

TEST REPORT

Report No.: SHE22030040-02HE

Date: 2022-12-28

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Applicant : Handheld Group AB
Address of Applicant : Strandgatan 40, 531 60, Lidköping, Sweden

Product Name : Rugged Android Tablet ALGIZ RT10
Brand Name : Handheld
Model No. : ALGIZ RT10
Sample acquisition Method : Sent by Client

Sample No. : E22030040-01#08
E22030040-01#10

FCC ID : YY3-ART10
ISED Number : 11695A-ART10

Standards : FCC CFR47 Part 15, Subpart C
RSS-Gen (Issue 5, Amd.2-Feb 2021)
RSS-247 (Issue 2, February 2017)

Date of Receipt : 2022-06-10(E22030040-01#08)
2022-08-02(E22030040-01#10)
Date of Test : 2022-08-09 ~ 2022-10-19
Date of Issue : 2022-12-28

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:


(Erik Yang)

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(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	Handheld Group AB
Address	Strandgatan 40, 531 60, Lidköping, Sweden
Contact Person	Johan Hed
Telephone	+46510547170
Email	regulatory@handheldgroup.com
Manufacturer Company Name	Handheld Group AB
Address	Strandgatan 40, 531 60, Lidköping, Sweden
Factory Company Name	Hangzhou Ymir Enterprise Co., Ltd
Address	356 Hongda Road, Xiaoshan Economic and Technological Development Zone, Hangzhou

1.3 Details of EUT

Product Name	Rugged Android Tablet ALGIZ RT10
Brand Name	Handheld
Test Model No.	ALGIZ RT10
FCC ID	YY3-ART10
ISED Number	11695A-ART10
Mode of Operation	Bluetooth BR/EDR Version 5.1
Frequency Range	2402MHz ~ 24830MHz
Number of Channels	79 (at intervals of 1 MHz)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type	Internal Antenna
Antenna Gain	3.50dBi
Extreme Temperature Range	-10°C ~ +55°C
Test Voltage	DC 3.8V
Hardware version	V1.4
Software version	ALGIZ_RT10_V1.0
Test SW Version	BL410_R; BL410_E

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RF power setting in TEST SW

QRCT_Power level setting_Default_9

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2.402GHz	27	2.429GHz	54	2.456GHz
1	2.403GHz	28	2.430GHz	55	2.457GHz
2	2.404GHz	29	2.431GHz	56	2.458GHz
3	2.405GHz	30	2.432GHz	57	2.459GHz
4	2.406GHz	31	2.433GHz	58	2.460GHz
5	2.407GHz	32	2.434GHz	59	2.461GHz
6	2.408GHz	33	2.435GHz	60	2.462GHz
7	2.409GHz	34	2.436GHz	61	2.463GHz
8	2.410GHz	35	2.437GHz	62	2.464GHz
9	2.411GHz	36	2.438GHz	63	2.465GHz
10	2.412GHz	37	2.439GHz	64	2.466GHz
11	2.413GHz	38	2.440GHz	65	2.467GHz
12	2.414GHz	39	2.441GHz	66	2.468GHz
13	2.415GHz	40	2.442GHz	67	2.469GHz
14	2.416GHz	41	2.443GHz	68	2.470GHz
15	2.417GHz	42	2.444GHz	69	2.471GHz
16	2.418GHz	43	2.445GHz	70	2.472GHz
17	2.419GHz	44	2.446GHz	71	2.473GHz
18	2.420GHz	45	2.447GHz	72	2.474GHz
19	2.421GHz	46	2.448GHz	73	2.475GHz
20	2.422GHz	47	2.449GHz	74	2.476GHz
21	2.423GHz	48	2.450GHz	75	2.477GHz
22	2.424GHz	49	2.451GHz	76	2.478GHz
23	2.425GHz	50	2.452GHz	77	2.479GHz
24	2.426GHz	51	2.453GHz	78	2.480GHz
25	2.427GHz	52	2.454GHz		
26	2.428GHz	53	2.455GHz		

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
RSS-Gen (Issue 5, Amd.2-Feb 2021)	General Requirements for Compliance of Radio Apparatus
RSS-247 (Issue 2, February 2017)	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Summary

Test Item	FCC Rules	ISED Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), FCC Part 15.203	RSS-247 5.4(f), RSS-GEN 6.8	PASS
Maximum Conducted Peak Output Power and E.I.R.P	FCC Part 15.247(b)(1)	RSS-247 5.1(b)	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15.247(a)(1)	RSS-247 5.1(a), RSS-Gen 6.7	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	RSS-247 5.5	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.9	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.10	PASS
Hopping Frequency Separation	FCC Part 15.247(a)(1)	RSS-247 5.1(b)	PASS
Number of Hopping Frequency	FCC Part 15.247(a)(1)(iii)	RSS-247 5.1(d)	PASS
Time of Occupancy	FCC Part 15.247(a)(1)(iii)	RSS-247 5.1(d)	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	RSS-Gen 8.8	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2022-08-02	2023-08-01
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2022-06-10	2023-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2022-08-02	2023-08-01
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2022-06-10	2023-06-09
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2022-06-10	2023-06-09
V-network	SCHWARZBECK	NSLK8127	8127-902	2022-06-10	2023-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2023-06-07
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08	2023-06-07
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2022-06-10	2023-06-09
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2022-06-10	2023-06-09
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2022-06-10	2023-06-09
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2022-06-10	2023-06-09
Test Software	BL	BL410_E	N/A	N/A	N/A
Test Software	BL	BL410_R	N/A	N/A	N/A

2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	< 1GHz	± 5.00 dB
	> 1GHz	± 4.88 dB
Conducted Emission on AC Mains	150KHz-30MHz	± 2.68 dB
Occupied Channel Bandwidth		± 5 %

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH39)	2441MHz
The Highest channel (CH78)	2480MHz

The basic operation modes are:

- A. On
 - 1. BR/EDR mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - iv. Hopping mode
 - b. Receiving
 - 2. Normal working with Bluetooth on
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	HP	HP ZHAN 66 Pro G1	N/A
USB Cable	N/A	1.00m Unshielded	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	Qualcomm	QRCT Version 4.0.00166.0

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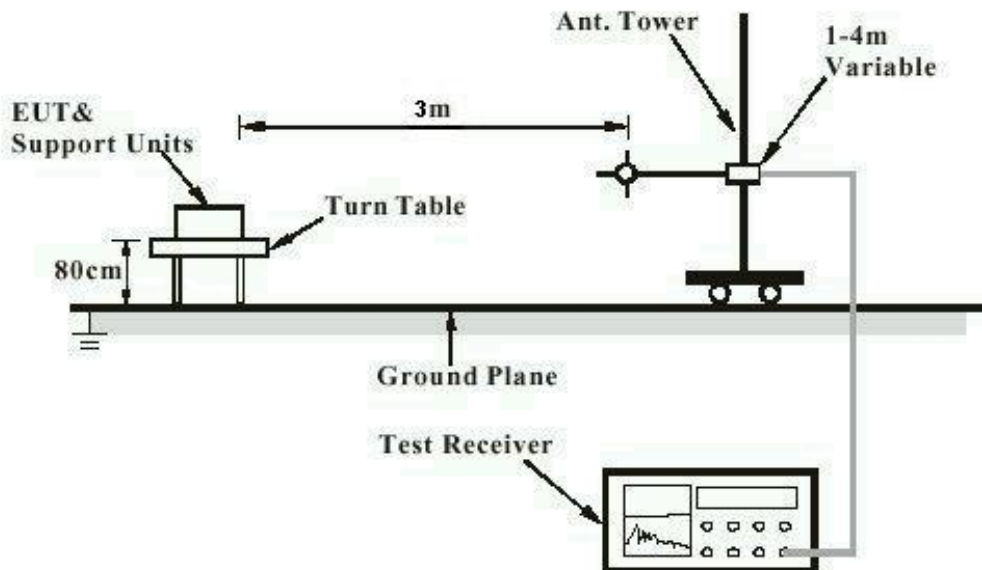
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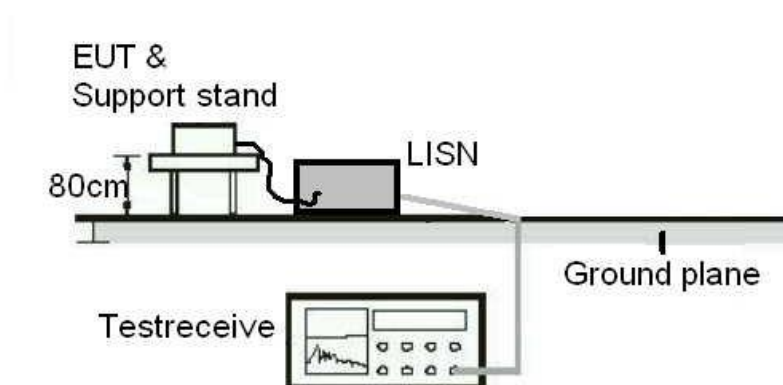
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Configuration for Conduction Test



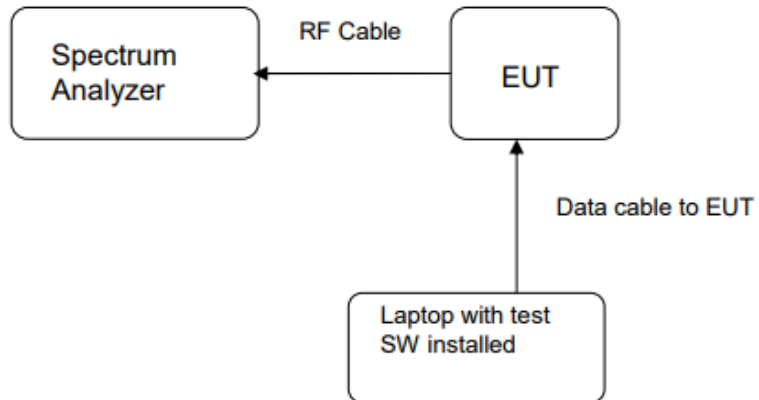
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Diagram of Measurement Configuration for Transmitter Test



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.247(b)(4), Part 15.203
RSS-247 5.4(f), RSS-GEN 6.8

Requirement : The use of approved antennas only with directional
gains that do not exceed 6dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3.50dBi. The antenna is an internal antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Maximum Conducted Peak Output Power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.247(b)(1), RSS-247 5.1(b)
 Requirement : ANSI C63.10-2013 clause 7.8.5,
 KDB 558074 clause 2.2
 Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
 Operation Mode : A.1.a
 Ambient temperature : 24.9°C
 Relative humidity : 57%

Table 1: Maximum Conducted Peak Output Power

Test Mode	Test Channel (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(mW)	
GFSK	2402	9.63	9.18	< 1
	2441	9.85	9.66	
	2480	9.97	9.93	
$\pi/4$ -DQPSK	2402	8.84	7.66	< 0.125
	2441	9.07	8.07	
	2480	9.32	8.55	
8-DPSK	2402	9.27	8.45	< 0.125
	2441	8.90	7.76	
	2480	9.59	9.10	

Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
GFSK	2402	13.13	20.56	< 4
	2441	13.35	21.63	
	2480	13.47	22.23	
$\pi/4$ -DQPSK	2402	12.34	17.14	
	2441	12.57	18.07	
	2480	12.82	19.14	
8-DPSK	2402	12.77	18.92	
	2441	12.40	17.38	
	2480	13.09	20.37	

Note: The antenna gain is 3.50dBi

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Figure 1: The plots of Maximum Conducted Peak Output Power, 2402MHz, GFSK

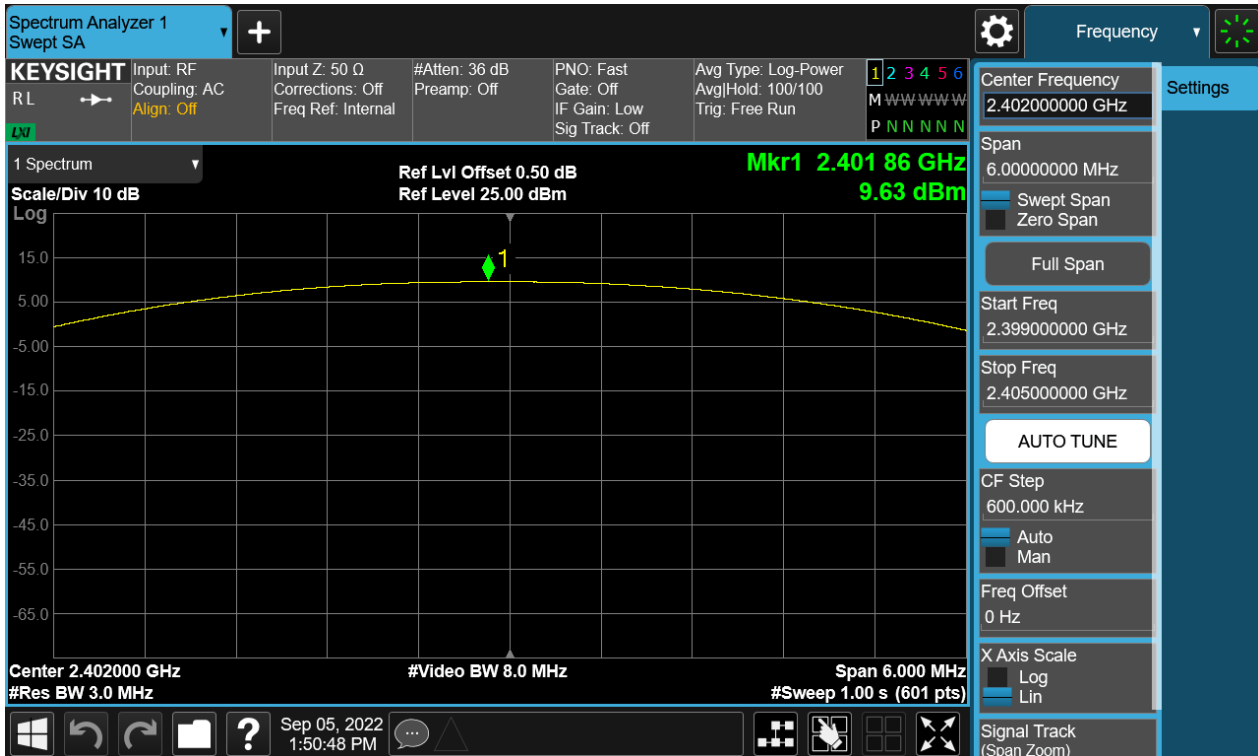


Figure 2: The plots of Maximum Conducted Peak Output Power, 2441MHz, GFSK



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Figure 3: The plots of Maximum Conducted Peak Output Power, 2480MHz, GFSK



Figure 4: The plots of Maximum Conducted Peak Output Power, 2402MHz, $\pi/4$ -DQPSK



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Figure 5: The plots of Maximum Conducted Peak Output Power, 2441MHz, $\pi/4$ -DQPSK

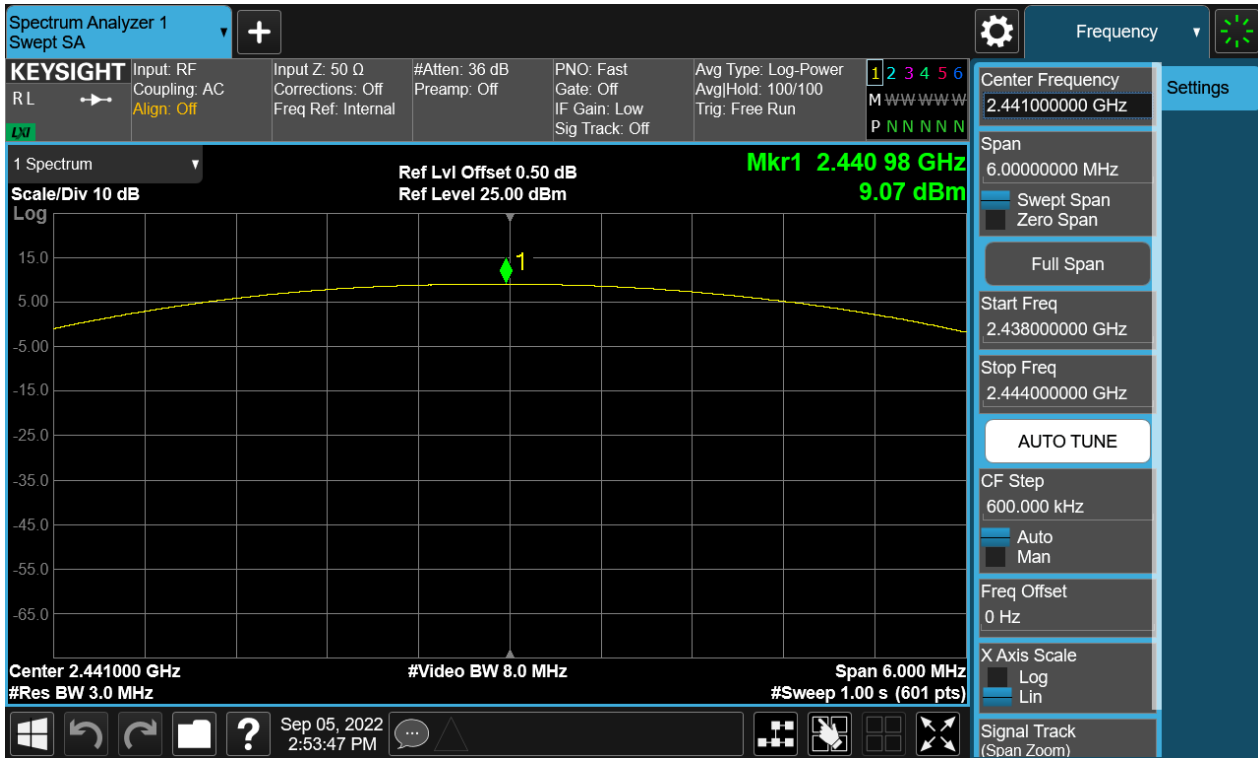
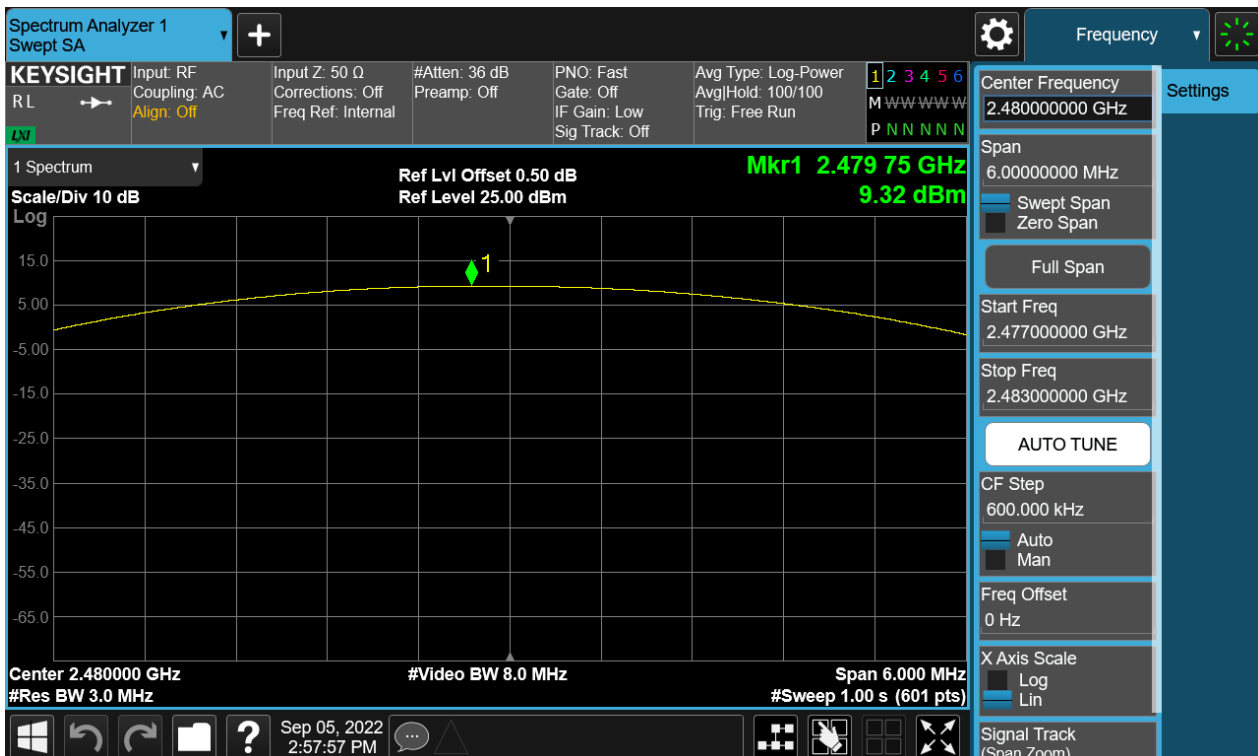


Figure 6: The plots of Maximum Conducted Peak Output Power, 2480MHz, $\pi/4$ -DQPSK



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Figure 7: The plots of Maximum Conducted Peak Output Power, 2402MHz, 8-DPSK

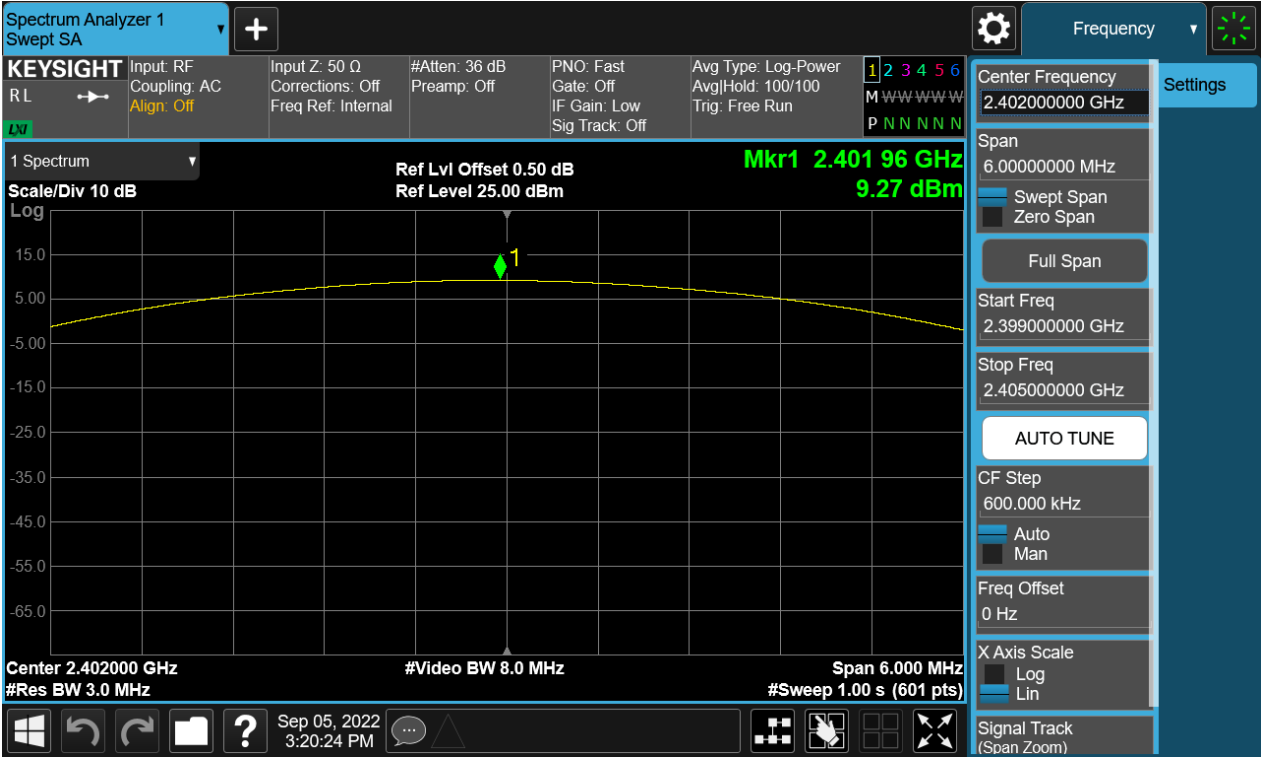
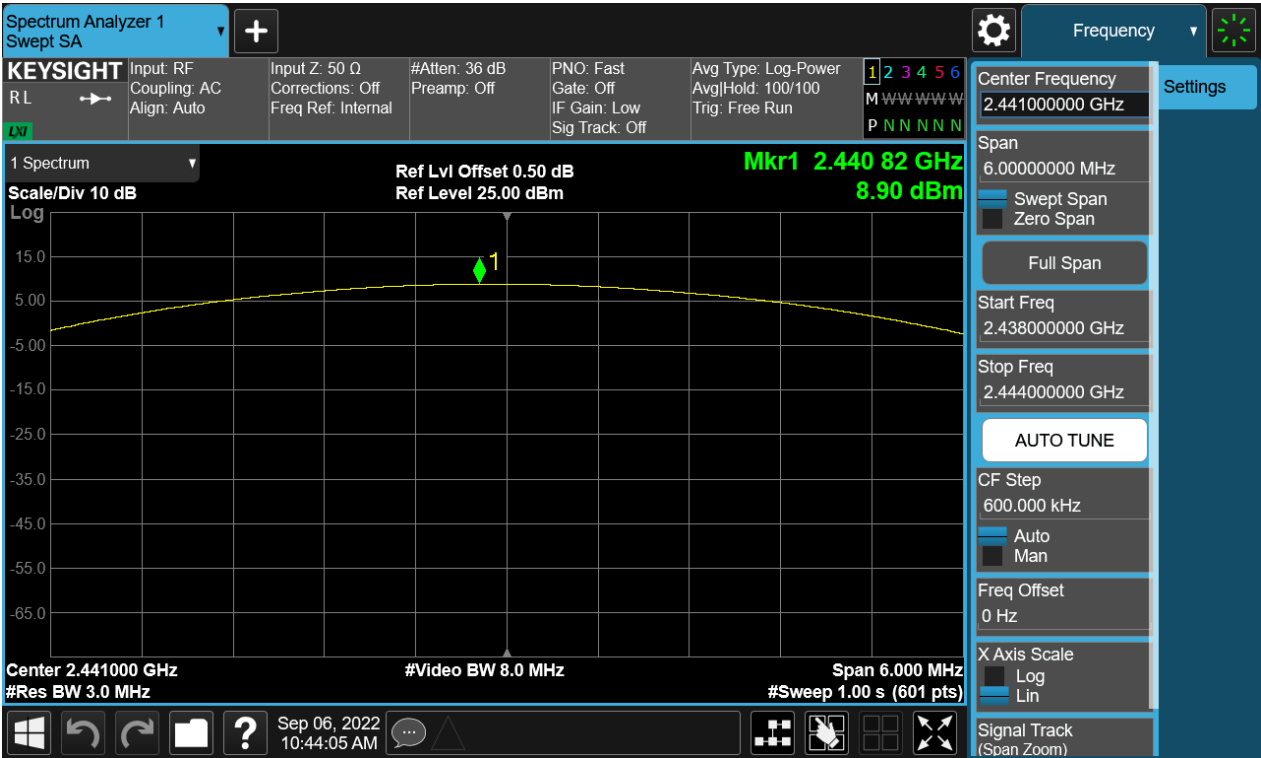


Figure 8: The plots of Maximum Conducted Peak Output Power, 2441MHz, 8-DPSK



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Figure 9: The plots of Maximum Conducted Peak Output Power, 2480MHz, 8-DPSK



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4.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1),
RSS-247 5.1(a), RSS-Gen 6.7
Requirement : ANSI C63.10-2013 clause 7.8.7
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 24.9°C
Relative humidity : 57%

Table 3: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2402	0.9283	0.8319
	2441	0.9229	0.8219
	2480	0.9271	0.8298
$\pi/4$ -DQPSK	2402	1.2660	1.1732
	2441	1.2820	1.1766
	2480	1.3310	1.1829
8-DPSK	2402	1.3090	1.1798
	2441	1.2840	1.1748
	2480	1.2950	1.1790

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Figure 10: The plots of 20dB Bandwidth and 99% Bandwidth, 2402MHz, GFSK



Figure 11: The plots of 20dB Bandwidth and 99% Bandwidth, 2441MHz, GFSK



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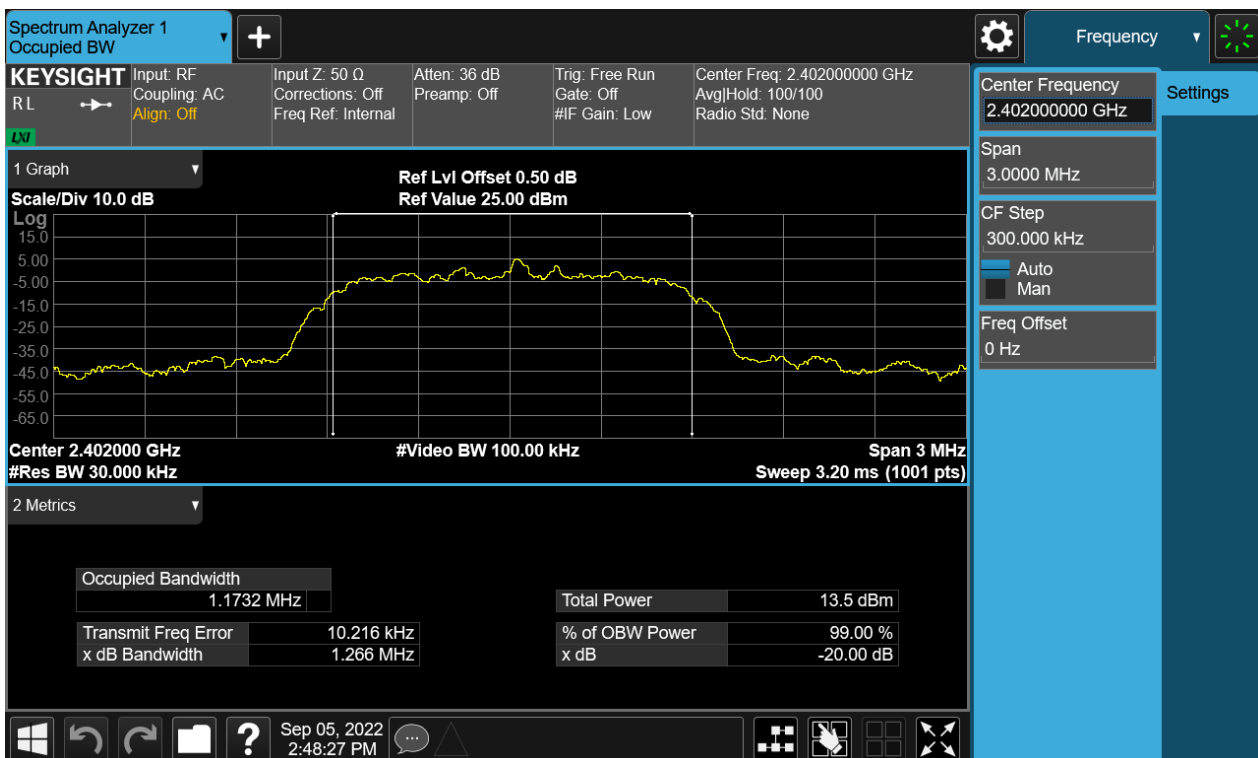
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Figure 12: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz, GFSK



Figure 13: The plots of 20dB Bandwidth and 99% Bandwidth, 2402MHz, $\pi/4$ -DQPSK



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Figure 14: The plots of 20dB Bandwidth and 99% Bandwidth, 2441MHz, $\pi/4$ -DQPSK

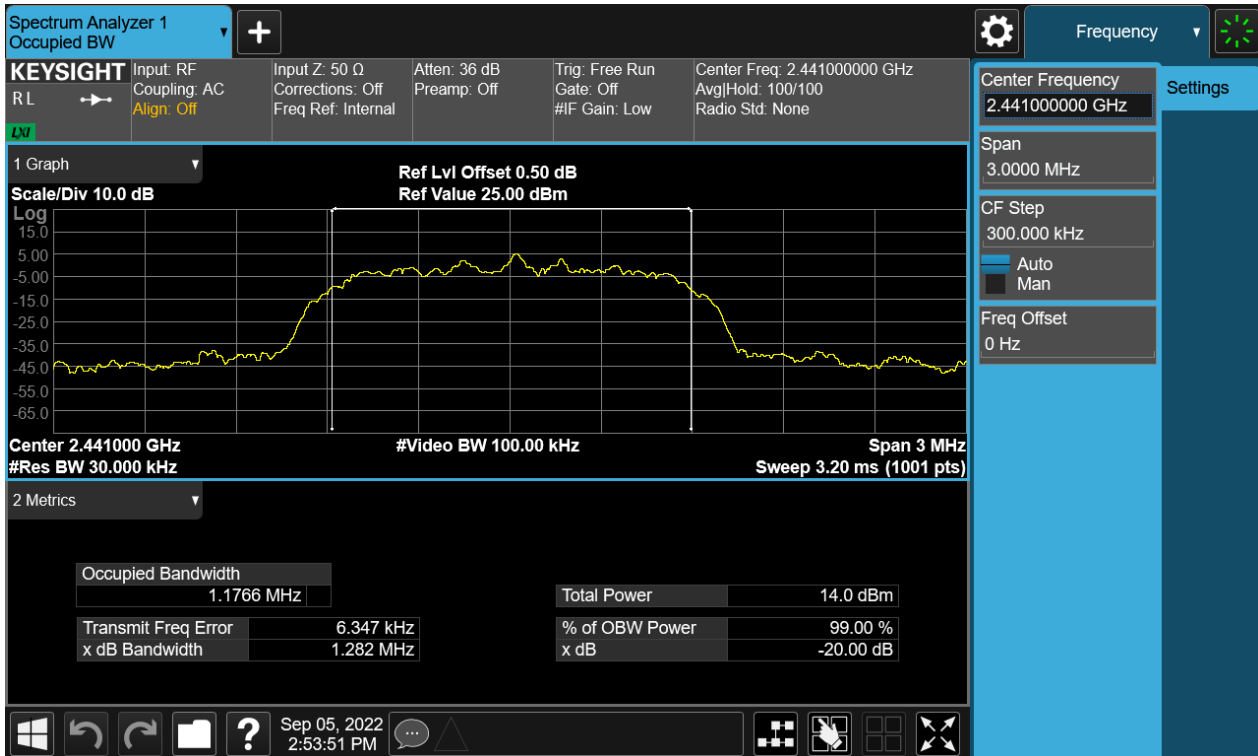
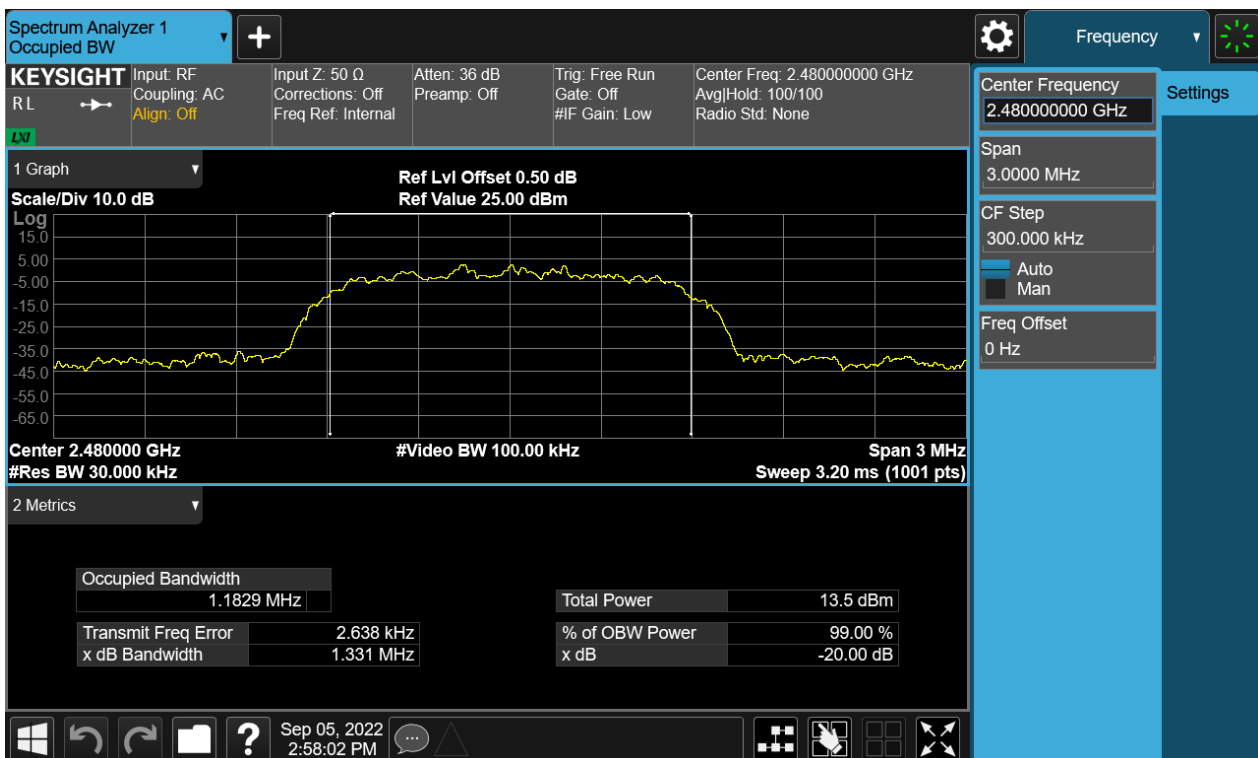


Figure 15: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz, $\pi/4$ -DQPSK



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Figure 16: The plots of 20dB Bandwidth and 99% Bandwidth, 2402MHz, 8-DPSK

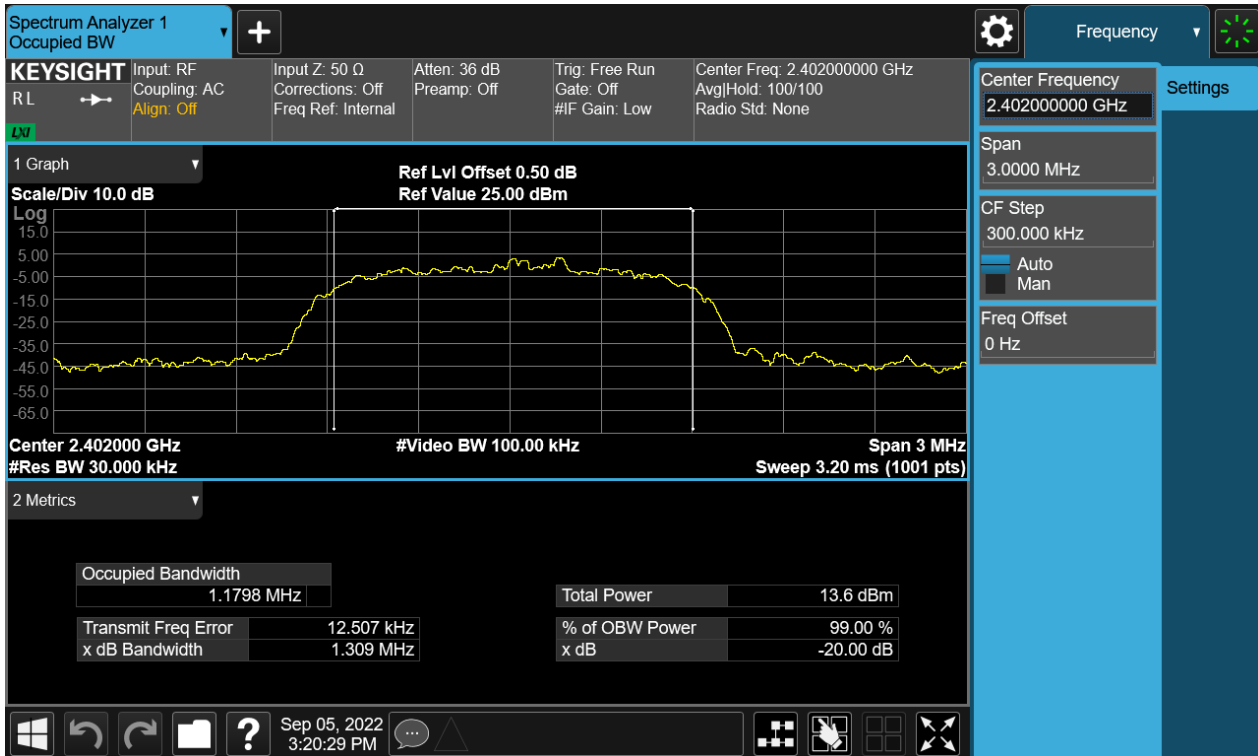
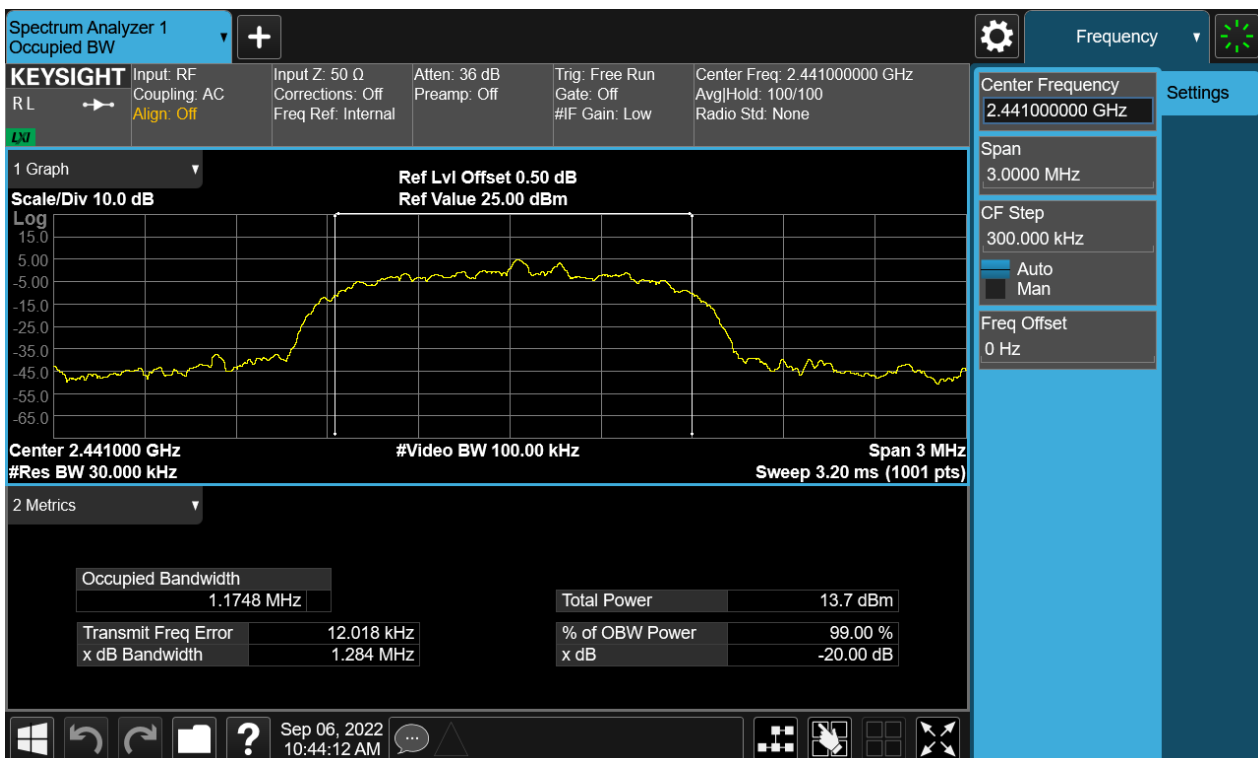


Figure 17: The plots of 20dB Bandwidth and 99% Bandwidth, 2441MHz, 8-DPSK



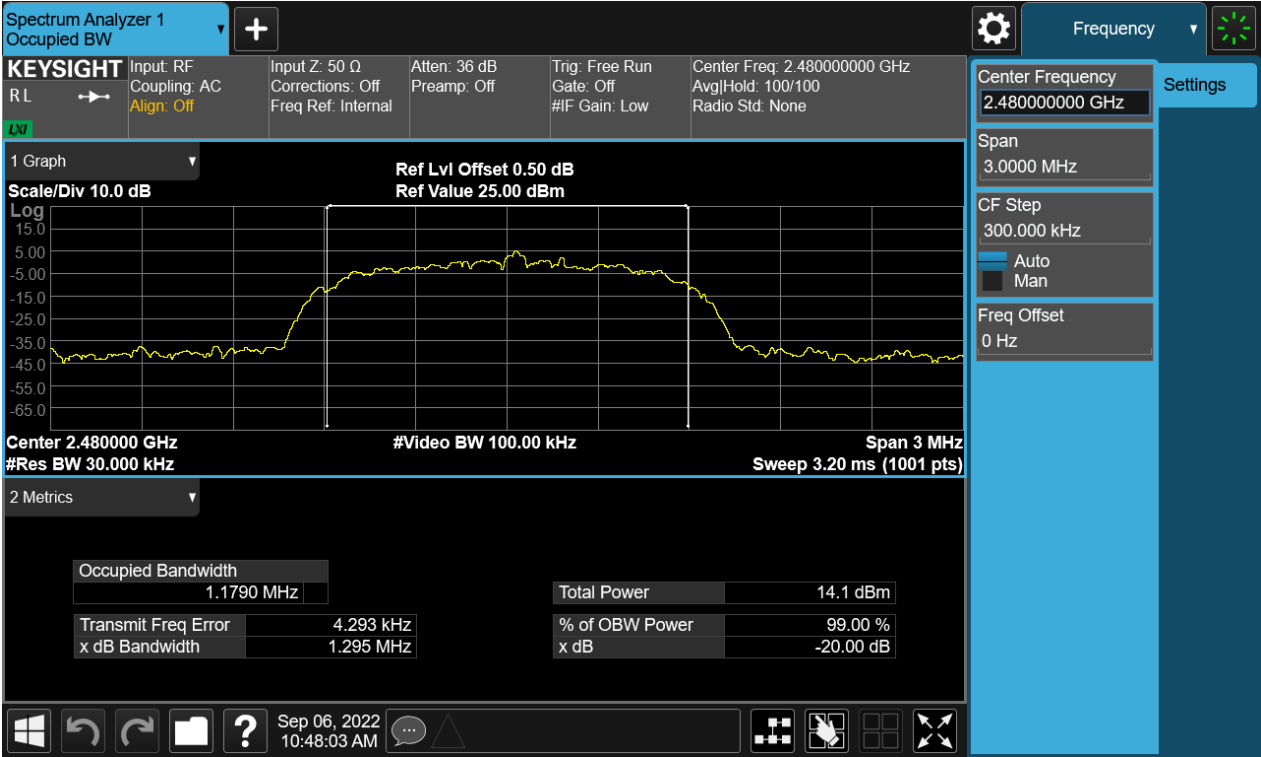
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Figure 18: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz, 8-DPSK



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4.1.4 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d), RSS-247 5.5
Requirement	: ANSI C63.10-2013 clause 7.8.8
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 24.9°C
Relative humidity	: 57%

For details refer to following test plot.

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Figure 19: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, GFSK Carrier Level

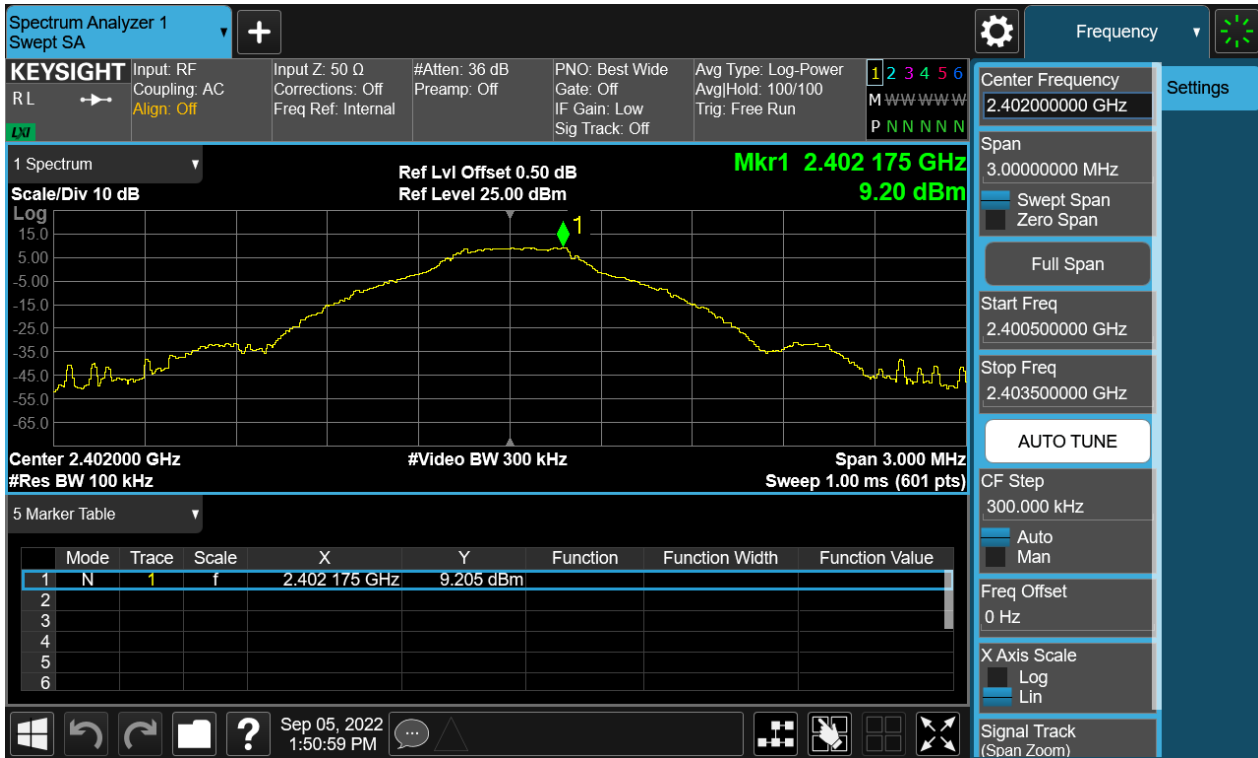
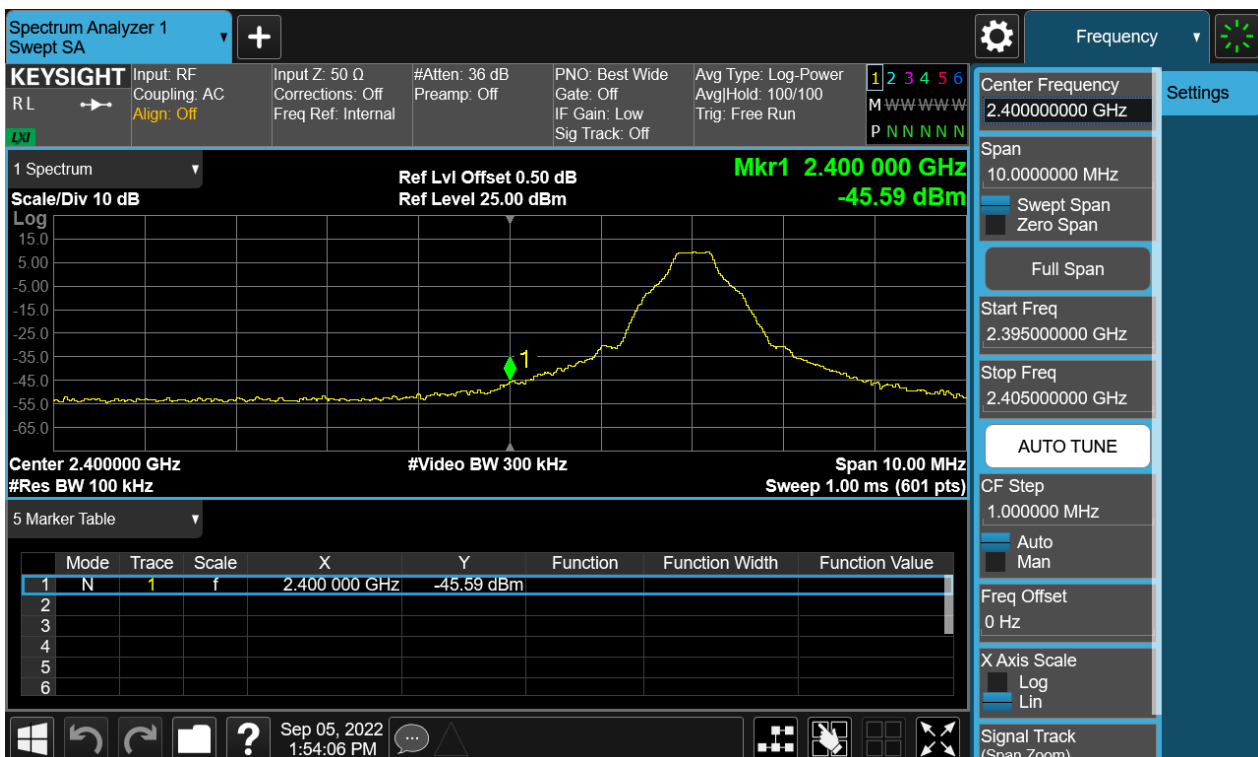


Figure 20: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, GFSK Band Edge



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Figure 21: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, GFSK
Conducted spurious emissions 30MHz-3GHz

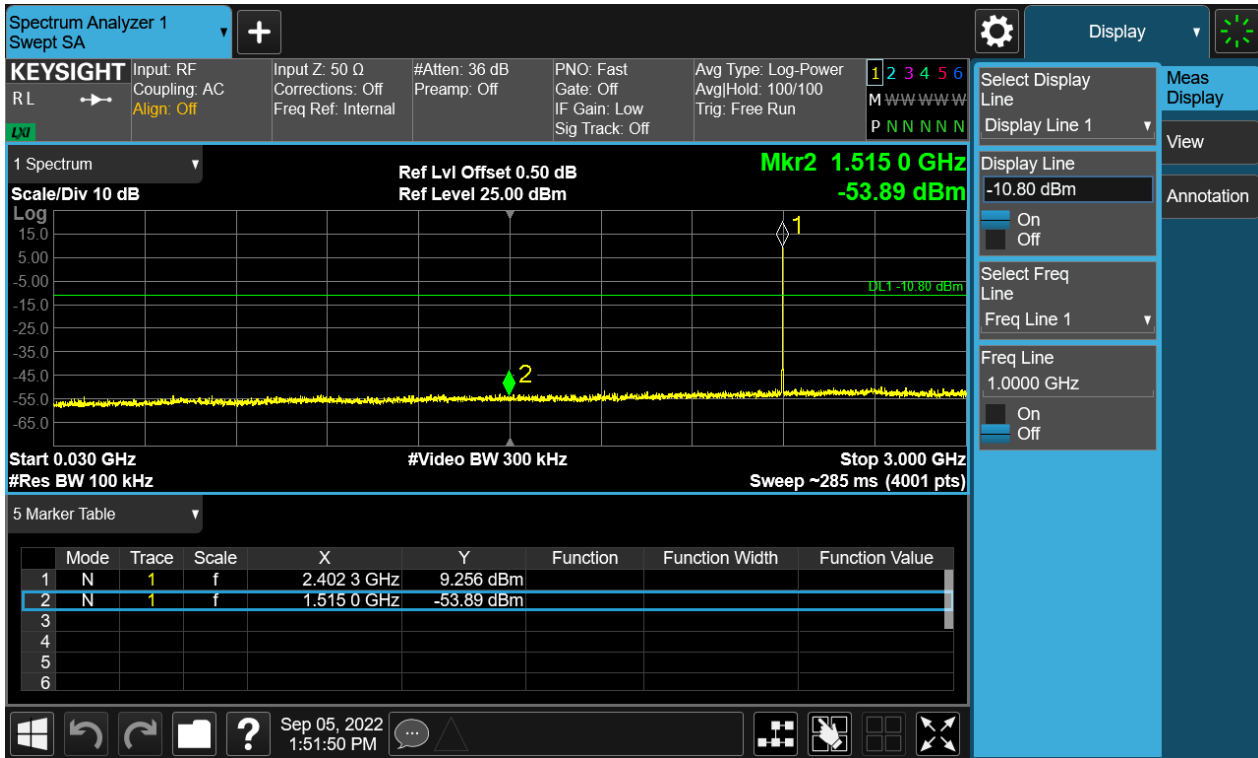
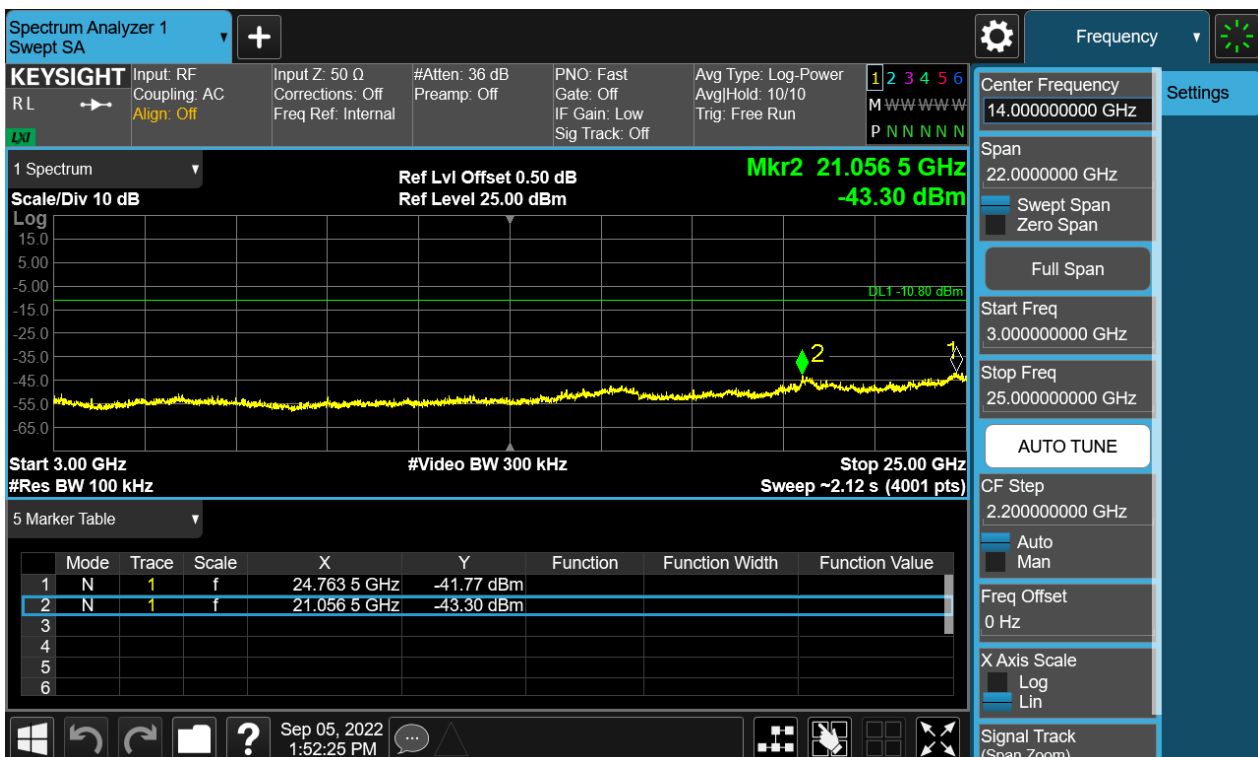


Figure 22: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, GFSK
Conducted spurious emissions 3GHz-25GHz



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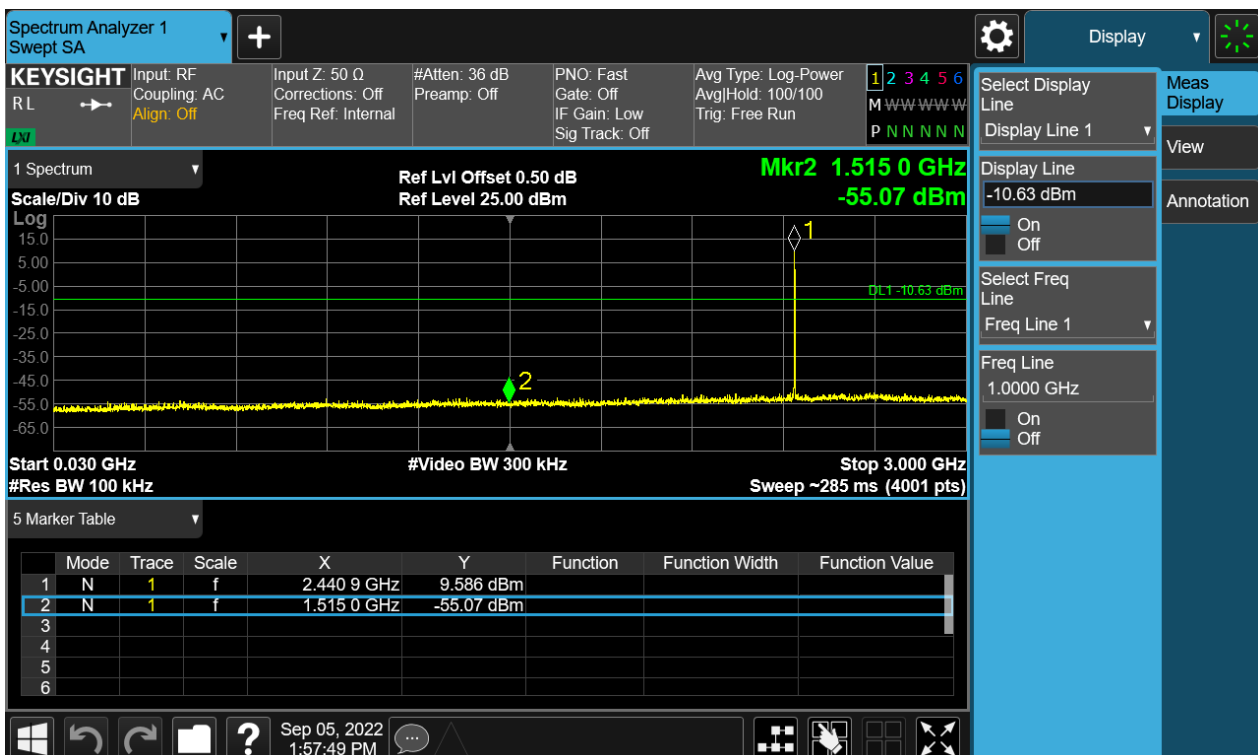
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Figure 23: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, GFSK Carrier Level



Figure 24: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, GFSK Conducted spurious emissions 30MHz-3GHz



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Figure 25: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, GFSK
Conducted spurious emissions 3GHz-25GHz

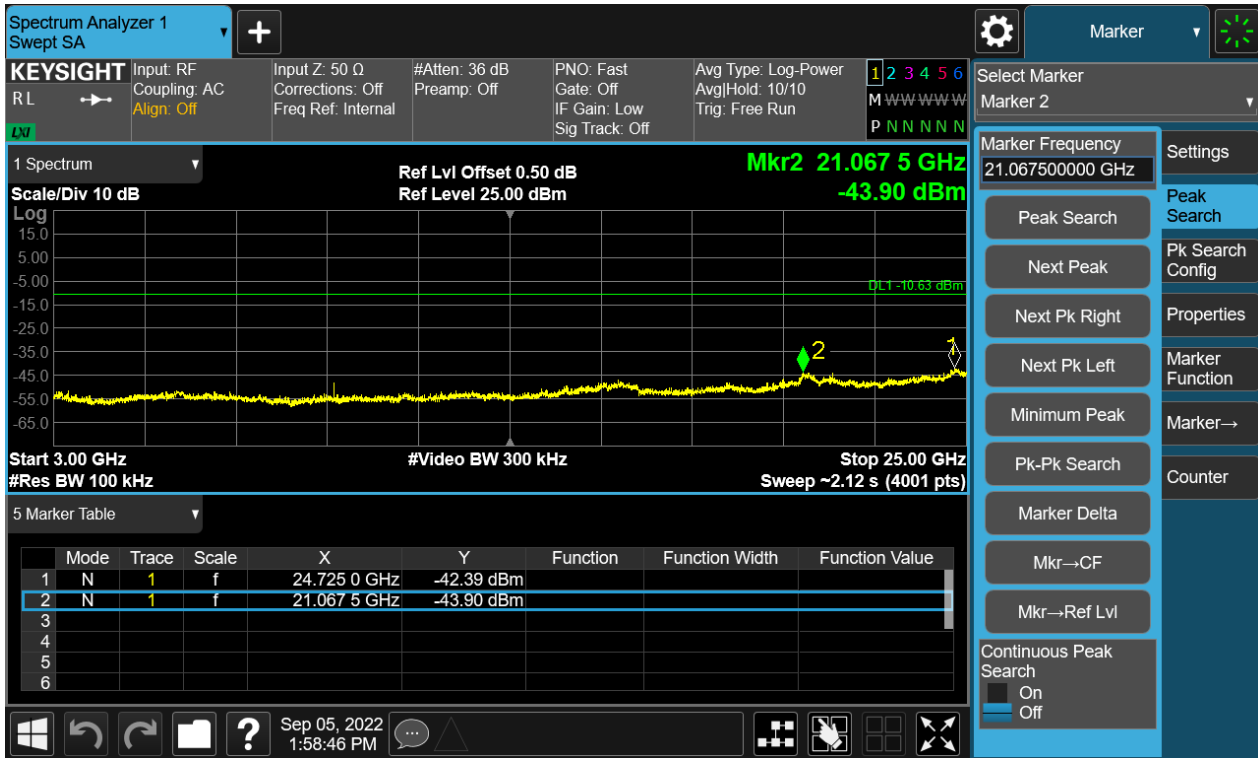


Figure 26: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, GFSK
Carrier Level



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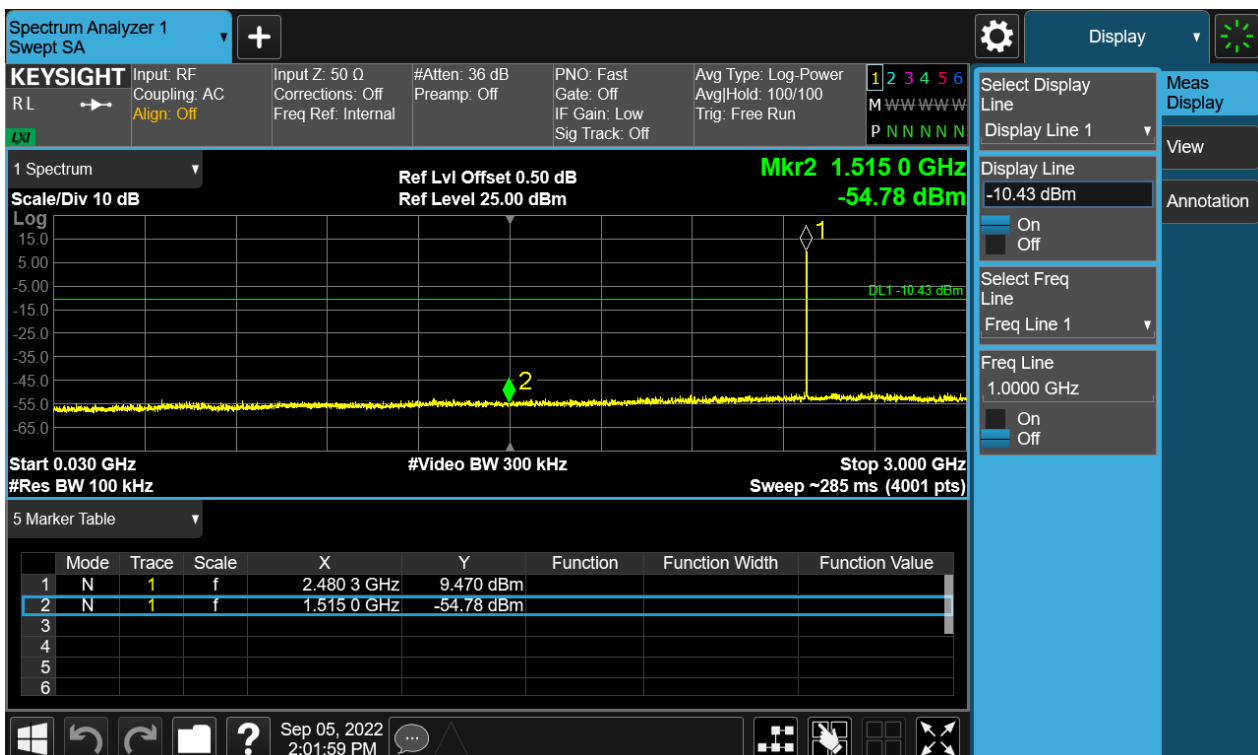
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Figure 27: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, GFSK Band Edge



Figure 28: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, GFSK Conducted spurious emissions 30MHz-3GHz



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Figure 29: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, GFSK
Conducted spurious emissions 3GHz-25GHz

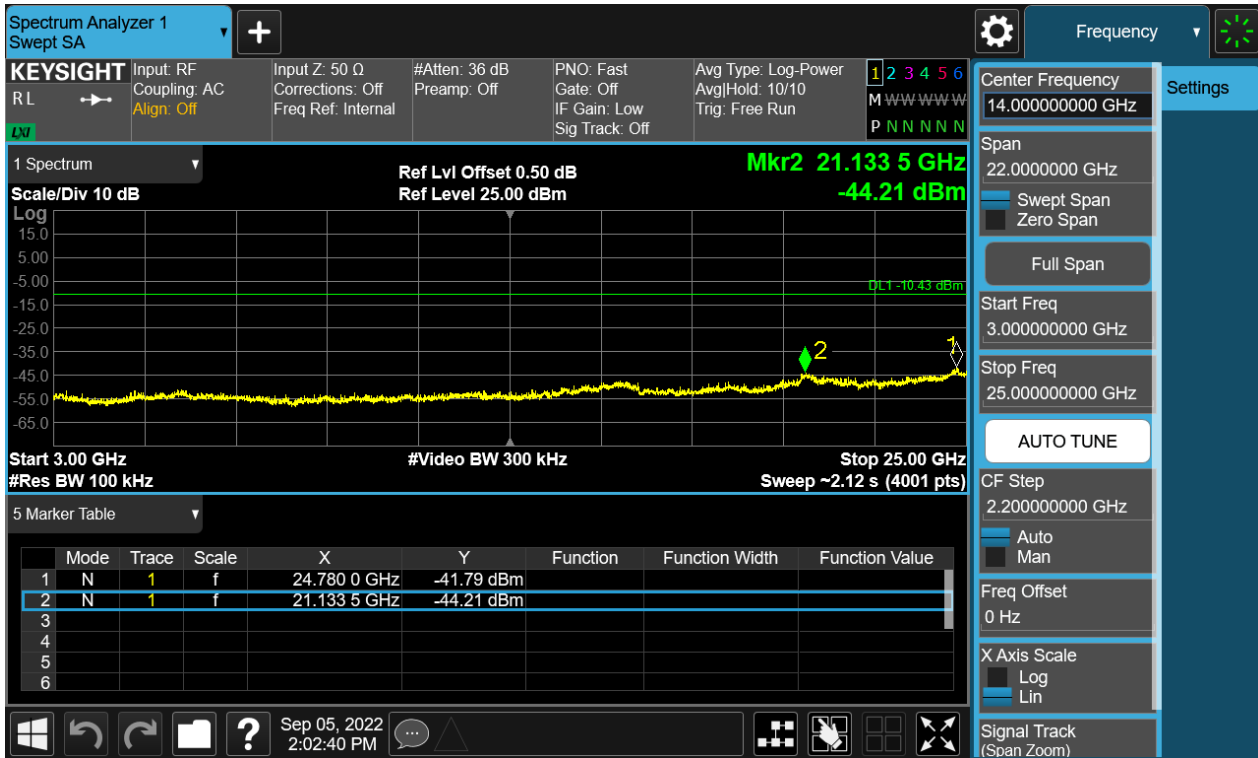
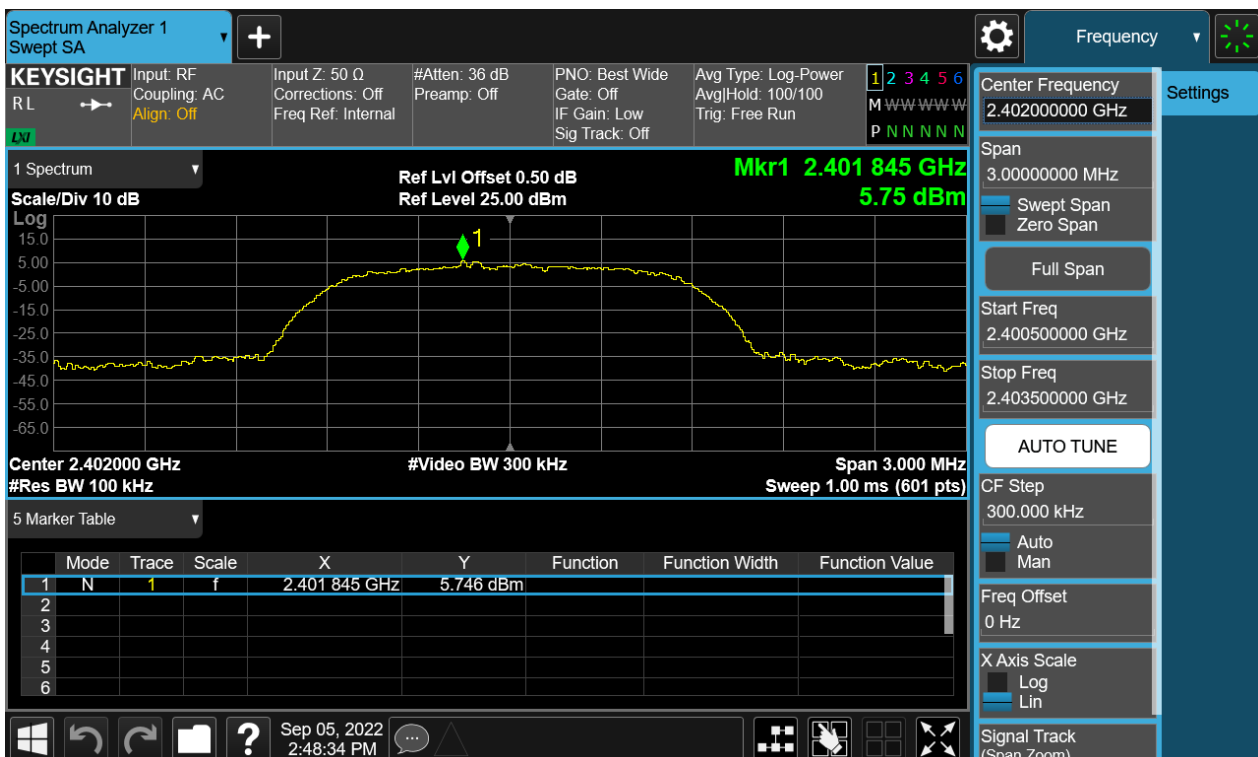


Figure 20: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, $\pi/4$ -DQPSK
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Figure 21: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, $\pi/4$ -DQPSK Band Edge

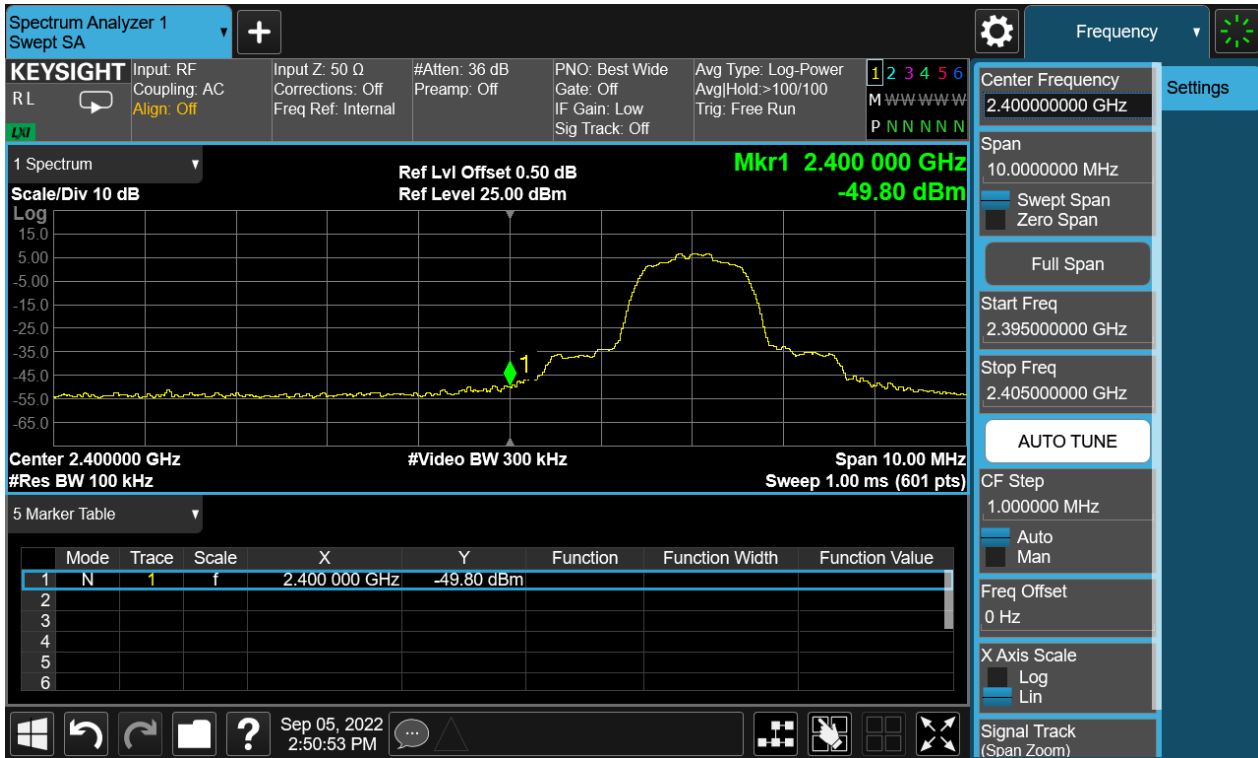
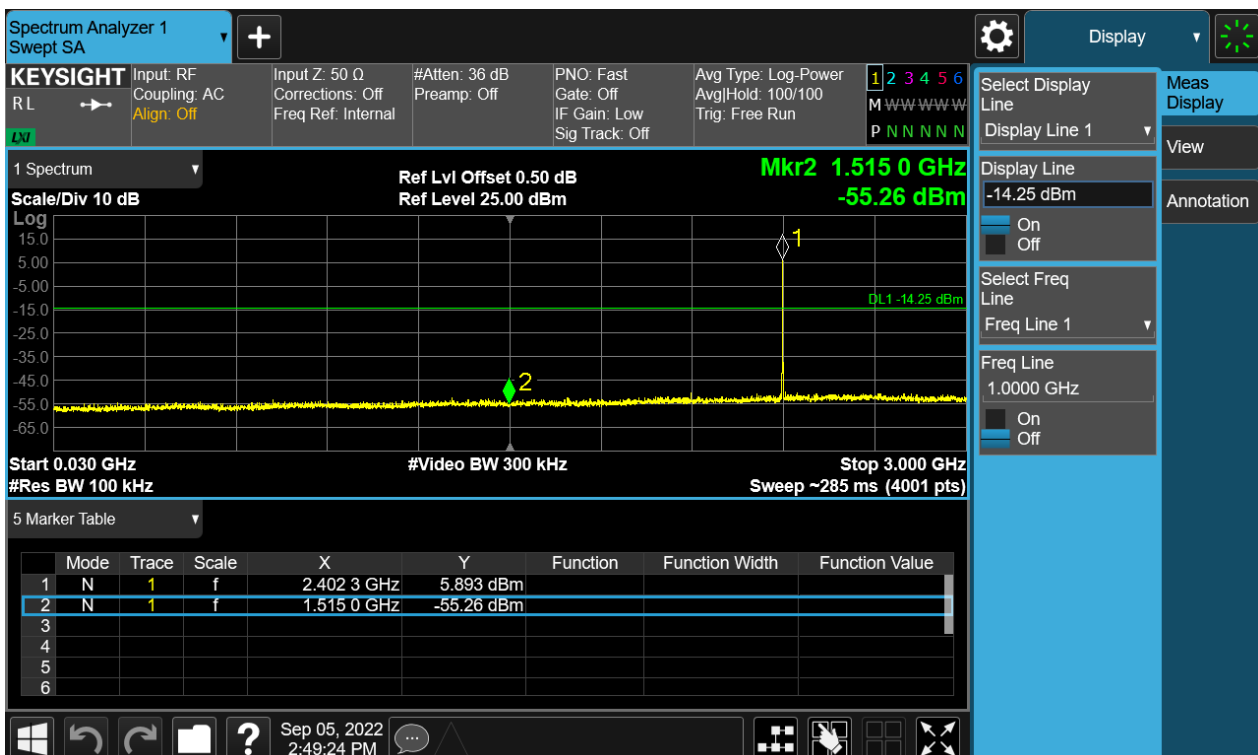


Figure 22: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, $\pi/4$ -DQPSK Conducted spurious emissions 30MHz-3GHz



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Figure 23: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, $\pi/4$ -DQPSK
Conducted spurious emissions 3GHz-25GHz

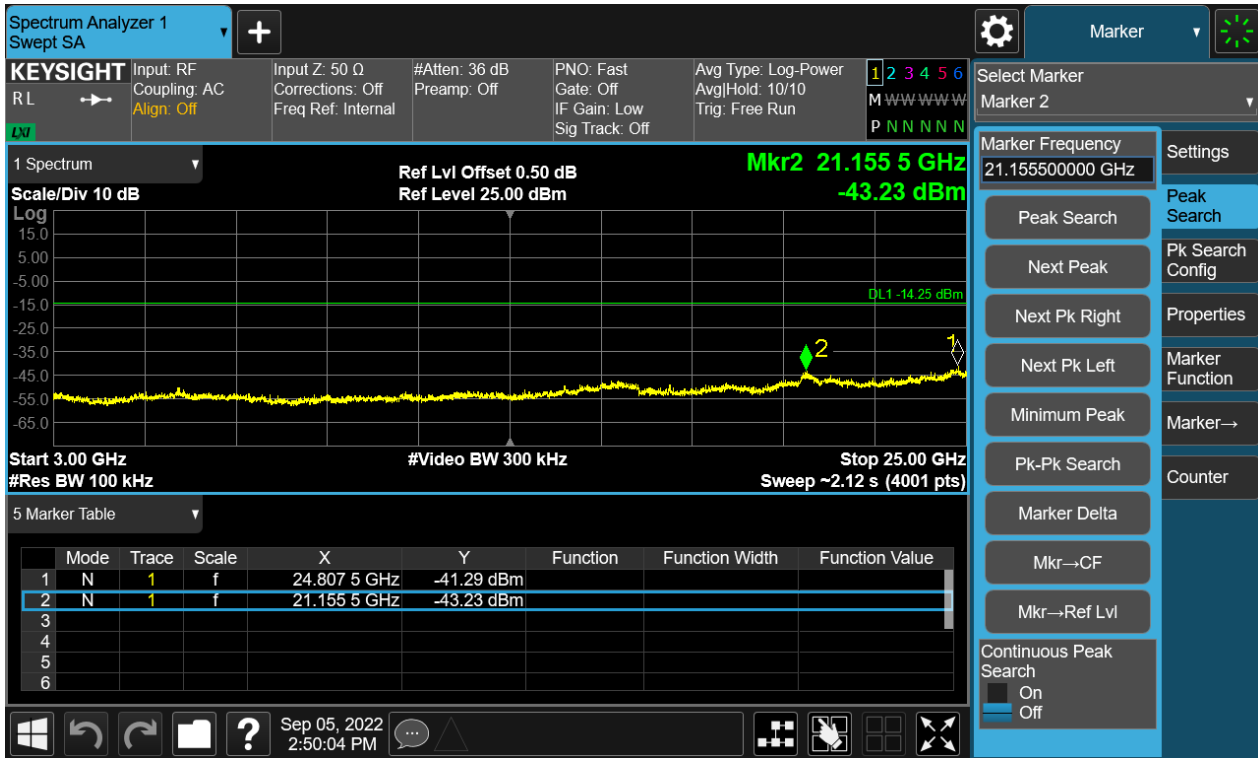
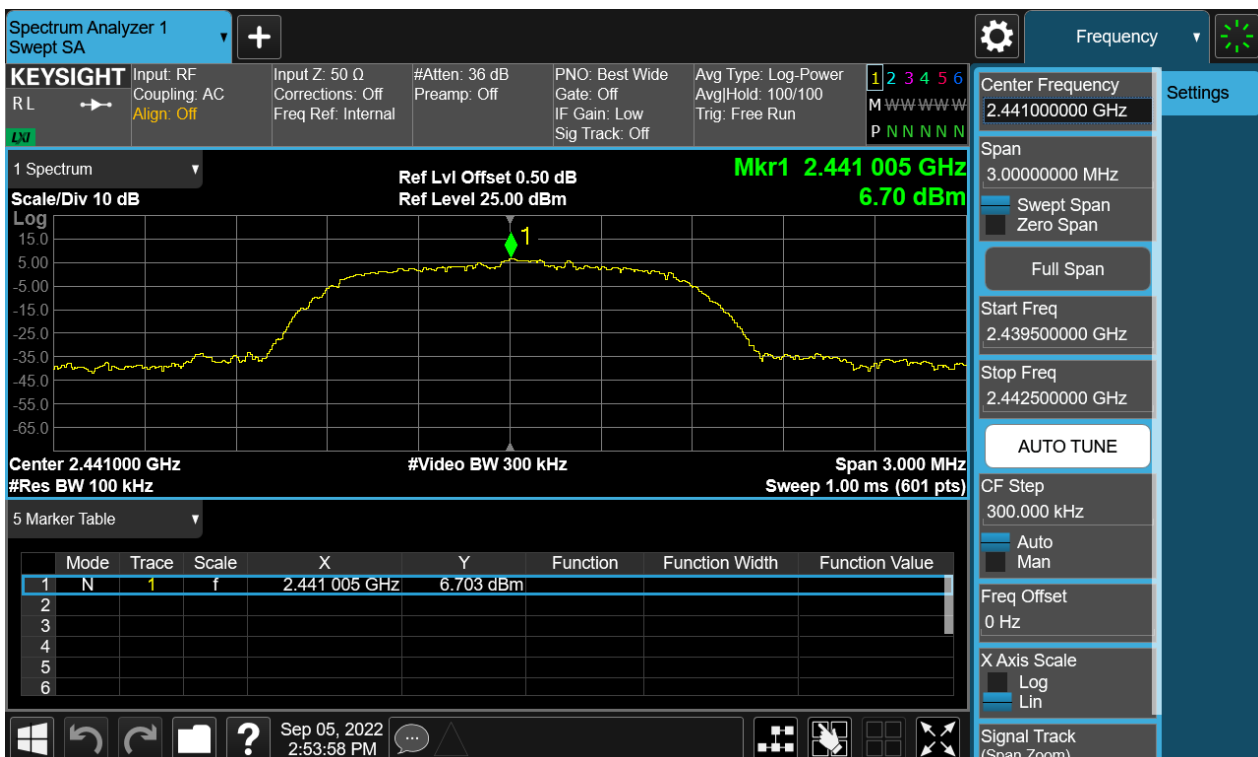


Figure 24: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, $\pi/4$ -DQPSK
Carrier Level



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Figure 25: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, $\pi/4$ -DQPSK
Conducted spurious emissions 30MHz-3GHz

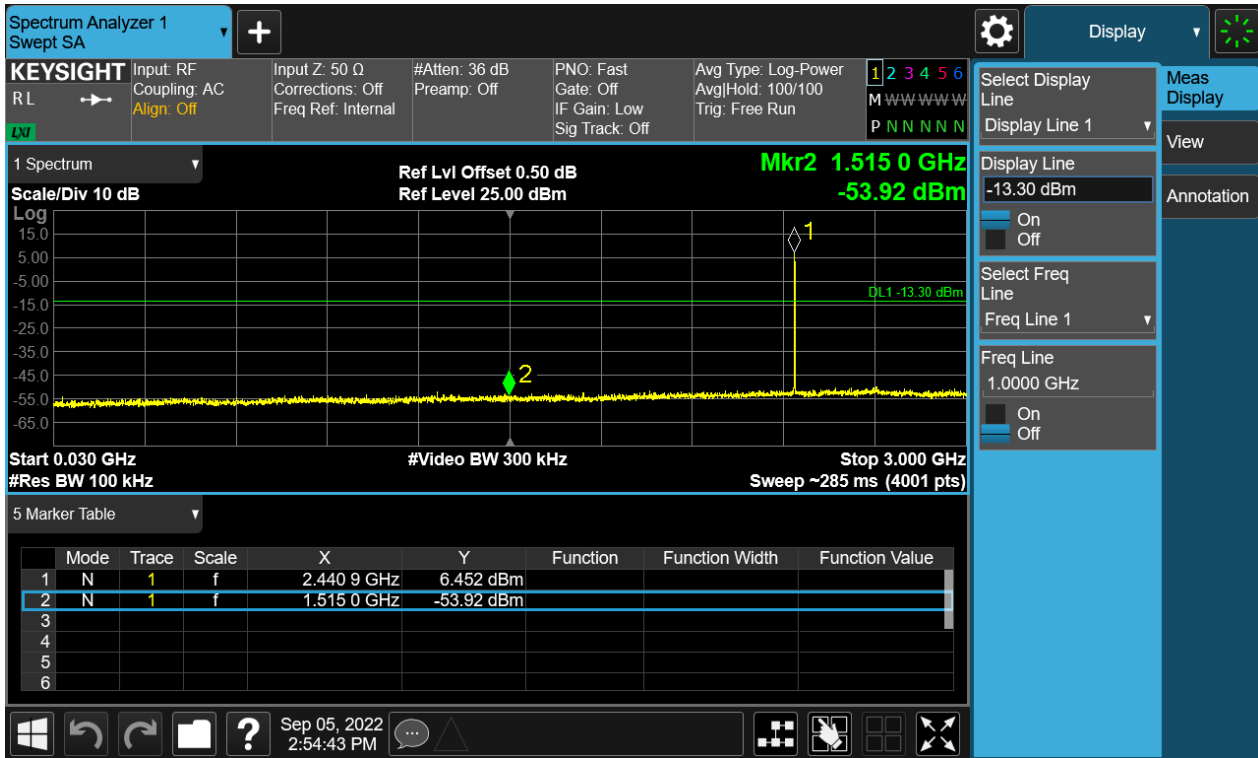
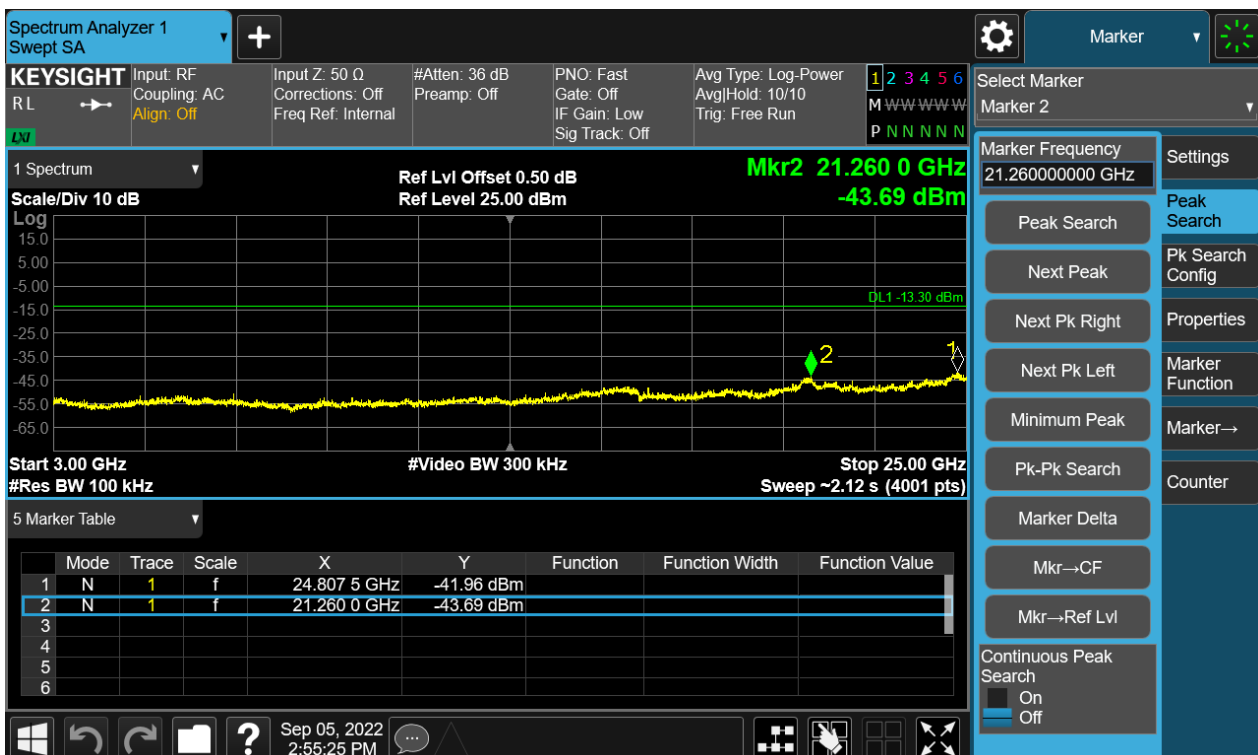


Figure 26: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, $\pi/4$ -DQPSK
Conducted spurious emissions 3GHz-25GHz



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Figure 37: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, $\pi/4$ -DQPSK Carrier Level

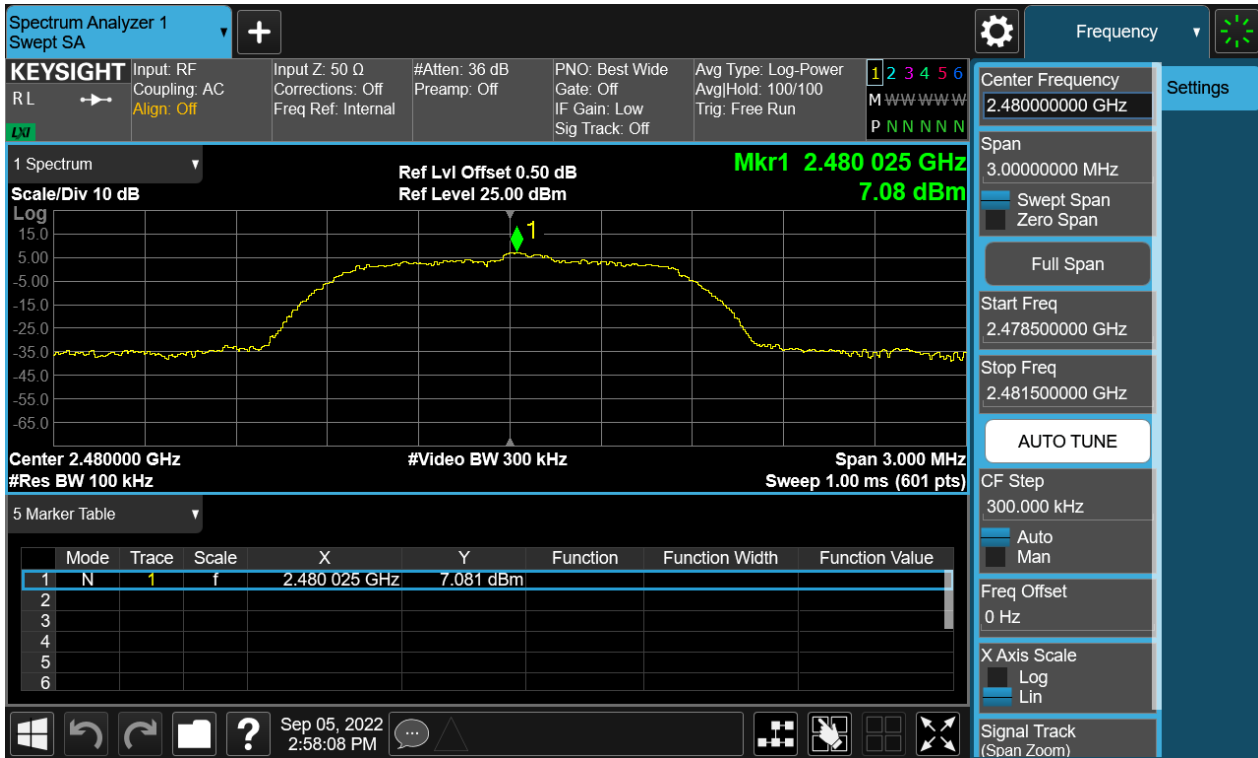


Figure 38: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, $\pi/4$ -DQPSK Band Edge



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Figure 39: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, $\pi/4$ -DQPSK
Conducted spurious emissions 30MHz-3GHz

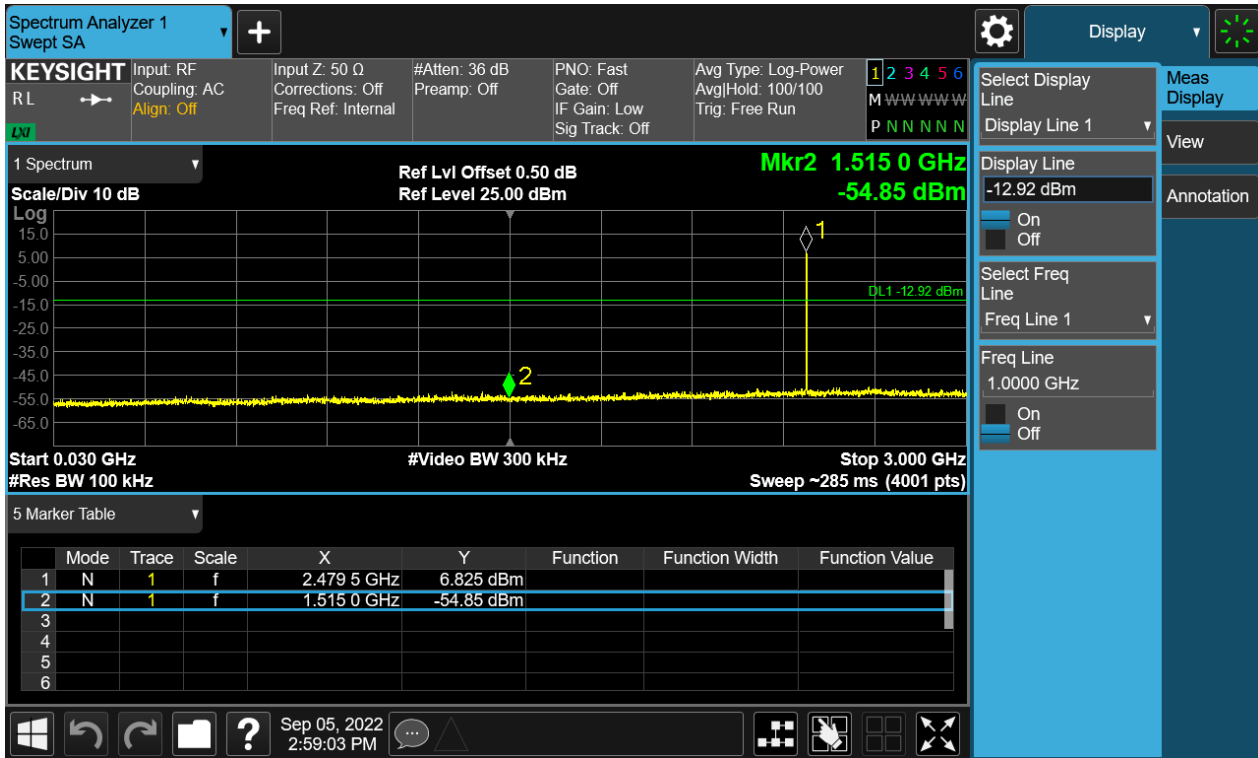
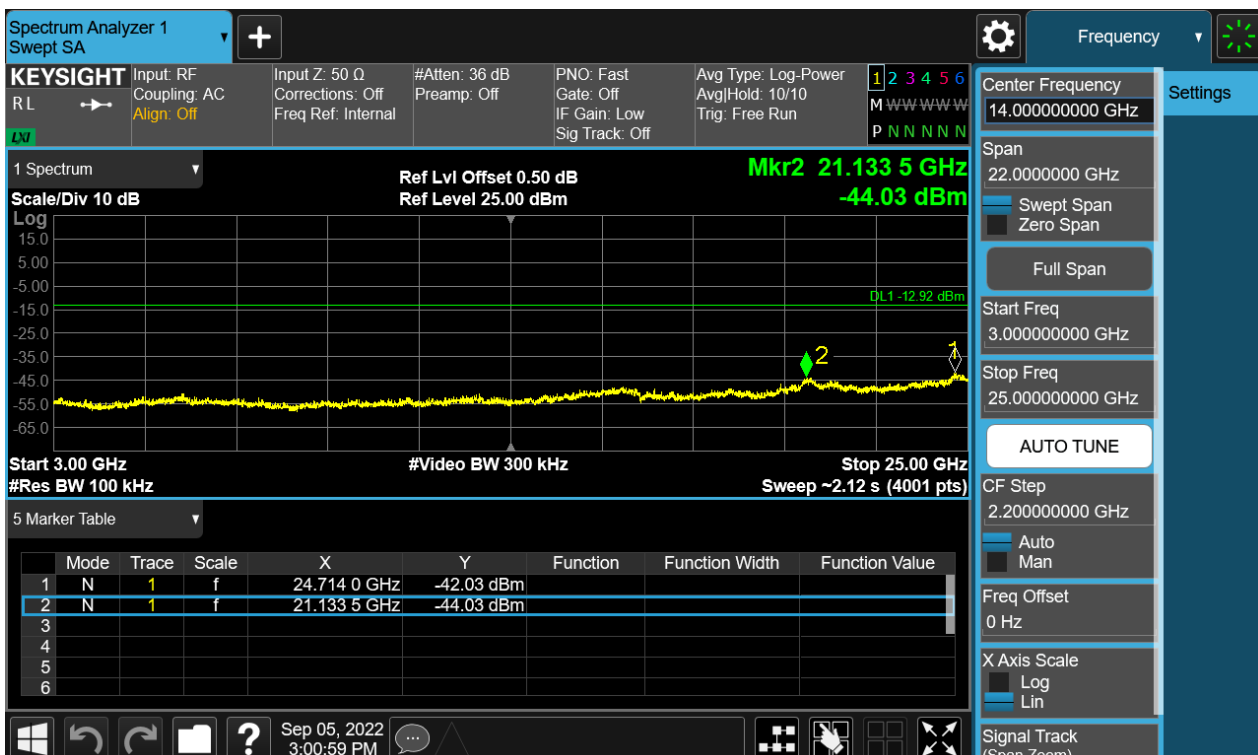


Figure 40: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, $\pi/4$ -DQPSK
Conducted spurious emissions 3GHz-25GHz



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Figure 41: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK Carrier Level

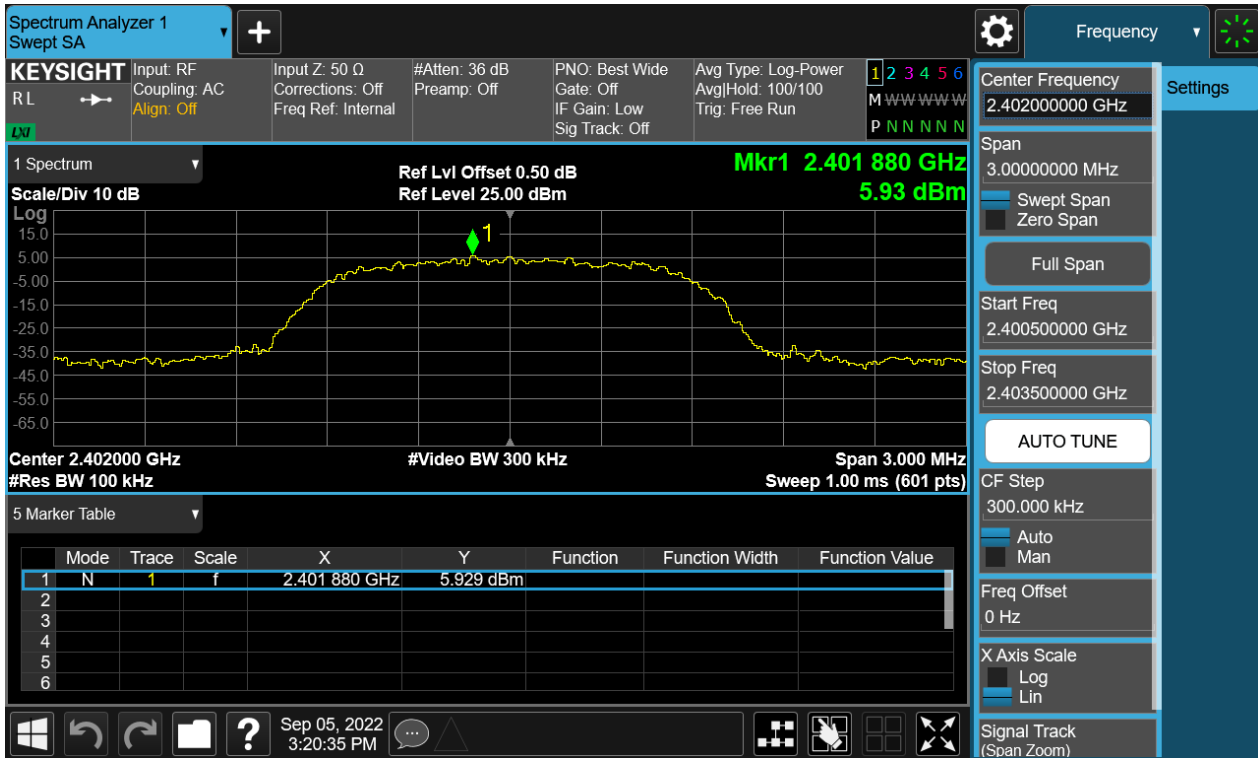
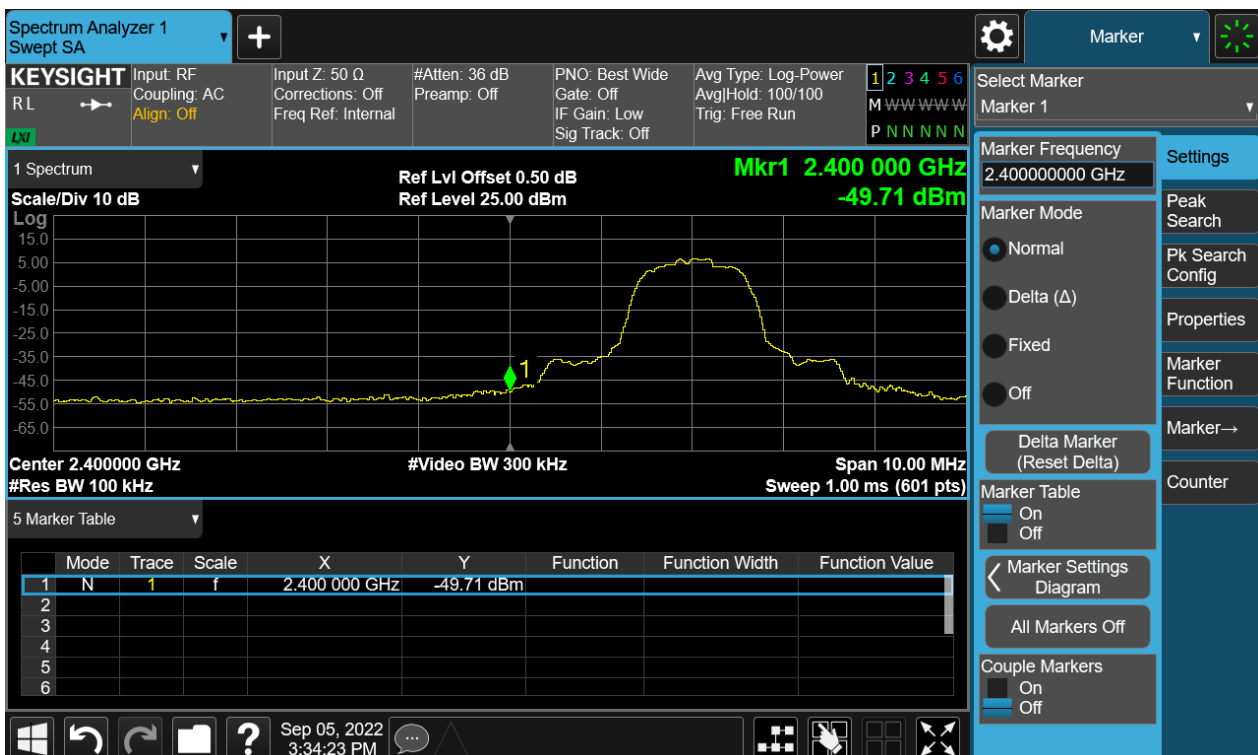


Figure 42: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK Band Edge



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Figure 43: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK
Conducted spurious emissions 30MHz-3GHz

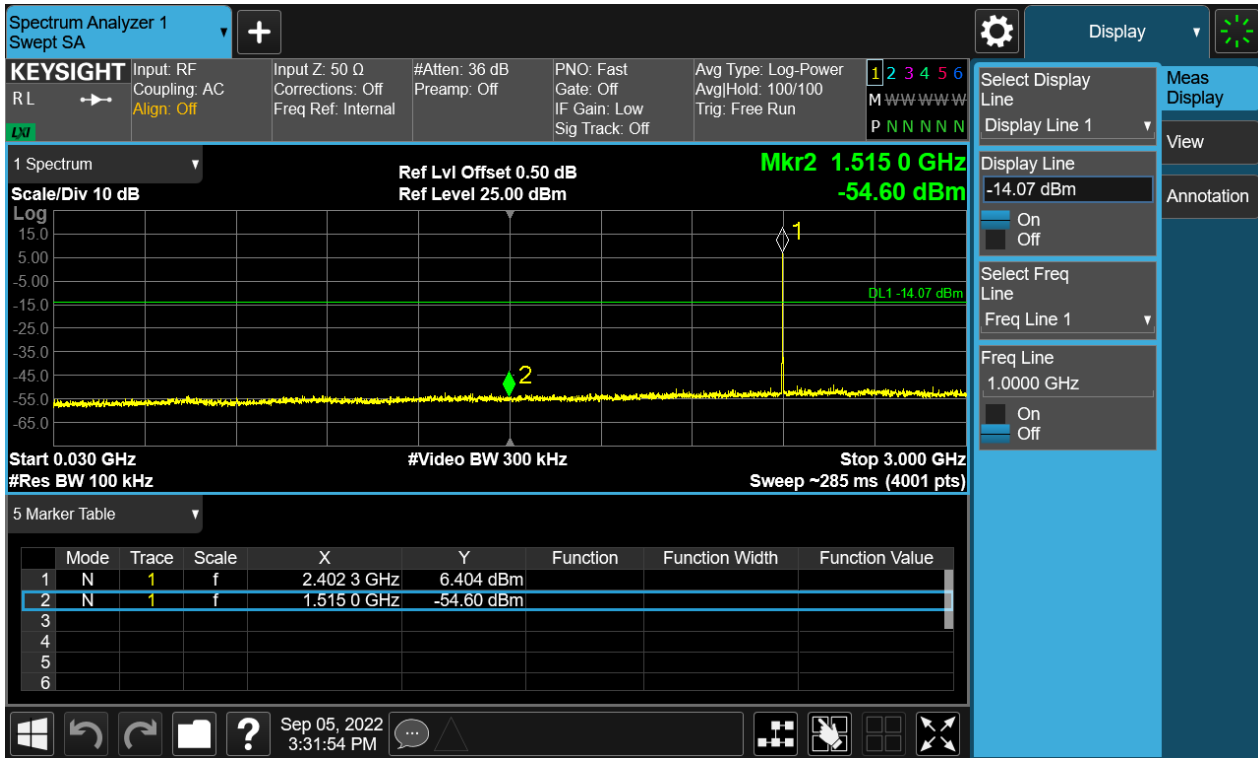
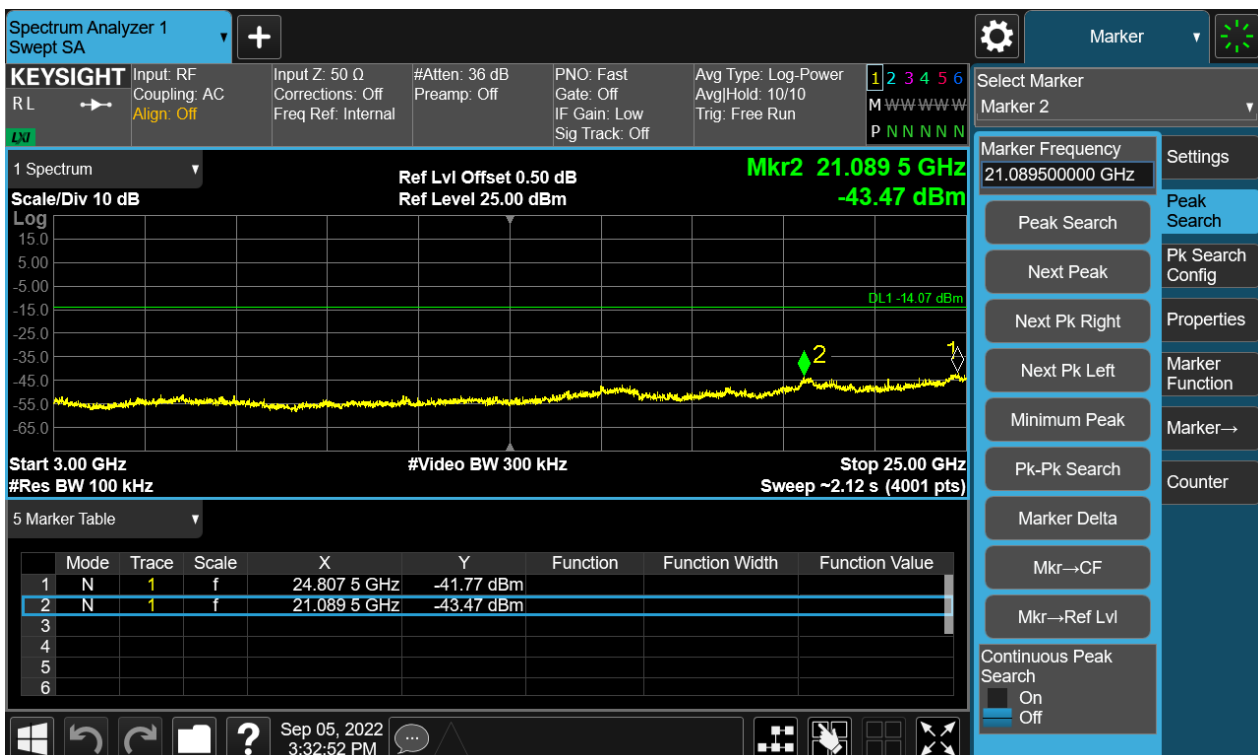


Figure 44: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK
Conducted spurious emissions 3GHz-25GHz



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Figure 45: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK Carrier Level

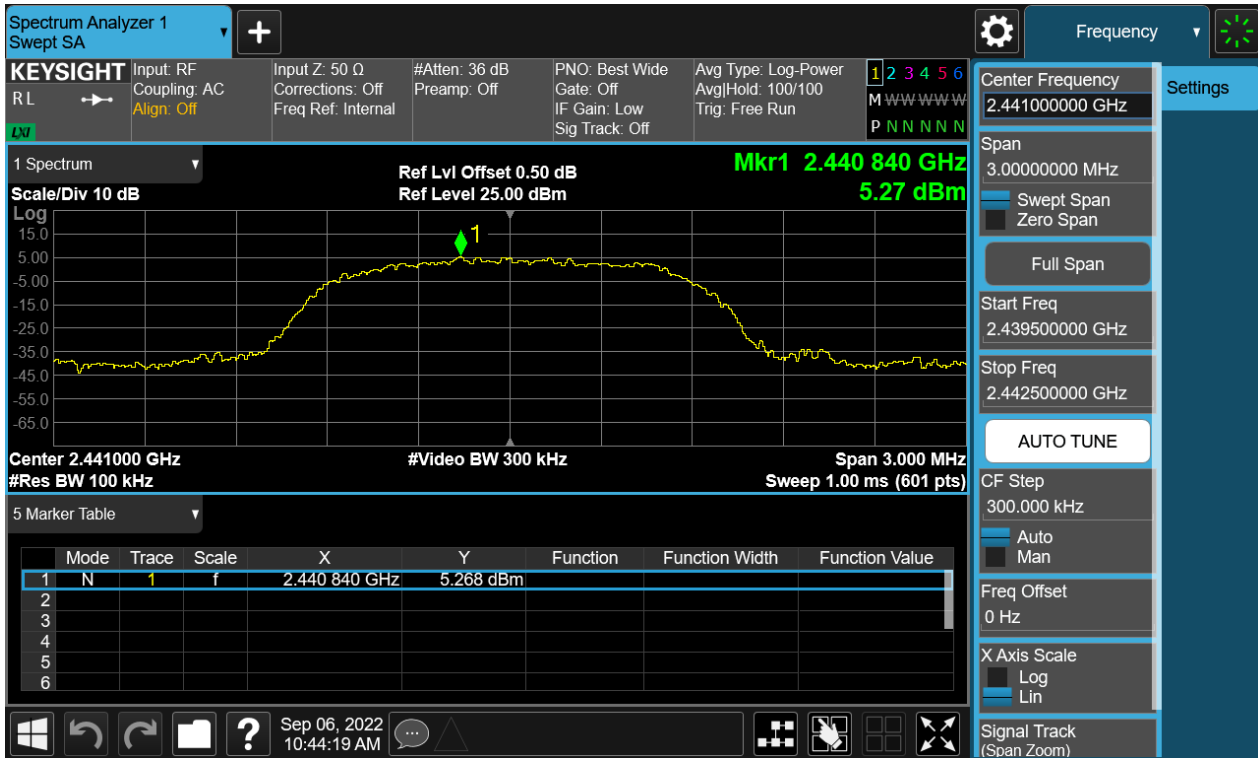
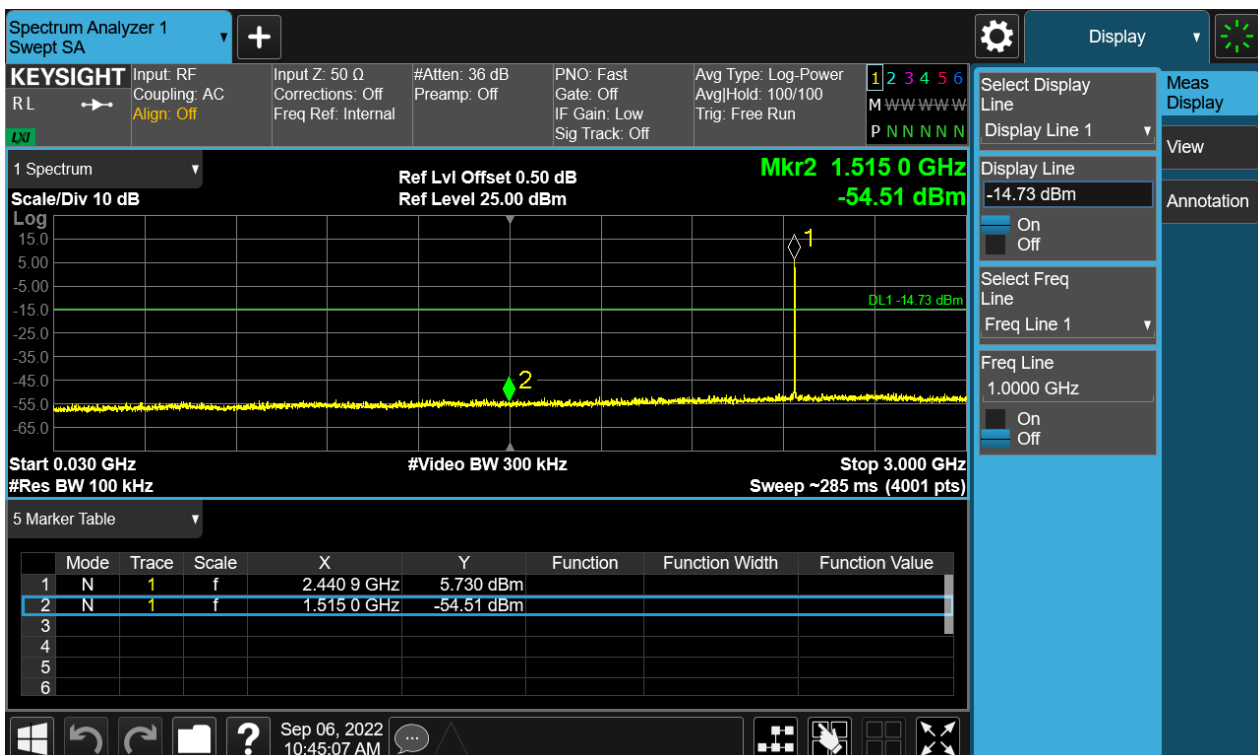


Figure 46: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK Conducted spurious emissions 30MHz-3GHz



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Figure 47: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK
Conducted spurious emissions 3GHz-25GHz

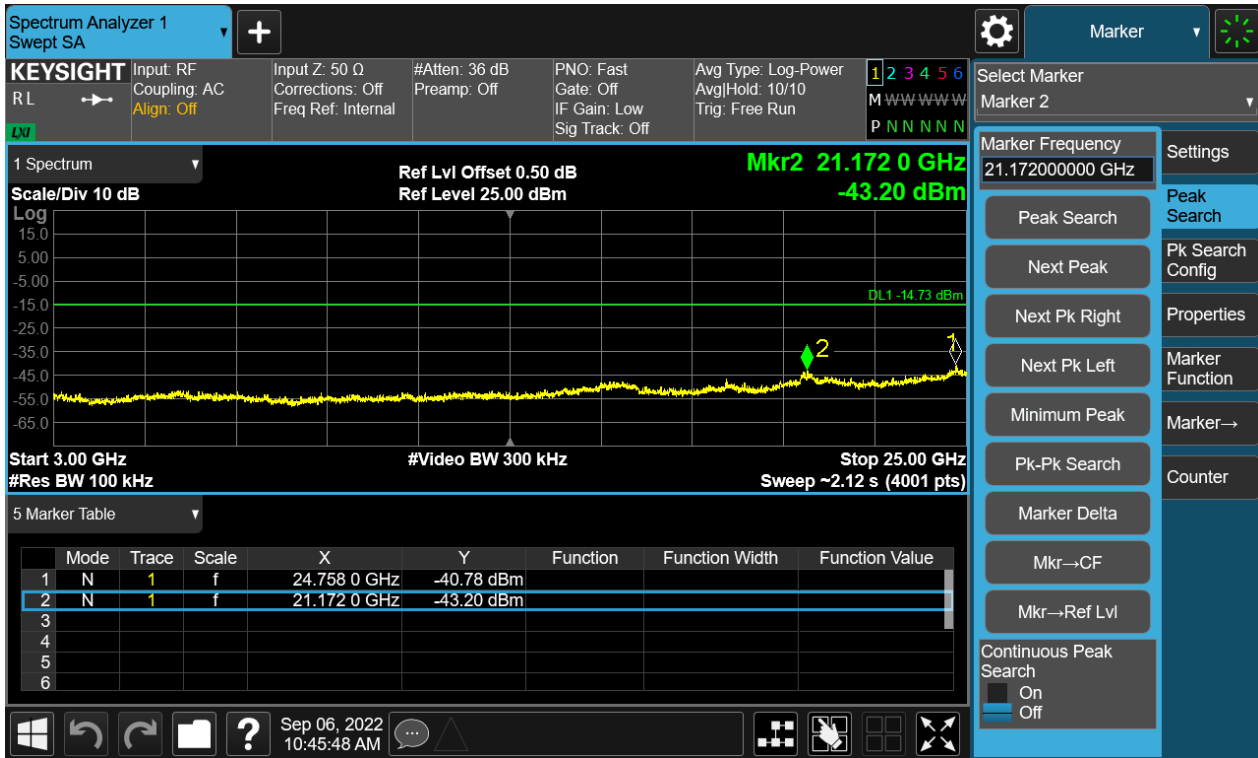
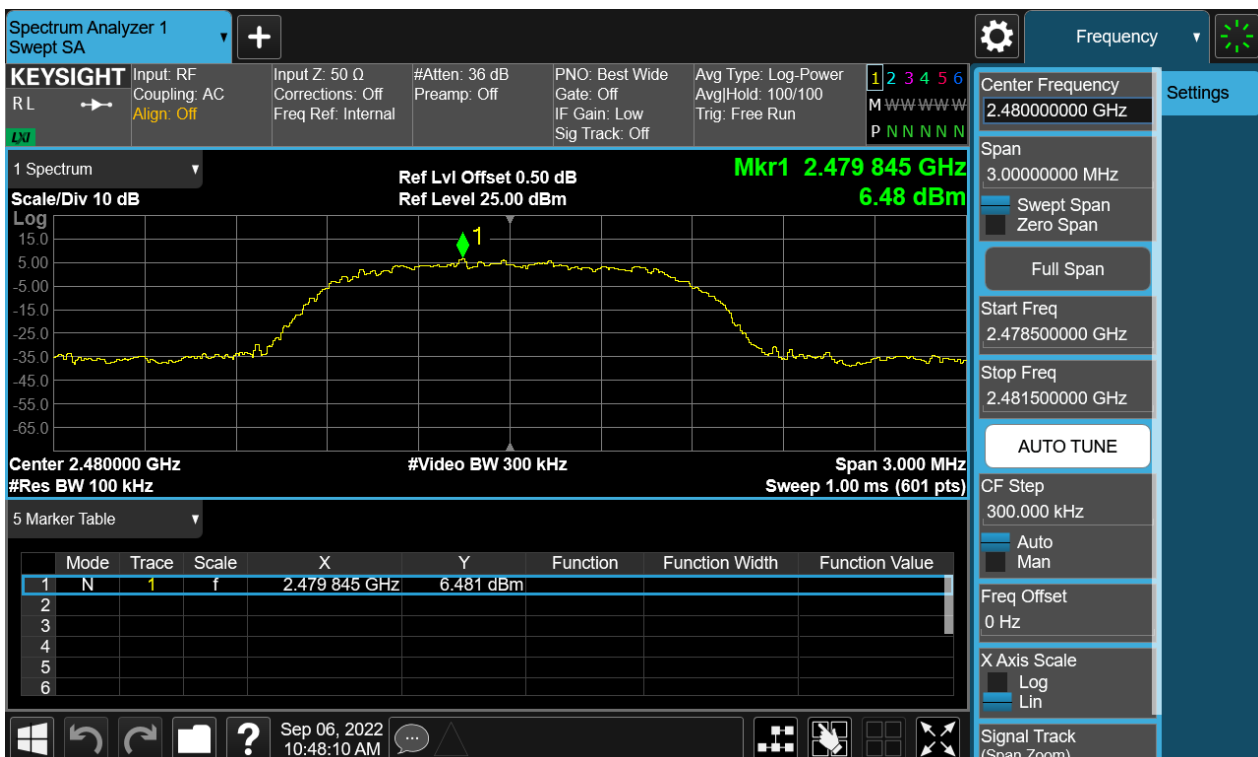


Figure 48: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK
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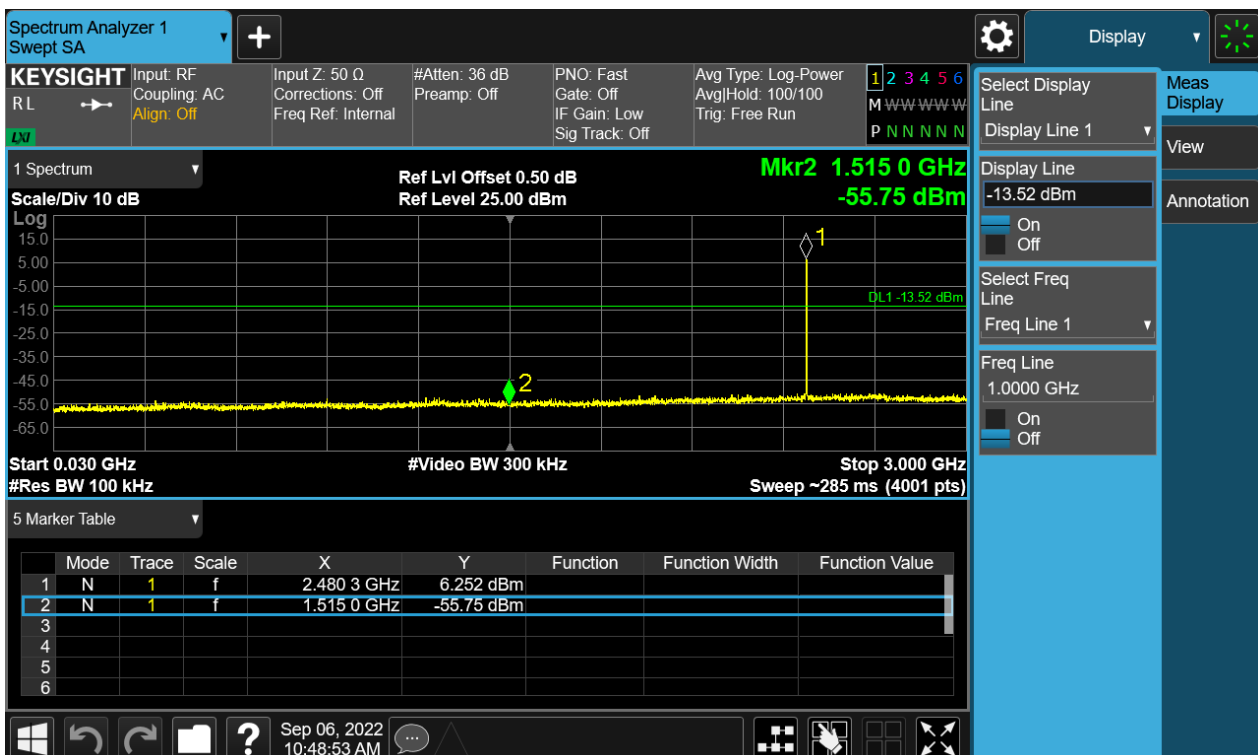
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Figure 49: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Band Edge



Figure 50: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Conducted spurious emissions 30MHz-3GHz



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Figure 51: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK
Conducted spurious emissions 3GHz-25GHz

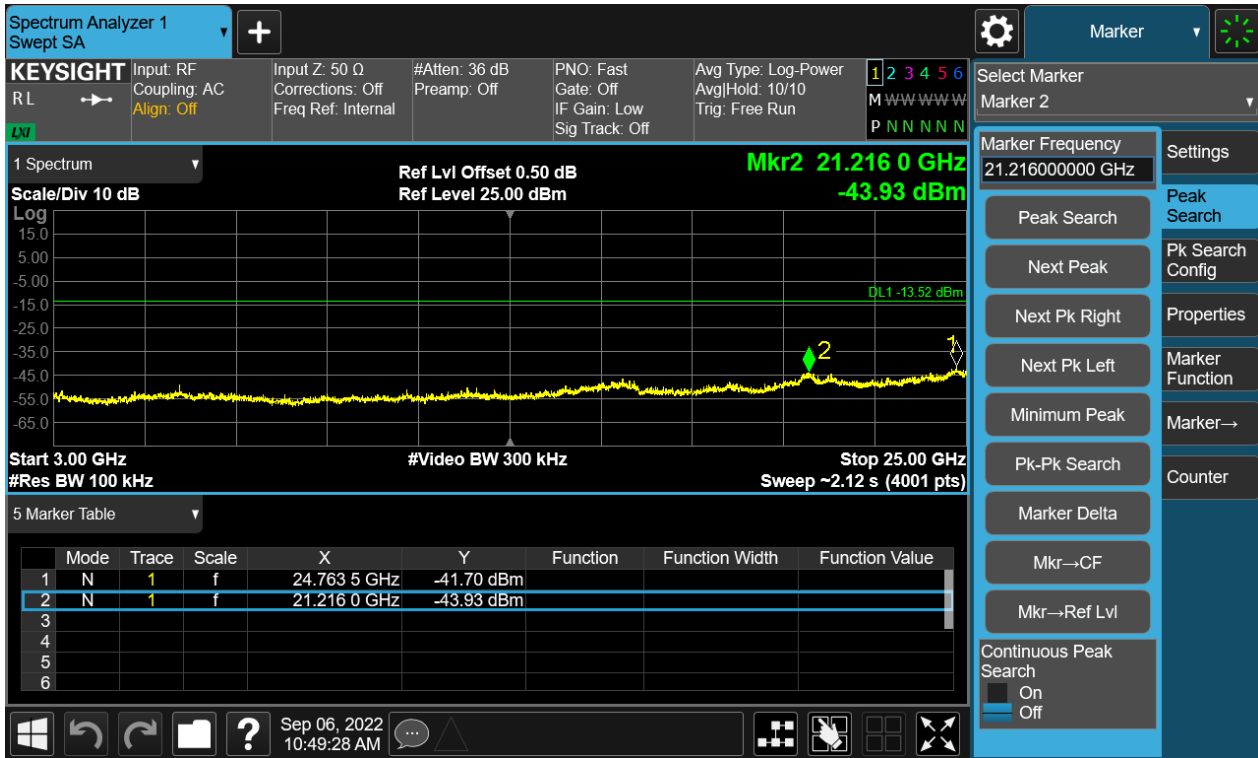


Figure 52: The plots of Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, GFSK
Carrier Level

