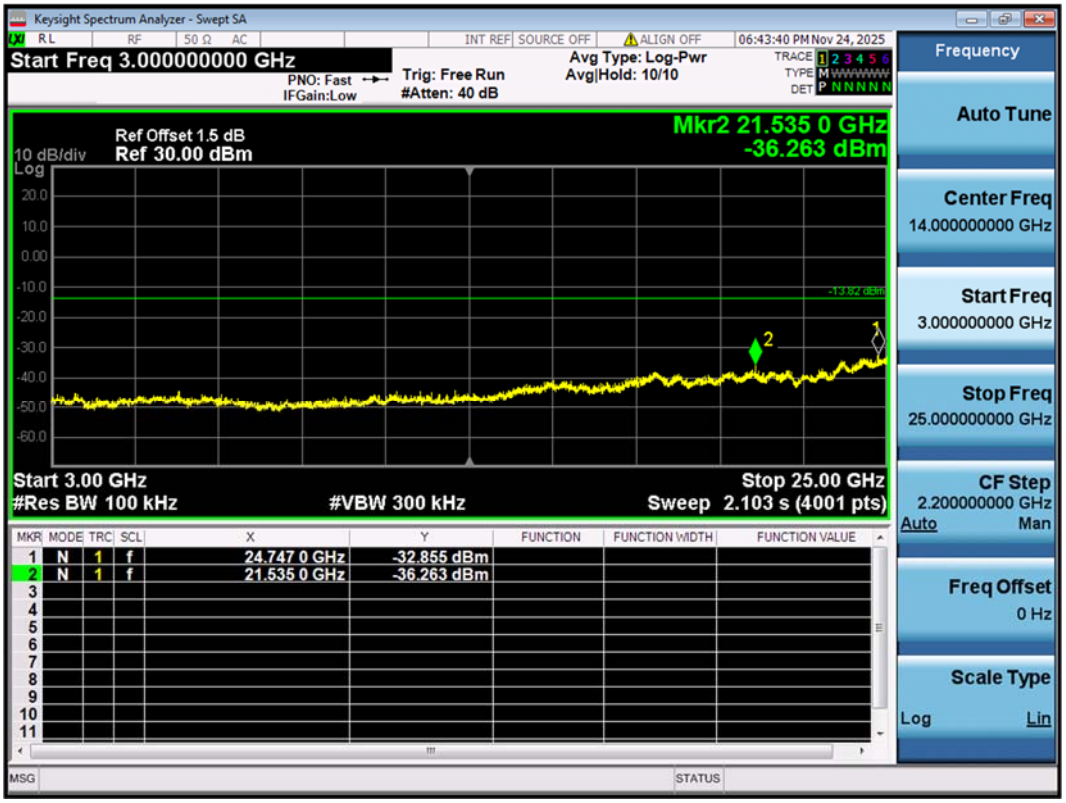
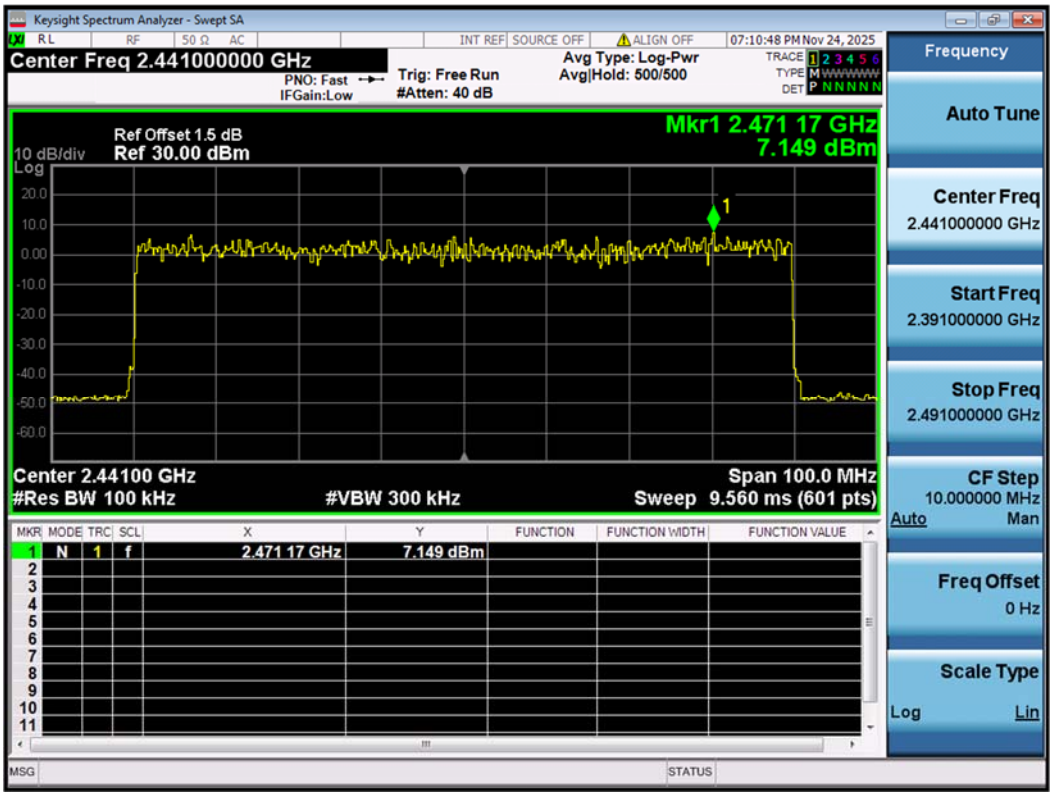
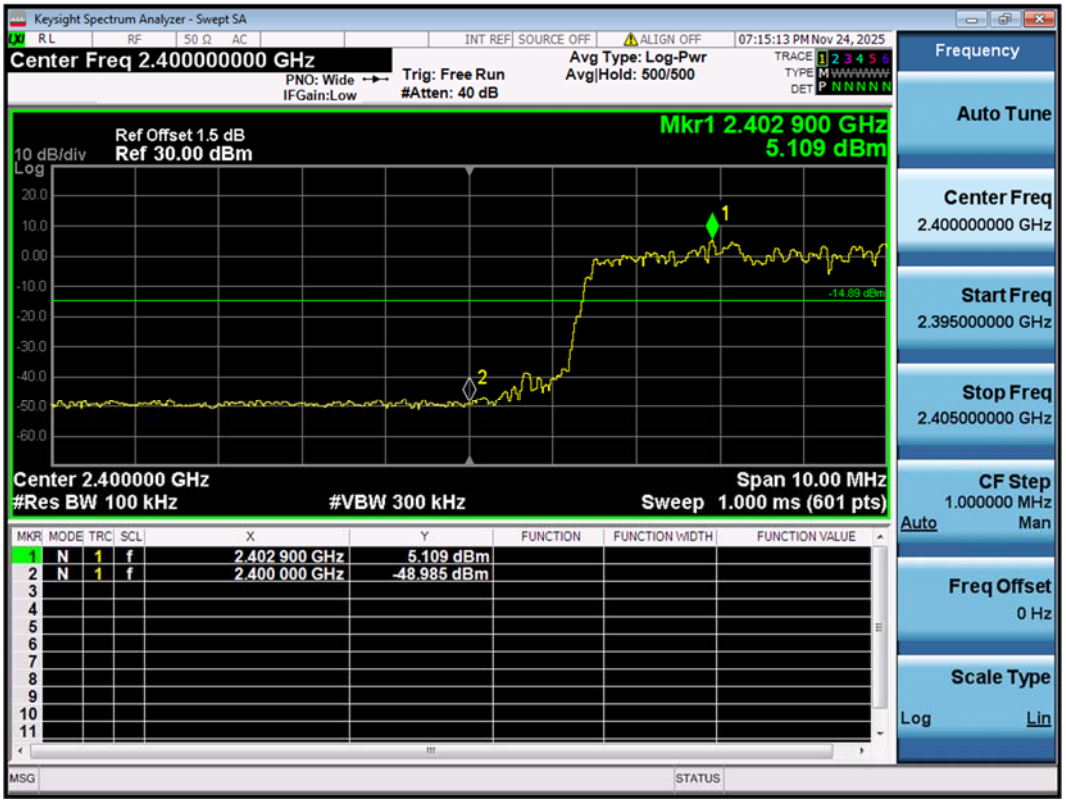


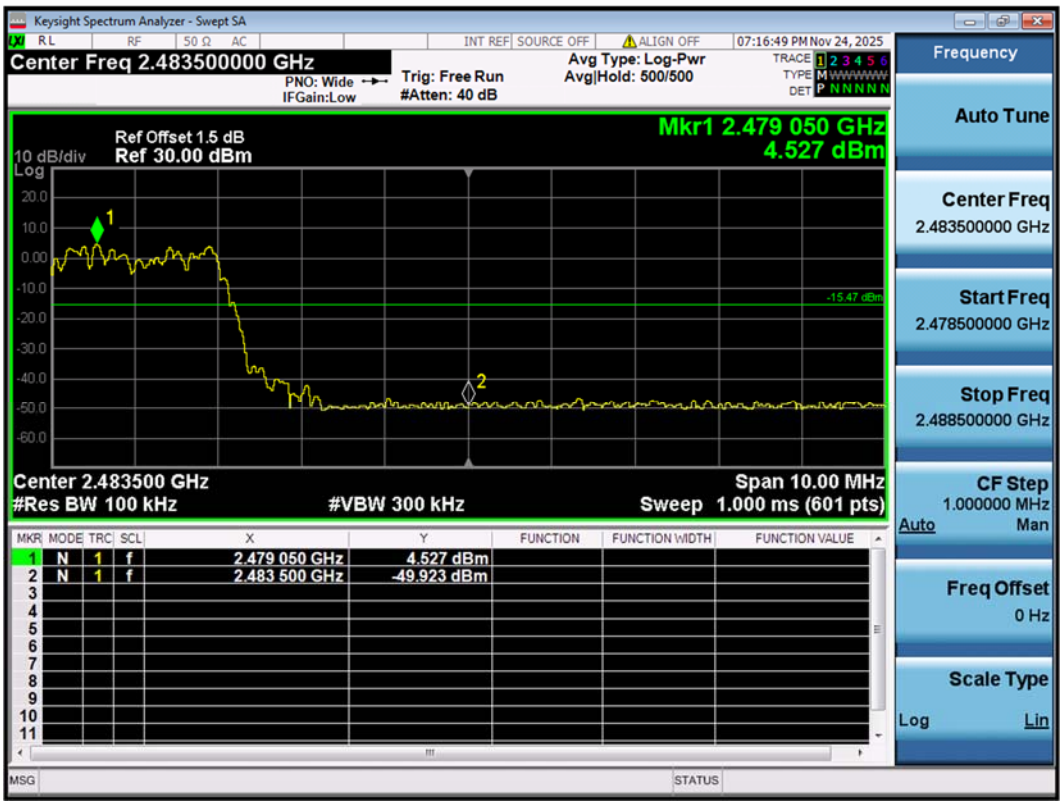
Figure 29: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, π/4-DQPSK Carrier Level



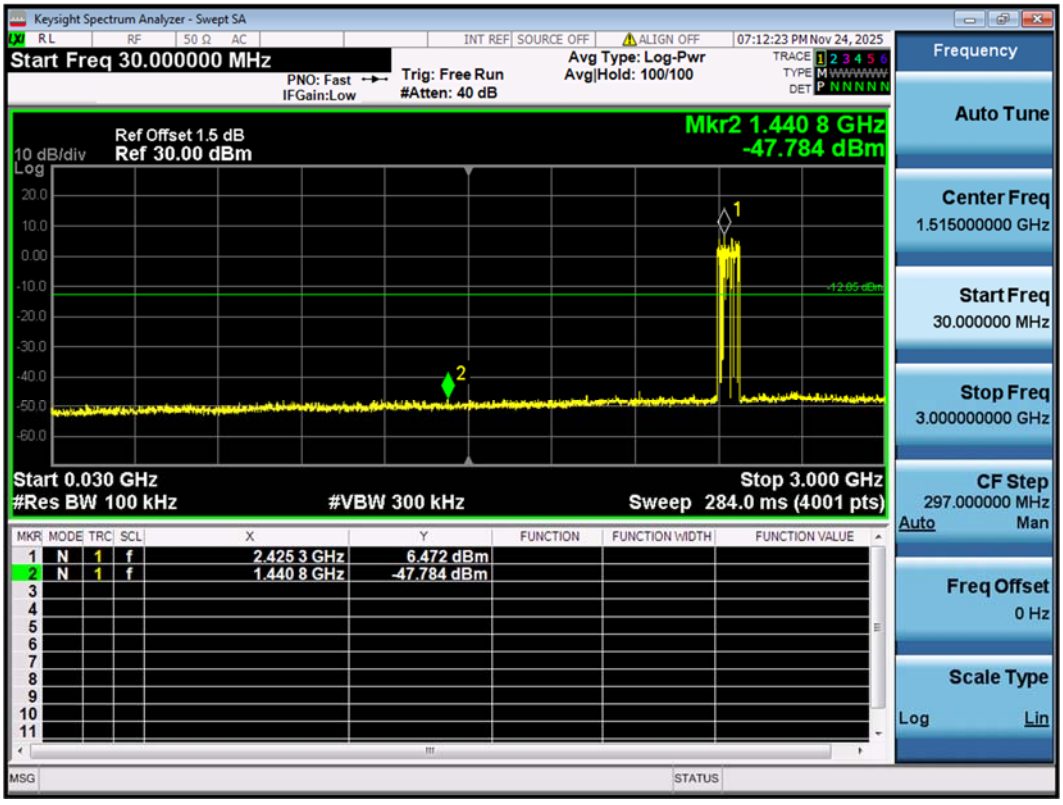
Band Edge(Low)



Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



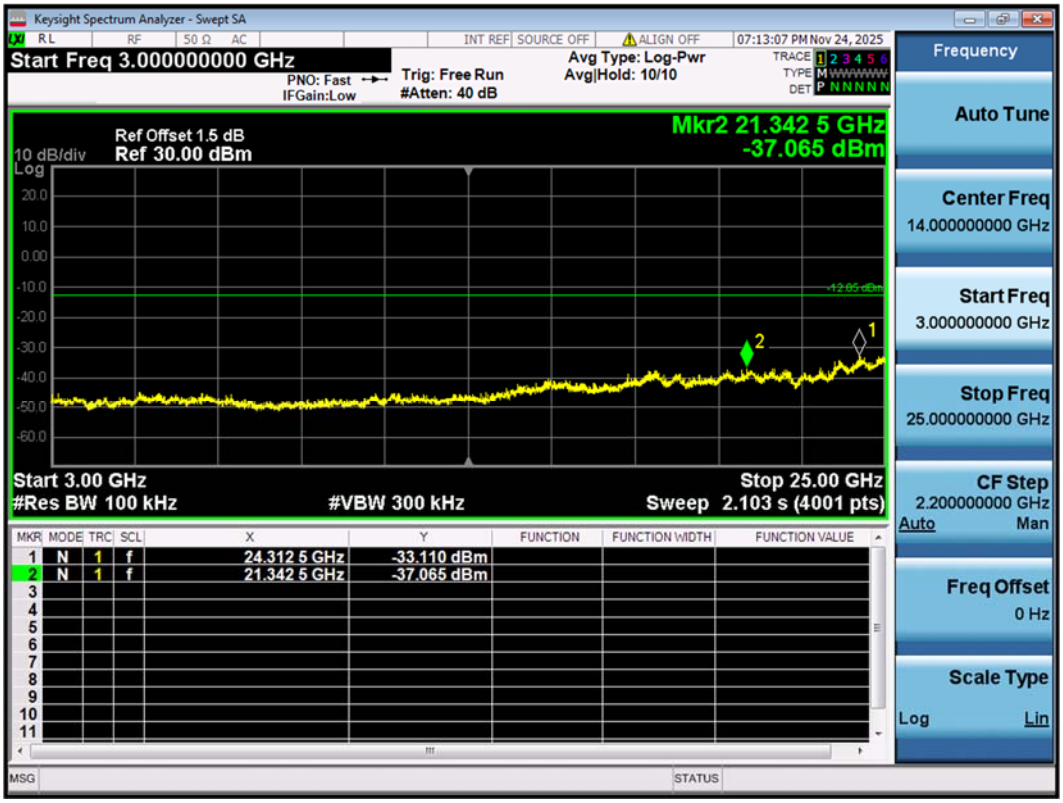
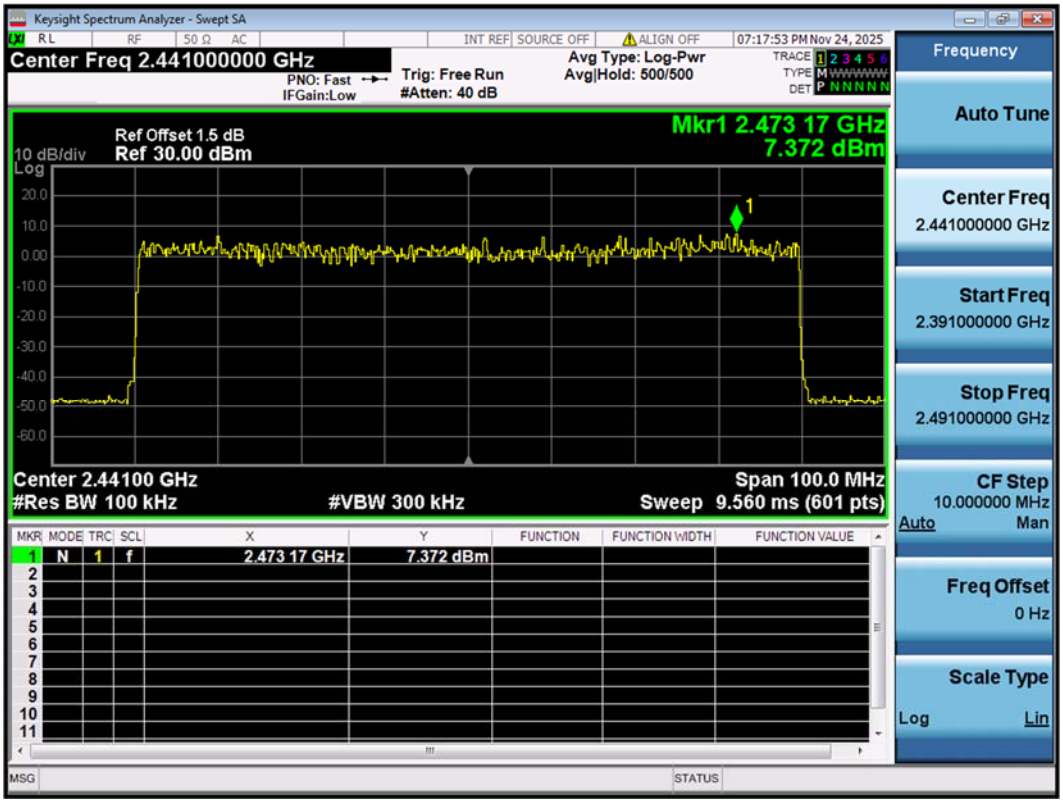
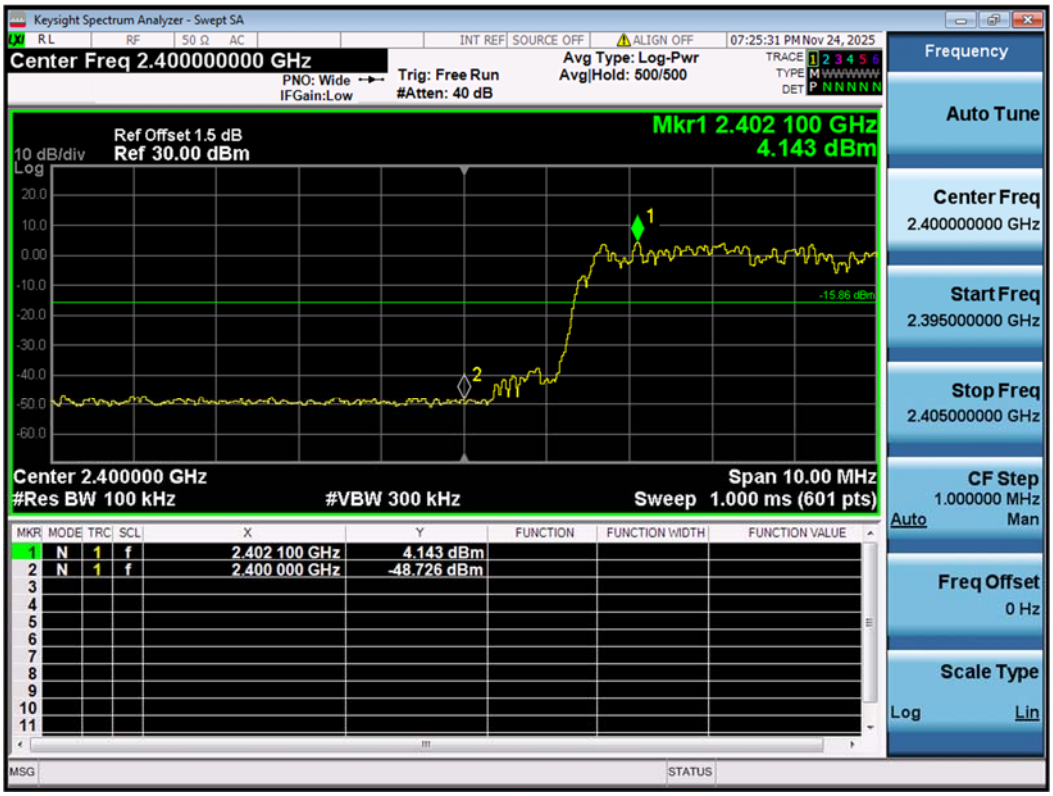


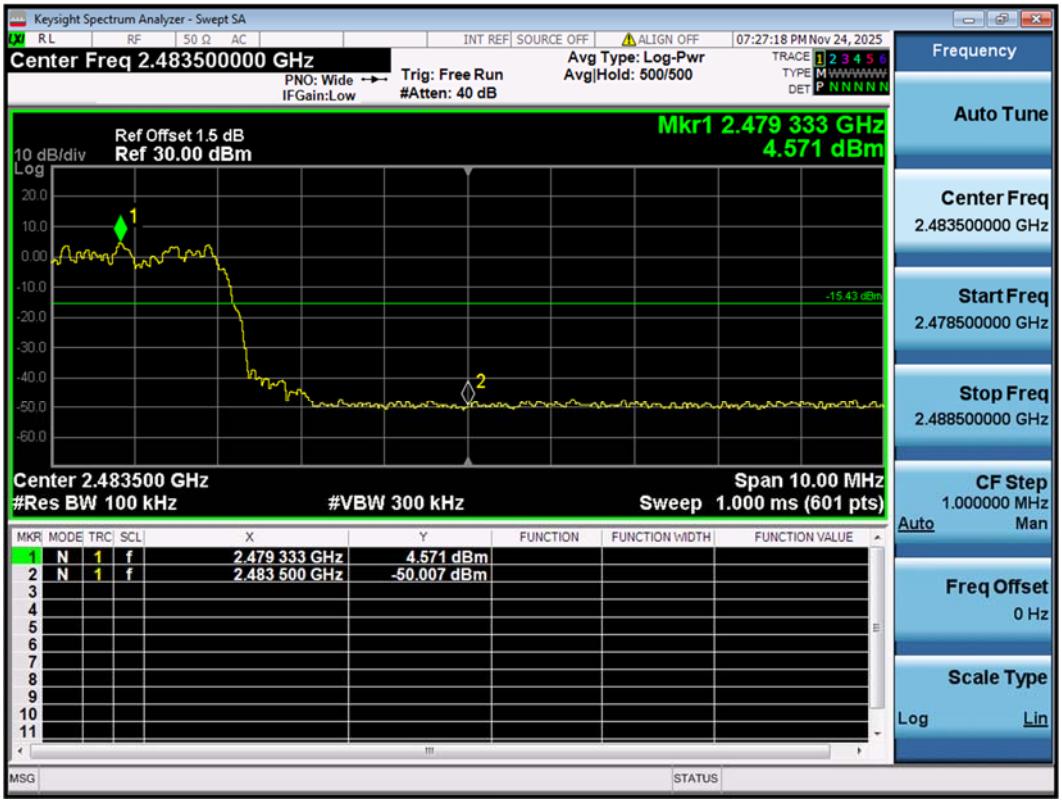
Figure 30: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, 8-DPSK Carrier Level



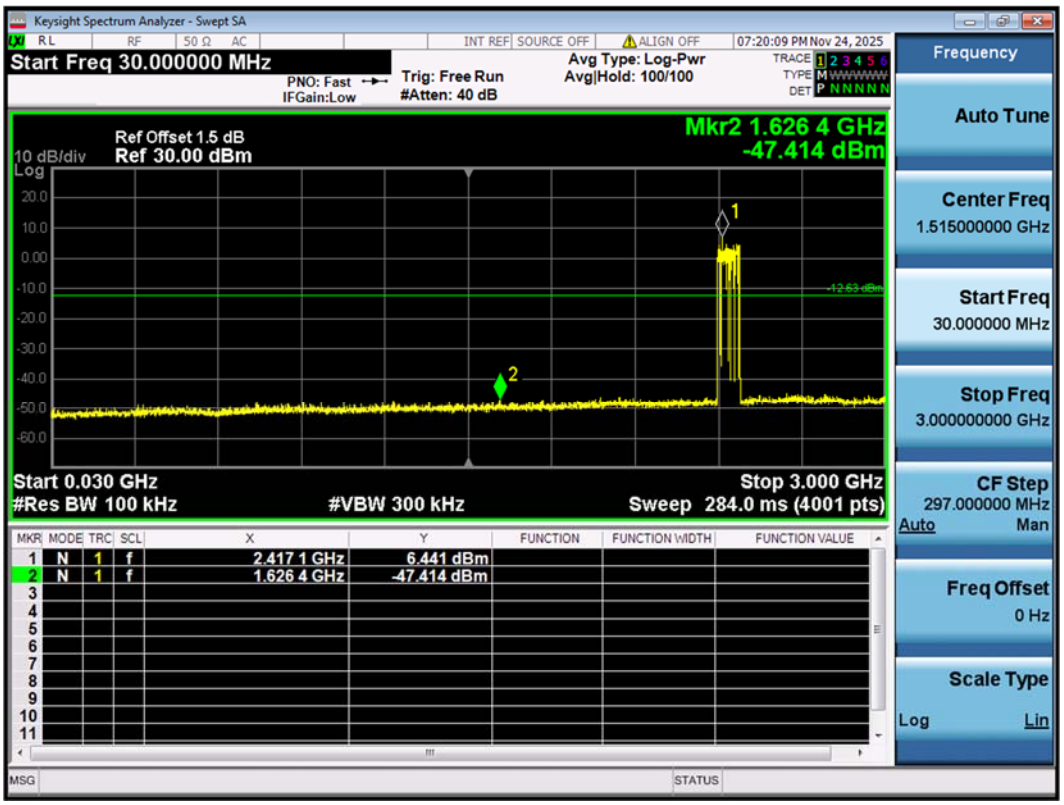
Band Edge(Low)

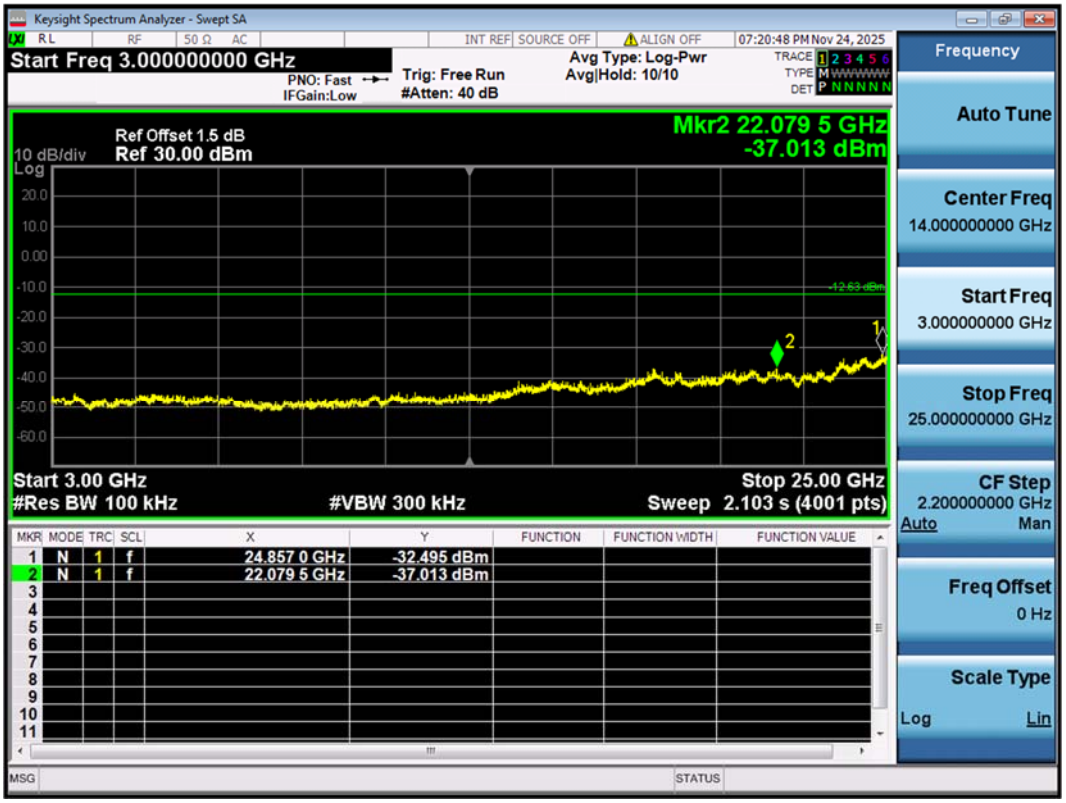


Band Edge(High)



Conducted spurious emissions 30MHz-25GHz





4.1.5 Radiated Spurious Emission

RESULT: **PASS**

Test standard	:	FCC Part 15.247(d), 15.205, 15.209
Requirement	:	ANSI C63.10-2020, Clause 7.8.8
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	A
Ambient temperature	:	23.1°C
Relative humidity	:	45%

Notes

Test plots please refer to the annex document "SHE25110007-01DE DATA BR&EDR-TX EXHIBIT A".

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.

2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.

3. All test mode had been pre-test. Only the worst mode data of GFSK&8DPSK-hopping-DH5 and GFSK&8DPSK_Low channel (below 1GHz) were recorded in the test report.

4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

4.1.6 Band Edge (Restricted-band band-edge)

RESULT: **PASS**

Test standard	:	FCC Part 15.247(d), 15.205, 15.209
Requirement	:	ANSI C63.10-2020, Clause 7.8.7
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/High
Operation Mode	:	A.1
Ambient temperature	:	23.1°C
Relative humidity	:	45%

Notes

1. Test plots please refer to the annex document "SHE25110007-01DE DATA BR&EDR-TX EXHIBIT A".

2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

4.1.7 Hopping Frequency Separation

RESULT: **PASS**

Test standard	:	FCC Part 15.247(a)(1)
Requirement	:	ANSI C63.10-2020, Clause 7.8.2 KDB 558074 D01 v05r02, Clause 2.2
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Hopping
Operation Mode	:	A.1.a.iv
Ambient temperature	:	24.2°C
Relative humidity	:	35%

Table 3: Hopping Frequency Separation

Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	2441	1.177	0.9660
π/4-DQPSK	2441	1.165	0.9133
8-DPSK	2441	1.145	0.9007

*Note: The systems operate with an output power no greater than 125mW (π/4-DQPSK, 8-DPSK).

Figure 31: Hopping Frequency Separation, Hopping Mode, GFSK

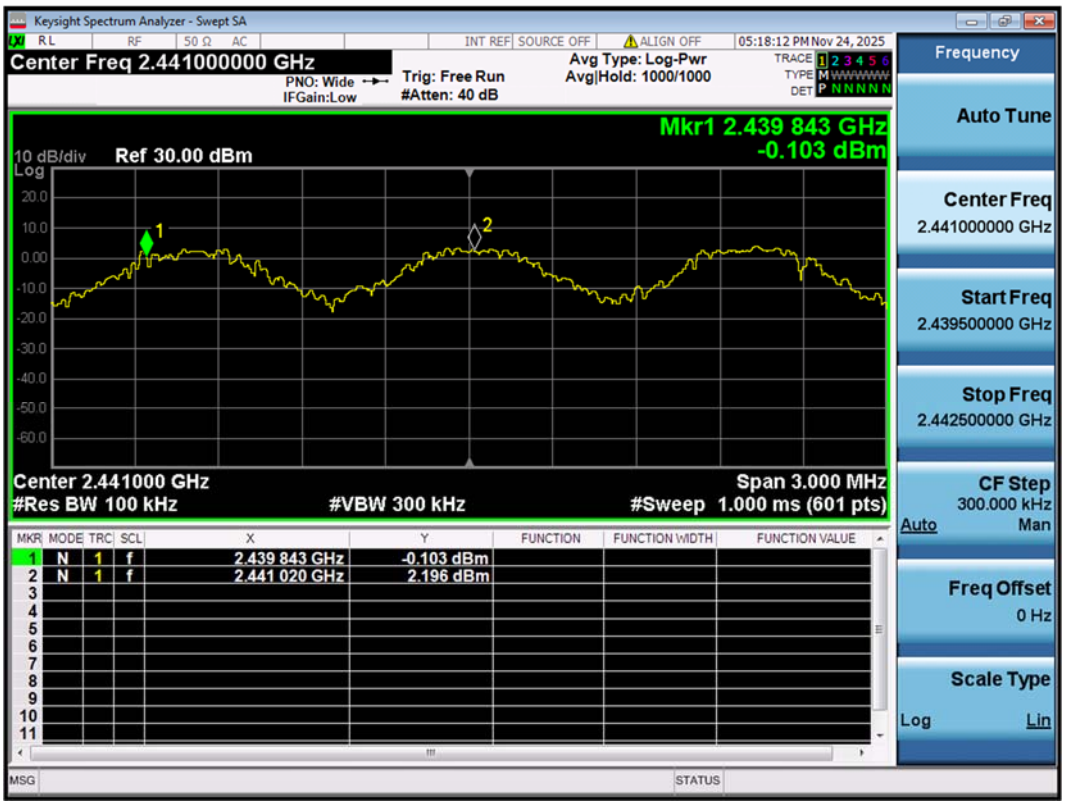


Figure 32: Hopping Frequency Separation, Hopping Mode, π/4-DQPSK

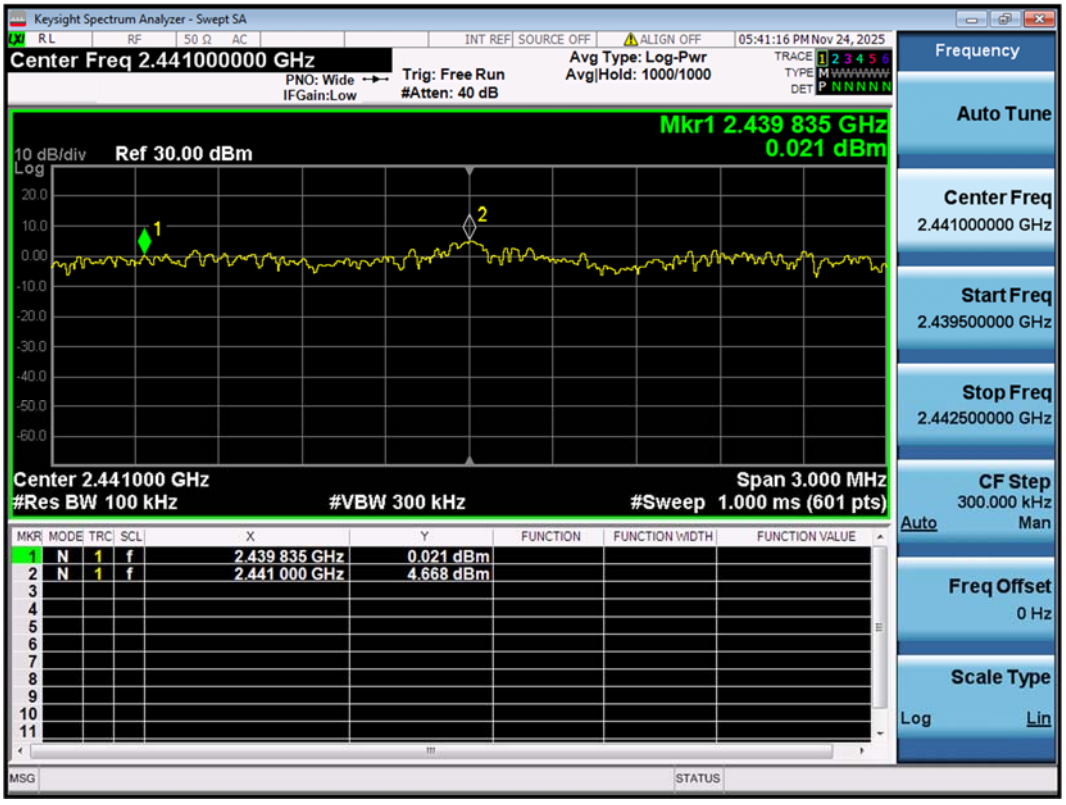
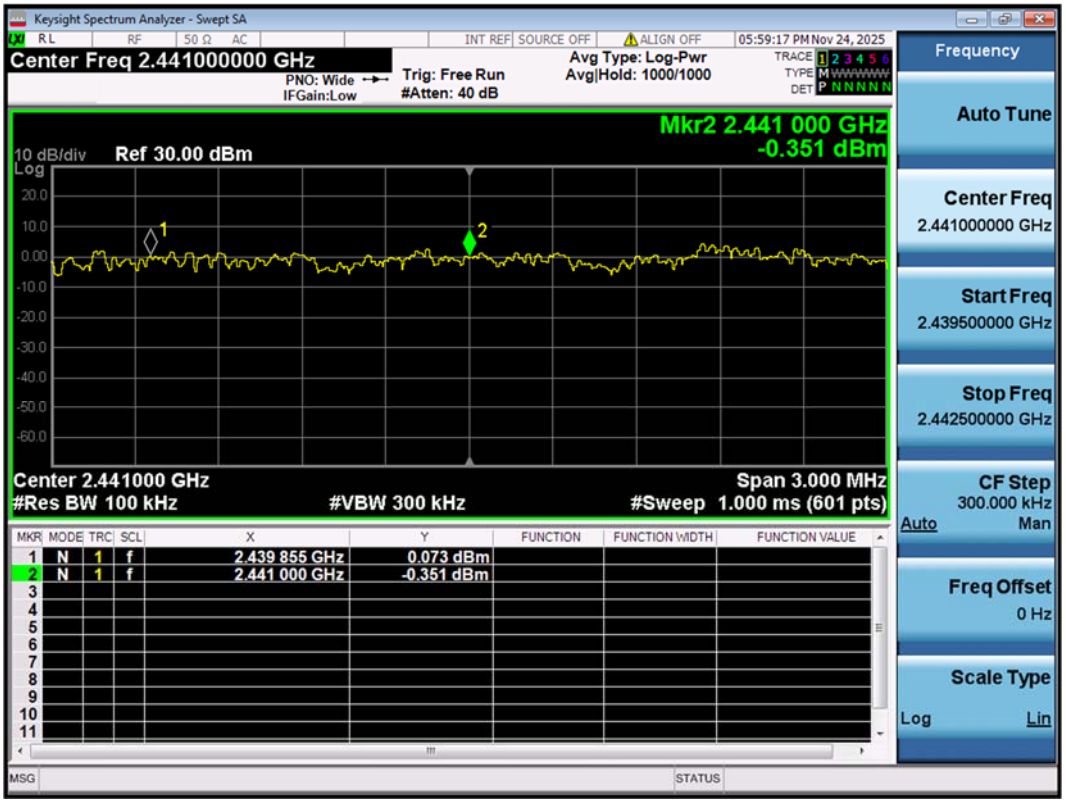


Figure 33: Hopping Frequency Separation, Hopping Mode, 8DPSK



4.1.8 Number of Hopping Frequency

RESULT: **PASS**

Test standard : FCC Part 15.247(a)(1)(iii)
Requirement : ANSI C63.10-2020, Clause 7.8.3
KDB 558074 D01 v05r02, Clause 2.2
Kind of test site : Shielded room

Test setup

Test Channel : Hopping
Operation Mode : A.1.a.iv
Ambient temperature : 24.2°C
Relative humidity : 35%

Table 4: Number of Hopping Frequency

Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
GFSK	2400 – 2483.5	79	≥15
π/4-DQPSK	2400 – 2483.5	79	≥15
8-DPSK	2400 – 2483.5	79	≥15