

RF TEST REPORT

Applicant Positec Technology (China) Co., Ltd.

FCC ID 2ASC3RBT202503

Product Robotic Lawnmower

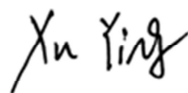
Brand WORX

Model WR310; WR310.1; WR320; WR320.1

Report No. EFTA25060257-IE-05-R6V1

Issue Date December 1, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2025)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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TABLE OF CONTENT

1. Test Laboratory	6
1.1. Notes of the Test Report.....	6
1.2. Test Facility	6
1.3. Testing Location.....	6
2. General Description of Equipment Under Test.....	7
2.1. Applicant and Manufacturer Information	7
2.2. General Information	7
3. Applied Standards	8
4. Test Configuration	9
5. Test Case	10
5.1. Maximum output power	10
5.2. 99% Bandwidth and 6dB Bandwidth	11
5.3. Band Edge	12
5.4. Power Spectral Density	13
5.5. Spurious RF Conducted Emissions.....	15
5.6. Unwanted Emission	17
5.7. Conducted Emission.....	24
6. Test Results	25
6.1. Maximum output power	25
6.2. 99% Bandwidth and 6dB Bandwidth	28
6.3. Band Edge	41
6.4. Power Spectral Density	48
6.5. Spurious RF Conducted Emissions.....	55
6.6. Unwanted Emission	65
6.7. Conducted Emission.....	66
7. Main Test Instruments.....	67
8. The EUT Appearance	68
9. Test Setup Photos.....	69

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 26, 2025
Rev.1	Update description.	December 1, 2025
Note: This revised report (Report No.: EFTA25060257-IE-05-R6V1) supersedes and replaces the previously issued report (Report No.: EFTA25060257-IE-05-R6). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Maximum output power	15.247(b)(3)	PASS
2	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: (Original) July 24, 2025 ~ October 15, 2025 (Variant) November 14, 2025 ~ November 26, 2025 Date of Sample Received: (Original) June 16, 2025 (Variant) June 16, 2025			
Note: All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

WR310; WR310.1; WR320; WR320.1 (Report No.: EFTA25060257-IE-05-R6V1) is a variant model of WR340 (Report No.: EFTA25060257-IE-05-R2).

The differences between variant and original is as below:

Description		FCC ID	IC	Manual adjustment knob	4G Module	GNSS	Battery Pack	Adapter	HW Version	SW Version
WR340	Configuration 1	2ASC3RBT202501	24992-RBT202501	N	Y	UM960E	5AH--WA3675	5A--WA3805	PLH100.1.12	3.44B54
WR310	Configuration 2	2ASC3RBT202503	24992-RBT202503	Y	N	UM960E or LG290P	4AH--WA3674	3A--WA3752	PLB100.1.11	V3.40
WR310.1	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			4AH--WA3674	3A--WA3752	PLB100.1.11	V3.40
WR320	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			5AH--WA3675	3A--WA3752	PLB100.1.11	V3.40
WR320.1	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			5AH--WA3675	3A--WA3752	PLB100.1.11	V3.40
Note: The WR320.1 will come standard with this edge-cut accessory (cut to zero).										
The WR320 will not come standard with this edge-cut accessory (cut to zero).										

The detailed product change description please refers to the *Difference Declaration Letter*.

Tested Cases refer to the following table:

Test Case	Original	Variant
Maximum output power	Pass	Only tested with worst case of Original
99% Bandwidth and 6dB Bandwidth	Pass	Only tested with worst case of Original
Power spectral density	Pass	Only tested with worst case of Original
Band Edge	Pass	Only tested with worst case of Original
Spurious RF Conducted Emissions	Pass	Only tested with worst case of Original
Unwanted Emissions	Pass	Only tested with worst case of Original
Conducted Emissions	Pass	Full Test
Note: This report only tests WR310; WR320.		

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

2.2. General Information

EUT Description	
Model	WR310; WR310.1; WR320; WR320.1
Lab internal SN	250616-35-018
Hardware Version	PLB100.1.11
Software Version	V3.40
Power Supply	Battery / AC adapter
Antenna Type	PCB Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	4.50 dBi
Additional Beamforming Gain	NA
Operating Frequency Range(s)	NearLink SLE: 2402 ~2480 MHz
Modulation Type	NearLink SLE: GFSK, $\pi/4$ QPSK, $\pi/8$ 8PSK
Max. Output Power	NearLink SLE: 19.31 dBm
Operating voltage range	12.5 Vdc to 20.1 Vdc
State voltage	18.5 Vdc
EUT Accessory	
Adapter 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3752; WA3752.* Input: 120V, 90W Output: 20V, 3A
Battery 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3674 DC 20V, 4Ah
Battery 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3675 DC 20V, 5Ah
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2025) Radio Frequency Devices

ANSI C63.10-2020

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
NearLink SLE	1Mbps

5. Test Case

5.1. Maximum output power

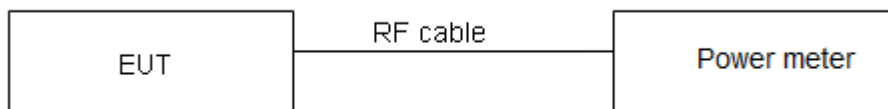
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	$\leq 1\text{W}$ (30dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

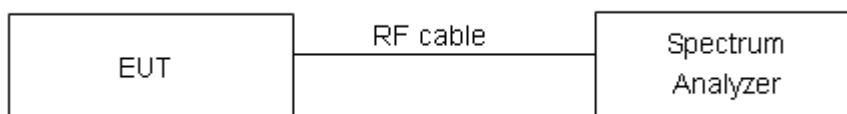
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.
Detector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

5.3. Band Edge

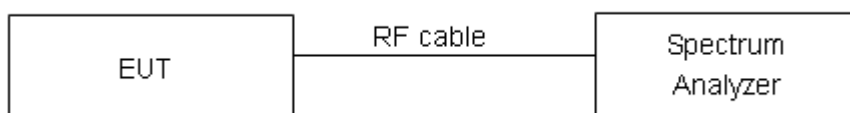
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

5.4. Power Spectral Density

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation.

Method AVGPS-1 was used for this test.

- Set instrument center frequency to DTS channel center frequency
- Set span to at least 1.5 times the OBW
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
- Set VBW $\geq [3 \times \text{RBW}]$
- Detector=power averaging (rms) or sample detector (when rms not available)
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span}/\text{RBW}]$
- Sweep time auto couple
- Employ trace averaging (rms) mode over a minimum of 100 traces
- Use the peak marker function to determine the maximum amplitude level.
- If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

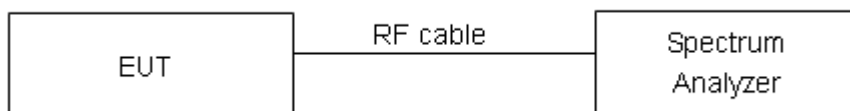
Method AVGPS-2 was used for this test.

- Measure the duty cycle (D) of the transmitter output signal as described in 11.6
- Set instrument center frequency to DTS channel center frequency
- Set span to at least 1.5 times the OBW
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
- Set VBW $\geq [3 \times \text{RBW}]$
- Detector= power averaging (rms) or sample detector (when rms not available)
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span}/\text{RBW}]$
- Sweep time =auto couple
- Do not use sweep triggering; allow sweep to "free run"
- Employ trace averaging (rms) mode over a minimum of 100 traces
- Use the peak marker function to determine the maximum amplitude level

l) Add $[10 \log(1/D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time

m) If measured value exceeds requirement specified by regulatory agency then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Test setup



Limits

Rule Part 15.247(e) specifies that "For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

Limits	$\leq 8 \text{ dBm} / 3\text{kHz}$
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

5.5. Spurious RF Conducted Emissions

Ambient Condition

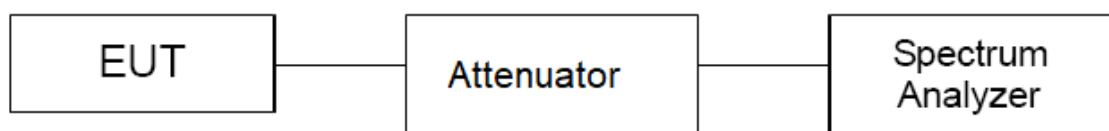
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.

The test is in transmitting mode.

Test Setup



Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. "

Original

Test Mode	Carrier frequency (MHz)/ Channel	Reference value (dBm)	Limit
NearLink SLE GFSK (1M)	2402/CH0	18.860	-11.14
	2440/CH38	19.320	-10.68
	2480/CH78	19.060	-10.94
NearLink SLE $\pi/4$ QPSK (1M)	2402/CH0	11.570	-18.43
	2440/CH38	11.290	-18.71
	2480/CH78	11.320	-18.68
NearLink SLE $\pi/8$ 8PSK (1M)	2402/CH0	11.860	-18.14
	2440/CH38	11.880	-18.12
	2480/CH78	11.540	-18.46

Variant

Test Mode	Carrier frequency (MHz)/ Channel	Reference value (dBm)	Limit
NearLink SLE	2440/CH38	19.410	-10.59

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

5.6. Unwanted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m/10m below 1GHz, 3m above 1GHz between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

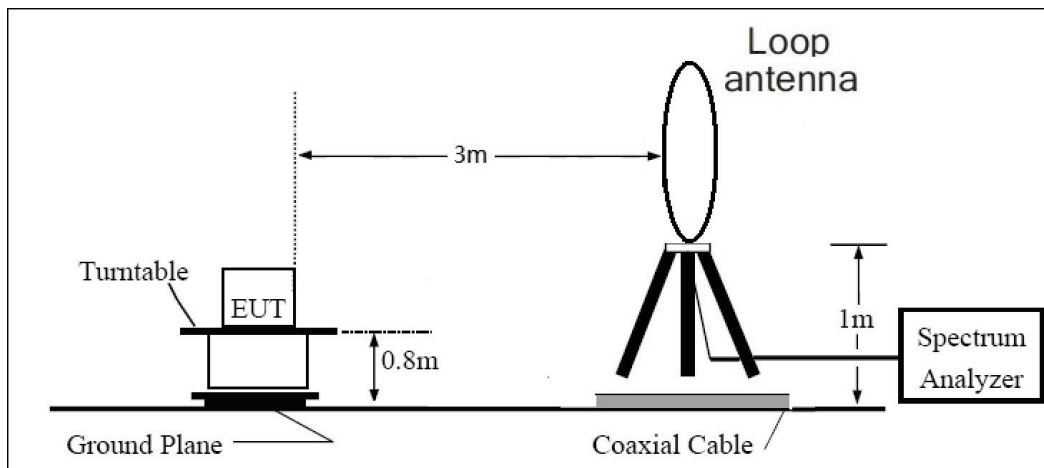
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

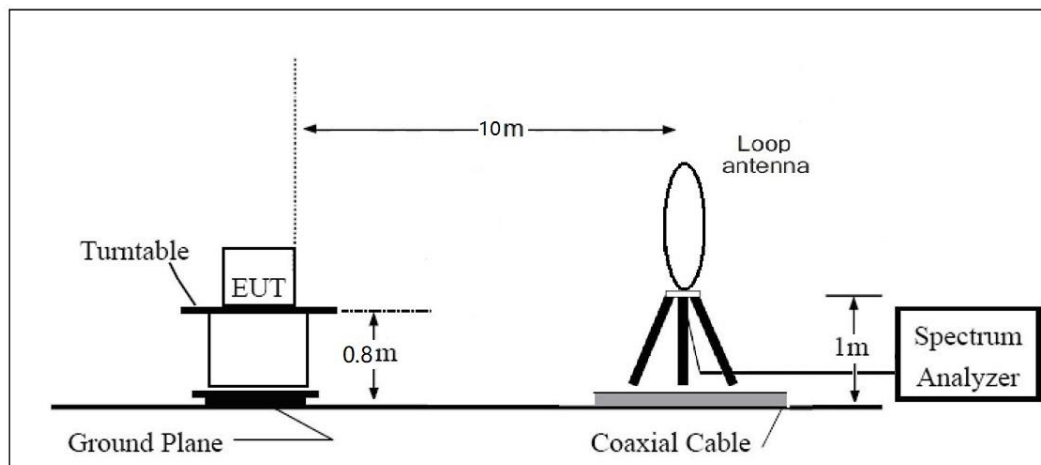
Test Setup

9kHz~ 30MHz



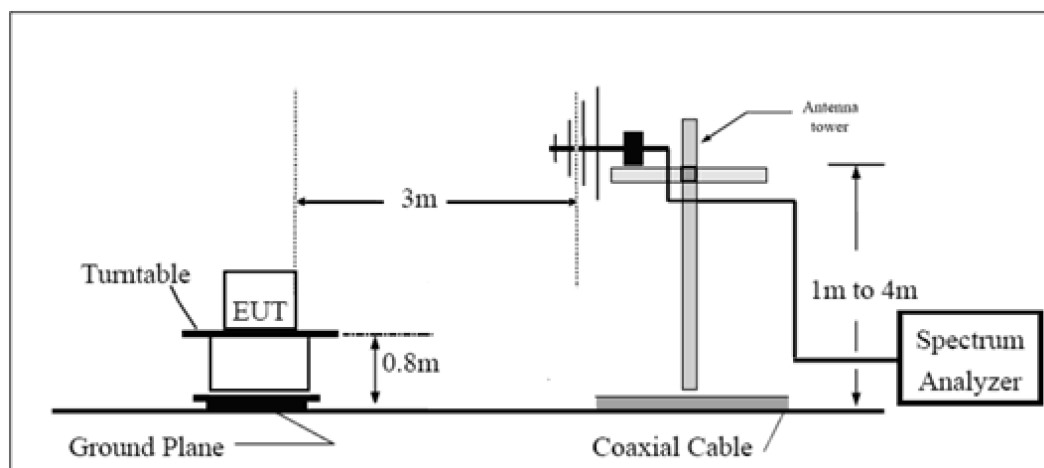
Note: Area side:2.4mX3.6m

Distance 10m



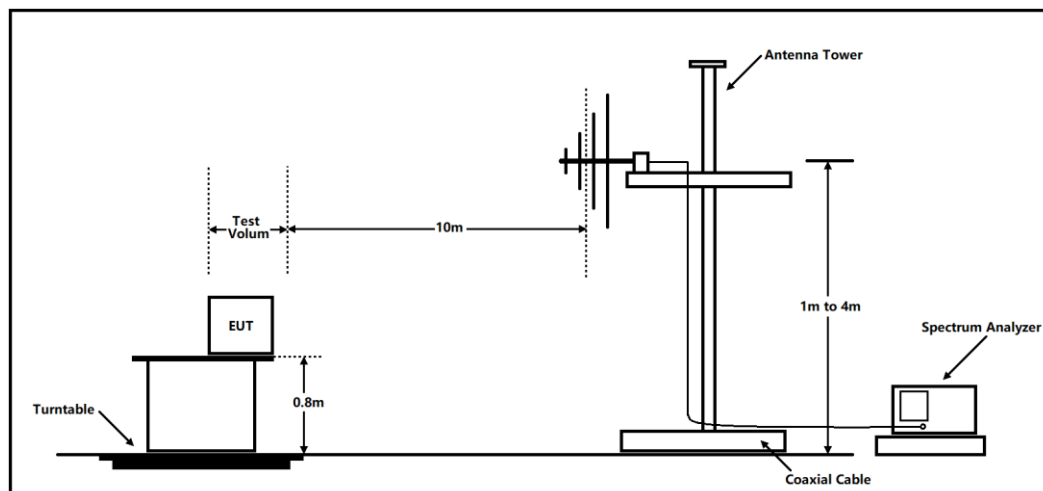
Note: Area side: 21m x 12m

30MHz~ 1GHz



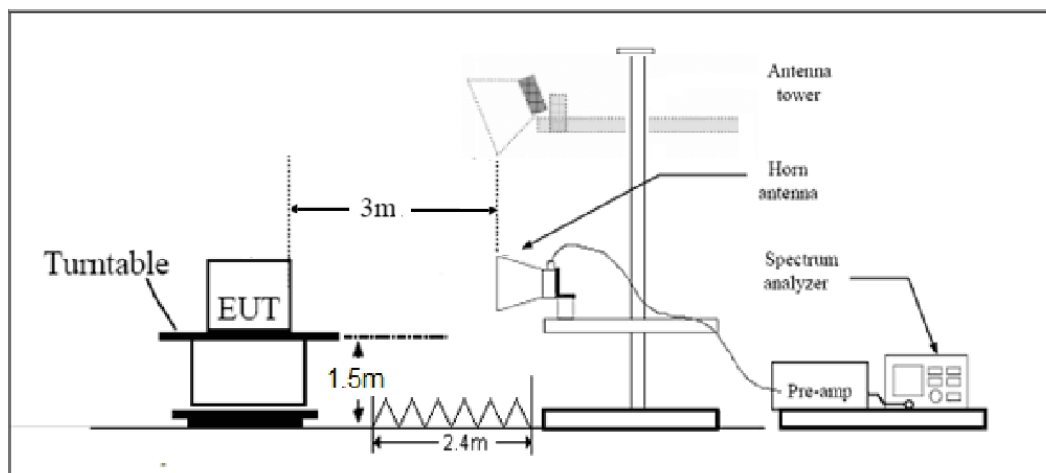
Note: Area side:2.4mX3.6m

Distance 10m



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side: 2.4m x 3.6m

Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength (μV/m)	Field strength (dBμV/m) @ 3 m	Field strength (dBμV/m) @ 10 m
0.009–0.490	2400/F(kHz)	/	/
0.490–1.705	24000/F(kHz)	/	/
1.705–30.0	30	/	/
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960 -1000	500	54	44
Above 1000	500	54	--

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBμV/m

Average Limit=54 dBμV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty for 3m
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB
Frequency	Uncertainty for 10m
30MHz – 200MHz	3.39 dB
200MHz – 1GHz	3.82 dB
1GHz – 18GHz	6.51 dB
18GHz – 40GHz	6.31 dB

5.7. Conducted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

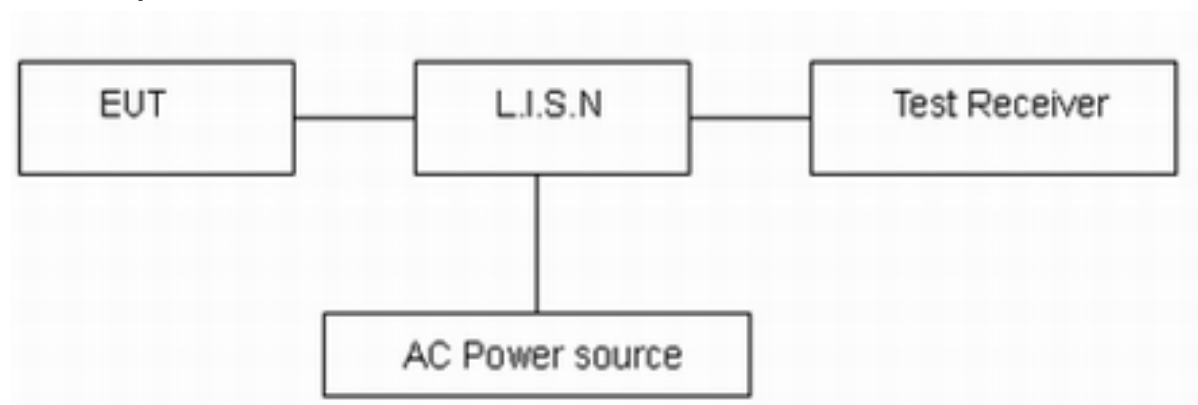
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

6. Test Results

6.1. Maximum output power

Original

Power Index			
NearLink SLE			
Channel	GFSK (1M)	$\pi/4$ QPSK (1M)	$\pi/8$ 8PSK (1M)
CH0	7	7	7
CH38	7	7	7
CH78	7	7	7

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
NearLink SLE GFSK (1M)	0.344	4.63
NearLink SLE $\pi/4$ QPSK (1M)	0.252	5.99
NearLink SLE $\pi/8$ 8PSK (1M)	0.173	7.63
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Test Mode	Carrier frequency (MHz)/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
NearLink SLE GFSK (1M)	2402/CH0	14.57	19.20	30	PASS
	2440/CH38	14.68	19.31	30	PASS
	2480/CH78	14.39	19.02	30	PASS
NearLink SLE $\pi/4$ QPSK (1M)	2402/CH0	6.41	12.40	30	PASS
	2440/CH38	6.45	12.44	30	PASS
	2480/CH78	6.16	12.15	30	PASS
NearLink SLE $\pi/8$ 8PSK (1M)	2402/CH0	4.97	12.60	30	PASS
	2440/CH38	4.99	12.62	30	PASS
	2480/CH78	4.17	11.80	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

Variant

Power Index	
NearLink SLE	
Channel	GFSK (1M)
CH38	7

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
NearLink SLE GFSK (1M)	0.344	4.63
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Test Mode	Carrier frequency (MHz)/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
NearLink SLE GFSK (1M)	2440/CH38	15.16	19.79	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

6.2. 99% Bandwidth and 6dB Bandwidth

Original

Test Mode	Carrier frequency (MHz)/ Channel	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
NearLink SLE GFSK (1M)	2402/CH0	1.038	0.635	500	PASS
	2440/CH38	1.038	0.716	500	PASS
	2480/CH78	1.030	0.690	500	PASS
NearLink SLE $\pi/4$ QPSK (1M)	2402/CH0	1.201	1.012	500	PASS
	2440/CH38	1.190	1.040	500	PASS
	2480/CH78	1.212	1.038	500	PASS
NearLink SLE $\pi/8$ 8PSK (1M)	2402/CH0	1.188	1.049	500	PASS
	2440/CH38	1.190	1.035	500	PASS
	2480/CH78	1.212	1.034	500	PASS

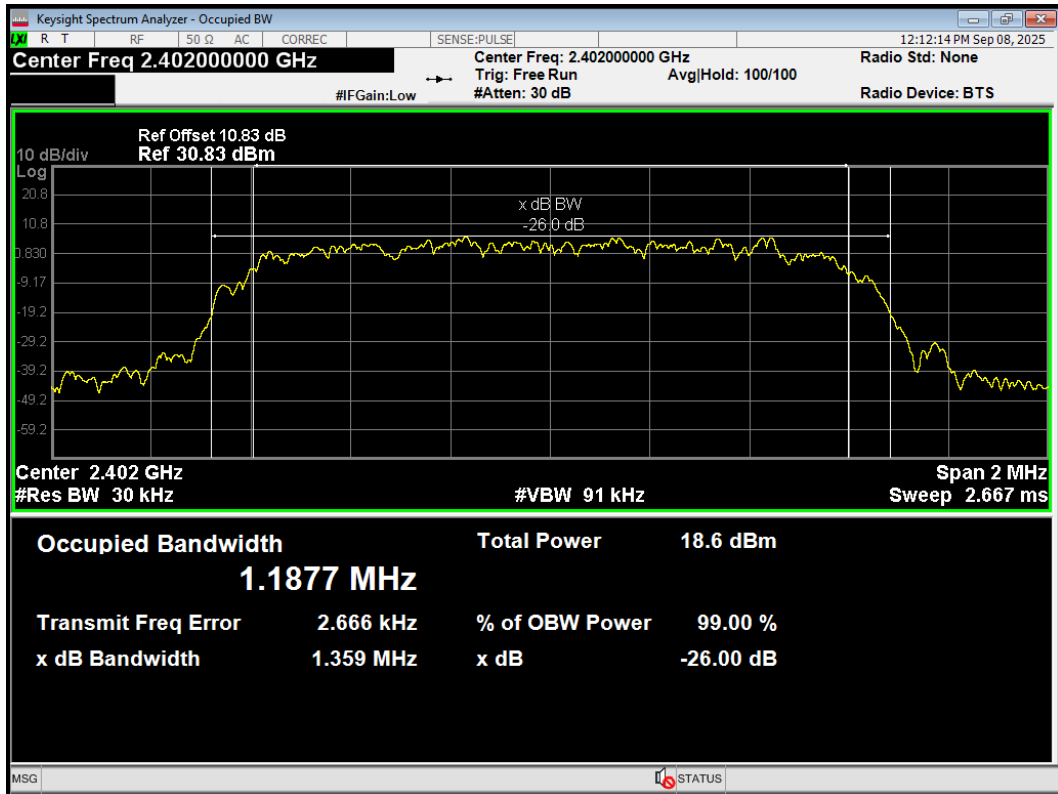
Variant

Test Mode	Carrier frequency (MHz)/ Channel	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
NearLink SLE GFSK (1M)	2440/CH38	1.034	0.673	500	PASS

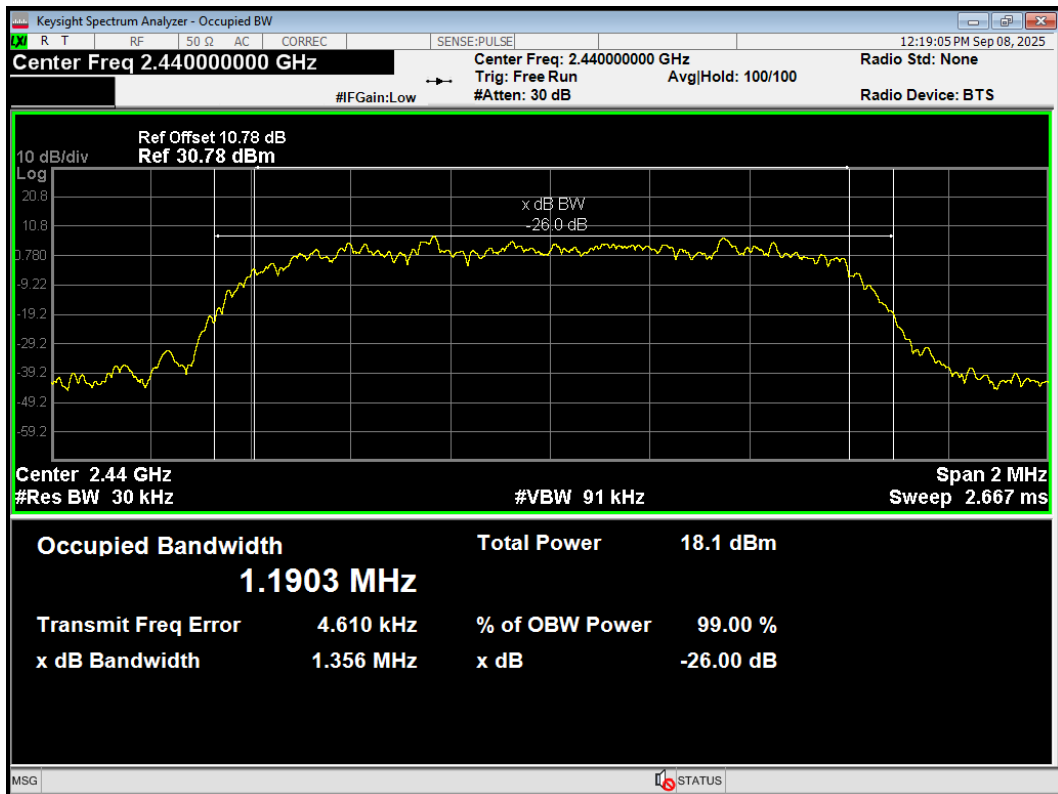
Original

99%bandwidth

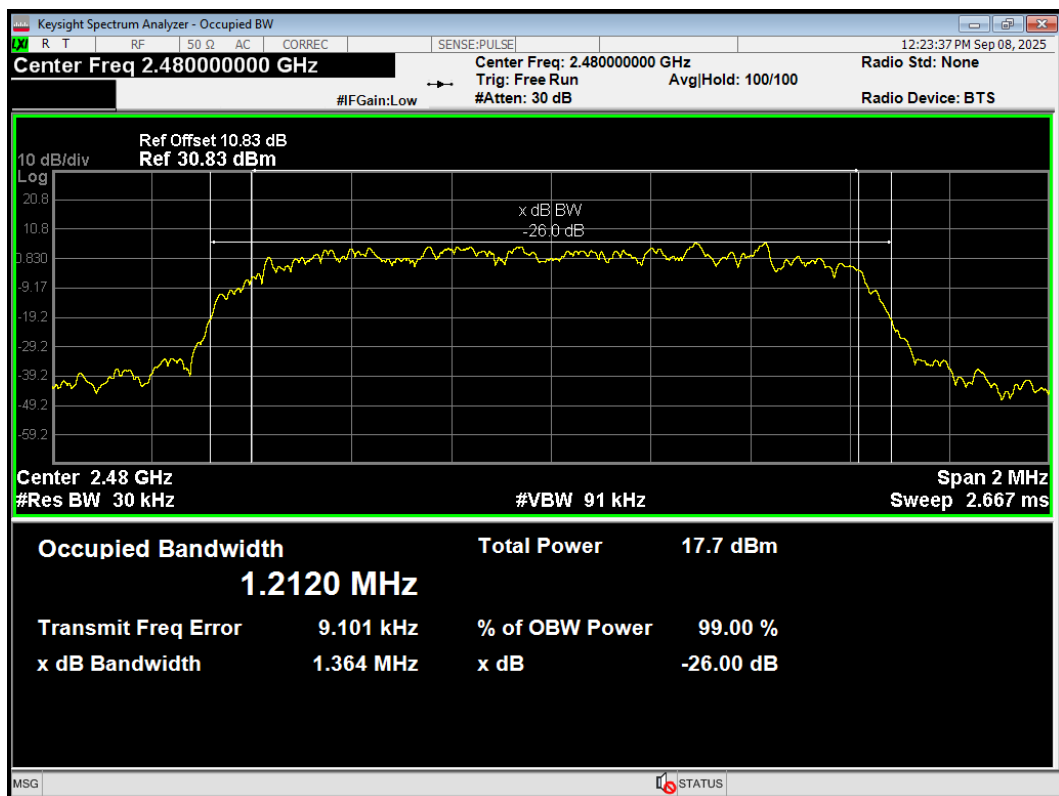
OBW 8PSK 2402MHz



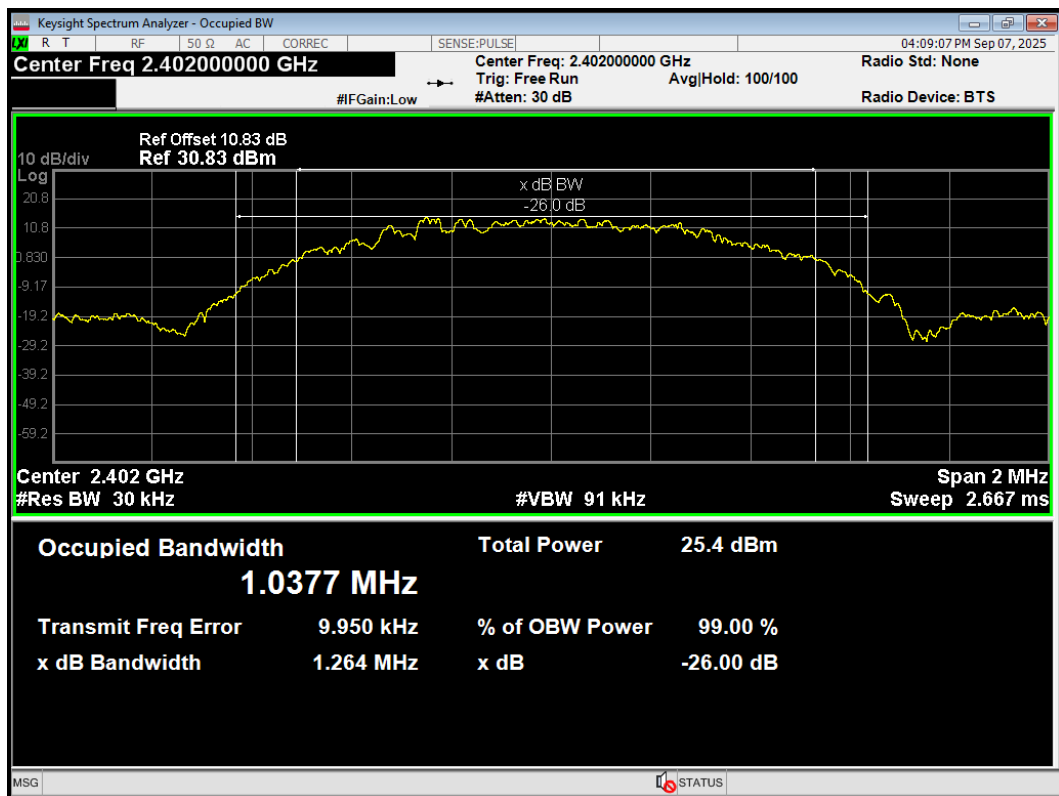
OBW 8PSK 2440MHz



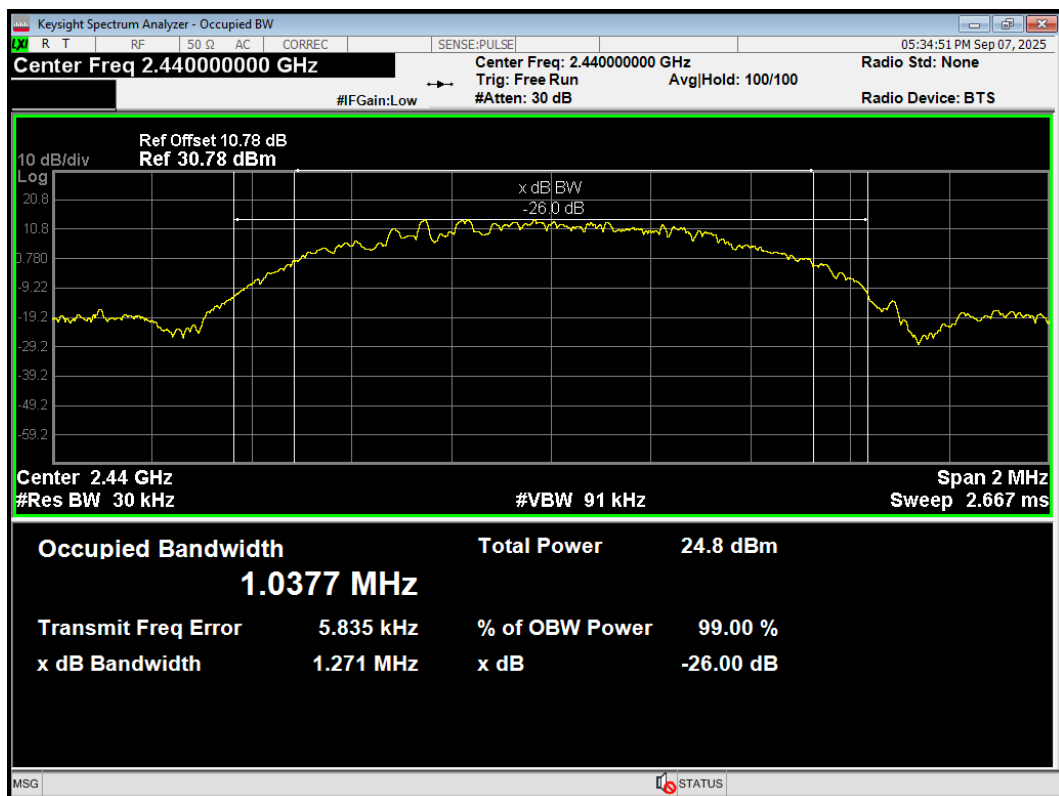
OBW 8PSK 2480MHz



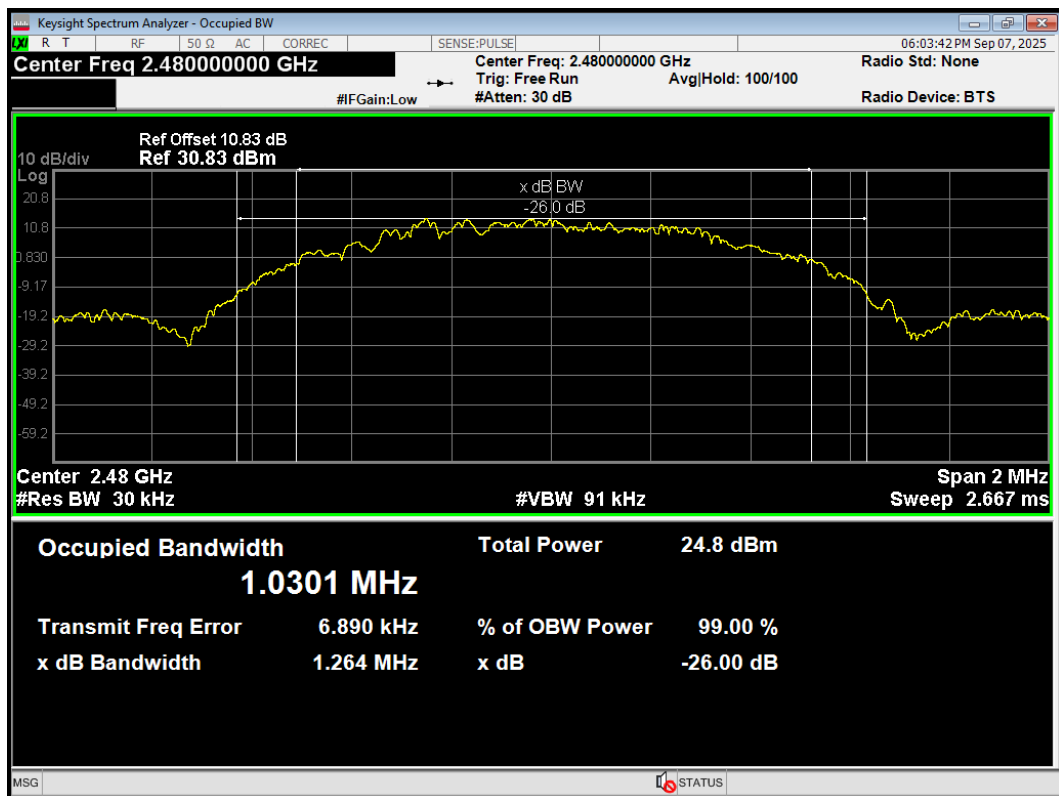
OBW GFSK 2402MHz



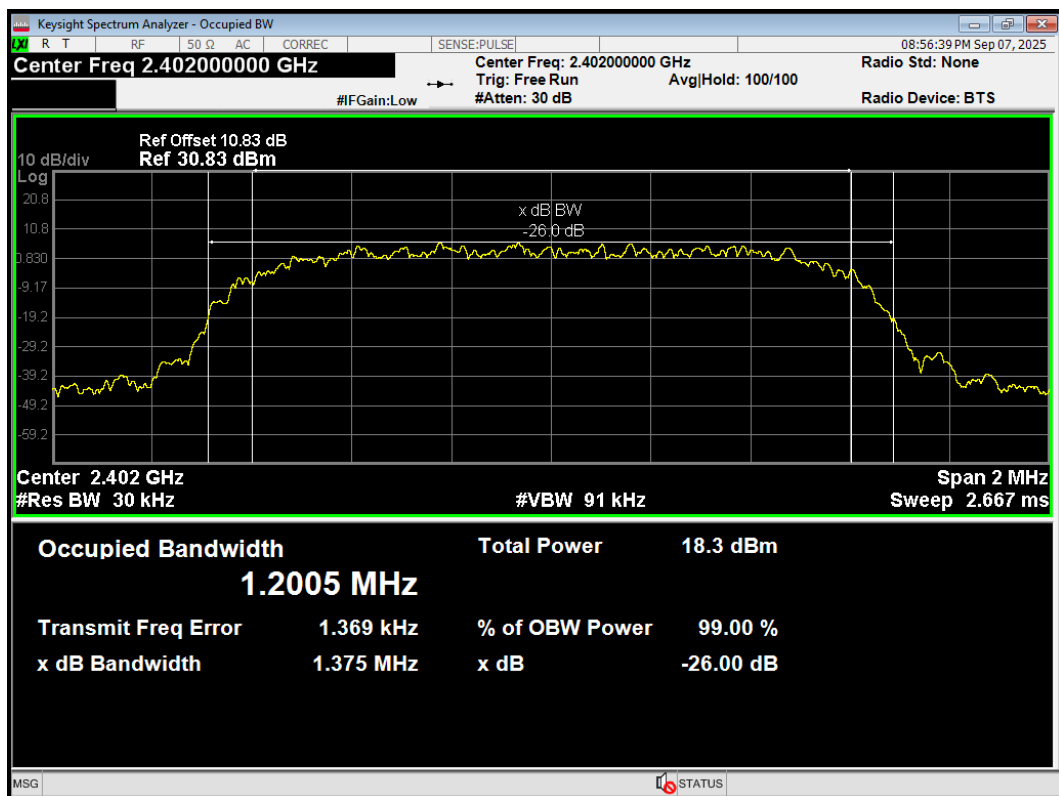
OBW GFSK 2440MHz



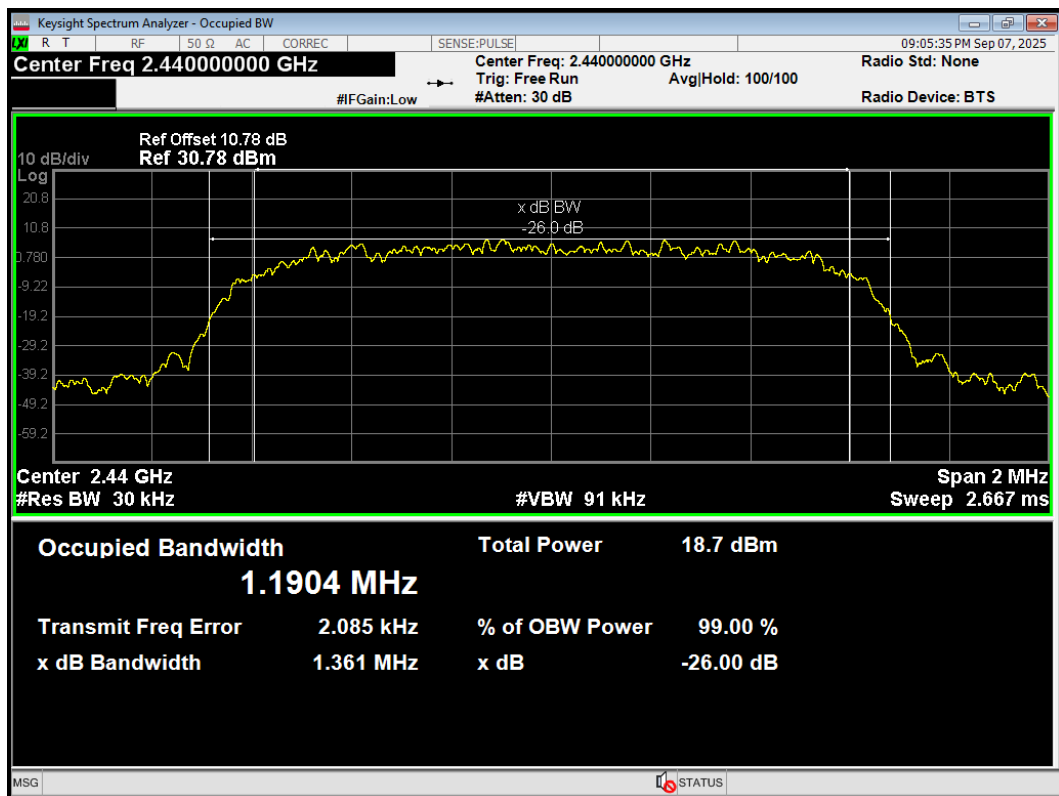
OBW GFSK 2480MHz



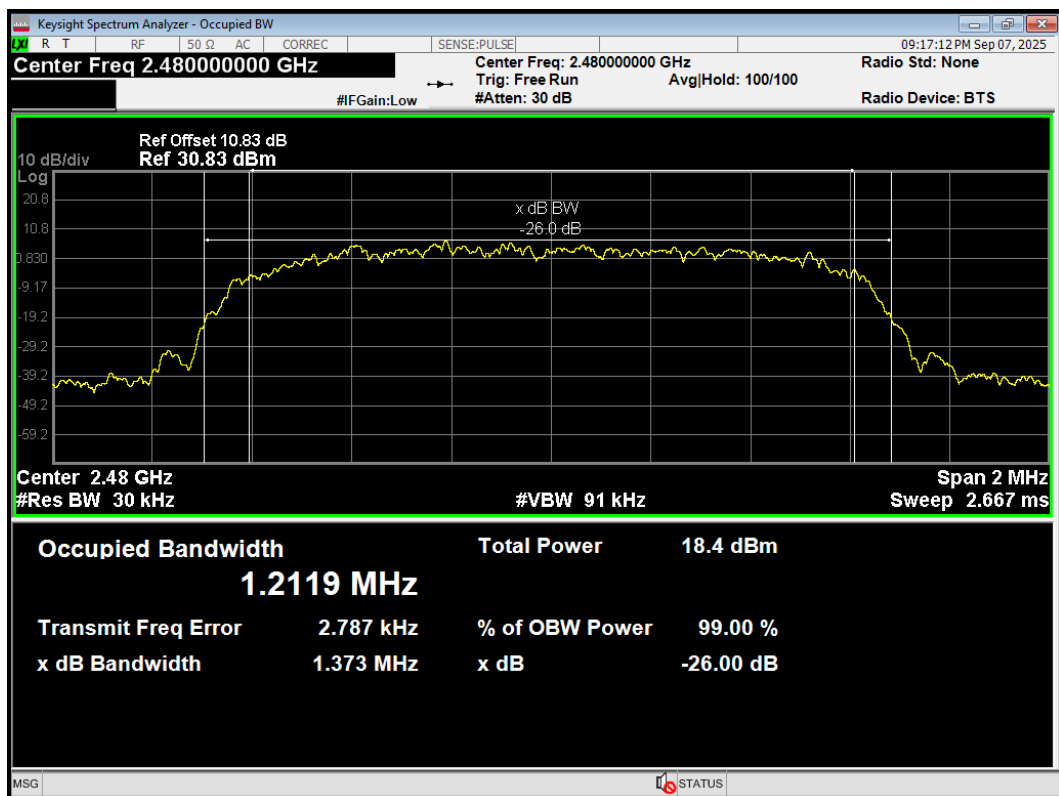
OBW QPSK 2402MHz



OBW QPSK 2440MHz

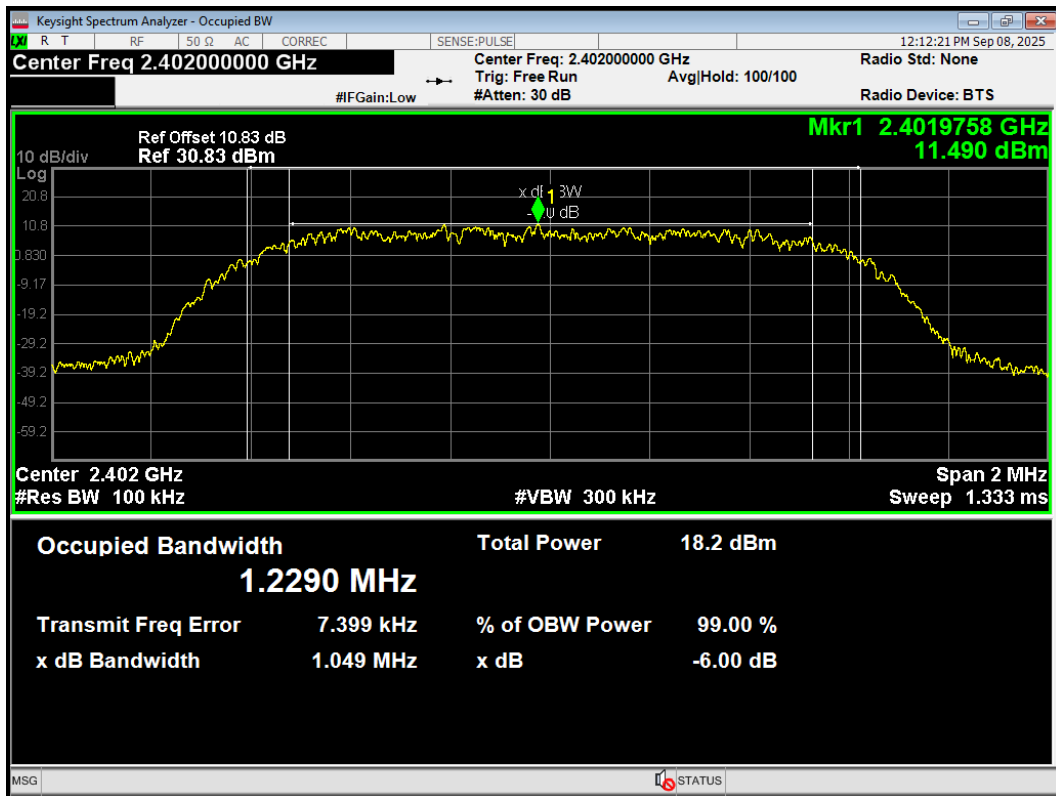


OBW QPSK 2480MHz

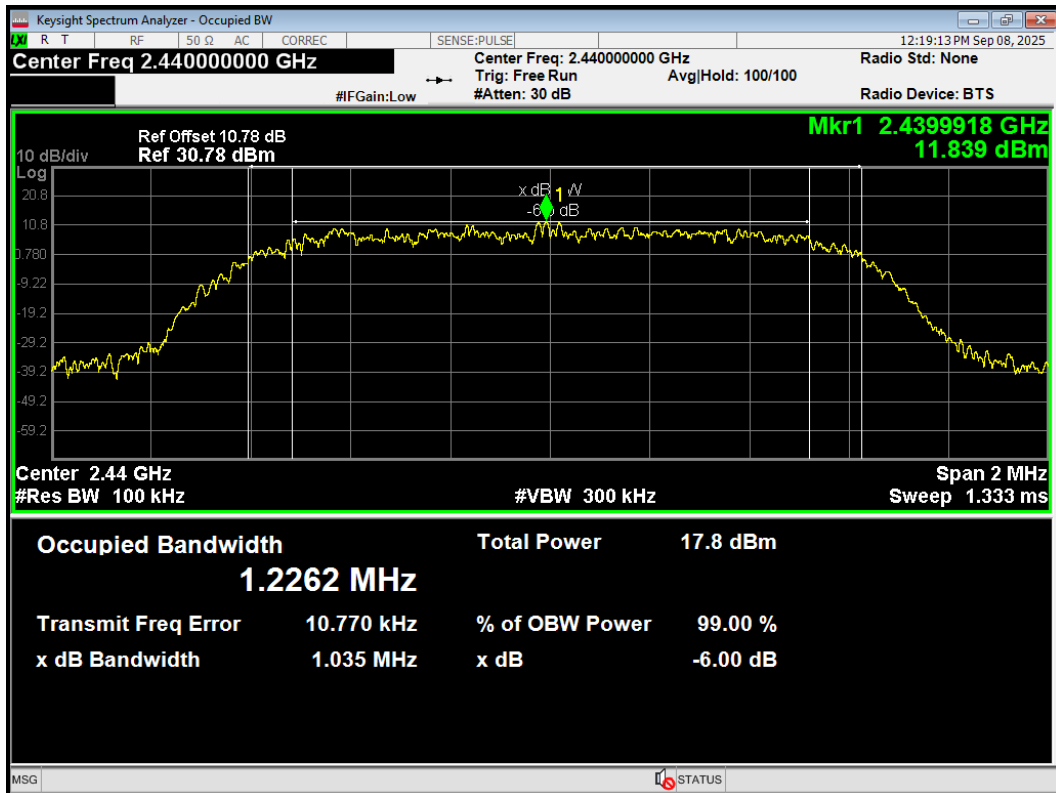


6 dB bandwidth

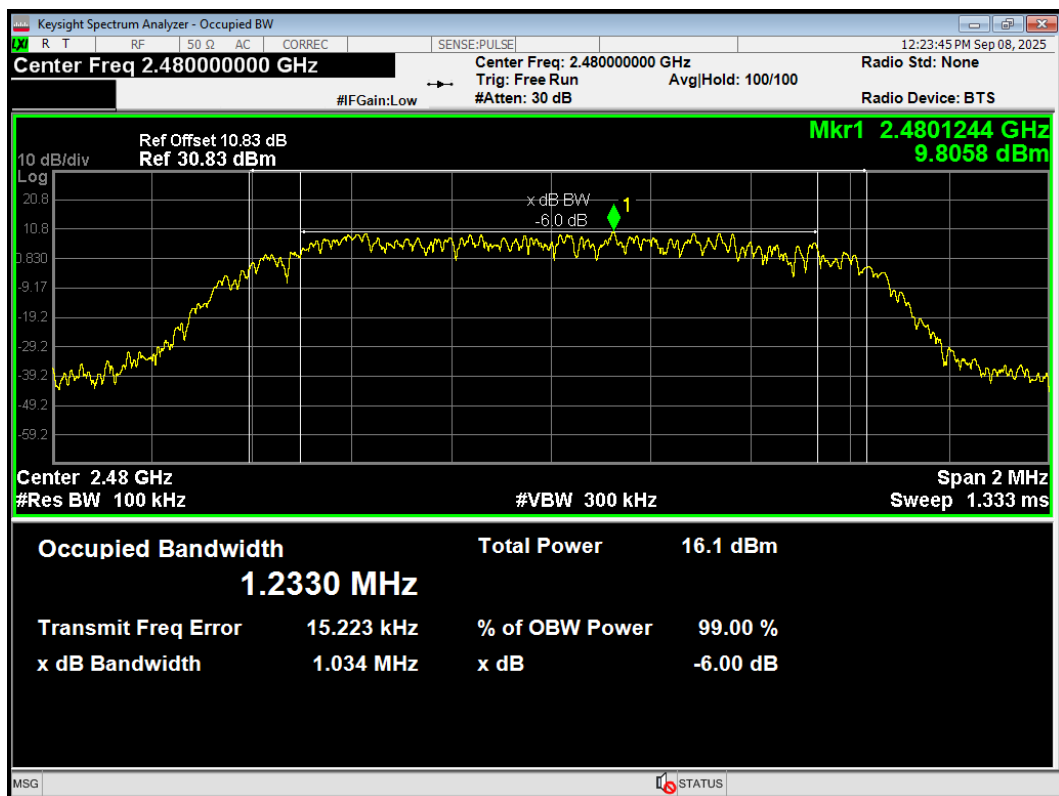
-6dB Bandwidth 8PSK 2402MHz



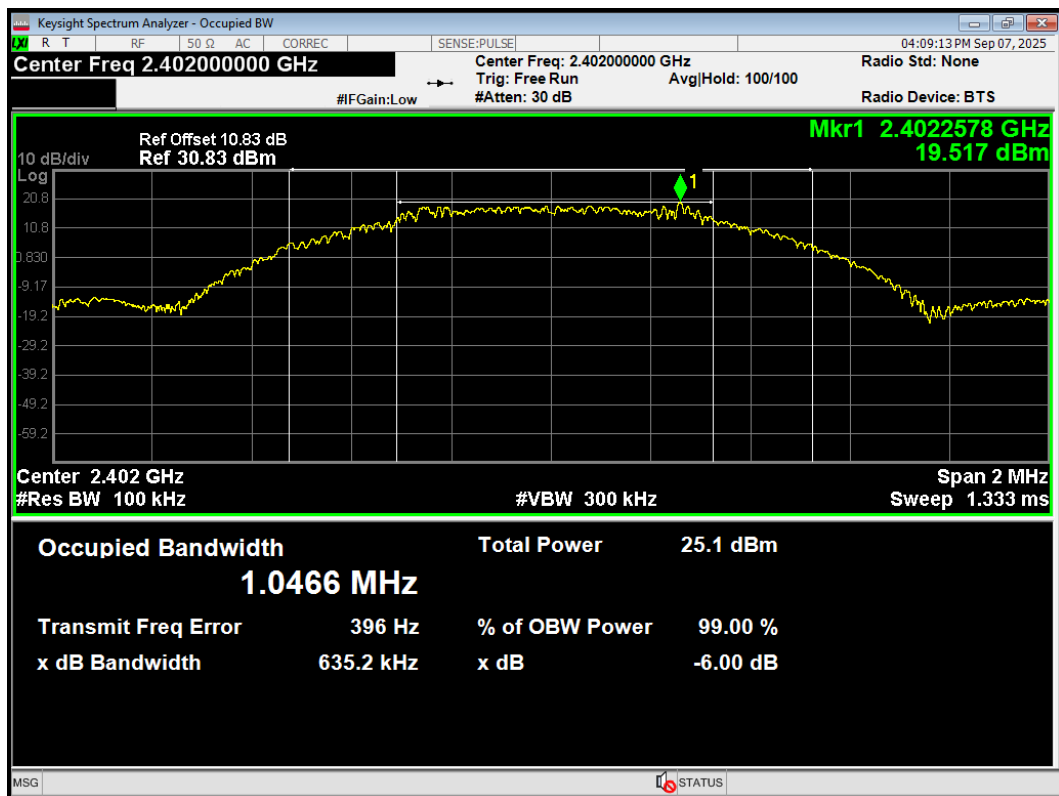
-6dB Bandwidth 8PSK 2440MHz



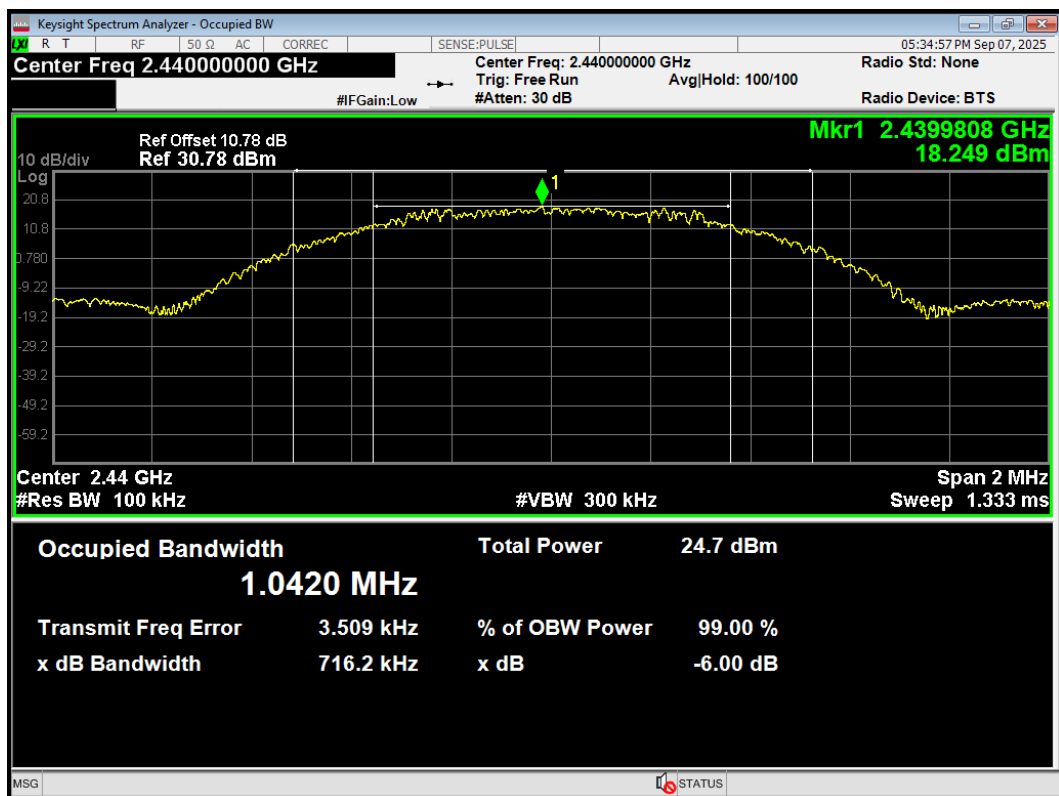
-6dB Bandwidth 8PSK 2480MHz



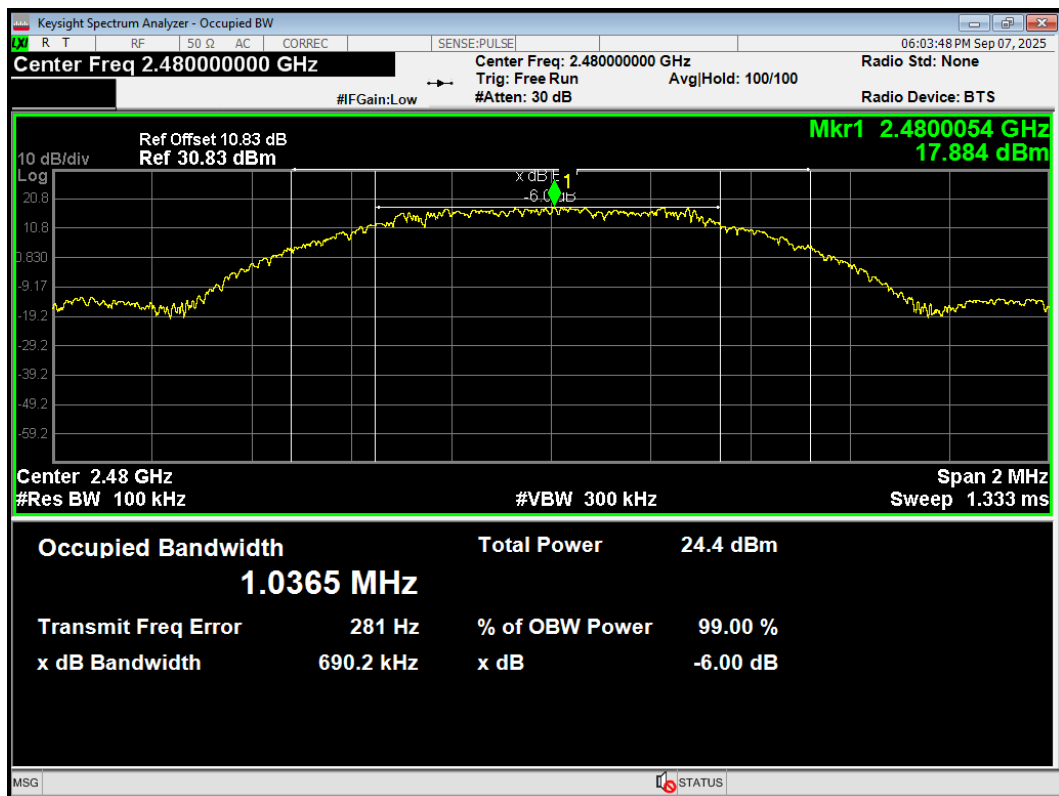
-6dB Bandwidth GFSK 2402MHz



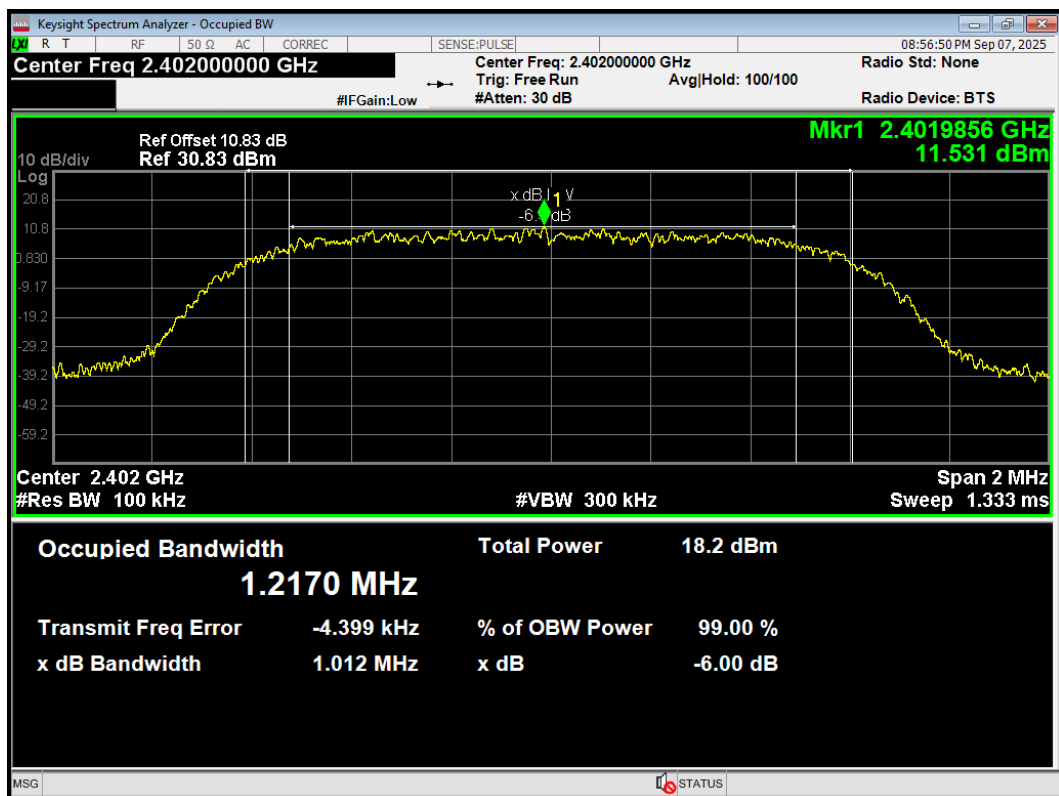
-6dB Bandwidth GFSK 2440MHz



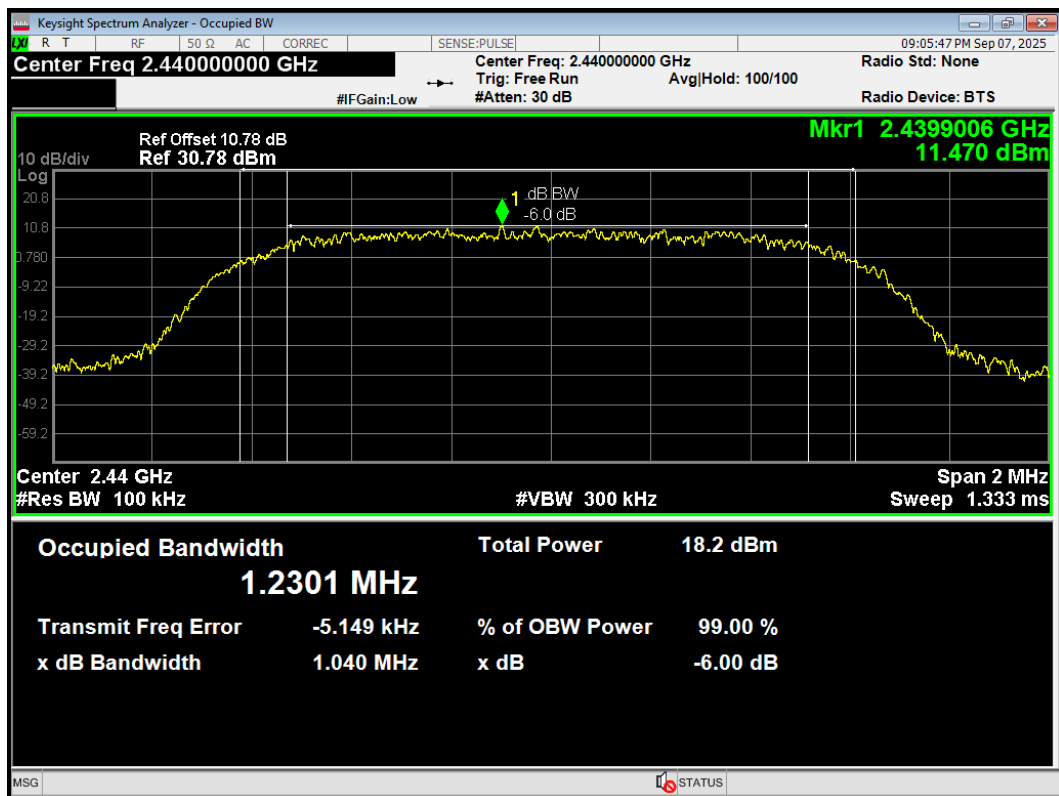
-6dB Bandwidth GFSK 2480MHz



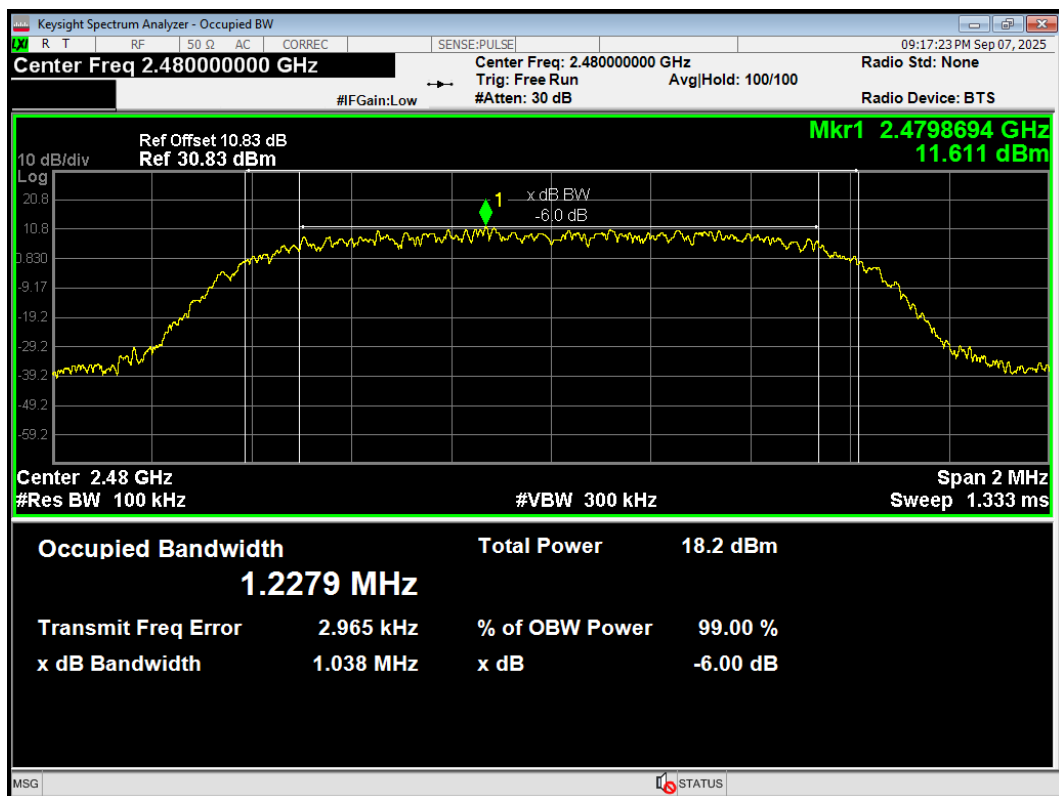
-6dB Bandwidth QPSK 2402MHz



-6dB Bandwidth QPSK 2440MHz



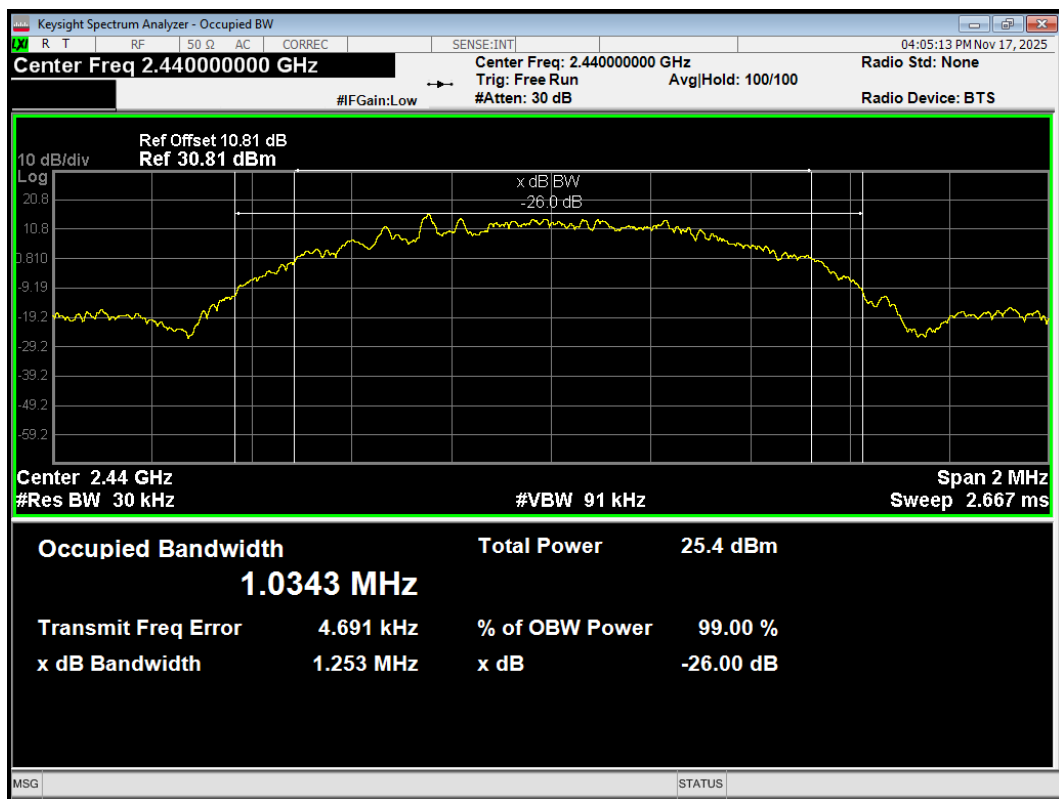
-6dB Bandwidth QPSK 2480MHz



Variant

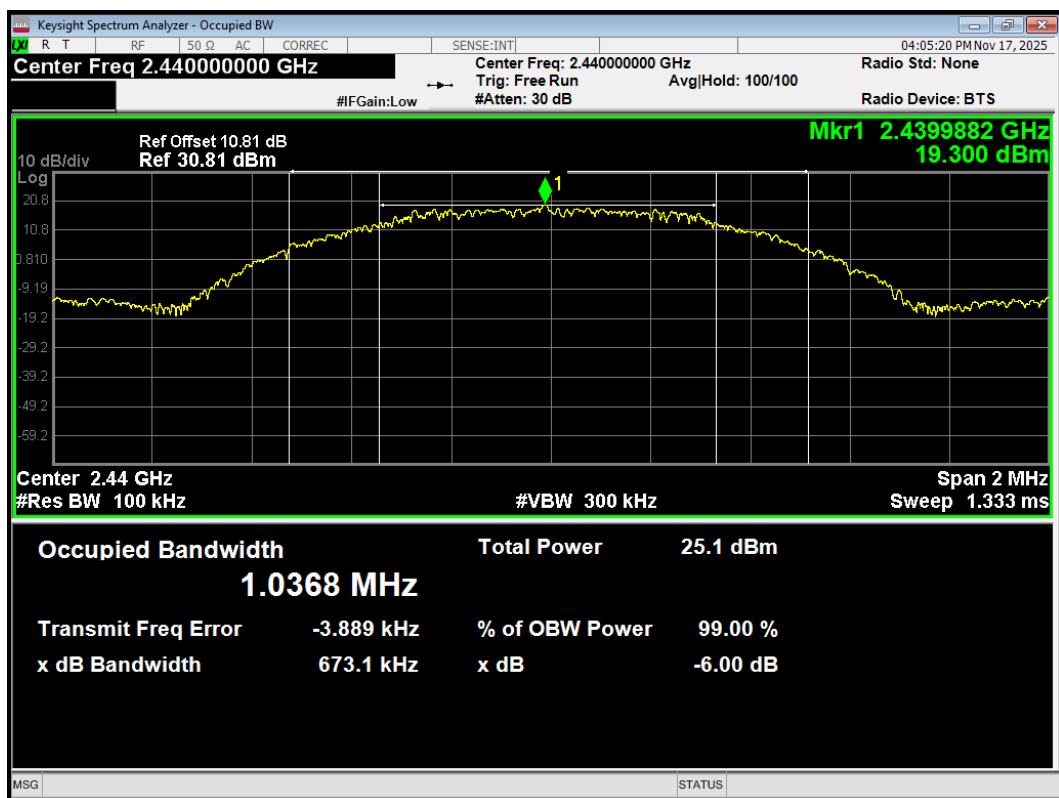
99%bandwidth

OBW GFSK 2440MHz



6 dB bandwidth

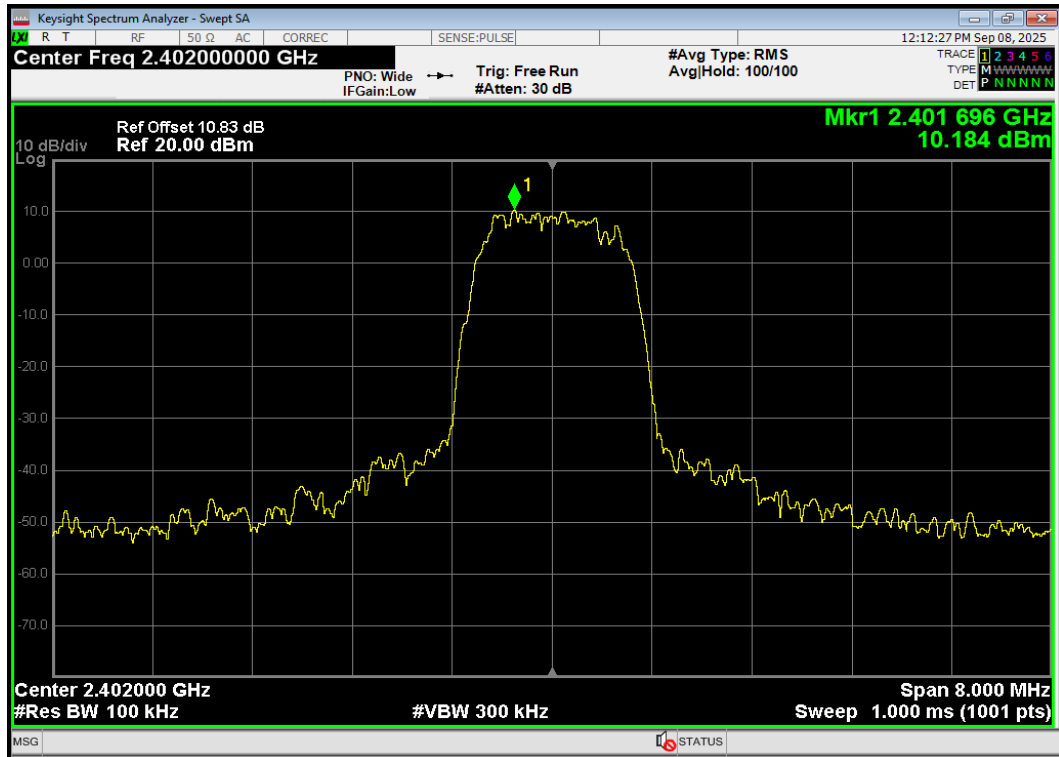
-6dB Bandwidth GFSK 2440MHz



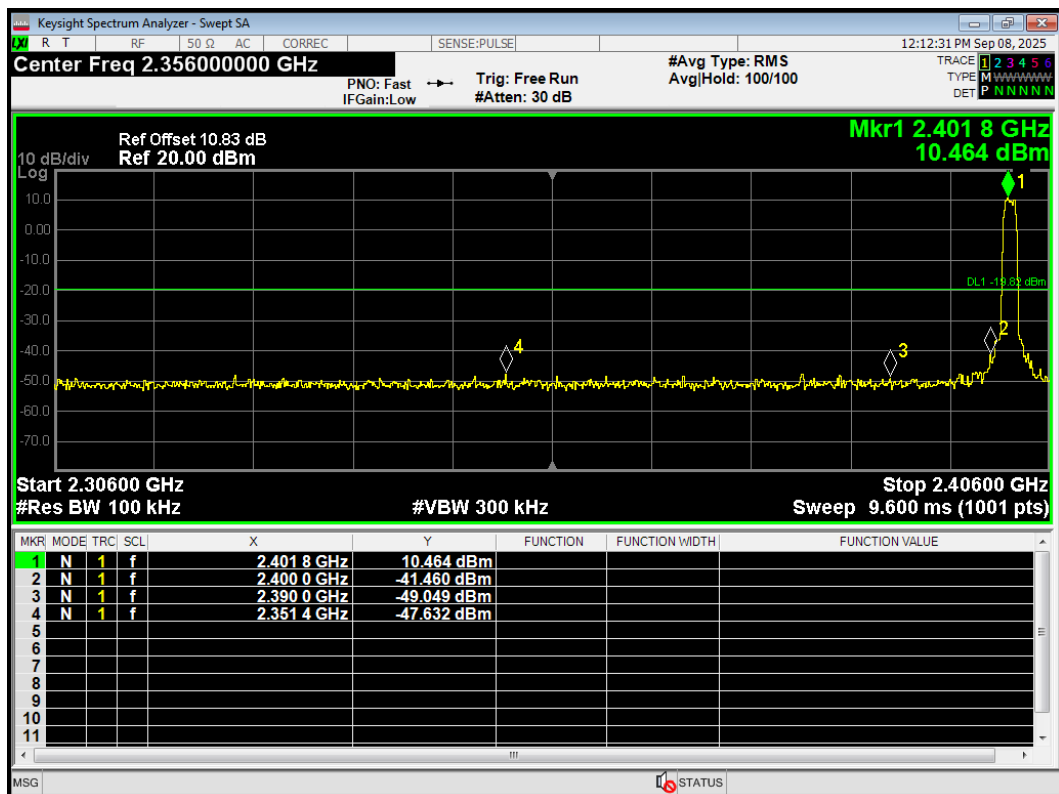
6.3. Band Edge

Original

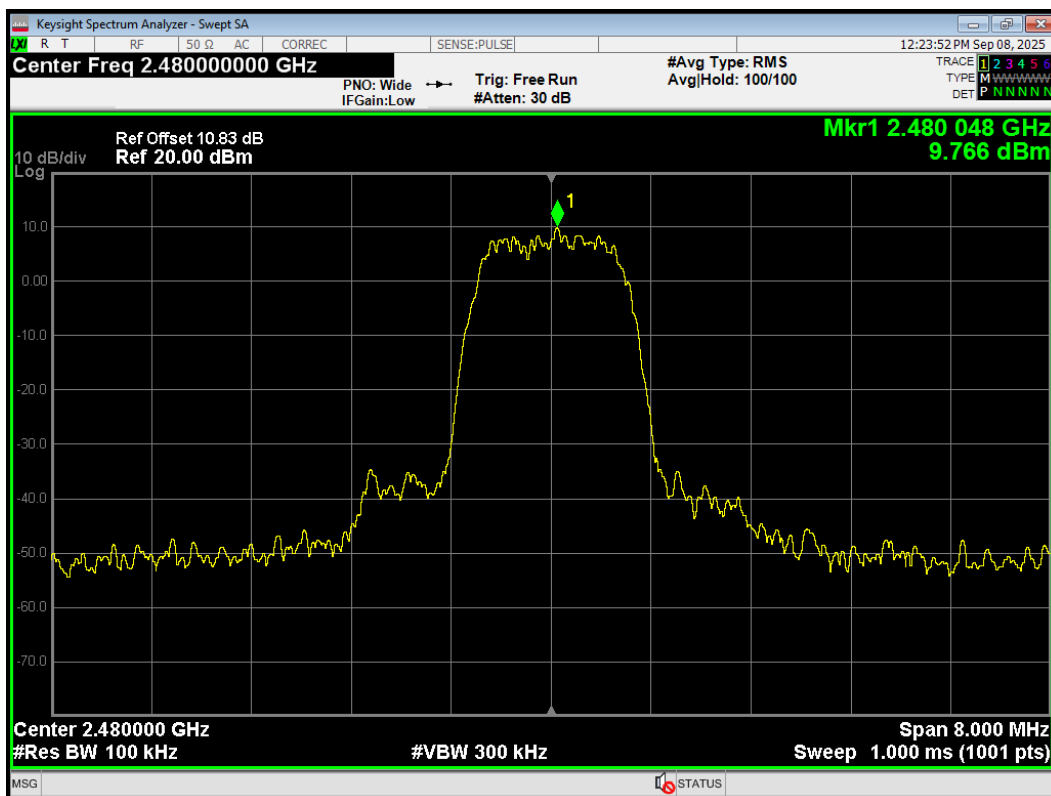
Band Edge 8PSK 2402MHz Ref



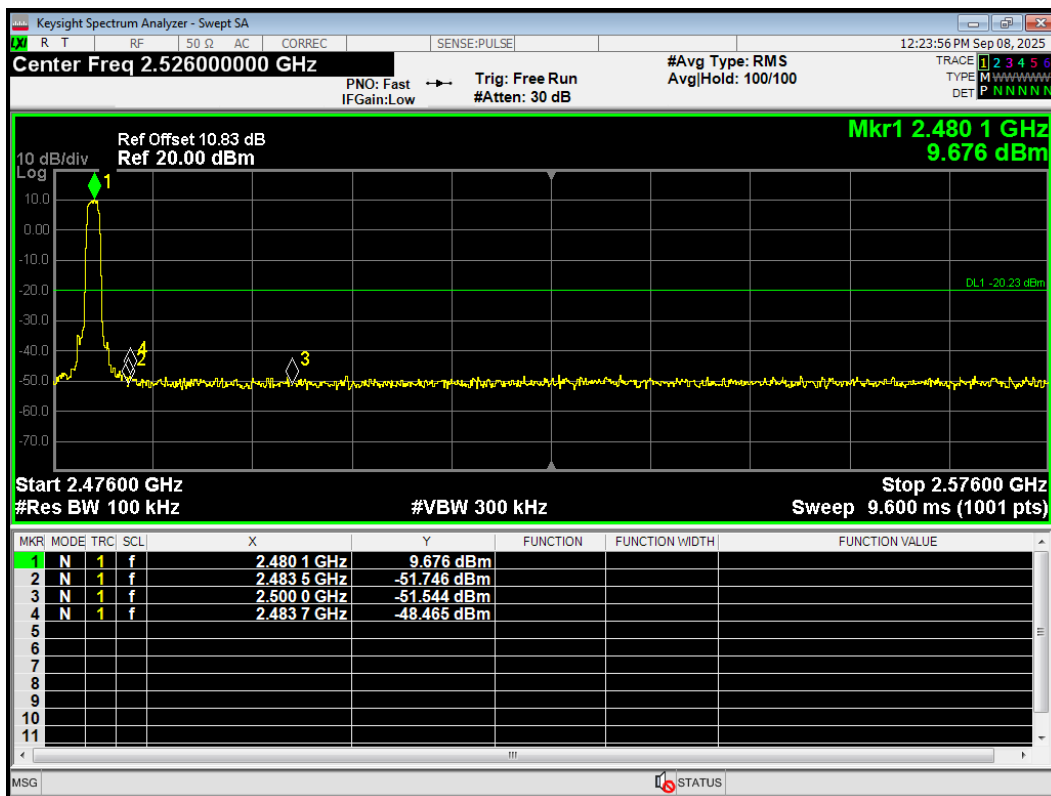
Band Edge 8PSK 2402MHz Emission



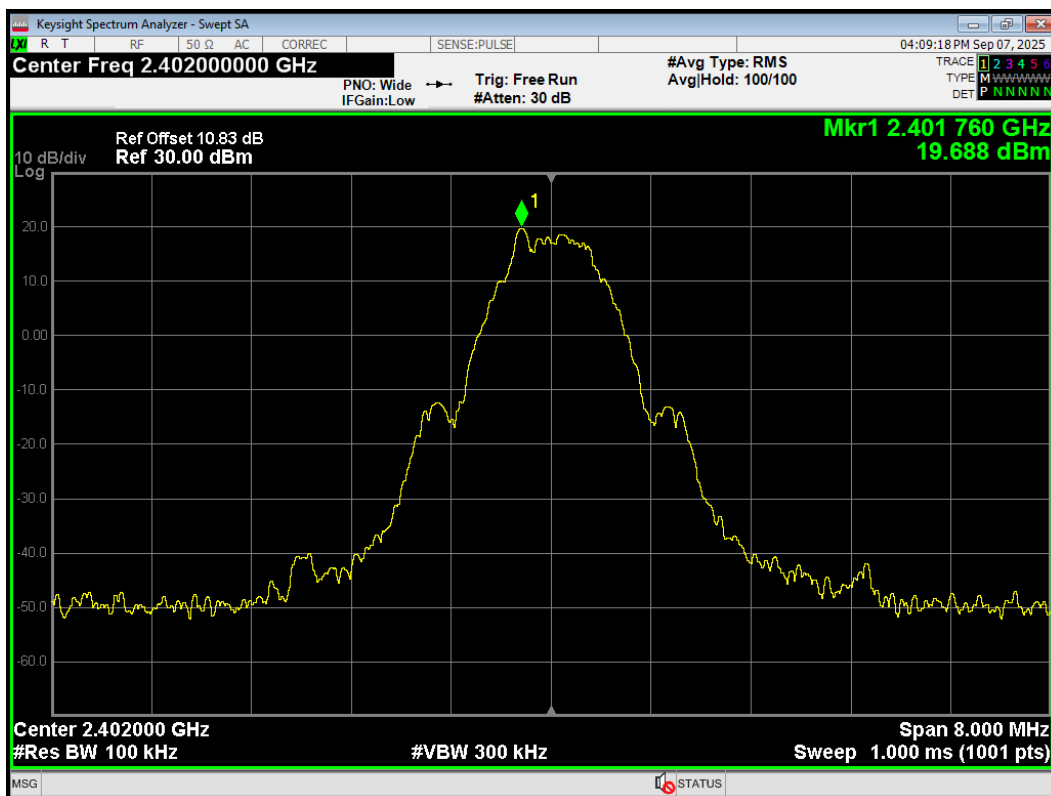
Band Edge 8PSK 2480MHz Ref



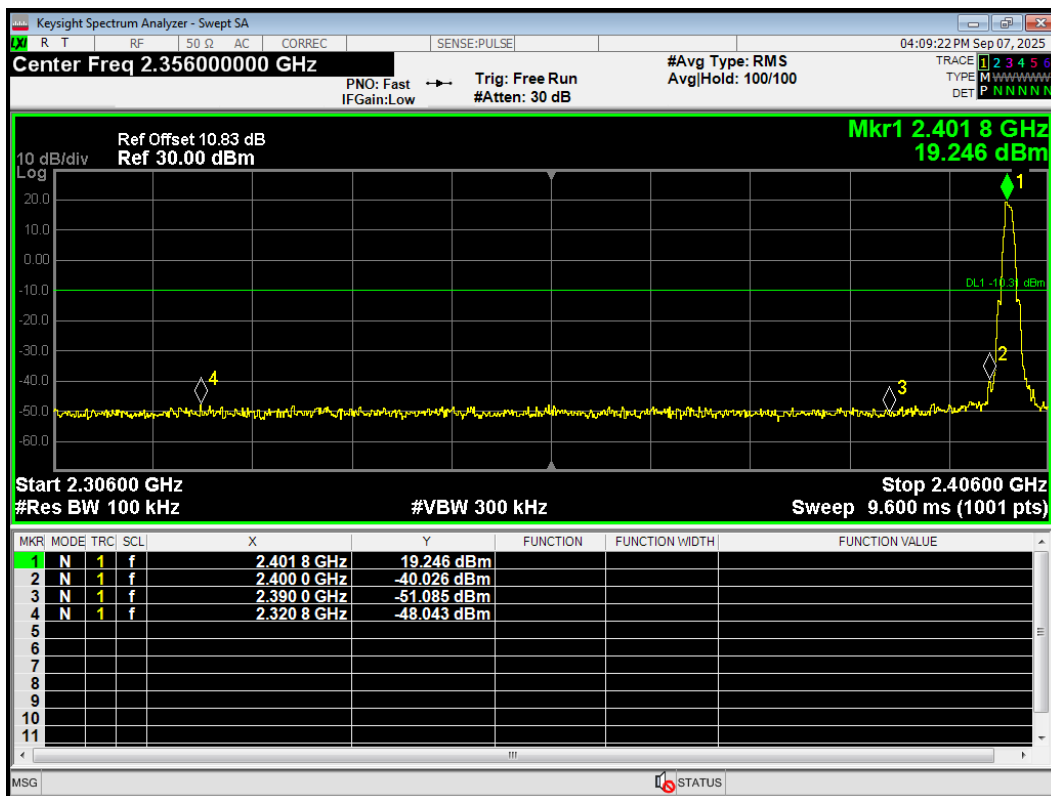
Band Edge 8PSK 2480MHz Emission



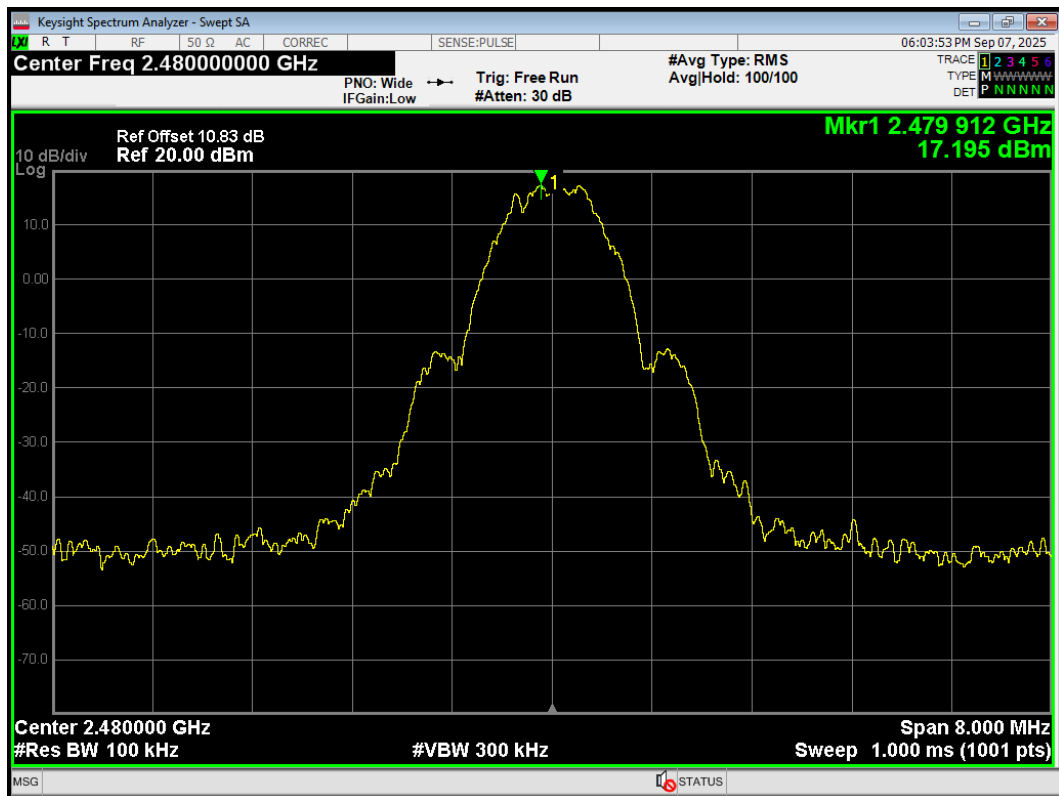
Band Edge GFSK 2402MHz Ref



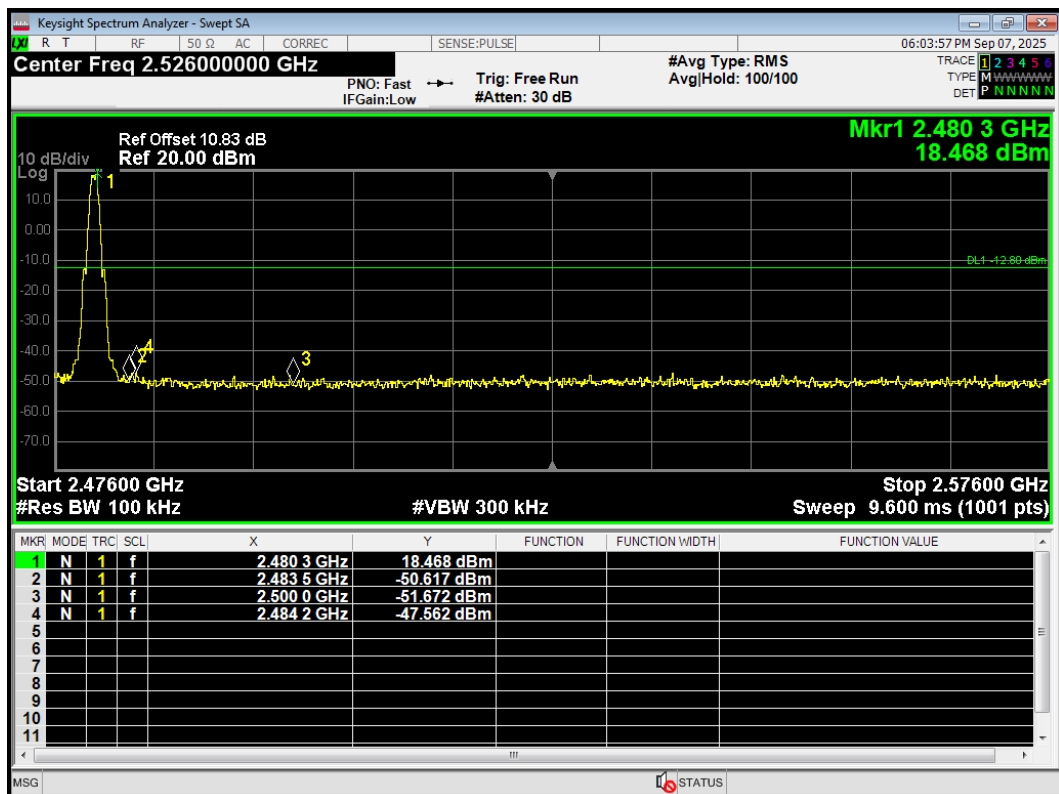
Band Edge GFSK 2402MHz Emission



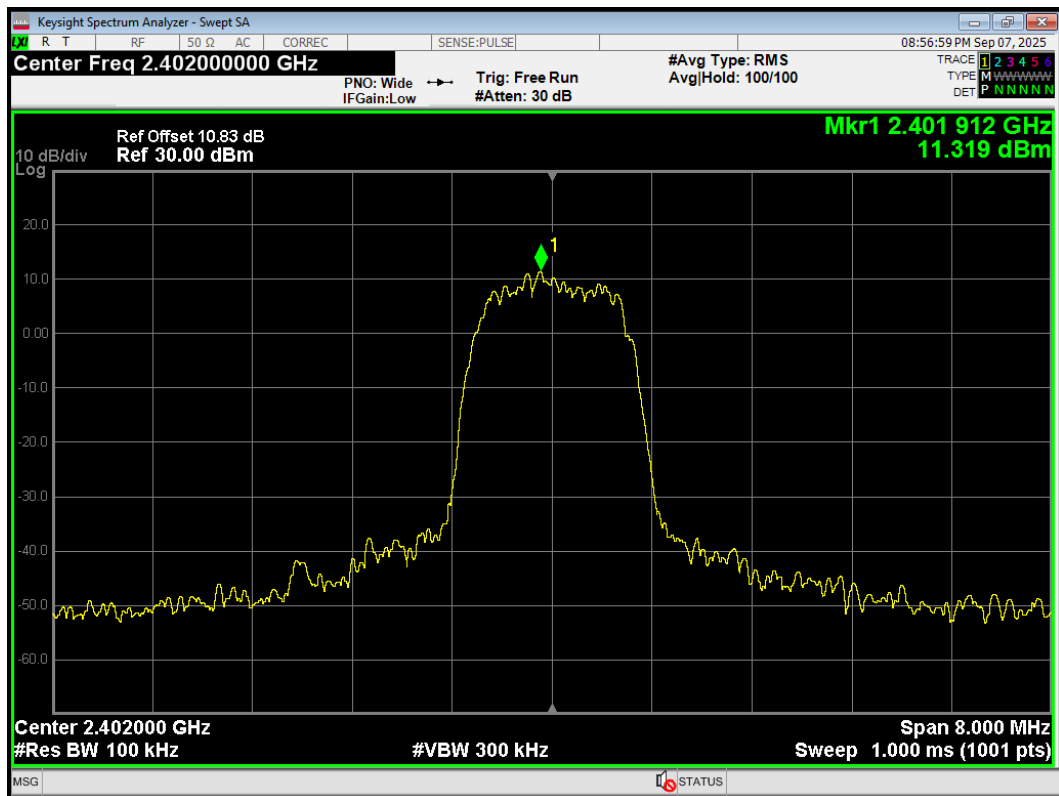
Band Edge GFSK 2480MHz Ref



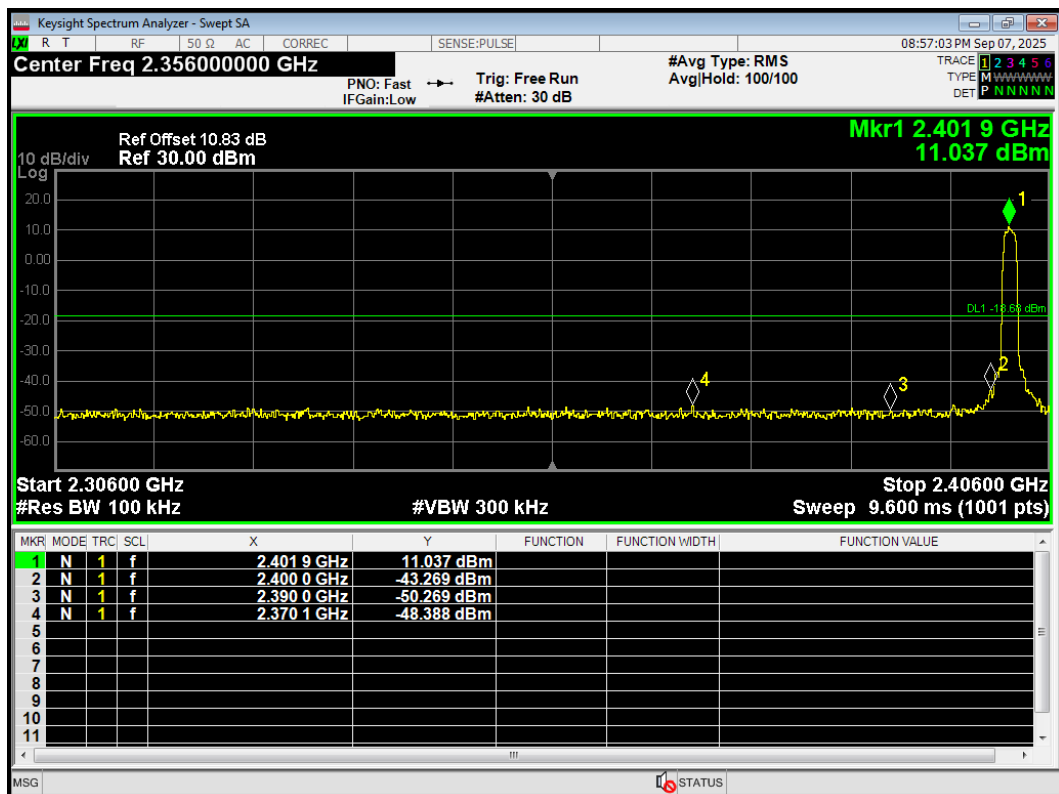
Band Edge GFSK 2480MHz Emission



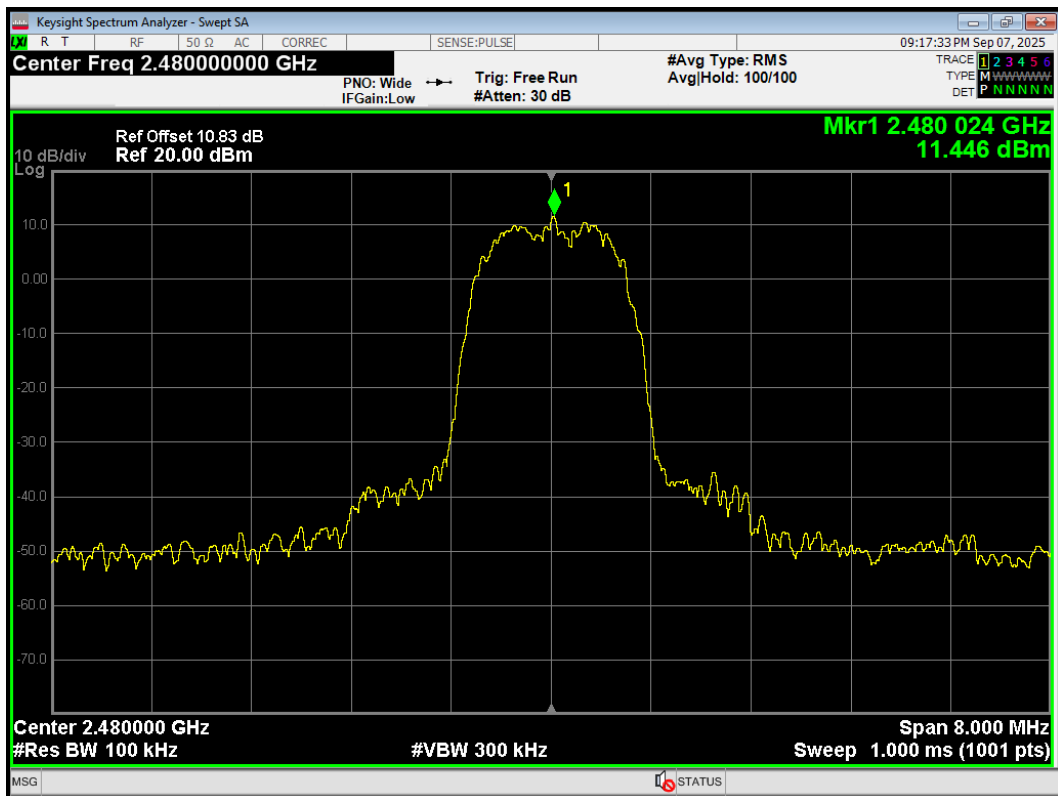
Band Edge QPSK 2402MHz Ref



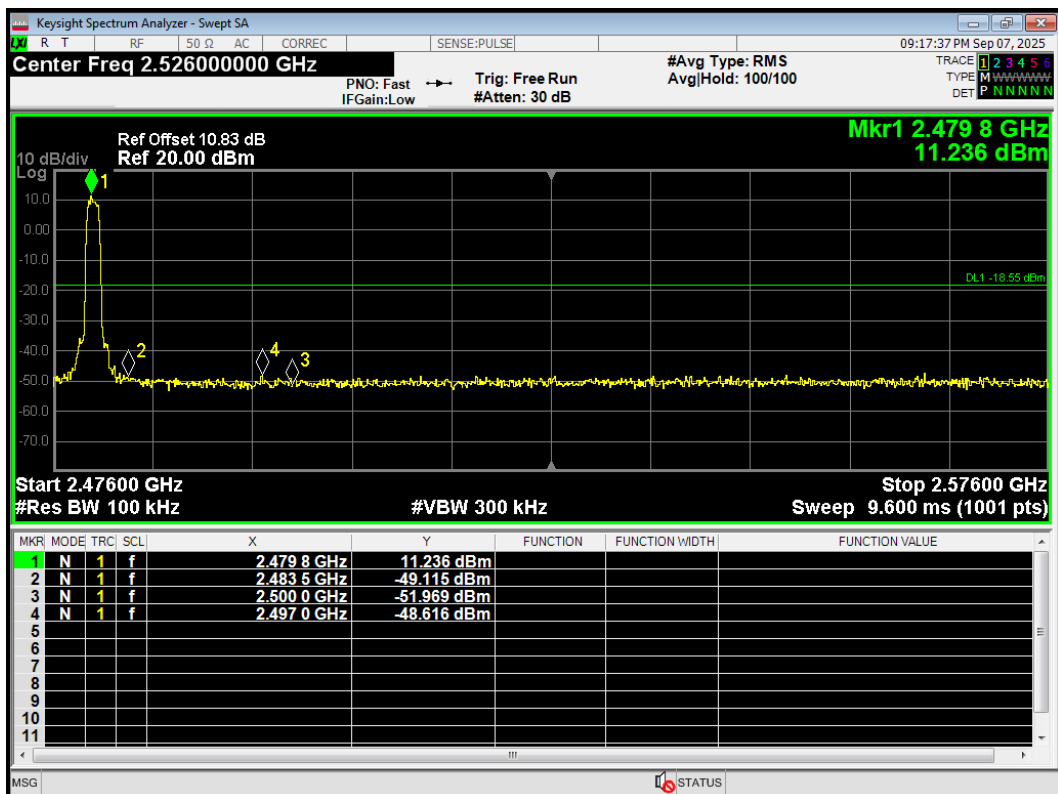
Band Edge QPSK 2402MHz Emission



Band Edge QPSK 2480MHz Ref

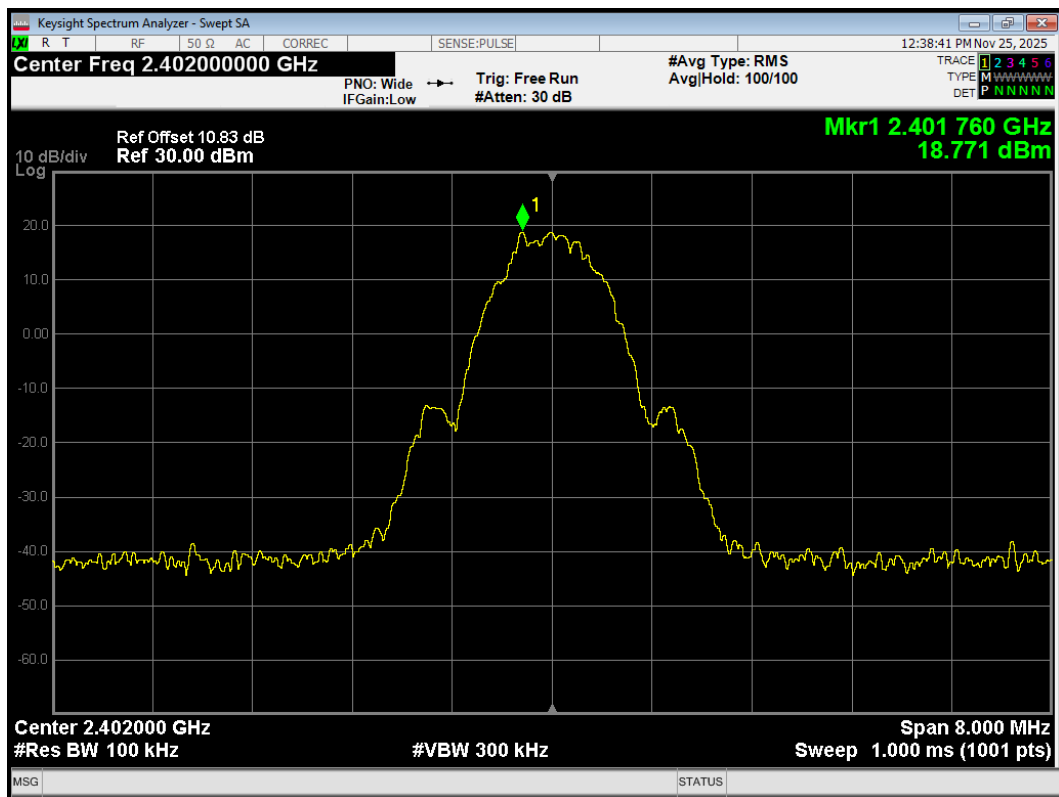


Band Edge QPSK 2480MHz Emission

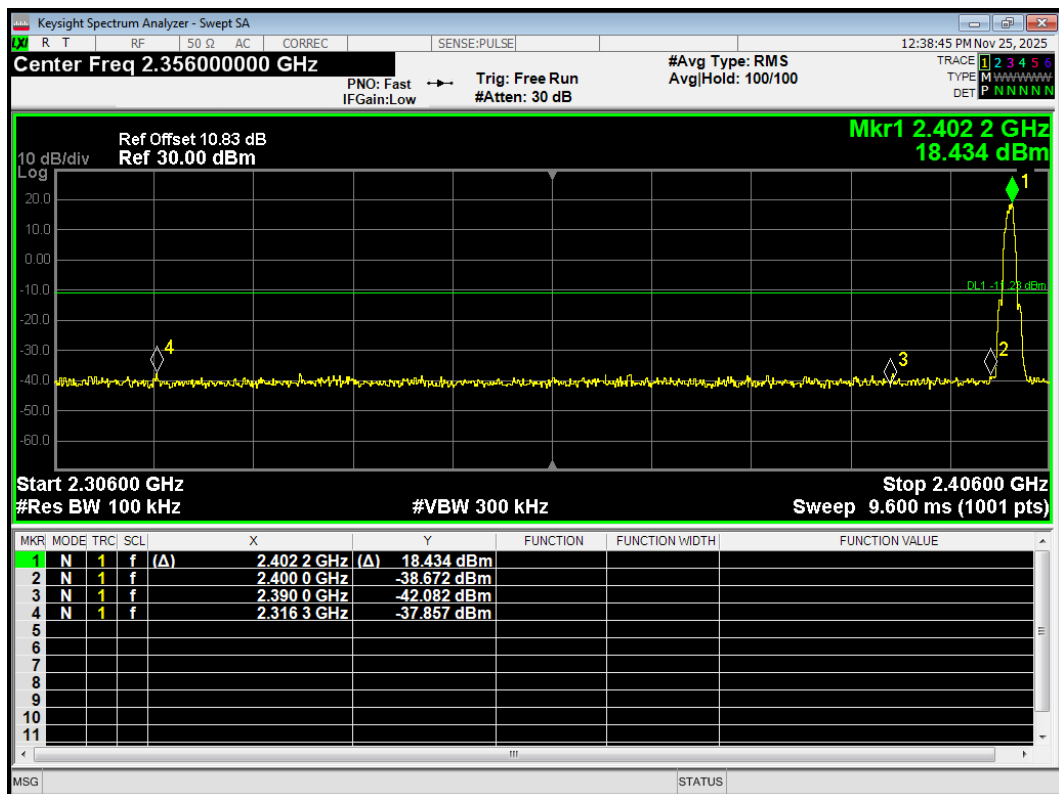


Variant

Band Edge GFSK 2402MHz Ref



Band Edge GFSK 2402MHz Emission



6.4. Power Spectral Density

Original

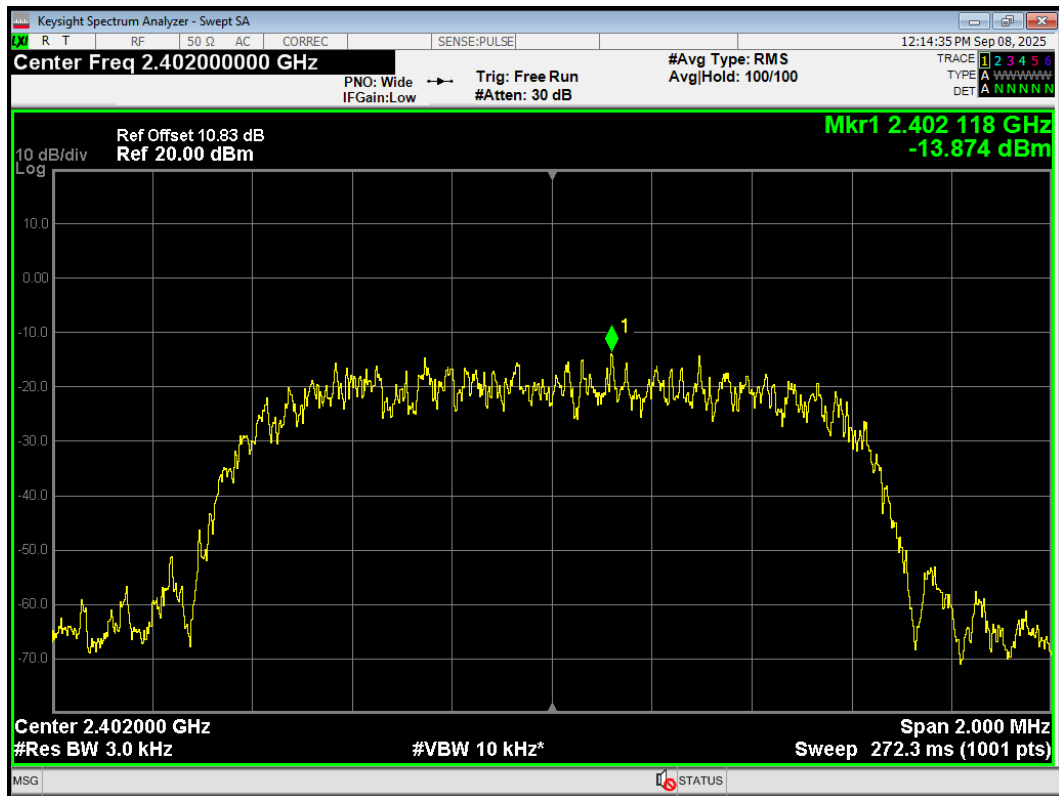
Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
NearLink SLE GFSK (1M)	2402/CH0	-5.90	-1.27	8	PASS
	2440/CH38	-5.60	-0.97	8	PASS
	2480/CH78	-5.83	-1.20	8	PASS
NearLink SLE $\pi/4$ QPSK (1M)	2402/CH0	-13.13	-7.14	8	PASS
	2440/CH38	-13.21	-7.22	8	PASS
	2480/CH78	-12.72	-6.73	8	PASS
NearLink SLE $\pi/8$ 8PSK (1M)	2402/CH0	-13.87	-6.24	8	PASS
	2440/CH38	-14.00	-6.37	8	PASS
	2480/CH78	-14.04	-6.41	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

Variant

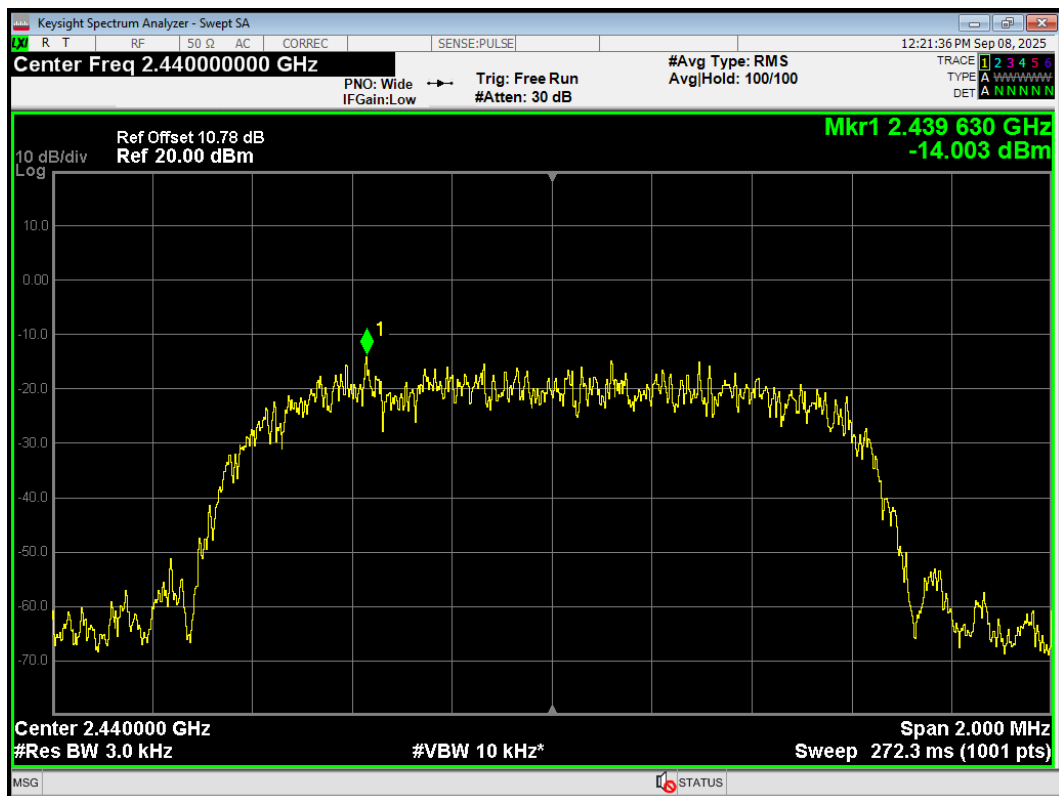
Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
NearLink SLE GFSK (1M)	2440/CH38	-4.13	0.50	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

Original

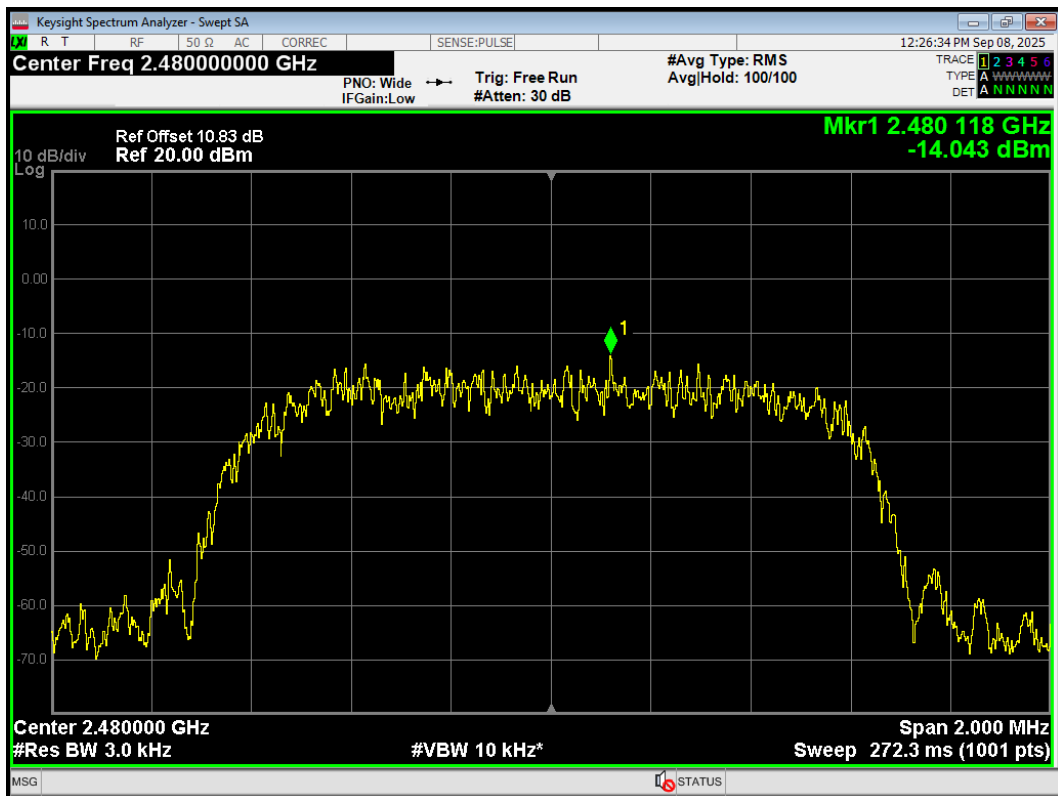
PSD 8PSK 2402MHz



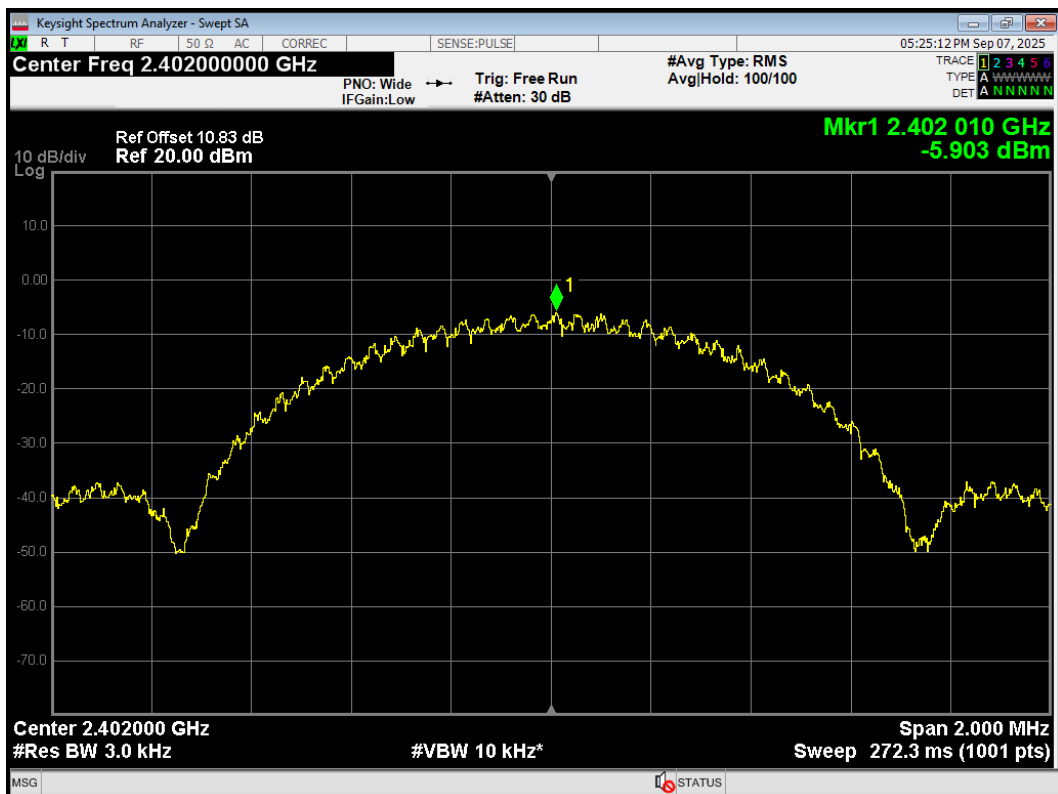
PSD 8PSK 2440MHz



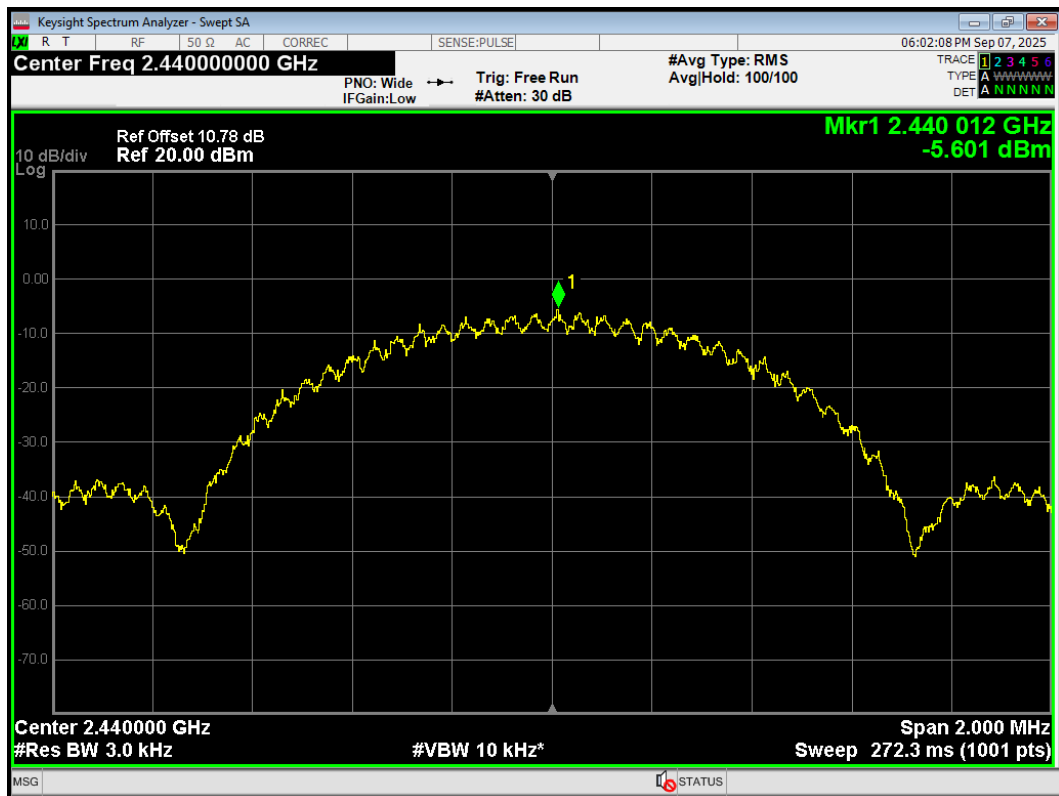
PSD 8PSK 2480MHz



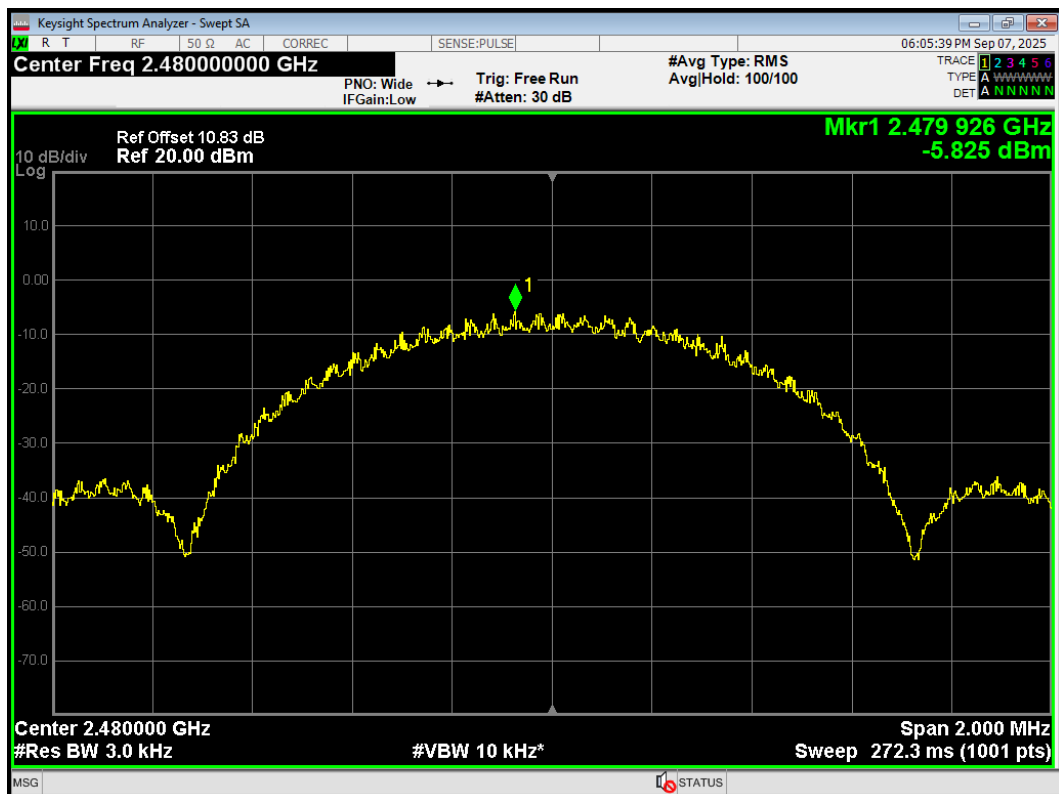
PSD GFSK 2402MHz



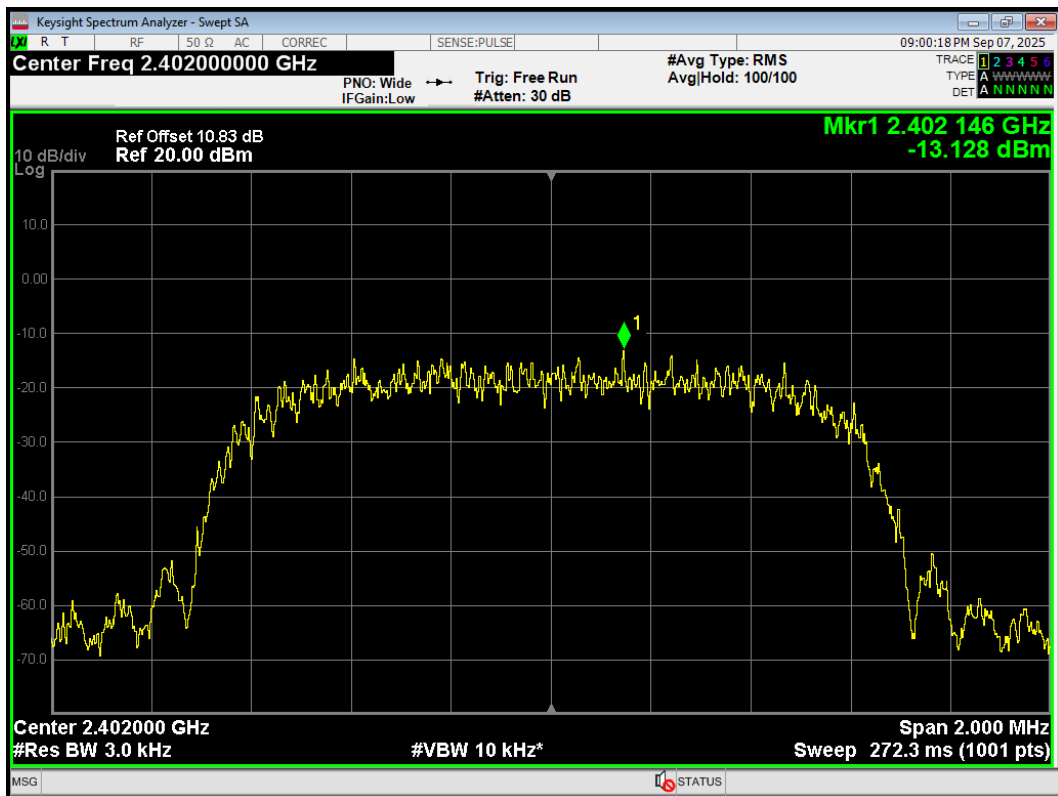
PSD GFSK 2440MHz



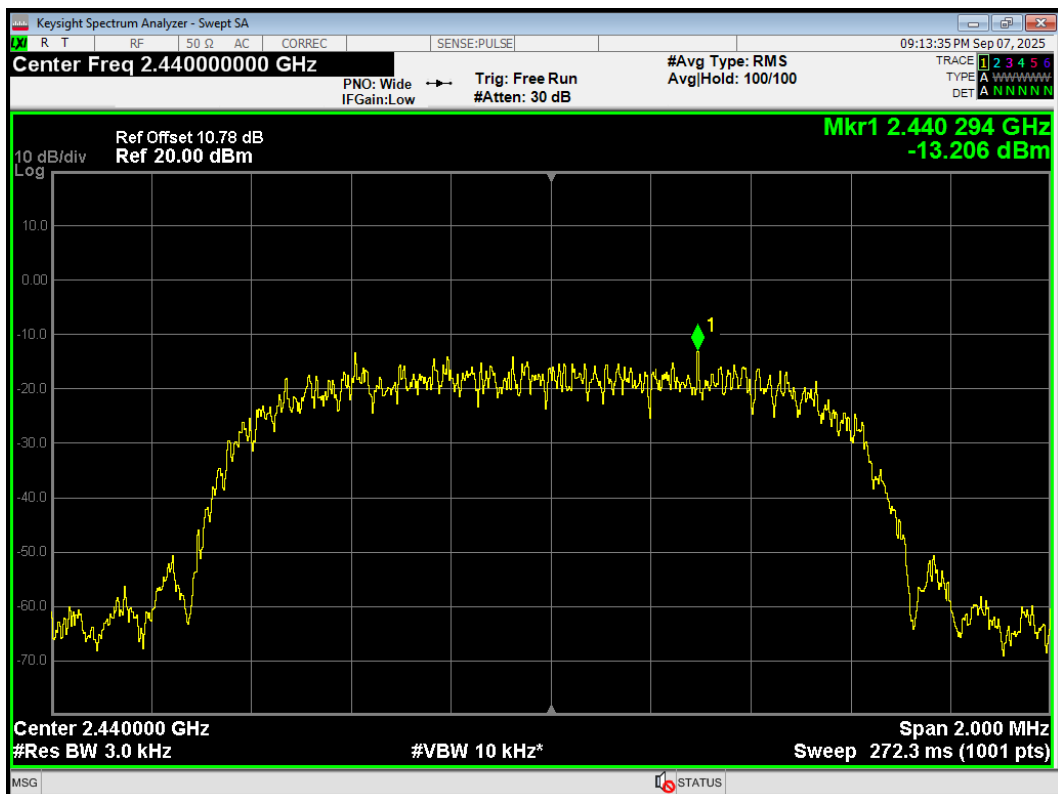
PSD GFSK 2480MHz



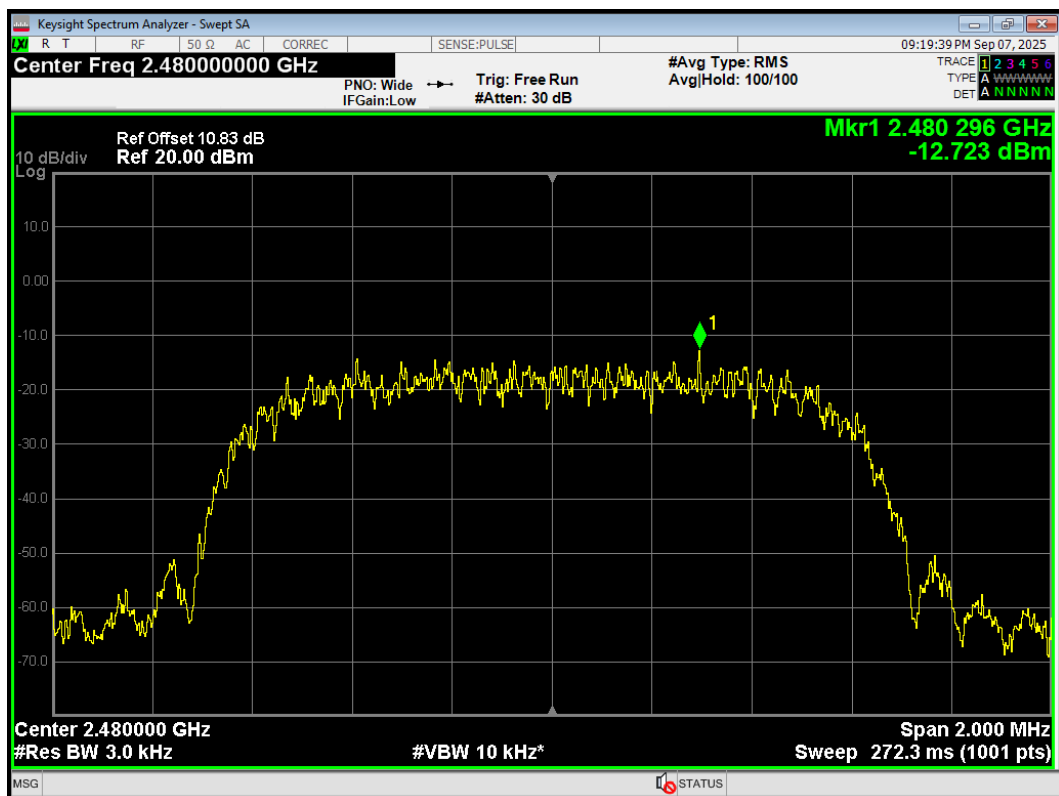
PSD QPSK 2402MHz



PSD QPSK 2440MHz

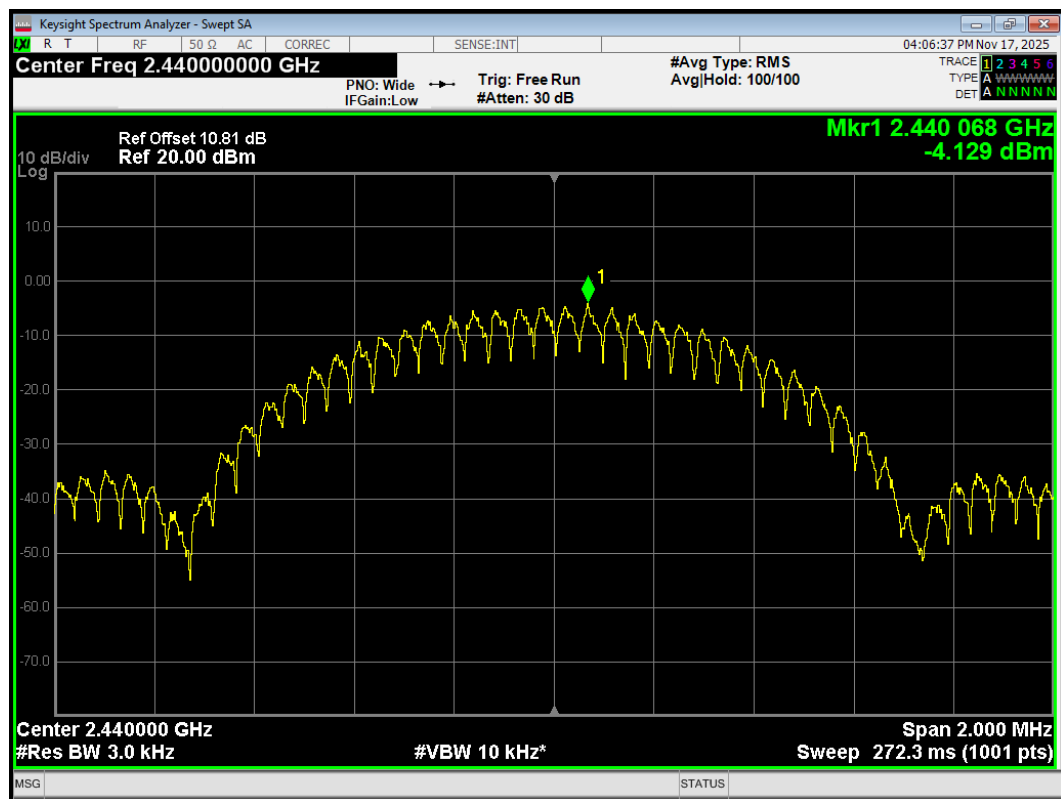


PSD QPSK 2480MHz



Variant

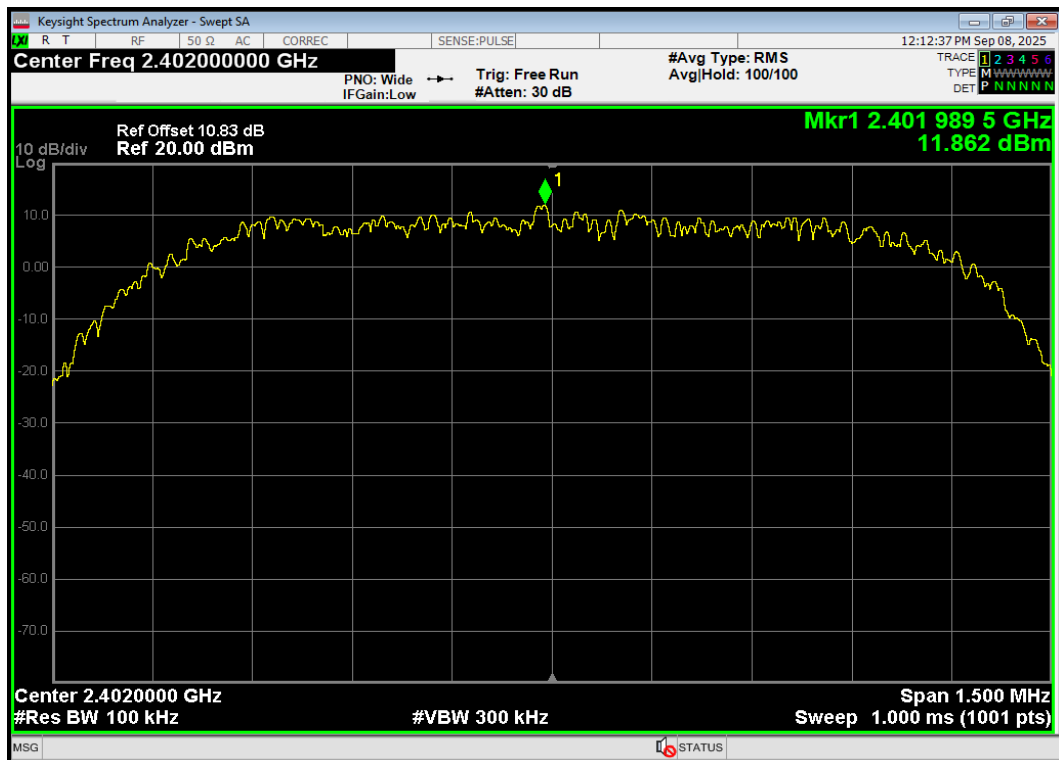
PSD GFSK 2440MHz



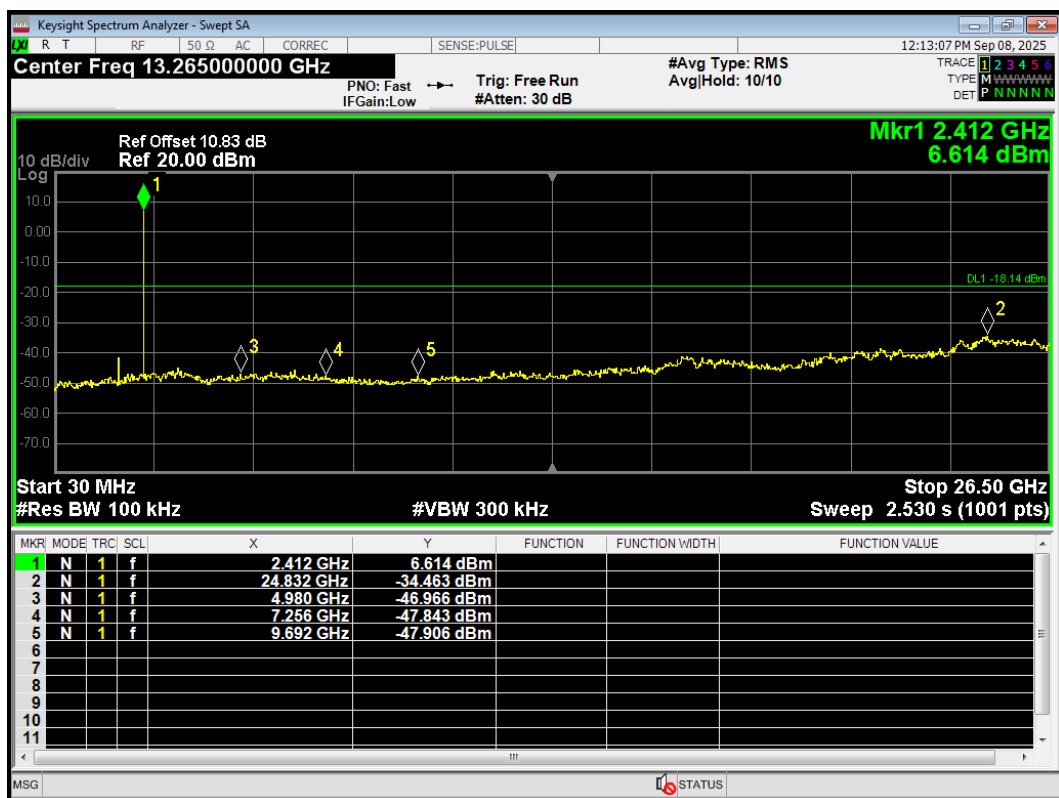
6.5. Spurious RF Conducted Emissions

Original

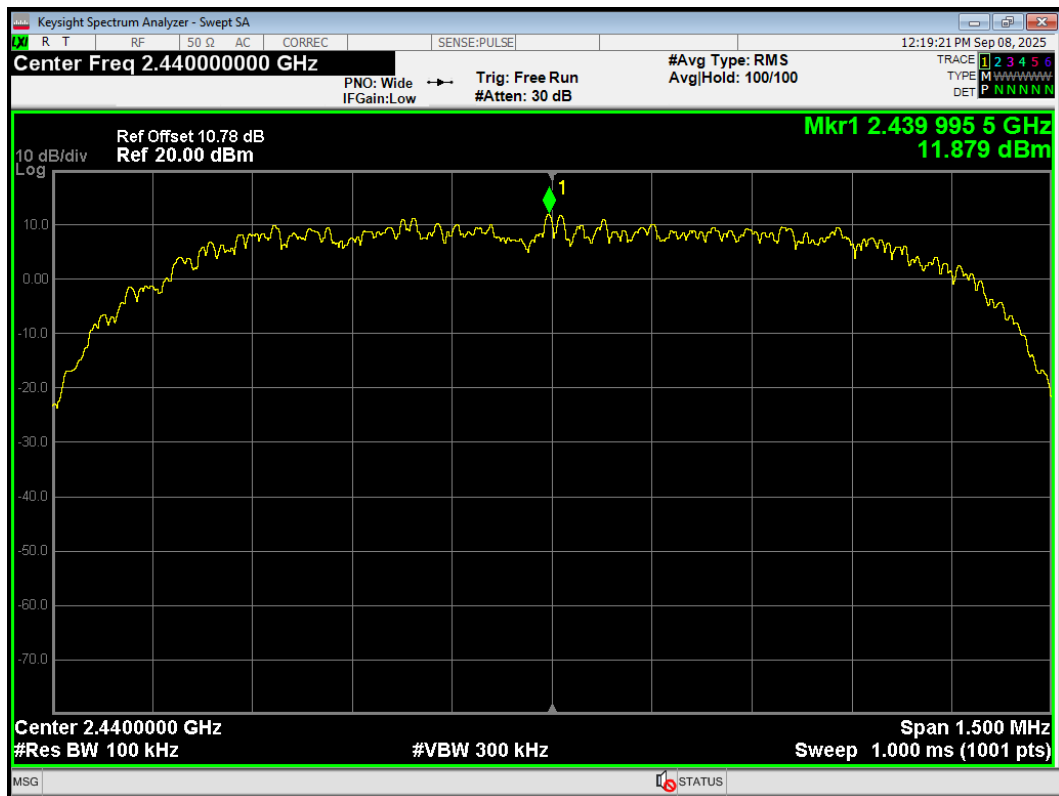
Tx. Spurious 8PSK 2402MHz Ref



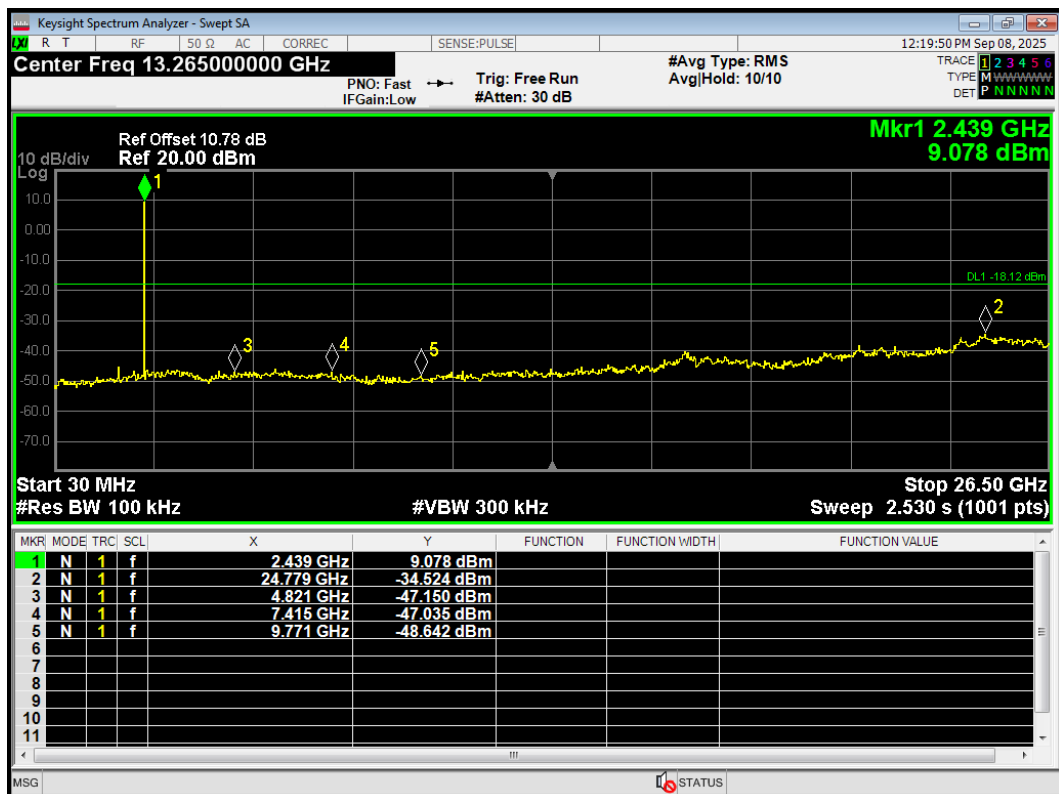
Tx. Spurious 8PSK 2402MHz Emission



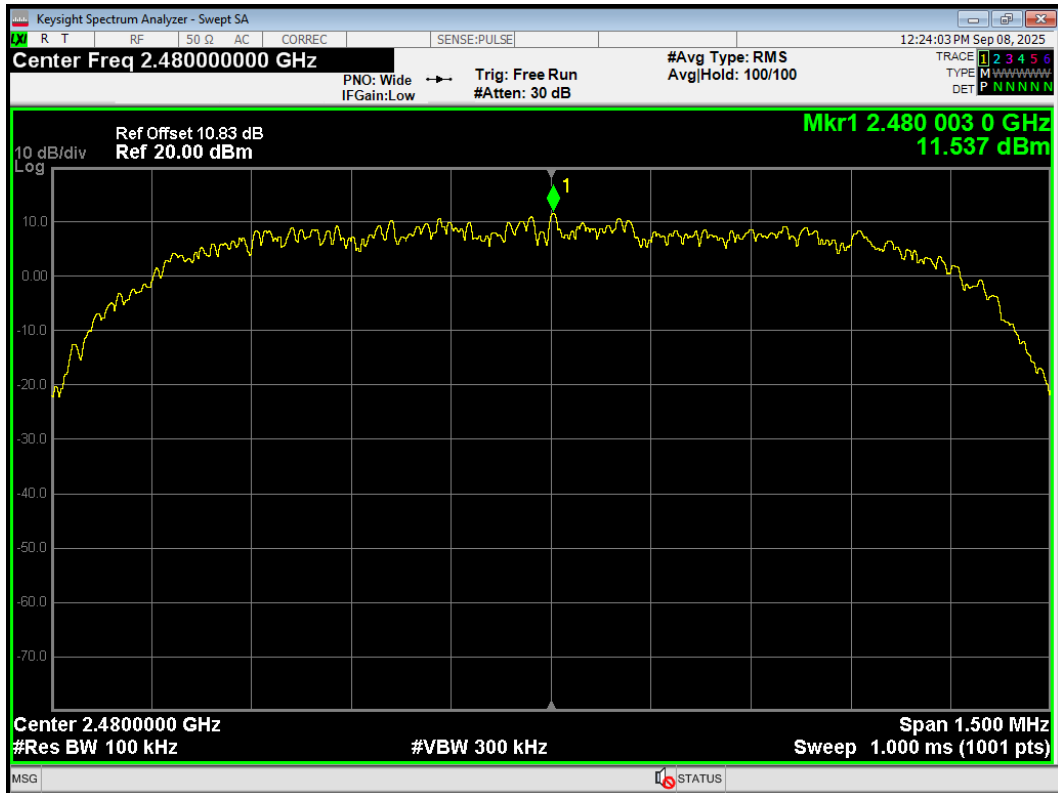
Tx. Spurious 8PSK 2440MHz Ref



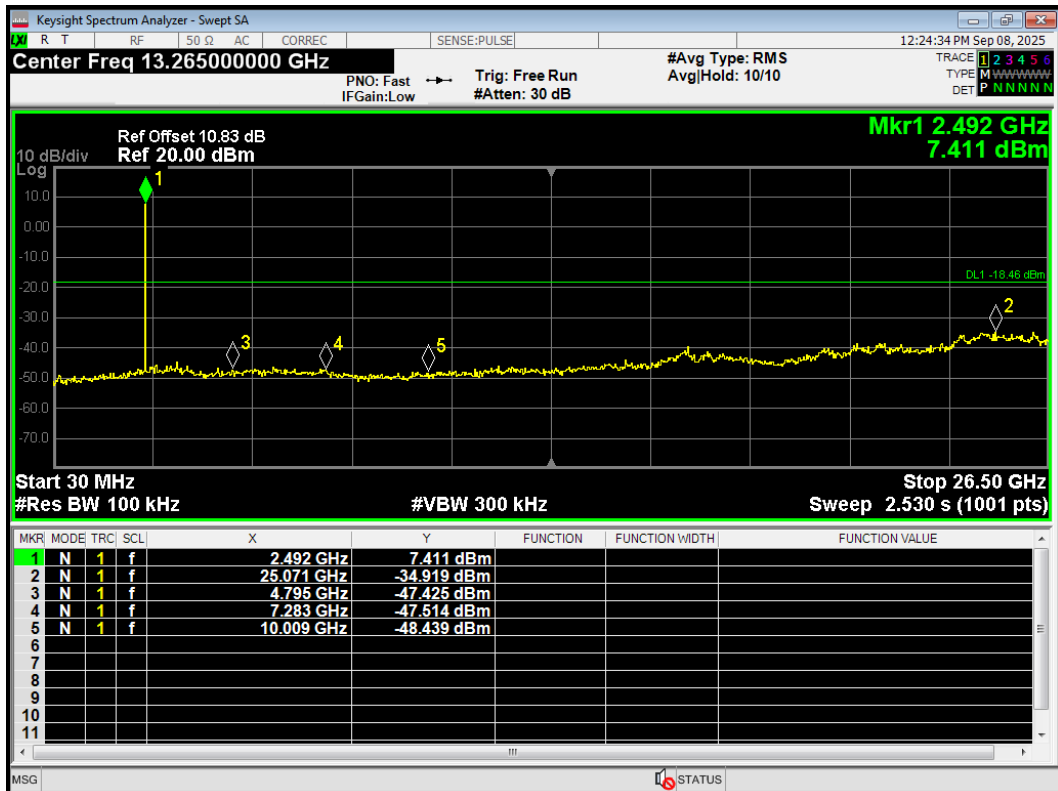
Tx. Spurious 8PSK 2440MHz Emission



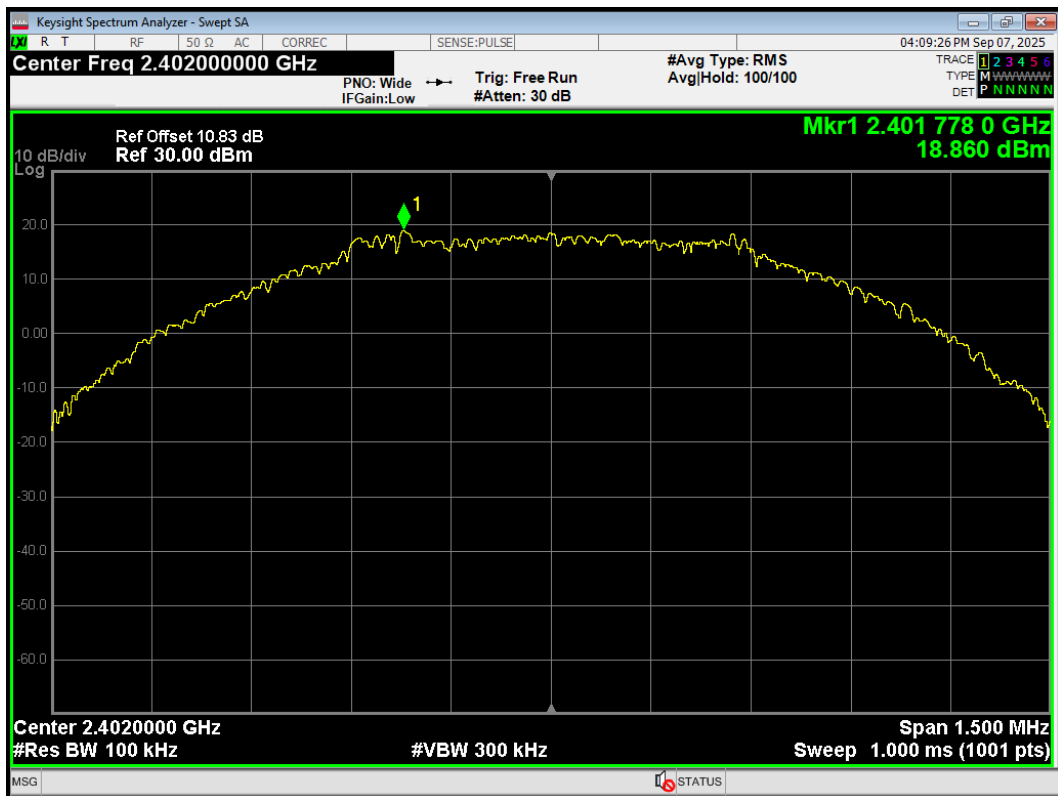
Tx. Spurious 8PSK 2480MHz Ref



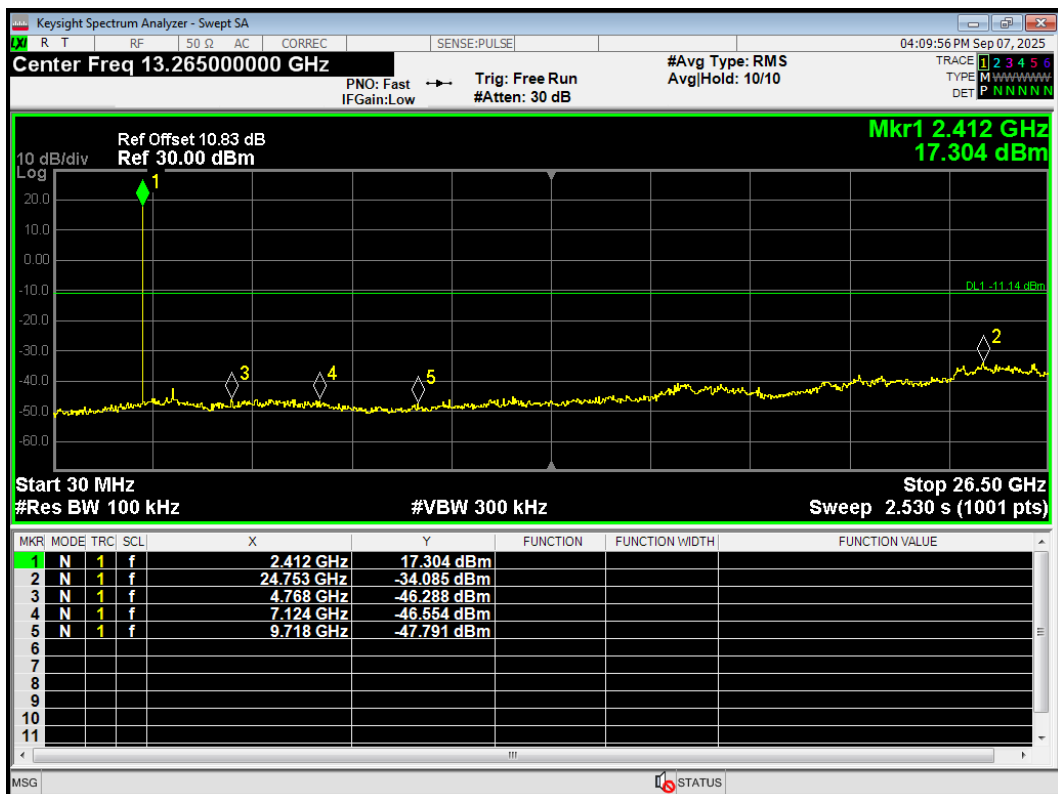
Tx. Spurious 8PSK 2480MHz Emission



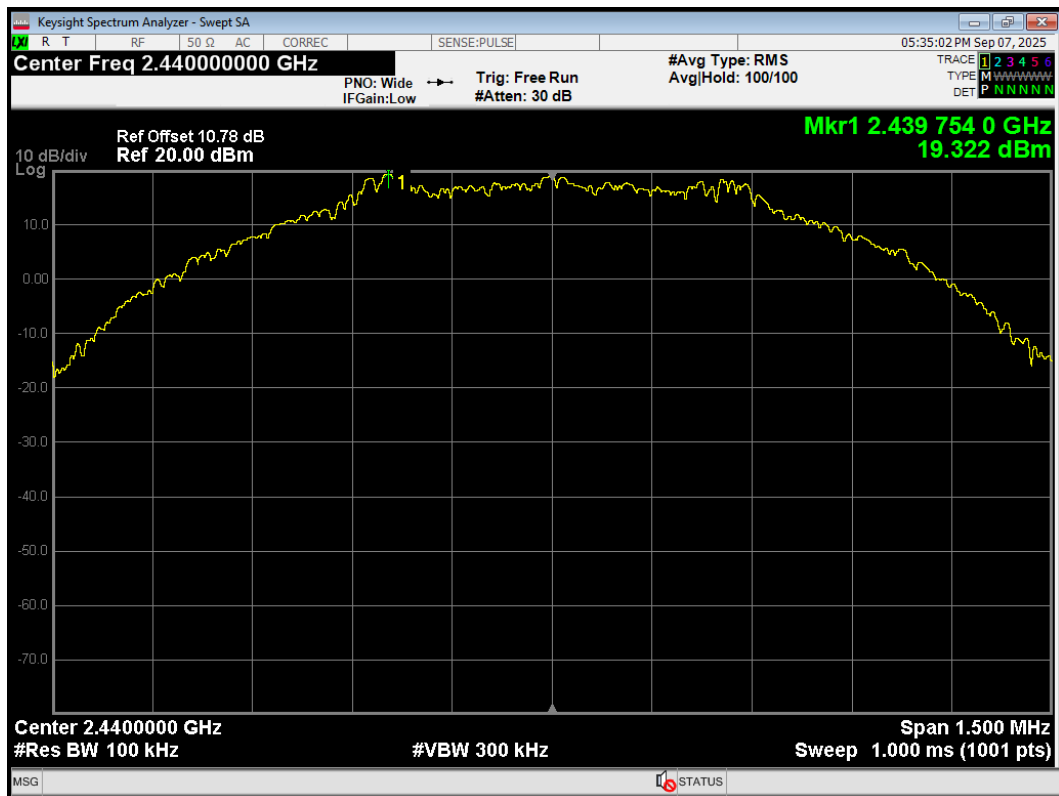
Tx. Spurious GFSK 2402MHz Ref



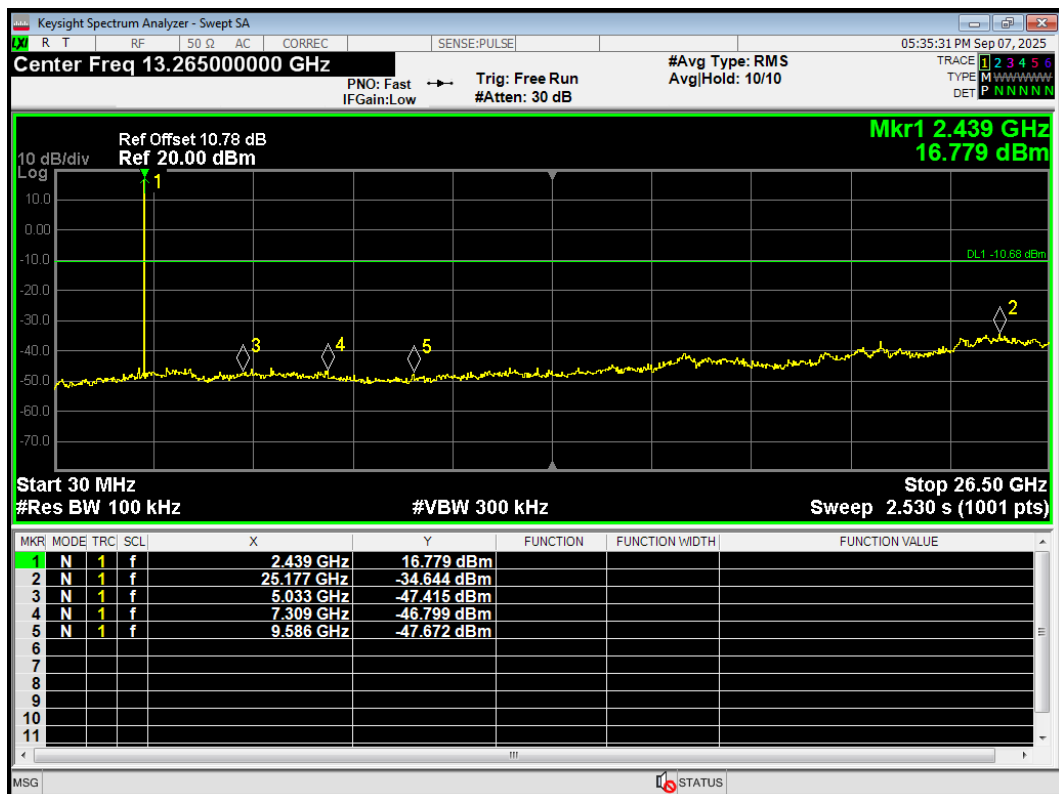
Tx. Spurious GFSK 2402MHz Emission



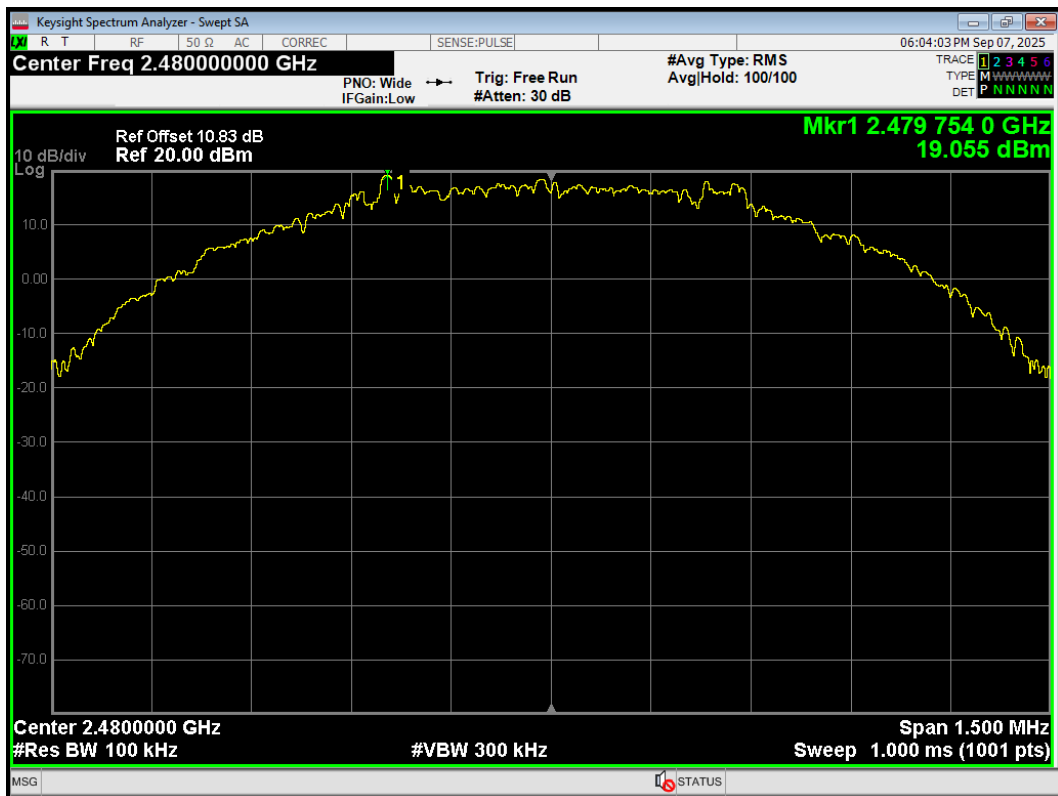
Tx. Spurious GFSK 2440MHz Ref



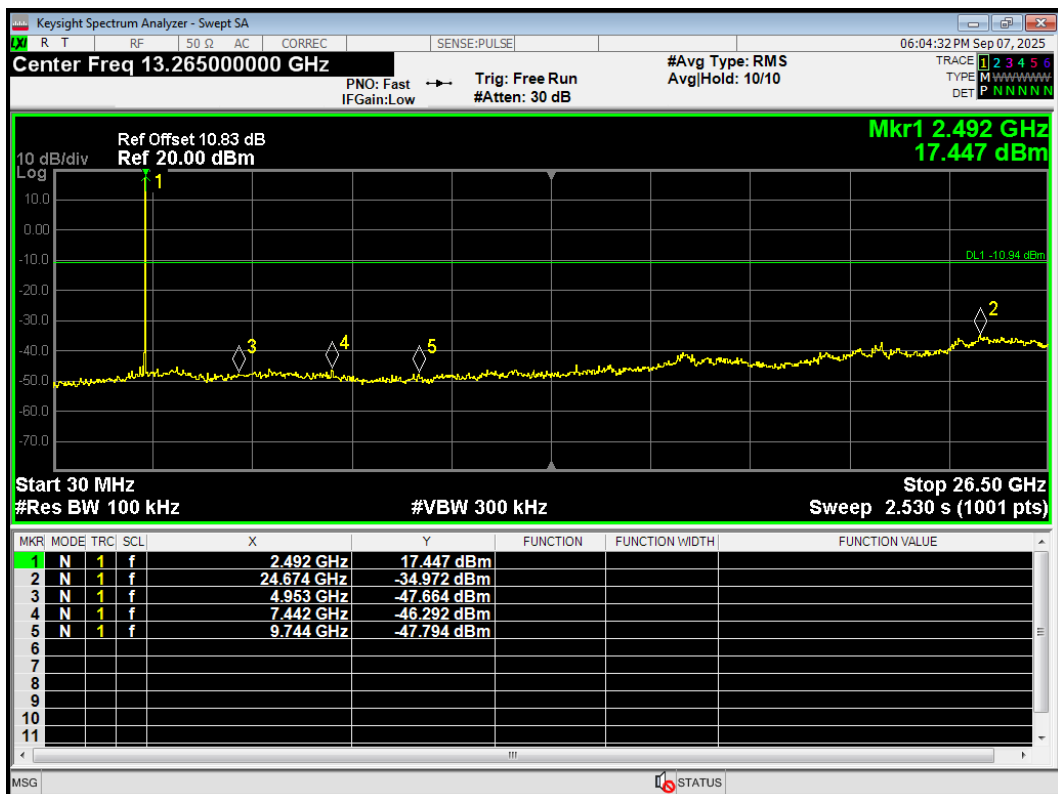
Tx. Spurious GFSK 2440MHz Emission



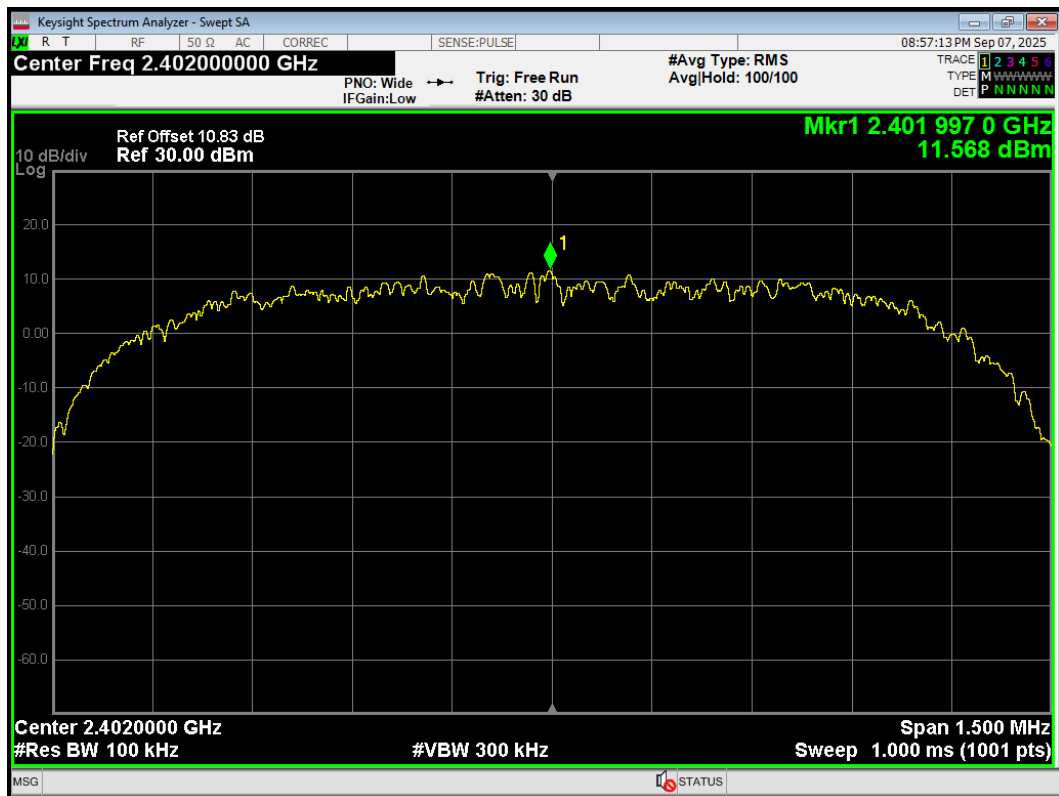
Tx. Spurious GFSK 2480MHz Ref



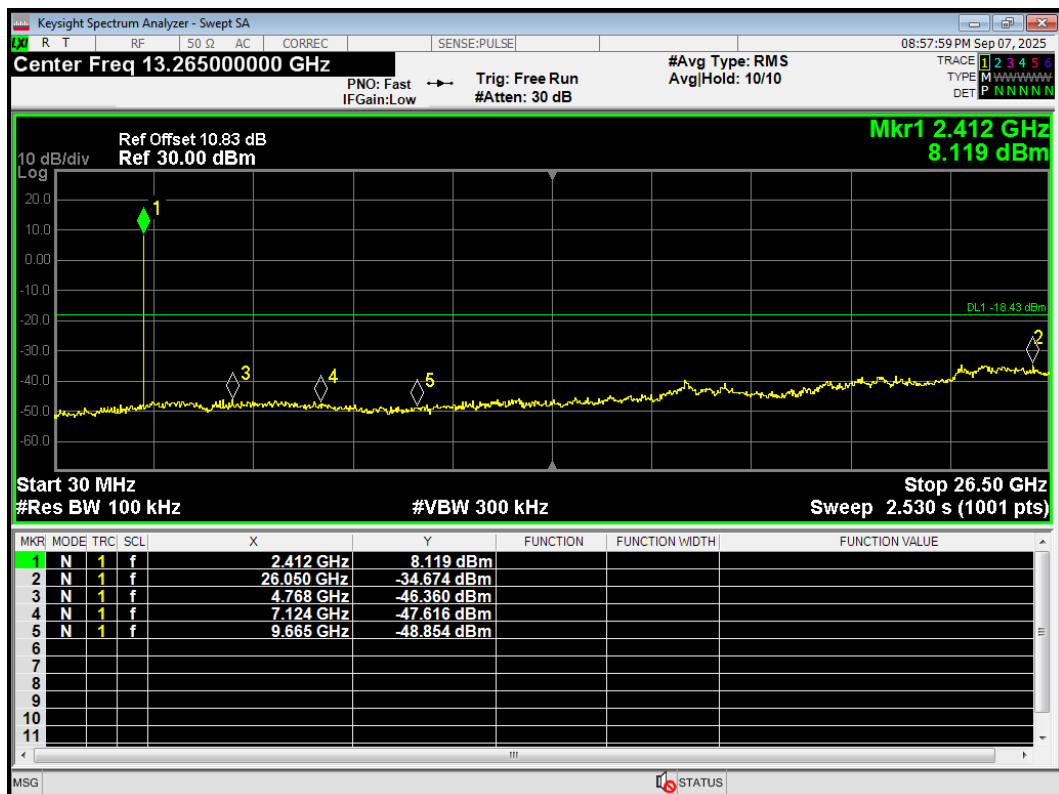
Tx. Spurious GFSK 2480MHz Emission



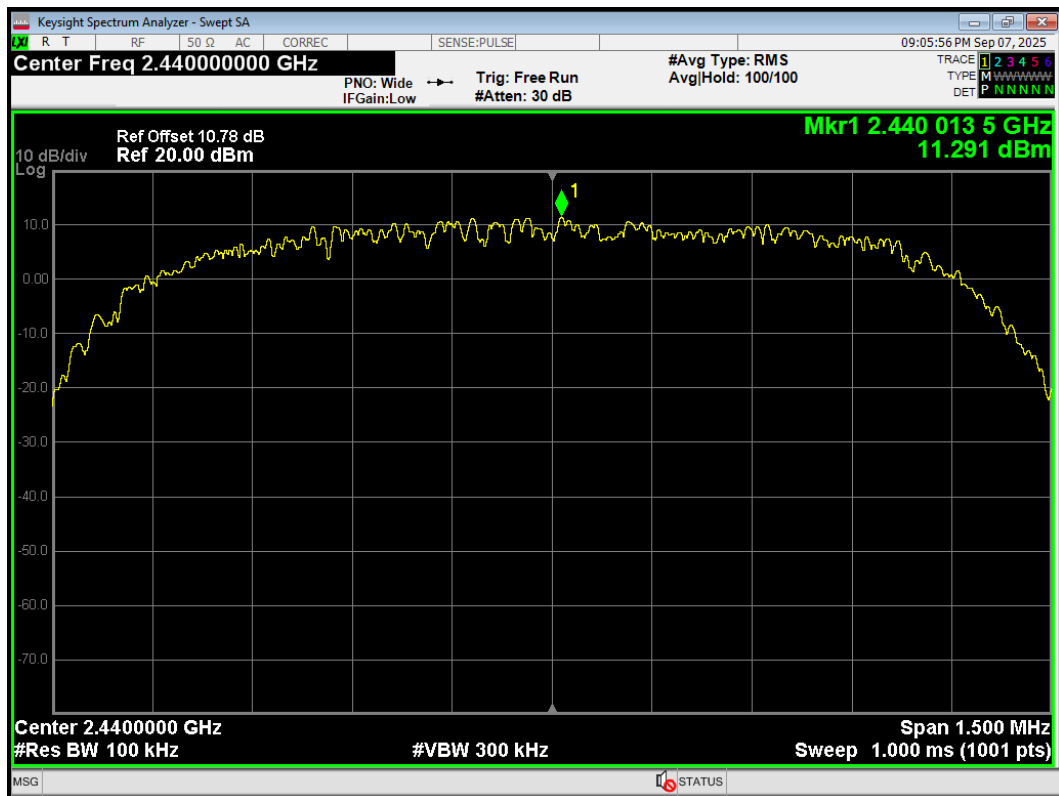
Tx. Spurious QPSK 2402MHz Ref



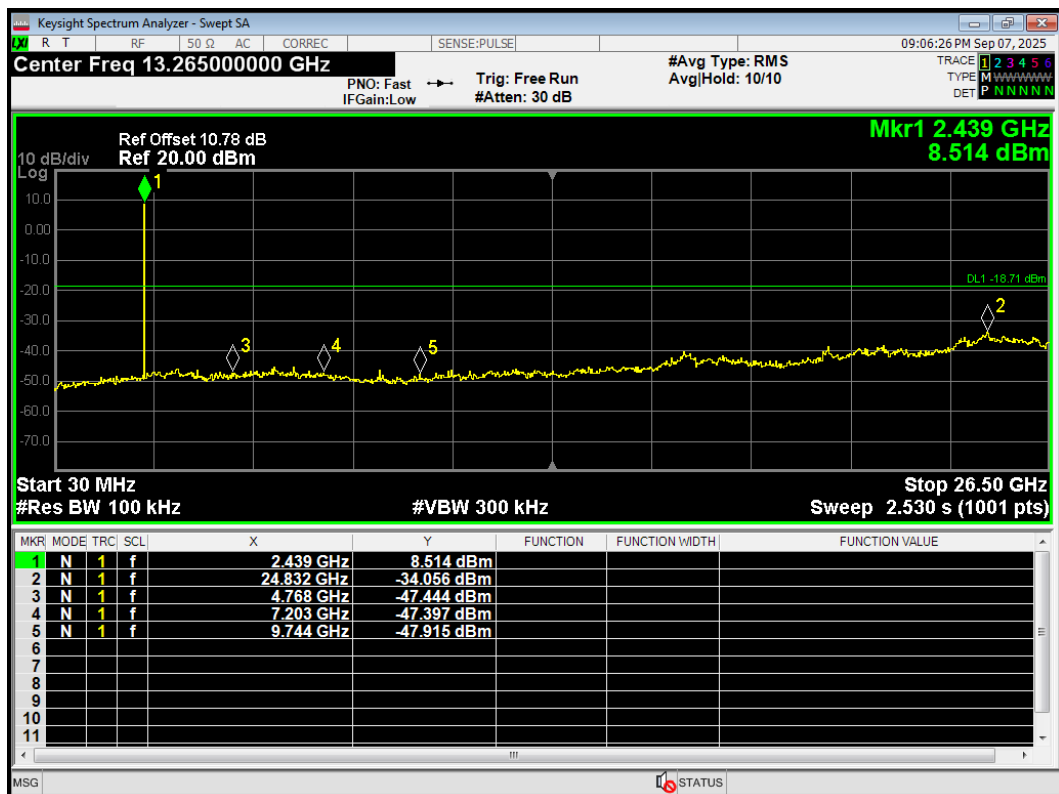
Tx. Spurious QPSK 2402MHz Emission



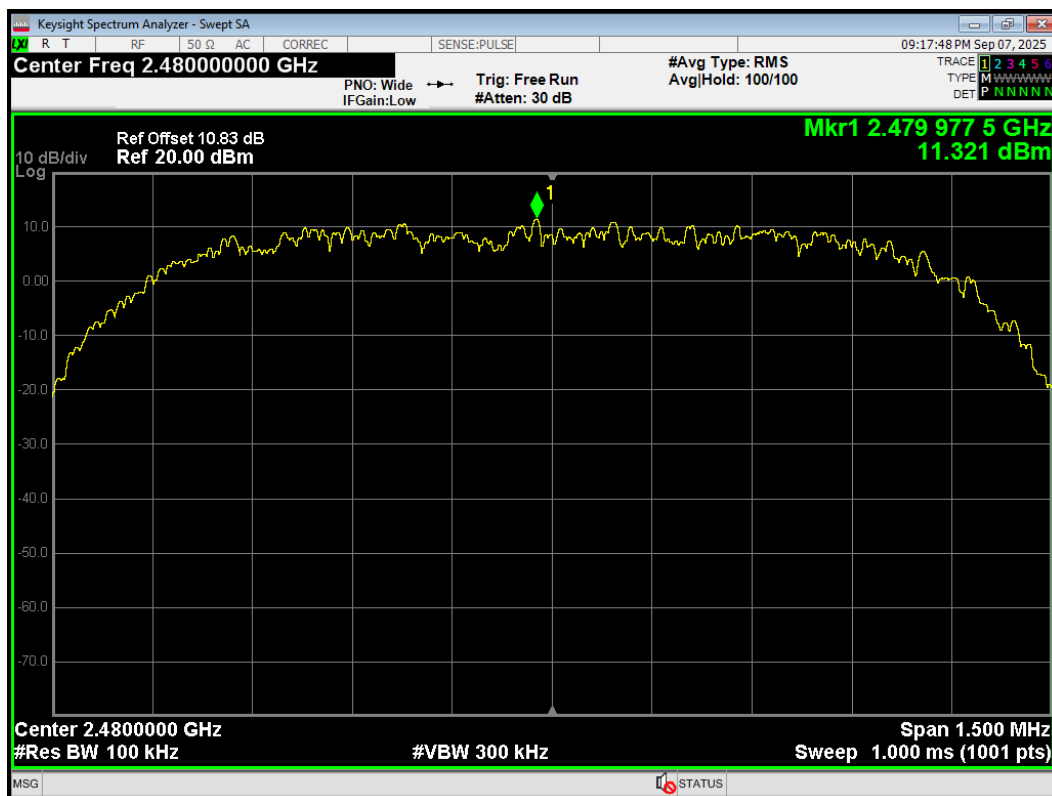
Tx. Spurious QPSK 2440MHz Ref



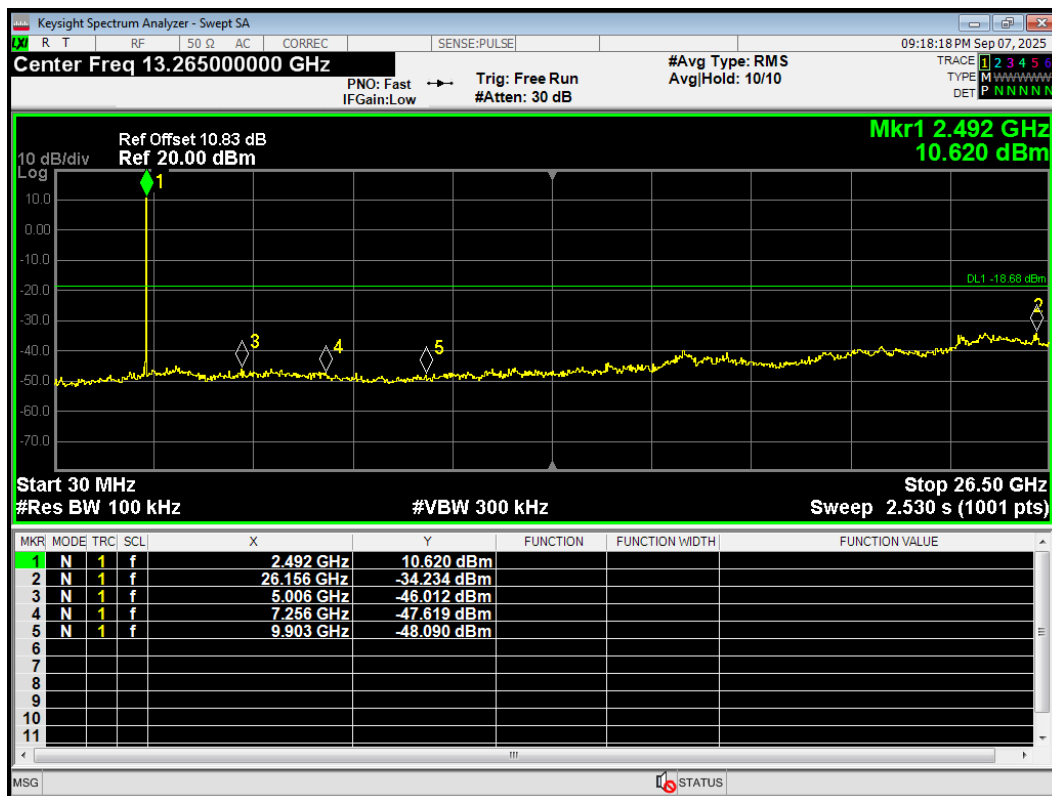
Tx. Spurious QPSK 2440MHz Emission



Tx. Spurious QPSK 2480MHz Ref

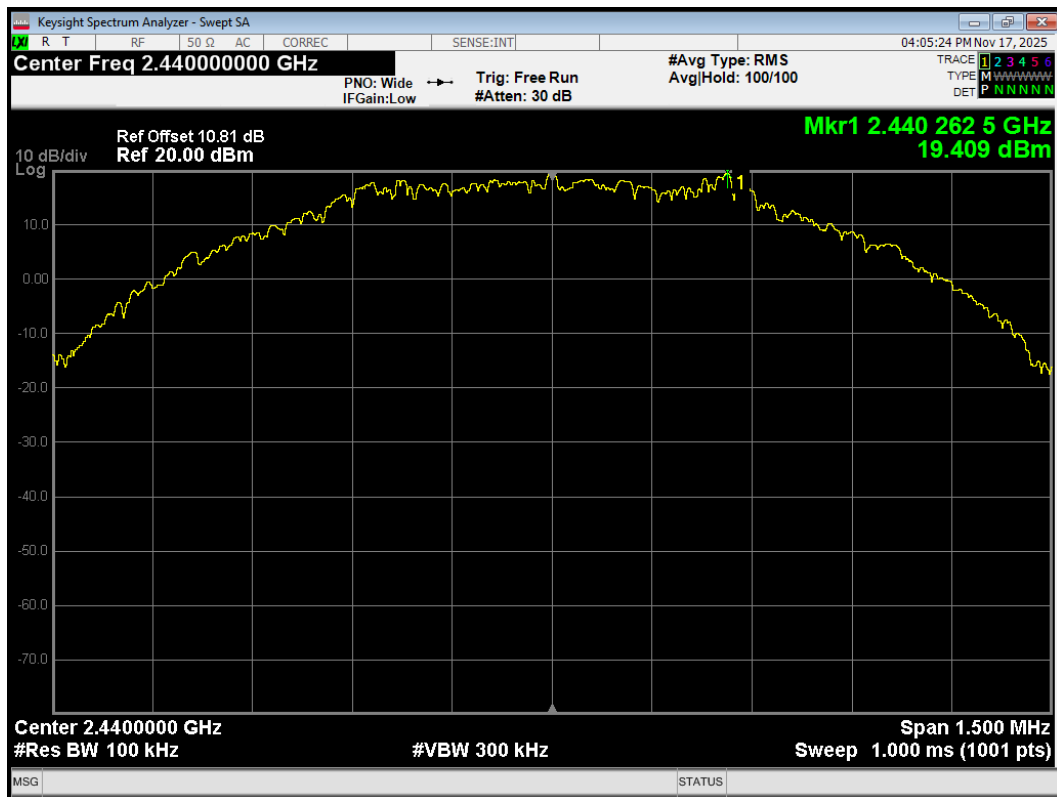


Tx. Spurious QPSK 2480MHz Emission

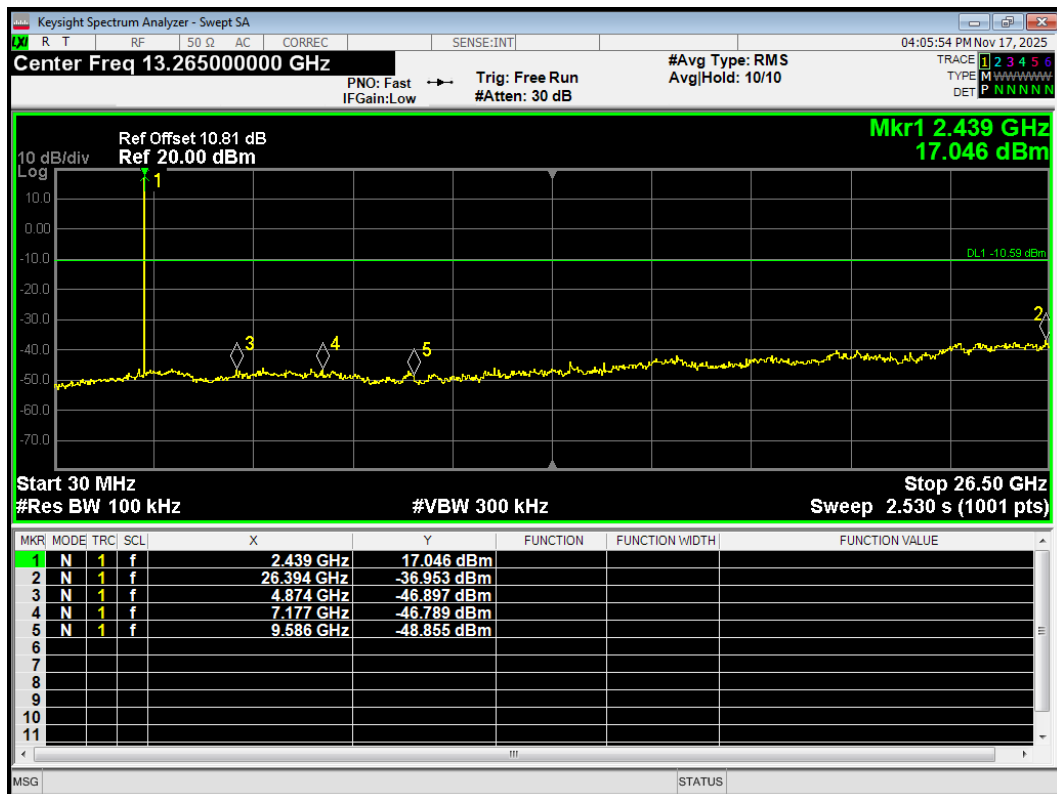


Variant

Tx. Spurious GFSK 2440MHz Ref



Tx. Spurious GFSK 2440MHz Emission



6.6. Unwanted Emission

The detailed test data see *EFTA25060257-IE-05-R6V2-ANNEX A* Test Result.

6.7. Conducted Emission

The detailed test data see *EFTA25060257-IE-05-R6V2-ANNEX A* Test Result.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2025-05-06	2026-05-05
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2025-05-06	2026-05-05
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2024-12-02	2025-12-01
Attenuator	HASCO	HA18A-10	0003	/	/
Test software	MW	MTS8310	2.0.0.0	/	/
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	2025-05-06	2026-05-05
Signal Analyzer	R&S	FSV40	101298	2025-05-07	2026-05-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Amplifier	MicroWave	KLNA-180400 50	220826001	2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15C Test Setup*.

***** END OF REPORT *****