

TEST REPORT

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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REPORT No.:
CTK-2026-01748
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1. Applicant

- Name : Samsung Electronics Co Ltd
- Address : 19 Chapin Rd, Building D. Pine Brook, New Jersey, United States
- Date of Receipt : 2026-04-28

2. Manufacturer

- Name : Samsung Electronics Co., Ltd.

3. Use of Report : For FCC Conformance**4. Test sample / Model : Wi-Fi/BT Transceiver / WCH734R****5. Date(s) of test : 2026-05-18 to 2026-06-25****6. Test Standard (Method) used : FCC 47 CFR part 15 subpart C 15.247****7. Testing Environment : Refer to 7 page****8. Test Results : Compliance****9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing**

(Address : (Unhak-Dong) 5, 221 beon-gil, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by:	Technical Manager:
	Seong-uk Park :  (Signature)	Wonjae Hwang :  (Signature)

2026-07-02

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-07-02	Issued (CTK-2026-01748)	all

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1. General Product Description

1.1 Applicant Information

Company	Samsung Electronics Co Ltd
Contact Point	19 Chapin Rd, Building D. Pine Brook, New Jersey, United States
Contact Person	Name : Minhyung Cho E-mail : mh719.cho@samsung.com Tel : +82-31-277-2688 Fax : -

1.2 Manufacturer Information

Manufacturer	Samsung Electronics Co., Ltd.
Address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea
Factory #1	CHEMTRONICS Co., Ltd
Address	35, Hyeongjero, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Factory #2	SJIT CO., LTD.
Address	#54-11, Dongtanhana 1gil, Hwaseong-si, Gyeonggi-Do, Korea
Factory #3	CHEMTROVINA COMPANY LIMITED
Address	Nhon Trach 2 - Loc Khang IZ, Hiep Phuoc Town, Nhon Trach District, Dong Nai, Province, Vietnam
Factory #4	SJIT VINA Co., Ltd
Address	Lot X2, Ho Nai Industrial Zone, Ho Nai 3 Commune, Trang Bom District, Dong Nai Province, Vietnam
Factory #5	XUGUANG TECHNOLOGY (VIETNAM) COMPANY LIMITED
Address	Factory No.4, Lot CN1, An Duong Industrial Park, Hong Phong Commune, An Duong District, Hai Phong City, Vietnam
Factory #6	Chengdu Xuguang Technology Co., Ltd.
Address	Building 1, Floors 1-2 and Building 2, Wenbai Avenue No.998, Baihe Street, Economic and Technological Development Zone (Longquanyi District), Chengdu City, Sichuan Province, P.R.China

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1.3 Product Information

FCC ID	A3LWCH734R	
Product Description	Wi-Fi/BT Transceiver	
Model name	WCH734R	
Variant Model name	-	
Operating Frequency	2 402 MHz - 2 480 MHz	
RF Output Power	GFSK : 9.114 dBm (8.155 mW) 8-DPSK : 11.028 dBm (12.671 mW)	
Antenna Specification	Antenna Type	Metal Antenna
	Peak Gain	-2.04 dBi
Number of channels	79	
Channel Spacing	1 MHz	
Type of modulation	GFSK (1 Mbps), $\pi/4$ -DQPSK (2 Mbps), 8-DPSK (3 Mbps)	
Power Source	DC 3.3 V	
Hardware Rev(HVIN)	WCH734R	
Software Rev(FVIN)	v5.0.0	
Test Program	RTLBTAPP.exe	

RF Power Setting in Test SW

Mode	Frequency	Power Setting Value
GFSK	2 402 MHz to 2 480 MHz	10.00
8-DPSK	2 402 MHz to 2 480 MHz	12.00

1.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Notebook	Samsung Electronics Co., Ltd.	550XDA	KQFJ99YRA002J0
AC Adapter	Samsung Electronics Co., Ltd.	PA-1400-96	CN60BA4400295AD2VHNCHF042
Note Computer	Samsung Electronics Co., Ltd.	NT550XEZ	5RNV9FCW400929K
AC/DC Adapter	SHENZHEN HONOR ELECTRONIC CO.,LTD	ADT-60LM-P	-

1.5 Model Differences

Not applicable

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2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

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3. Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Status (Note 1)	Test Condition
15.247(a)	Carrier Frequency Separation	C	Conducted
15.247(a)	Number of Hopping Frequencies	C	
15.247(a)	20 dB Bandwidth	C	
15.247(a)	Time of occupancy (Dwell Time)	C	
15.247(b)	Maximum Peak Conducted Output Power	C	
15.247(d)	Unwanted Emission	C	
15.209	Radiated Emissions	C	Radiated
15.207	AC Conducted Emissions	C	Line Conducted
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable			
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.			
<u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.247			
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020+Cor 1-2023+C63.10a-2024+Errata to C63.10a-2024			

3.2 Testing Environment

Test Item		Test Date	Temperature (°C)	Relative Humidity (%)
Carrier Frequency Separation		2026-06-18, 2026-06-25	(24, 25) ± 1	(43, 49) ± 3
Number of Hopping Frequencies				
20 dB Bandwidth & 99 % Bandwidth				
Maximum Peak Conducted Output Power				
Conducted Spurious Emission				
Time of occupancy (Dwell Time)				
Transmitter Emission (Radiated)	(1 GHz Below)	2026-05-22, 2026-06-24	(23, 26) ± 1	(32, 34) ± 3
	(1 GHz Above)	2026-06-24, 2026-06-25	(17, 18) ± 1	(45, 47) ± 3
AC Conducted Emission		2026-05-18	23 ± 1	48 ± 3

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3.3 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.
During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests.
The results are only attached worst cases.

Test Frequency

Lowest Channel	Middle Channel	Highest Channel
2 402 MHz	2 441 MHz	2 480 MHz

Test Mode

Modulation	Packet Type	Data Rate	Duty Cycle	Duty Cycle Factor
GFSK	1-DH5	1 Mbps	77.2 %	1.12 dB
8-DPSK	3-DH5	3 Mbps	77.1 %	1.13 dB

3.4 Device Modifications

The following modifications were necessary for compliance:

Not applicable

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3.5 Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	0.46 dB (C.L.: Approx. 95 %, $k = 2$)
Occupied Bandwidth	0.10 MHz (C.L.: Approx. 95 %, $k = 2$)
Unwanted Emission (Conducted)	0.54 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f \leq 1$ GHz)	4.11 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.34 dB (C.L.: Approx. 95 %, $k = 2$)
Line Conducted Emission	2.06 dB (C.L.: Approx. 95 %, $k = 2$)

3.6 Test Software

Automation Program

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	EP5RE Ver. 6.0.10, ES10 Ver. 10.001
Line Conducted Test	EMC32 Ver. 10.50.00

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4. Technical Characteristic Test

4.1 Carrier Frequency Separation

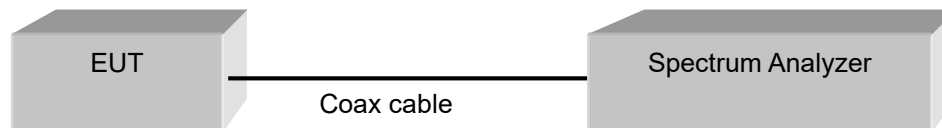
Test Procedures

ANSI C63.10-2020 - Section 7.8.2

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna terminal, while EUT has its hopping function enabled.
After the trace being stable, the reading value between the peaks of the adjacent channels using the marker-delta function was recorded as the measurement results.

Test Settings:

- a) Span = Wide enough to capture the peaks of two adjacent channels
- b) RBW = 300 kHz (Start with the RBW set to approximately 30 % of the channel spacing; adjust as necessary to best identify the center of each individual channel)
- c) VBW = 300 kHz ($\geq$ RBW)
- d) Sweep = auto
- e) Detector function = peak
- f) Trace = max hold
- g) Allow the trace to stabilize



Limit :

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Data :

Test Mode	Test Channel	Adjacent Hopping Channel Separation [kHz]	Two-third of 20 dB bandwidth [kHz]	Minimum Bandwidth [kHz]	Result
GFSK	Middle	1 000	683.3	25.0	Complies
8-DPSK	Middle	1 000	880.0	25.0	Complies

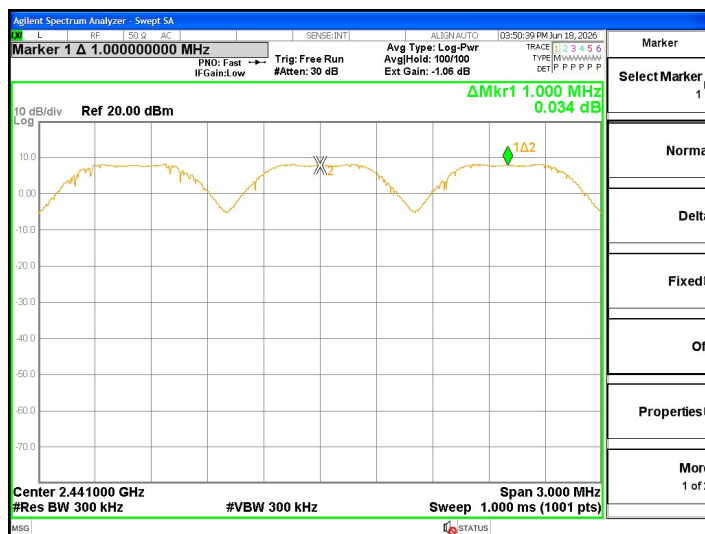
See next pages for actual measured spectrum plots.



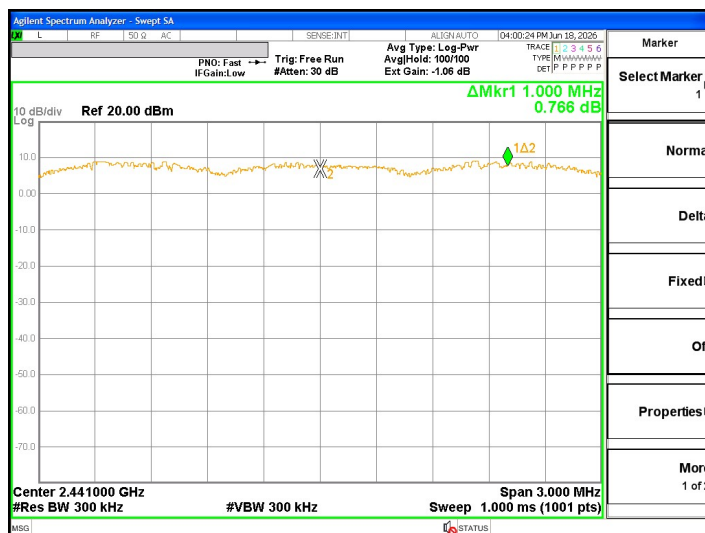
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GFSK



8-DPSK

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4.2 Number of Hopping Frequencies

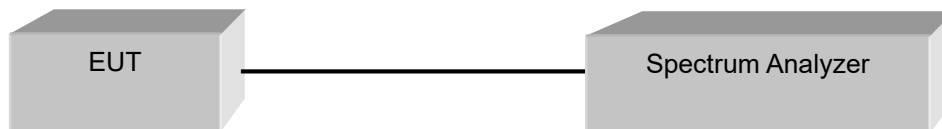
Test Procedures

ANSI C63.10-2020 - Section 7.8.3

The number of hopping frequencies was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

Test Settings:

- a) Frequency range 1: Start = 2 390.0 MHz, Stop = 2 439.5 MHz
 2: Start = 2 439.5 MHz, Stop = 2 489.5 MHz
- b) RBW = 300 kHz (To identify clearly the individual channels, set the RBW to less than 30 % of the channel spacing or the 20 dB bandwidth, whichever is smaller)
- c) VBW = 300 kHz ($\geq$ RBW) d) Sweep: No faster than coupled (auto) time.
- e) Detector = peak f) Trace mode = max hold
- g) Allow trace to fully stabilize



Limit :

FHSs operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

Test Data :

Test Mode	Total Number of Hopping Channels	Result
GFSK	79	Complies
8-DPSK	79	Complies

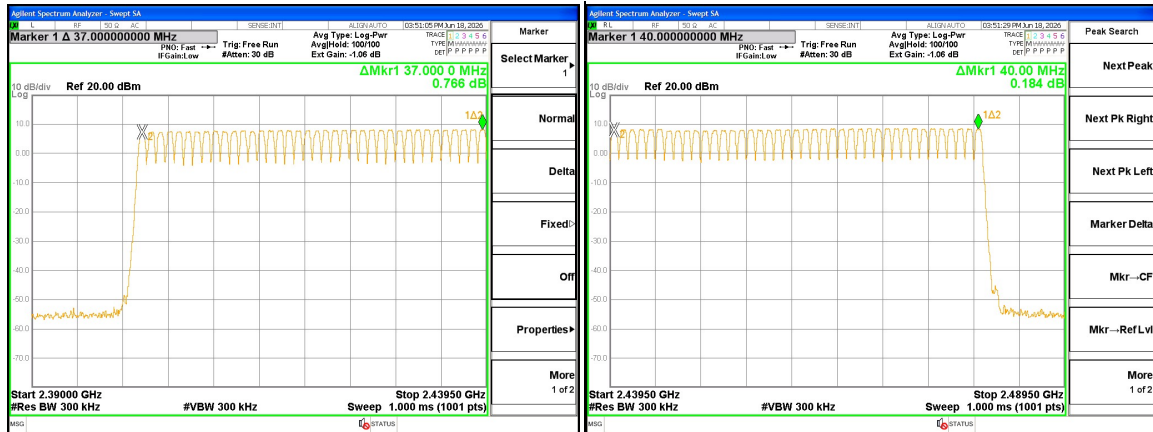
See next pages for actual measured spectrum plots.



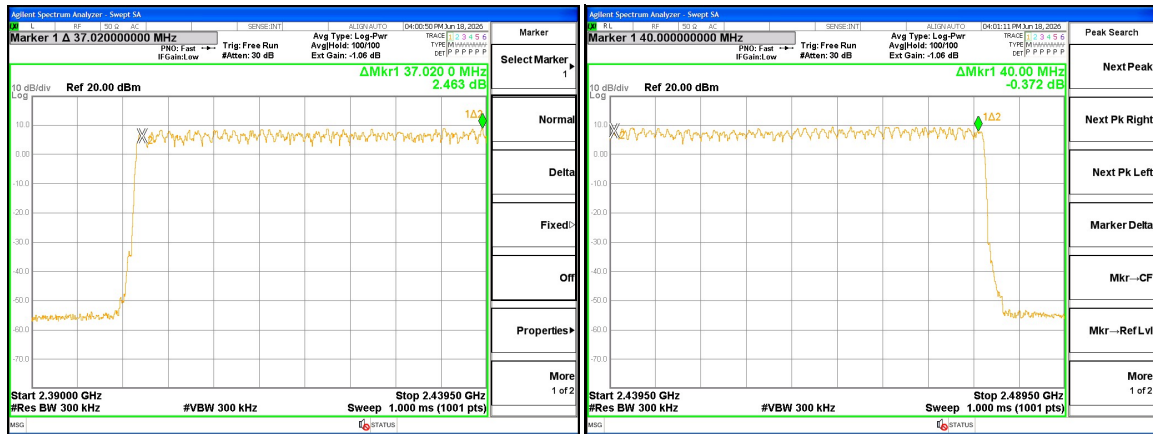
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GFSK



8-DPSK

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4.3 20 dB bandwidth & 99 % Bandwidth

Test Procedures

ANSI C63.10-2020 - Section 6.9.2

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Test Procedures

ANSI C63.10-2020 - Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission.

Use the 99 % power bandwidth function of the instrument and report the measured bandwidth.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) Span = Between 1.5 times and 5 times the OBW

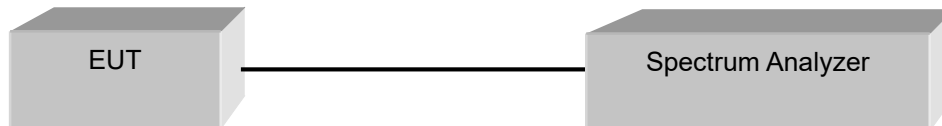
b) RBW = 1 % to 5 % of the OBW

c) VBW $\geq 3 \times$ RBW

d) Sweep = auto

e) Detector function = peak

f) Trace = max hold



Limit :

N/A

Test Data :

Test Mode	Frequency [MHz]	20 dB Bandwidth [MHz]	99 % Bandwidth [MHz]	Result
GFSK	2 402	1.043	0.906	Complies
	2 441	1.025	0.903	Complies
	2 480	1.034	0.902	Complies
8-DPSK	2 402	1.282	1.173	Complies
	2 441	1.320	1.185	Complies
	2 480	1.317	1.183	Complies

See next pages for actual measured spectrum plots.

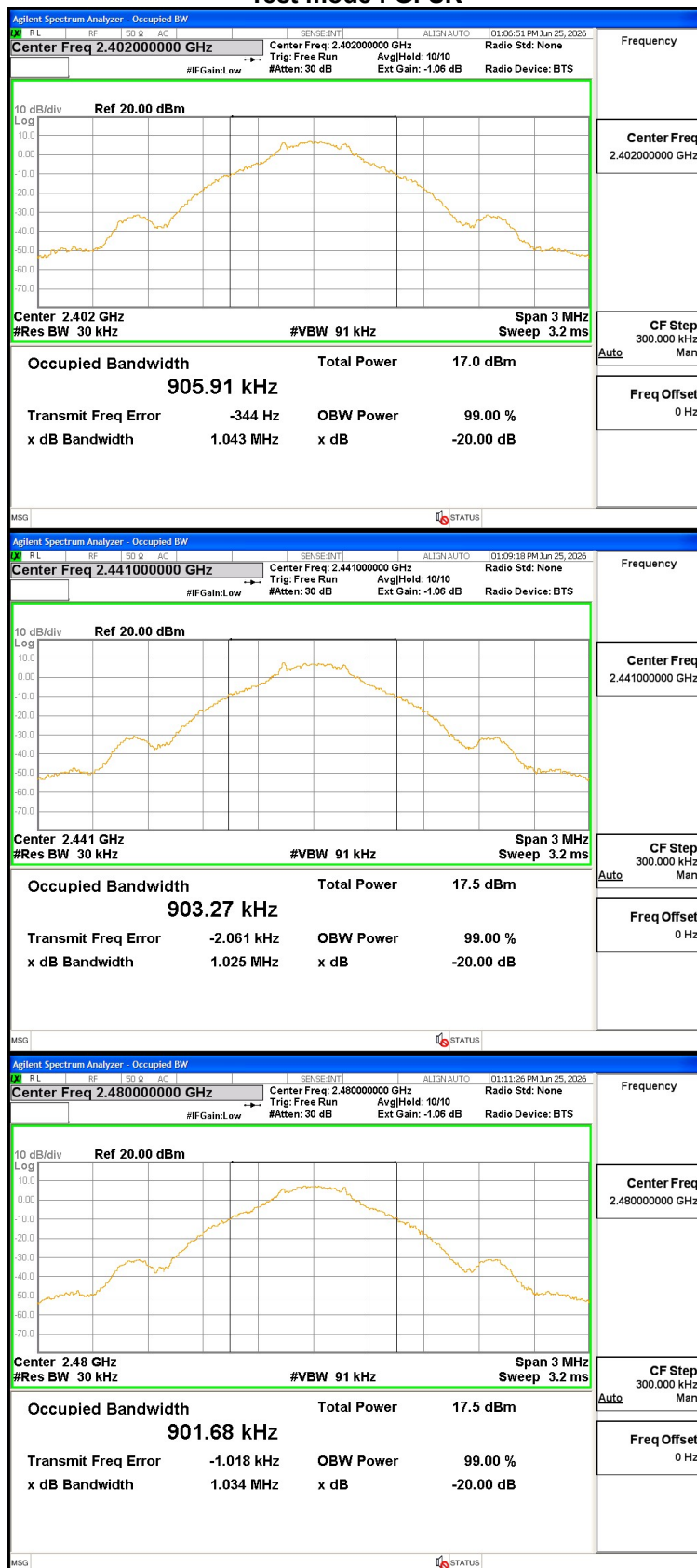


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Test mode : GFSK



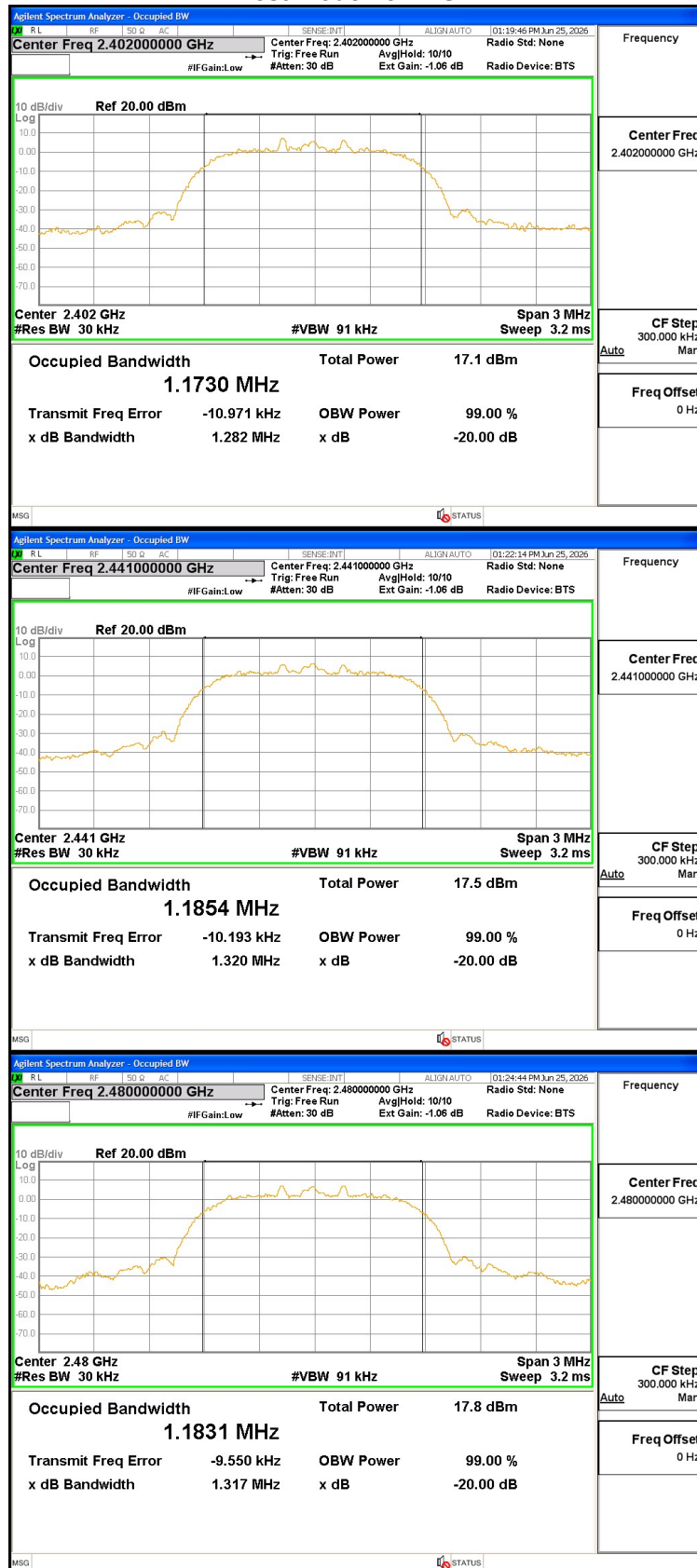


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Test mode : 8-DPSK





4.4 Time of Occupancy

Test Procedures

ANSI C63.10-2020 - Section 7.8.4

The dwell time was measured with a spectrum analyzer connected to the antenna terminal, while EUT has its hopping function enabled.

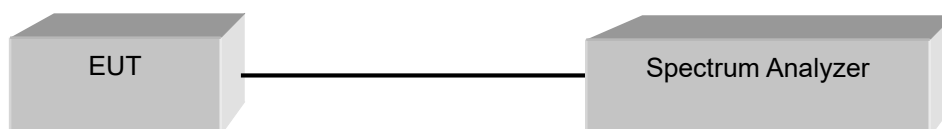
- a) Span = Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel.
- c) Sweep = Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period.

Number of hops in the period specified in the requirements =
 $\text{number of hops on spectrum analyzer} / \text{analyzer sweep time} \times \text{period specified in the requirements}$

Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.



Limit :

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

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Test Data

Packet Type	Number of hops on spectrum analyzer	Period specified in the requirement (sec)	Analyzer sweep time (sec)	Number of transmission in a period (channel number*0.4 sec)	Transmission time per hop (msec)	Average time of occupancy (msec)	Limit (msec)
1-DH1	50	31.60	5.00	316.00	0.380	120.08	400
1-DH3	26	31.60	5.00	164.32	1.640	269.48	400
1-DH5	15	31.60	5.00	94.80	2.895	274.45	400
3-DH1	50	31.60	5.00	316.00	0.393	124.19	400
3-DH3	25	31.60	5.00	158.00	1.642	259.44	400
3-DH5	20	31.60	5.00	126.40	2.890	365.30	400

Remark:

Number of transmission in a period(Channel number * 0.4)

= number of hops on spectrum analyzer / analyzer sweep time × period specified in the requirements

Average time of occupancy = Number of transmission in a period × Transmission time per hop

The test was conducted under worst-case

See next pages for actual measured spectrum plots.

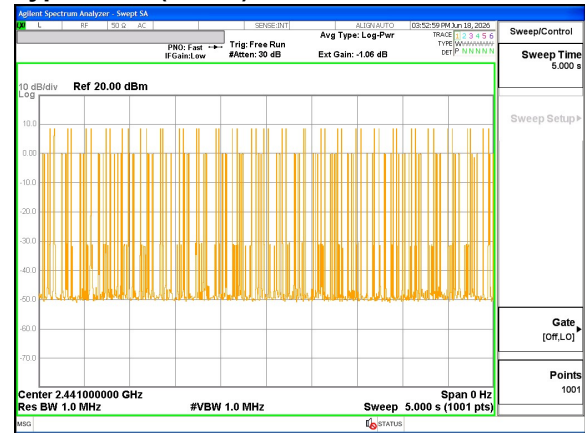


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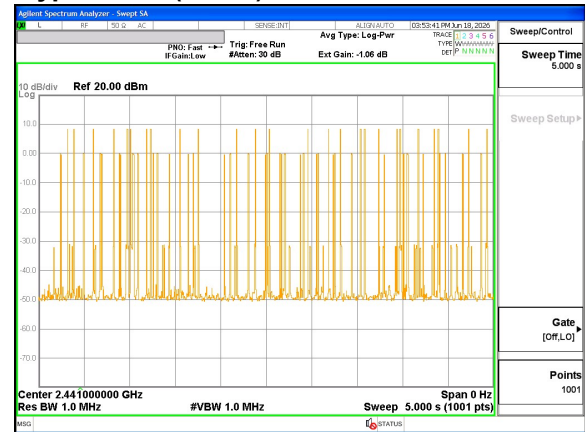
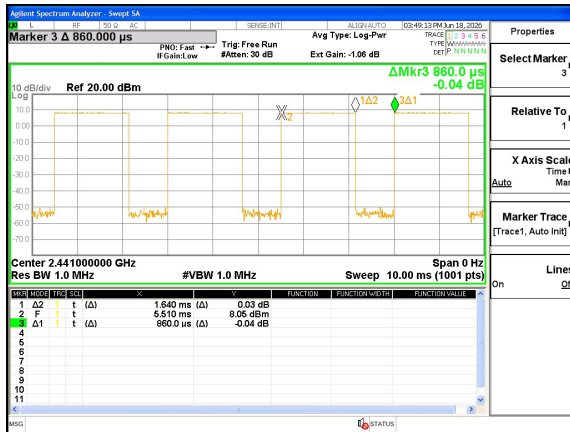
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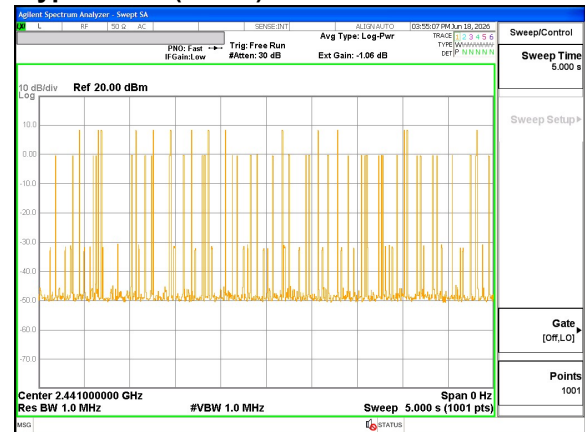
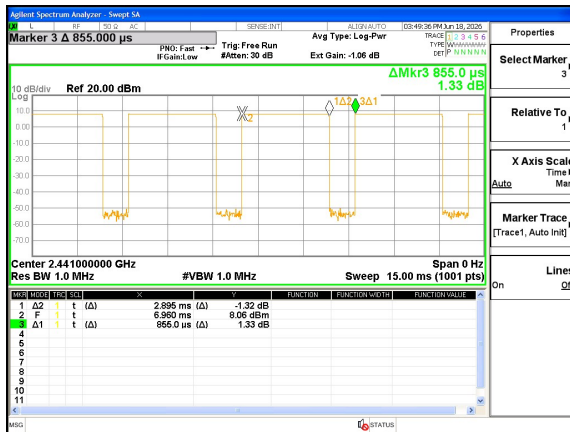
Transmit time for PACKET Type 1-DH1(GFSK)



Transmit time for PACKET Type 1-DH3(GFSK)



Transmit time for PACKET Type 1-DH5(GFSK)



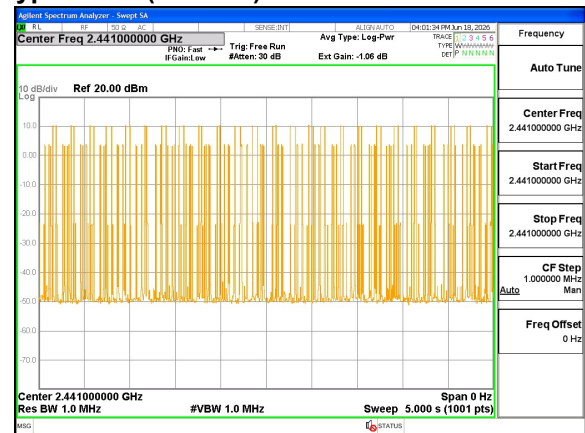
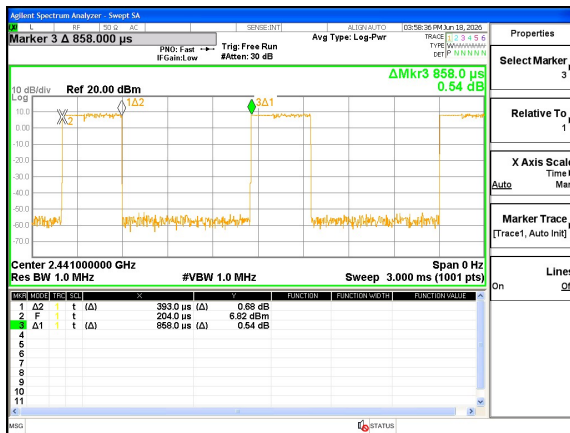


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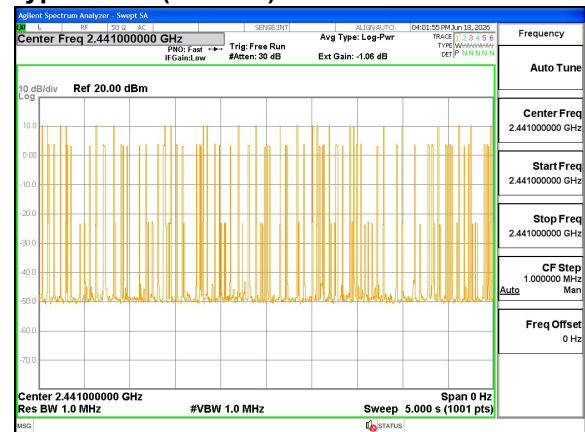
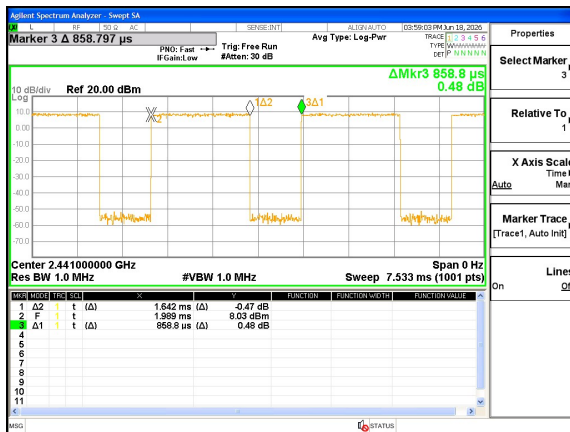
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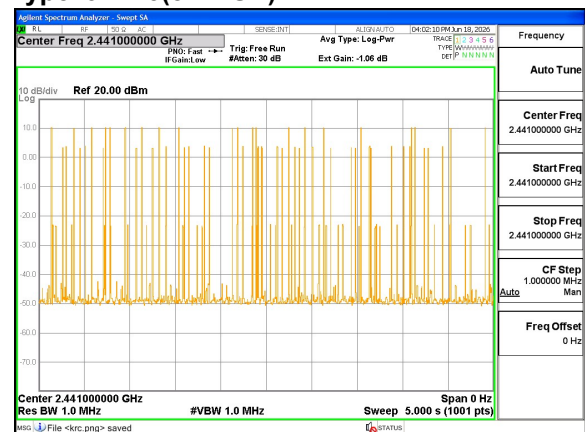
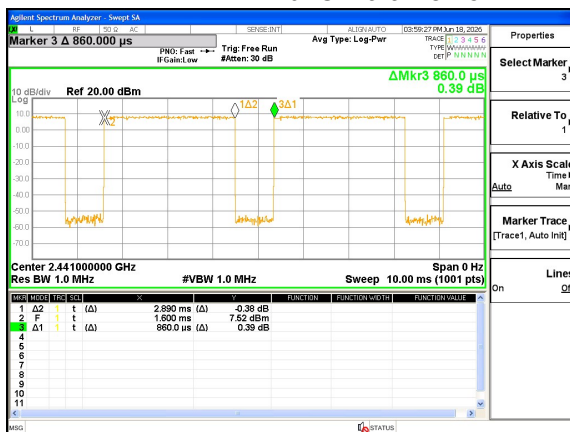
Transmit time for PACKET Type 3-DH1(8-DPSK)



Transmit time for PACKET Type 3-DH3(8-DPSK)



Transmit time for PACKET Type 3-DH5(8-DPSK)



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4.5 Maximum Peak Conducted Output Power

Test Procedures

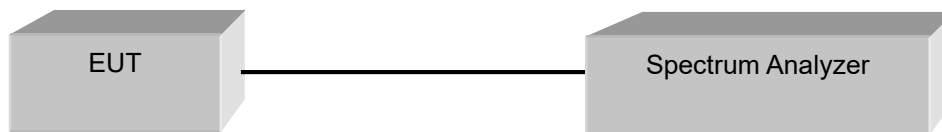
ANSI C63.10-2020 - Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test.

Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) Span = Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW $\geq$ RBW
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = Peak
- f) Trace = Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.



Limit :

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels.

Test Data :

Test Mode	Frequency [MHz]	Output Power		Result
		[dBm]	[mW]	
GFSK	2 402	8.481	7.049	Complies
	2 441	8.883	7.732	Complies
	2 480	9.114	8.155	Complies
8-DPSK	2 402	10.123	10.287	Complies
	2 441	10.852	12.167	Complies
	2 480	11.028	12.671	Complies

See next pages for actual measured spectrum plots



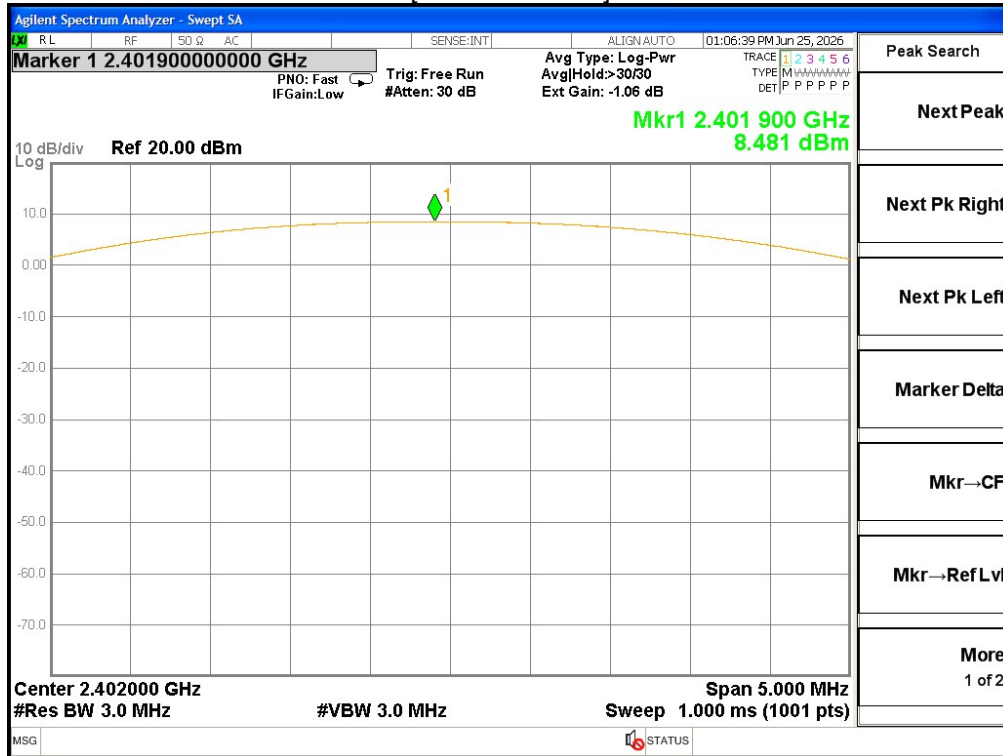
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Test Mode : GFSK

[Lowest channel]



[Middle channel]

