

FCC Test Report

Report No.: AGC00174210102FE03

FCC ID : XPYNORAB1
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : NORA-B1
BRAND NAME : u-blox
MODEL NAME : NORA-B100, NORA-B101, NORA-B106
APPLICANT : u-blox AG
DATE OF ISSUE : Jun. 09, 2021
STANDARD(S) : FCC Part 15.247
REPORT VERSION : V1.0



Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 09, 2021	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE.....	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCIES	6
2.3. RELATED SUBMITTAL(S)/GRANT(S).....	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES.....	7
2.6. EQUIPMENT MODIFICATIONS.....	7
2.7. ANTENNA REQUIREMENT	7
2.8. DESCRIPTION OF AVAILABLE ANTENNAS	7
2.9. DESCRIPTION OF ANTENNA RF PORT.....	8
3. MEASUREMENT UNCERTAINTY	9
4. DESCRIPTION OF TEST MODES	10
5. SYSTEM TEST CONFIGURATION.....	11
5.1. CONFIGURATION OF TESTED SYSTEM.....	11
5.2. EQUIPMENT USED IN TESTED SYSTEM	11
5.3. SUMMARY OF TEST RESULTS.....	11
6. TEST FACILITY	12
7. PEAK OUTPUT POWER.....	13
7.1. MEASUREMENT PROCEDURE.....	13
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
7.3. LIMITS AND MEASUREMENT RESULT.....	14
8. 6 DB BANDWIDTH.....	16
8.1. MEASUREMENT PROCEDURE.....	16
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
8.3. LIMITS AND MEASUREMENT RESULTS	16
9. CONDUCTED SPURIOUS EMISSION.....	18
9.1. MEASUREMENT PROCEDURE.....	18
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	18
9.3. MEASUREMENT EQUIPMENT USED	18

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9.4. LIMITS AND MEASUREMENT RESULT	18
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	26
10.1. MEASUREMENT PROCEDURE.....	26
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	26
10.3. MEASUREMENT EQUIPMENT USED	26
10.4. LIMITS AND MEASUREMENT RESULT.....	26
11. RADIATED EMISSION	28
11.1. MEASUREMENT PROCEDURE.....	28
11.2. TEST SETUP	29
11.3. LIMITS AND MEASUREMENT RESULT.....	30
11.4. TEST RESULT.....	30
12. FCC LINE CONDUCTED EMISSION TEST	59
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST.....	59
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	59
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST.....	60
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	61
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	63
APPENDIX B: PHOTOGRAPHS OF EUT	69

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1. VERIFICATION OF COMPLIANCE

Applicant	u-blox AG
Address	Zuercherstrasse 68, Thalwil 8800, Switzerland
Manufacturer	u-blox AG
Address	Zuercherstrasse 68, Thalwil 8800, Switzerland
Product Designation	NORA-B1
Brand Name	u-blox
Test Model	NORA-B100
Series Model	NORA-B101, NORA-B106
Difference description	All the series models are the same as the test model except for the model names and antenna type. NORA-B100 - u.FL connector; NORA-B101 - Antenna pin; NORA-B106 - PCB Trace antenna.
Date of test	Feb. 23, 2021 to Jun. 09, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

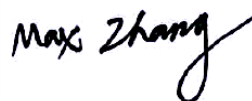
Prepared By



John Zeng
(Project Engineer)

Jun. 09, 2021

Reviewed By



Max Zhang
(Reviewer)

Jun. 09, 2021

Approved By



Forrest Lei
(Authorized Officer)

Jun. 09, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “NORA-B1”. It is designed by way of utilizing the O-QPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.405 GHz to 2.475GHz
RF Output Power	2.871dBm (Max)
Modulation	O-QPSK
Number of channels	15 Channels
Antenna Designation	See section 2.9 of the report (Comply with requirements of the FCC part 15.203)
Antenna Gain	See section 2.8 of the report
Hardware Version	A
Software Version	V1.0
Power Supply	DC 3.3V

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2405 MHz
	1	2410 MHz
	:	:
	13	2470 MHz
	14	2475 MHz

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: XPYNORAB1** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

2.8. DESCRIPTION OF AVAILABLE ANTENNAS

Model No.: NORA-B100

Bluetooth Dedicated Antenna		
Antenna Type	Frequency Band (GHz)	Max Peak Gain (dBi)
Monopole antenna	2400 ~ 2483.5	5.3
FPC antenna	2400 ~ 2483.5	-0.5

Model No.: NORA-B101

Bluetooth Dedicated Antenna		
Antenna Type	Frequency Band (GHz)	Max Peak Gain (dBi)
Monopole antenna	2400 ~ 2483.5	5.3
FPC antenna	2400 ~ 2483.5	-0.5

Model No.: NORA-B106

Bluetooth Internal Antenna		
Antenna Type	Frequency Band (GHz)	Max Peak Gain (dBi)
PCB Antenna	2400 ~ 2483.5	2.0

Note : The manufacturer of NORA-101's module ANT PIN claims that the gain is 0 dBi

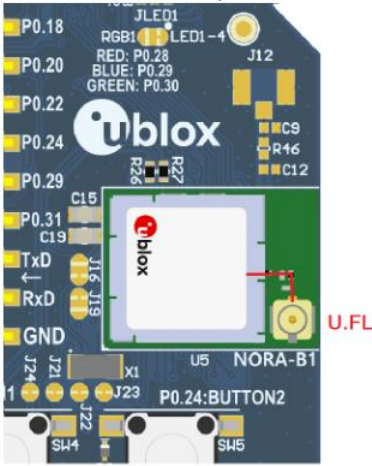
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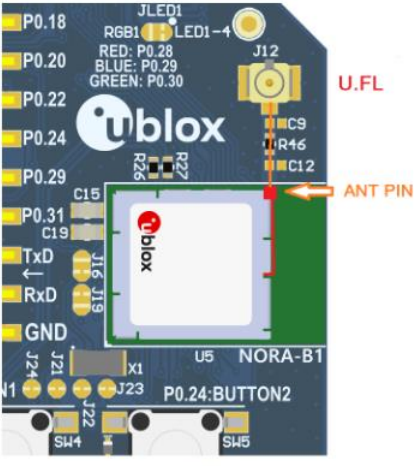


2.9. DESCRIPTION OF ANTENNA RF PORT

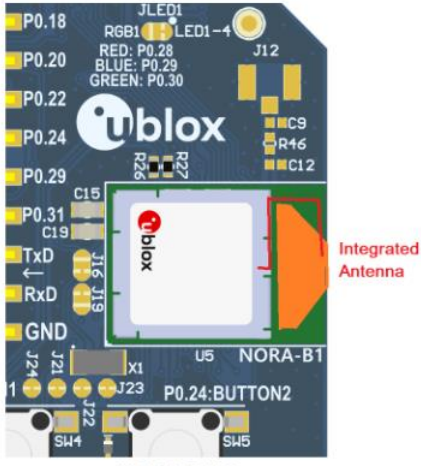
Antenna RF Port			
--	Bluetooth (NORA-B100)	Bluetooth (NORA-B101)	Bluetooth (NORA-B106)
Software Control Port	U.FL	ANT PIN+U.FL	As shown below



NORA-B100



NORA-B101



NORA-B106

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3. MEASUREMENT UNCERTAINTY

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%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.1$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 4.0$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX(2405MHz)
2	Middle channel TX(2440MHz)
3	High channel TX(2475MHz)

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. The EUT enters the fixed frequency state through the pressing Button 1 (increment mode) and Button 2 (decrement mode) on the control board.

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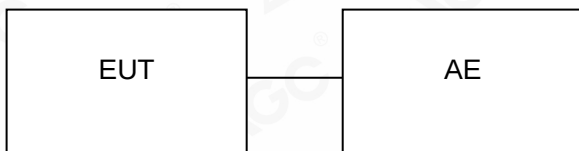
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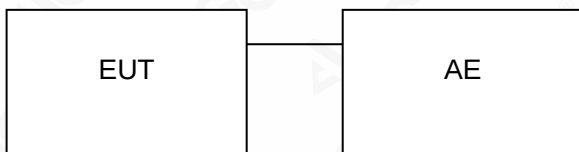
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	NORA-B1	NORA-B100	XPYNORAB1	EUT
2	Mobile phone	TCL	J326T	AE
3	PC	HUAWEI	DC 5V	AE
4	Control board	C3	DC 3.3V	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
TEST RECEIVER	R&S	ESPI	101206	May 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

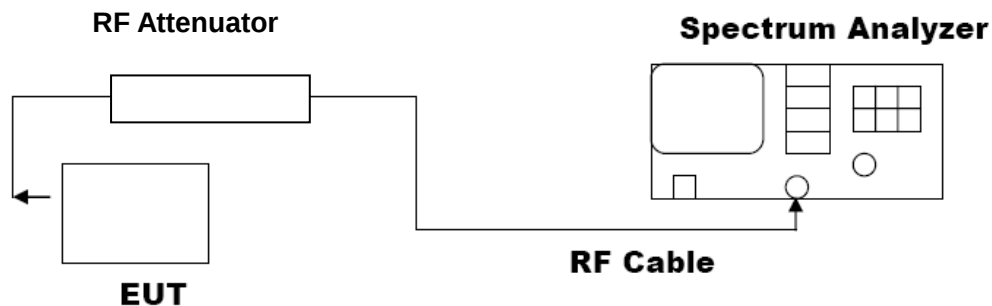
For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. $RBW \geq DTS \text{ bandwidth}$
3. $VBW \geq 3 * RBW$.
4. $SPAN \geq VBW$.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



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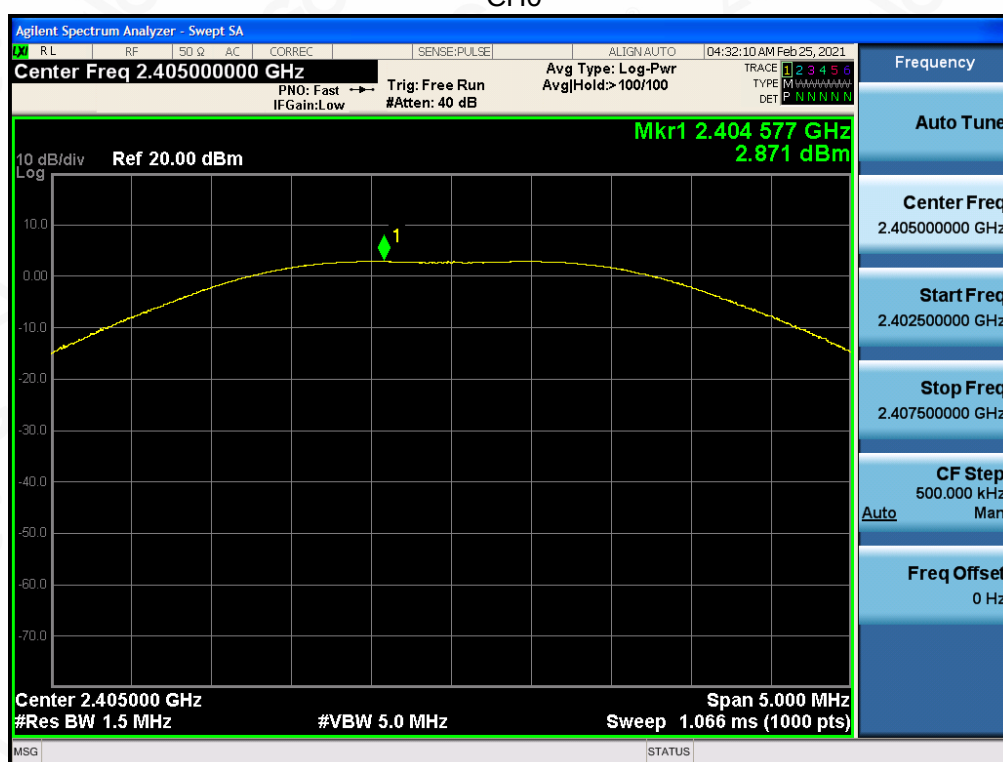
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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.405	2.871	30	Pass
2.440	2.732	30	Pass
2.475	2.641	30	Pass

CH0

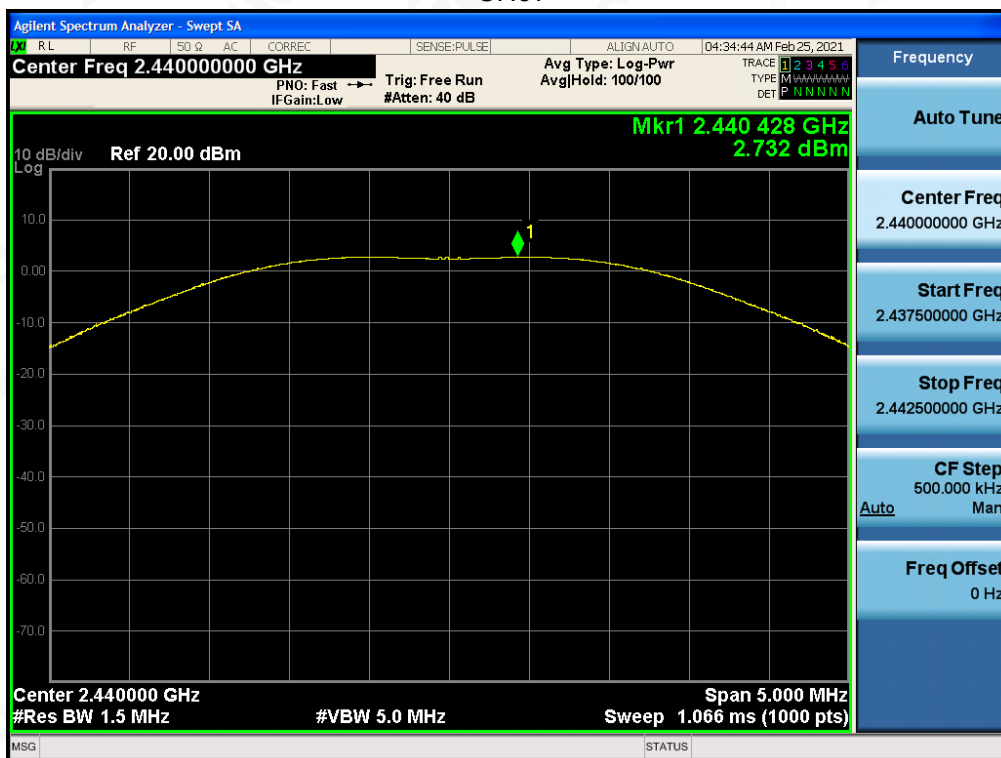


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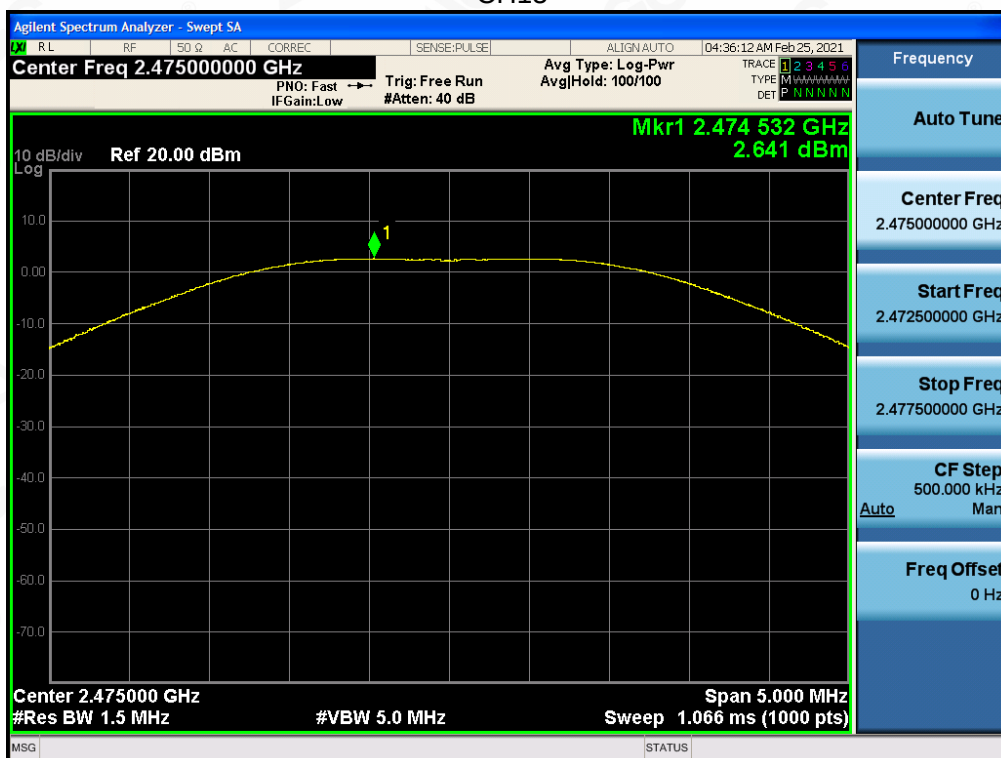
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CH07



CH15



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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

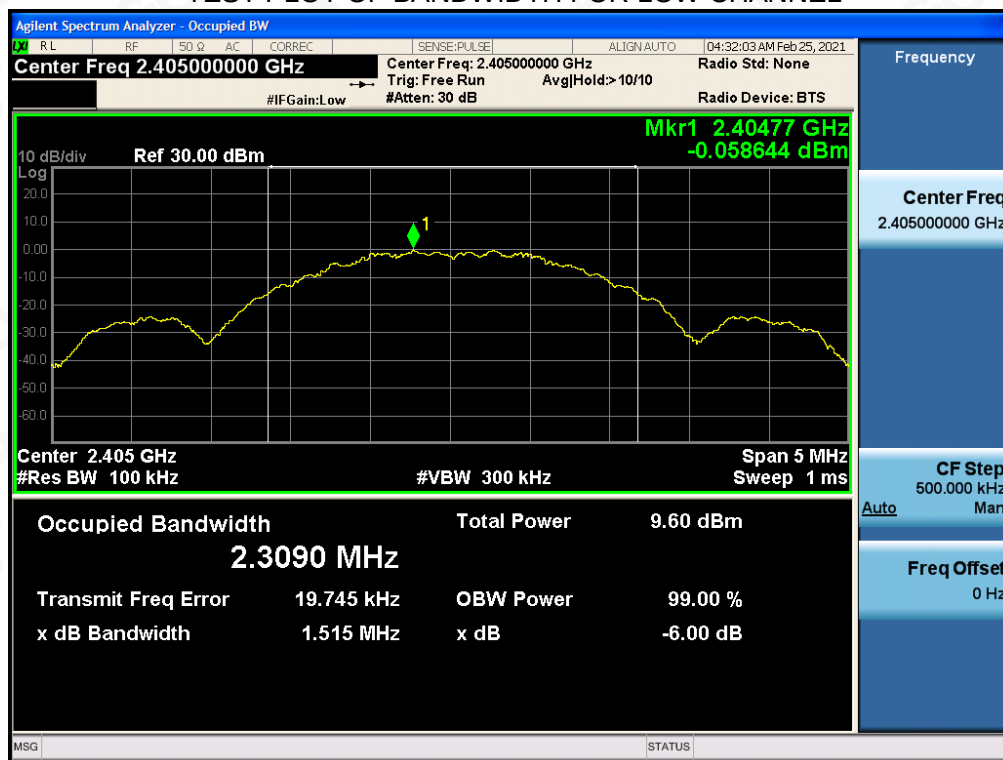
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	1515	PASS
	Middle Channel	1545	PASS
	High Channel	1551	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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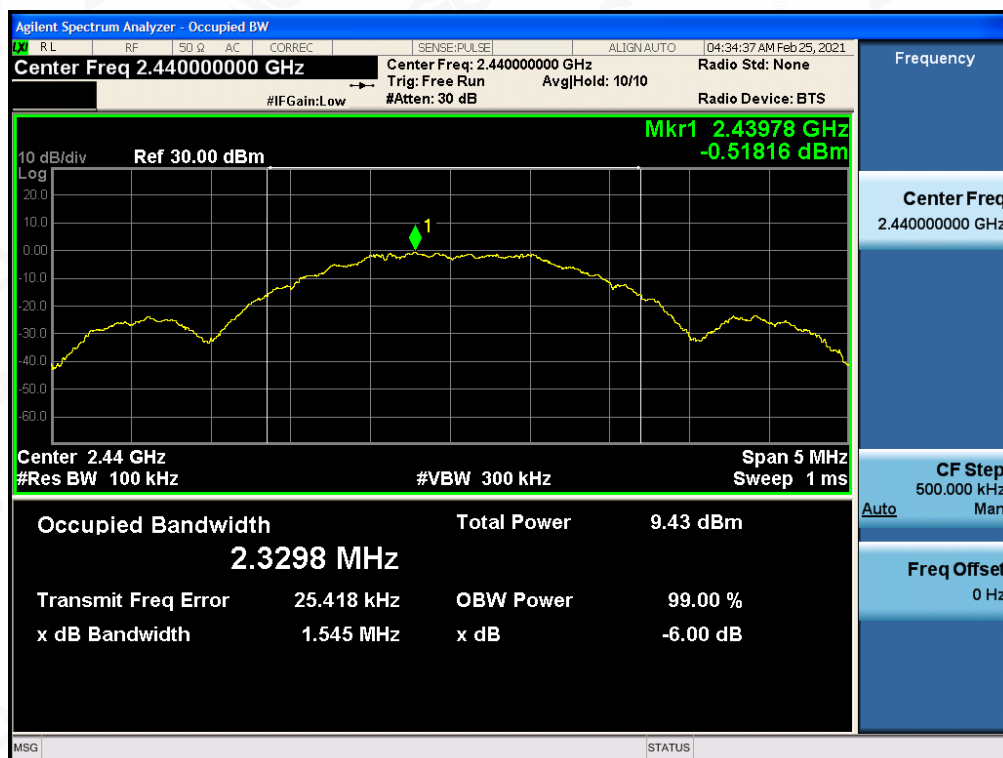
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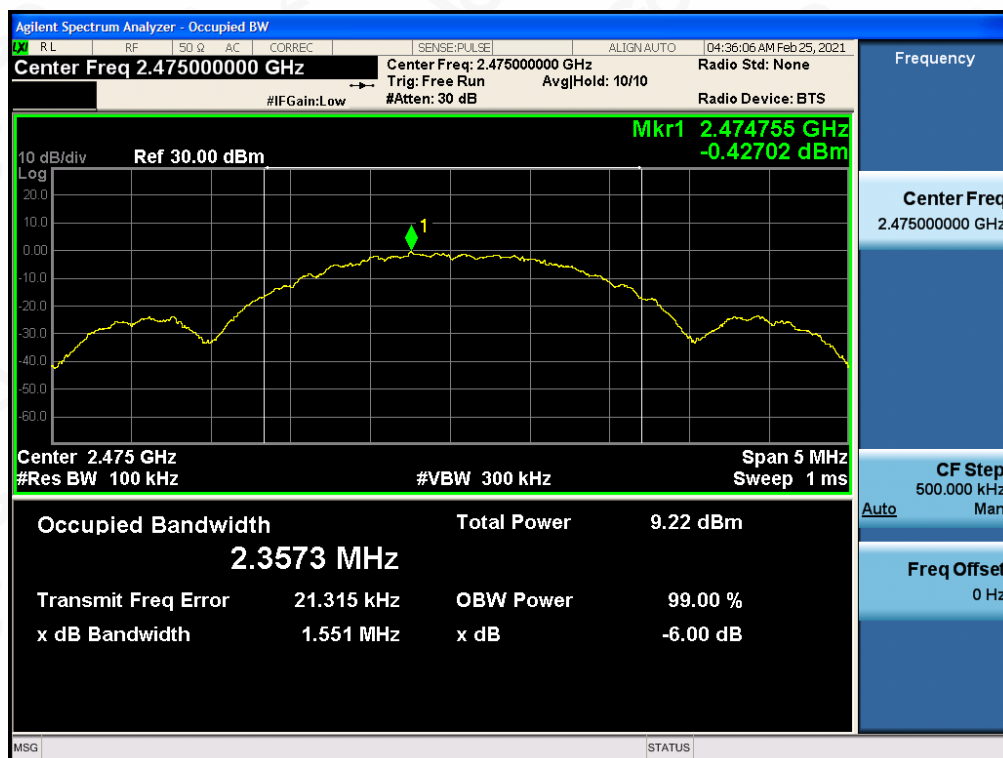
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS

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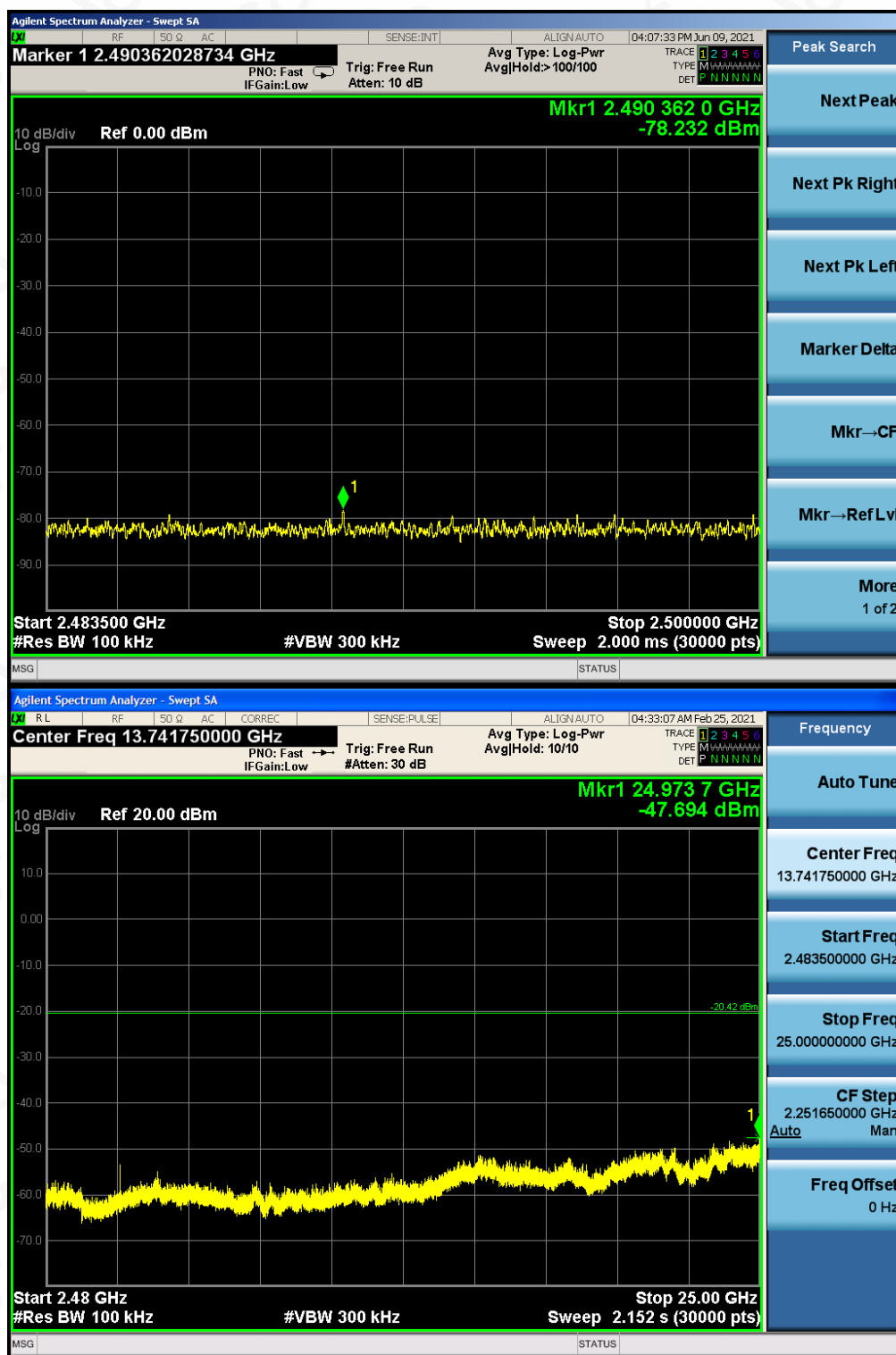
TEST RESULT FOR ENTIRE FREQUENCY RANGE O-QPSK MODULATION IN LOW CHANNEL



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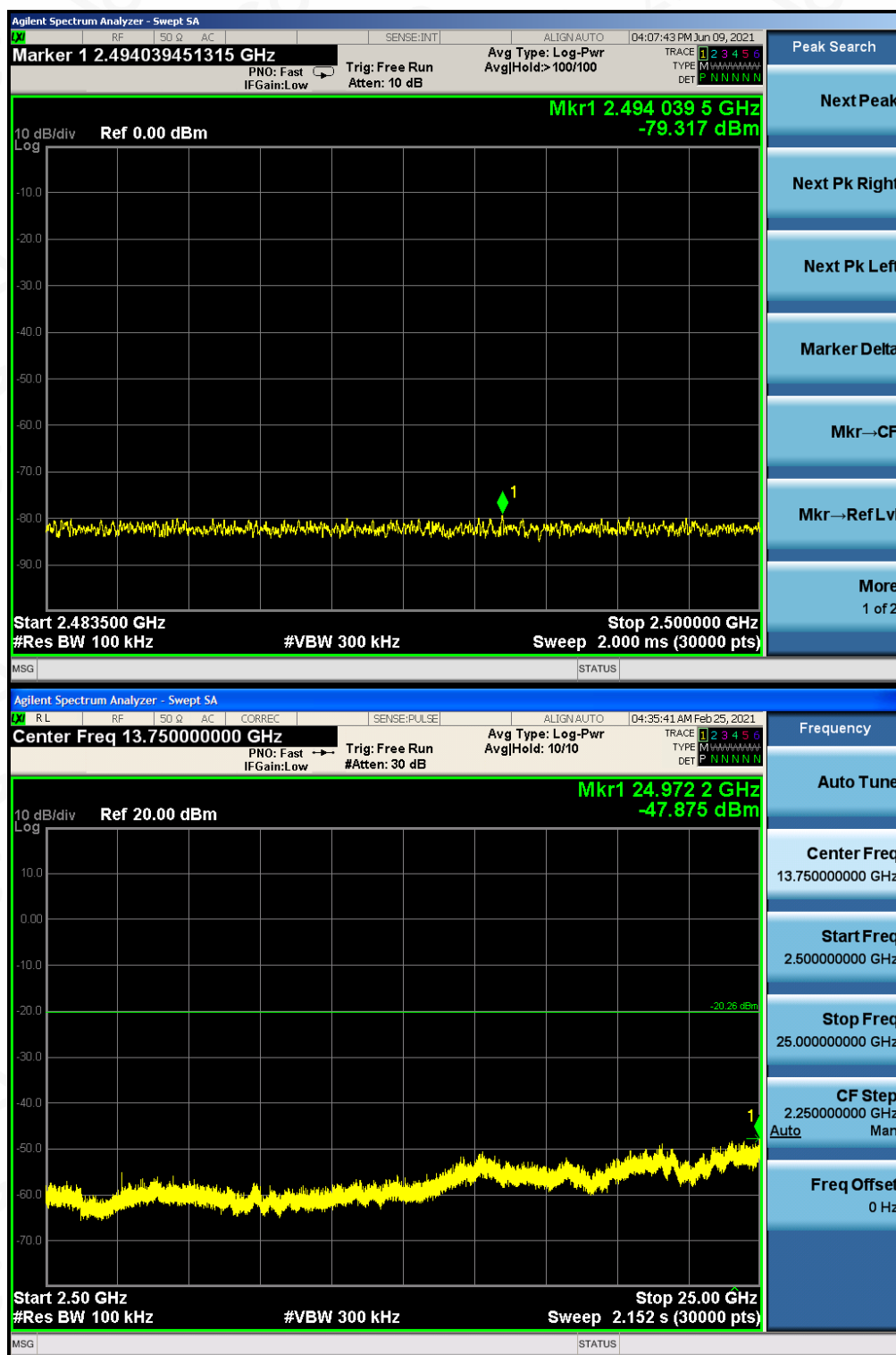
O-QPSK MODULATION IN MIDDLE CHANNEL



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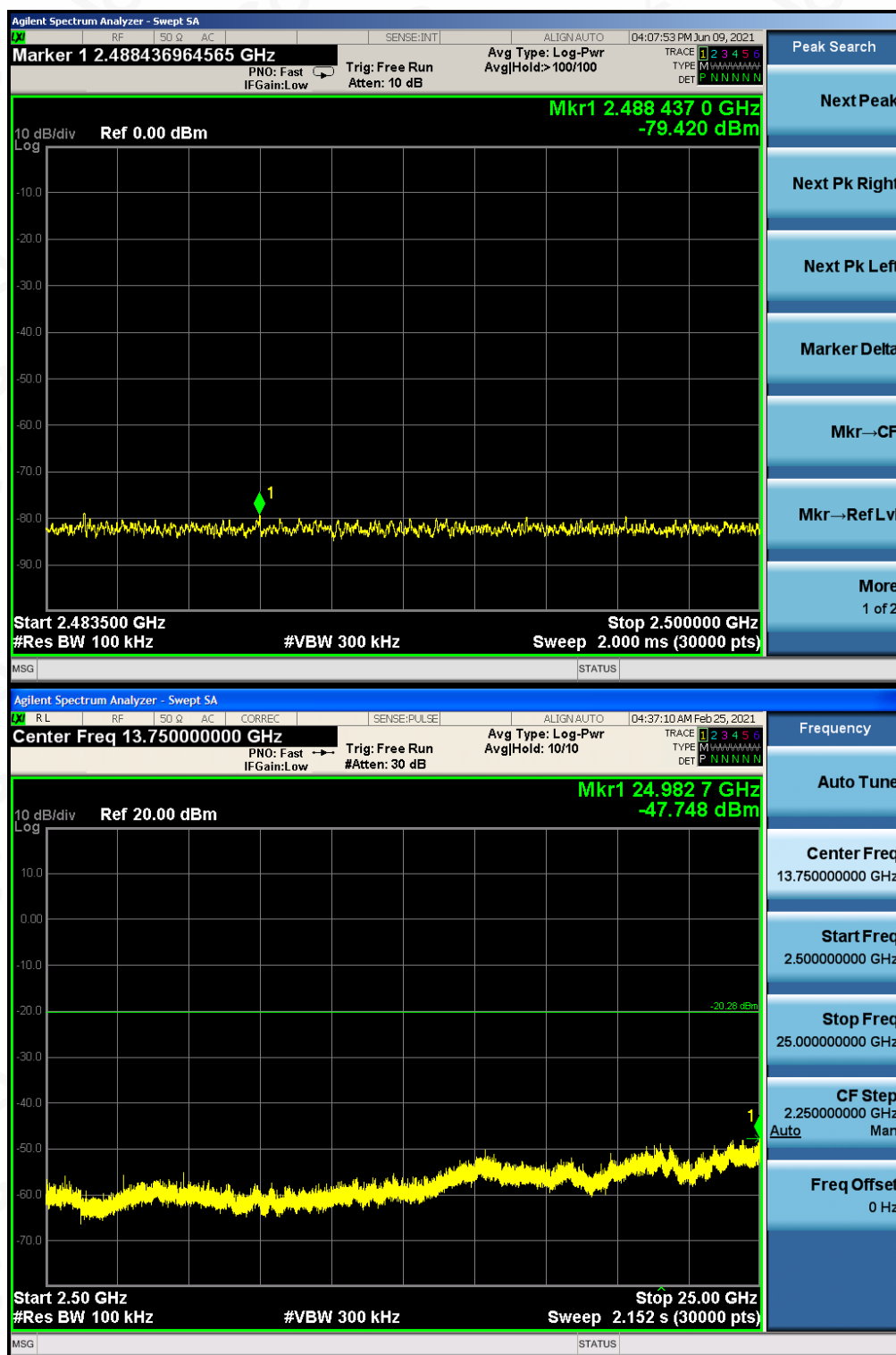
O-QPSK MODULATION IN HIGH CHANNEL



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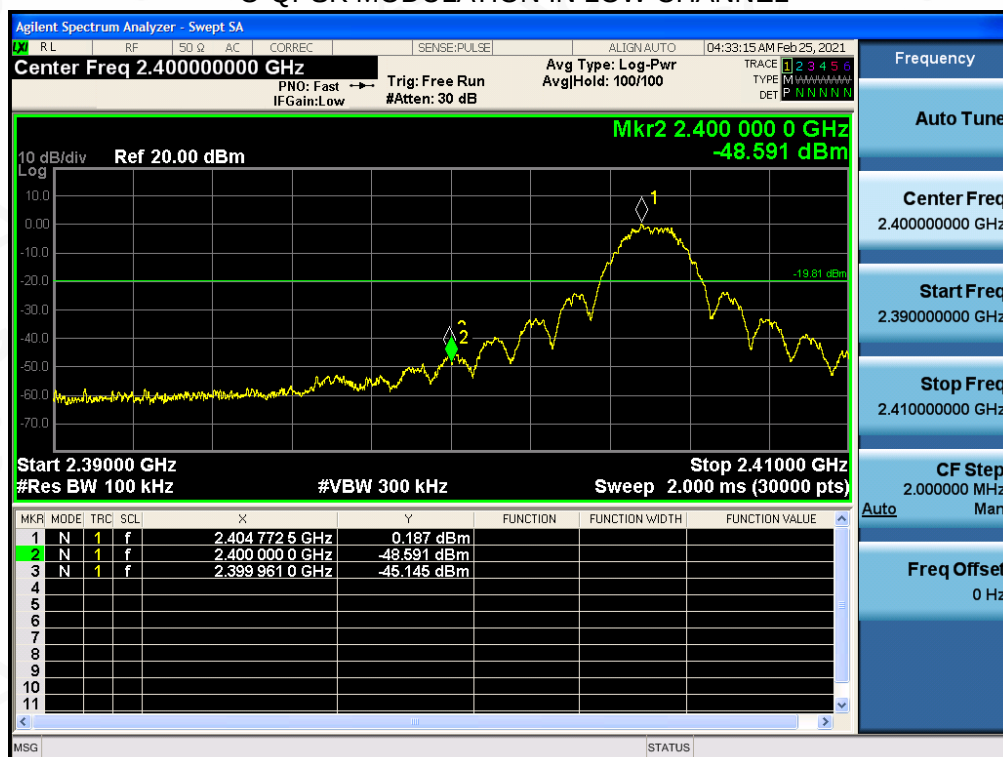
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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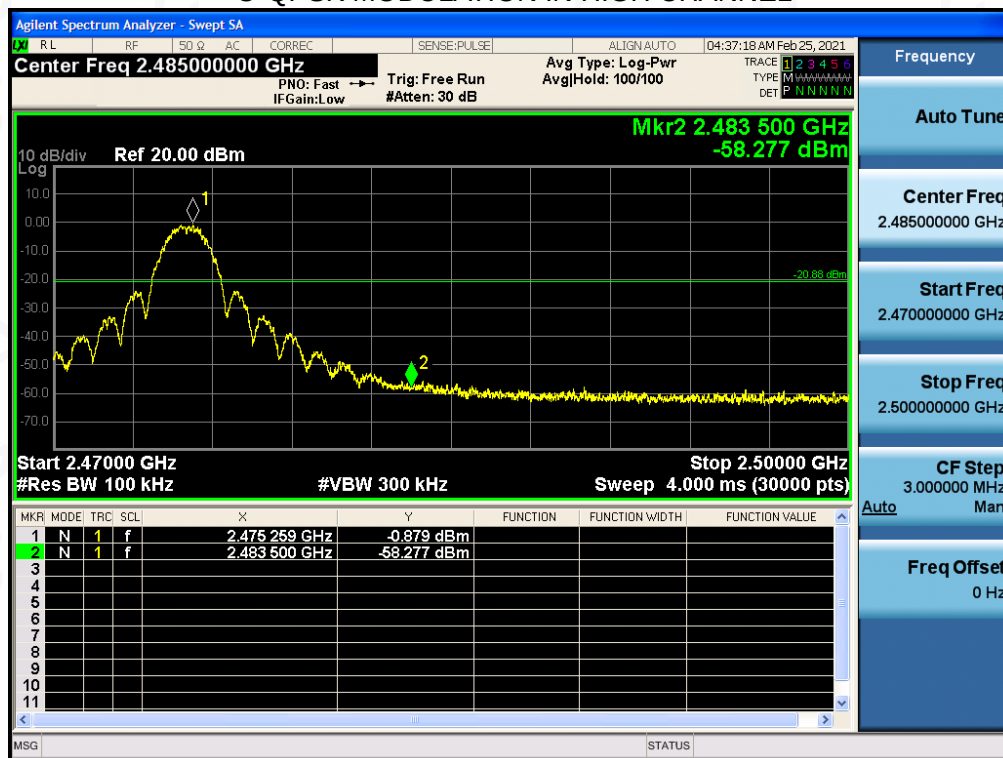
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TEST RESULT FOR BAND EDGE O-QPSK MODULATION IN LOW CHANNEL



O-QPSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

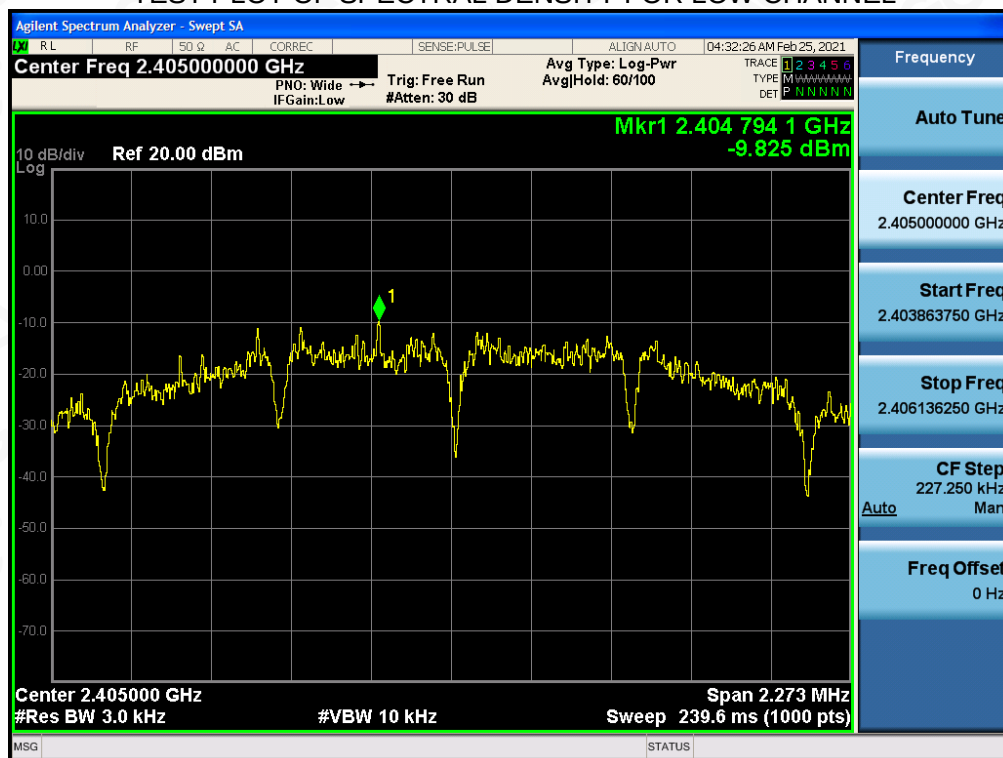
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-9.825	8	Pass
Middle Channel	-10.257	8	Pass
High Channel	-10.289	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

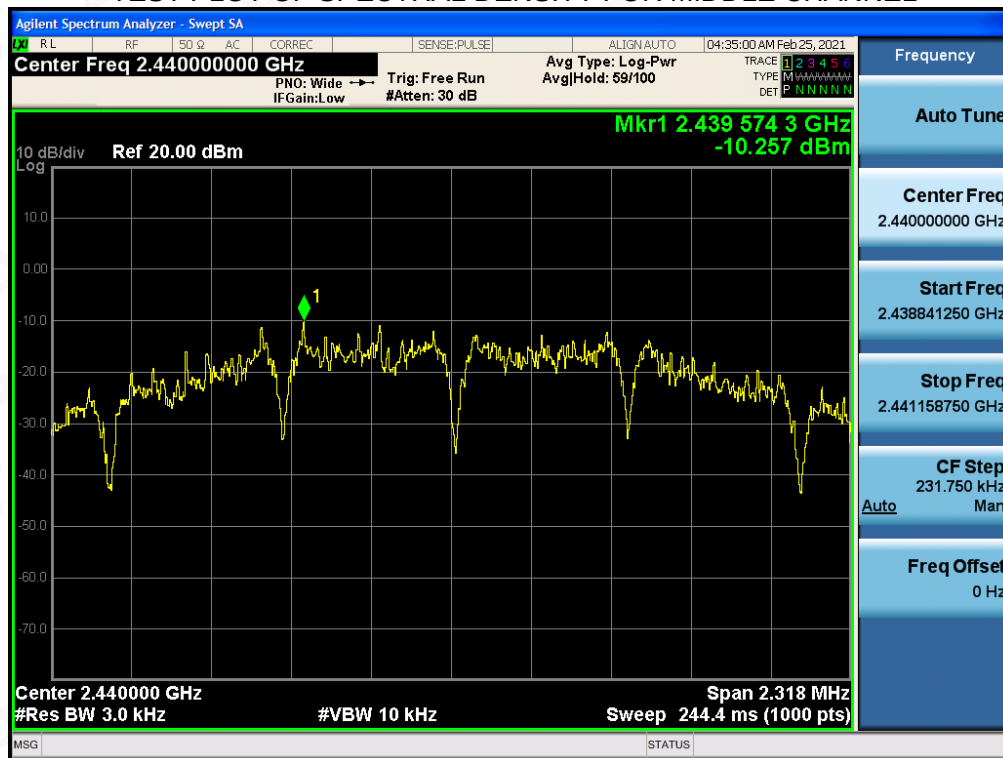


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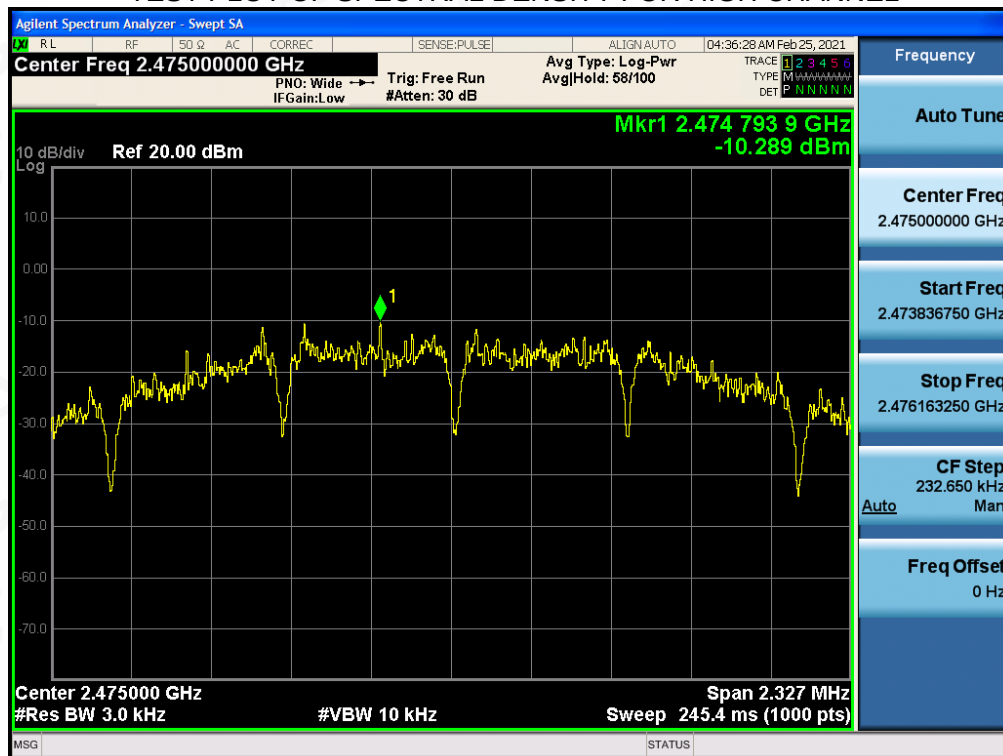
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

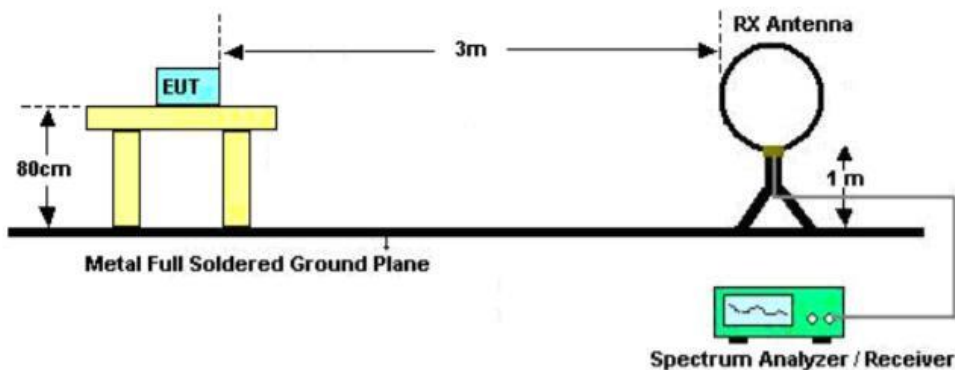
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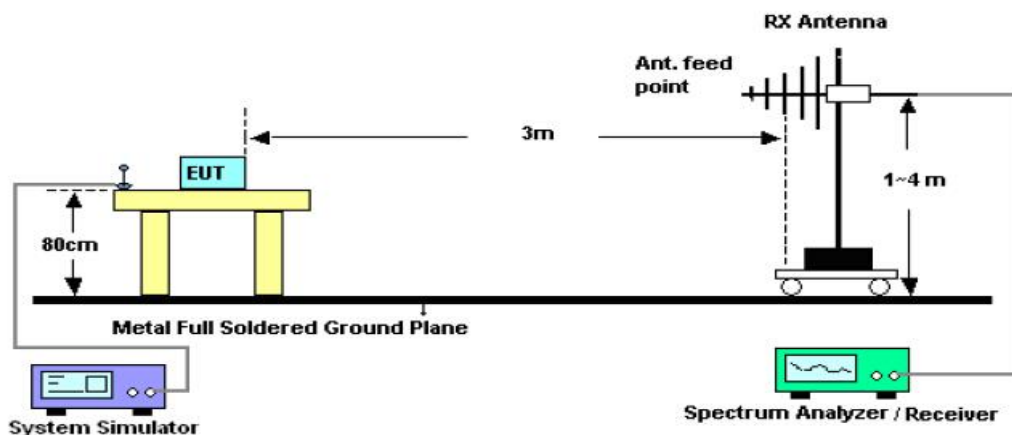


11.2. TEST SETUP

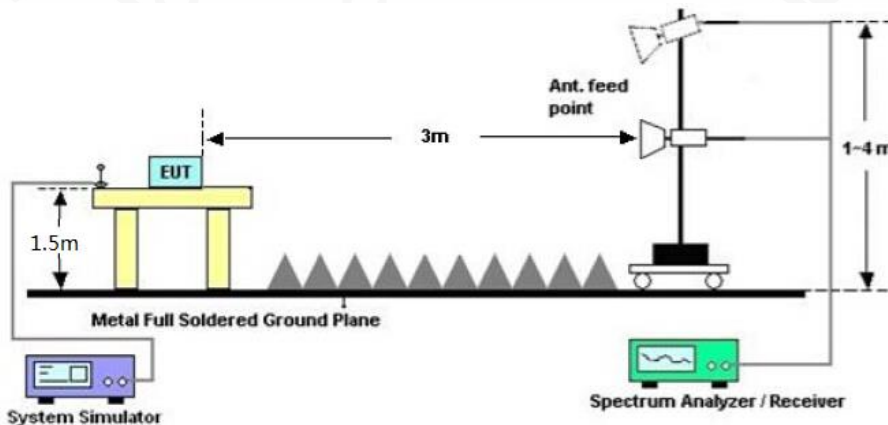
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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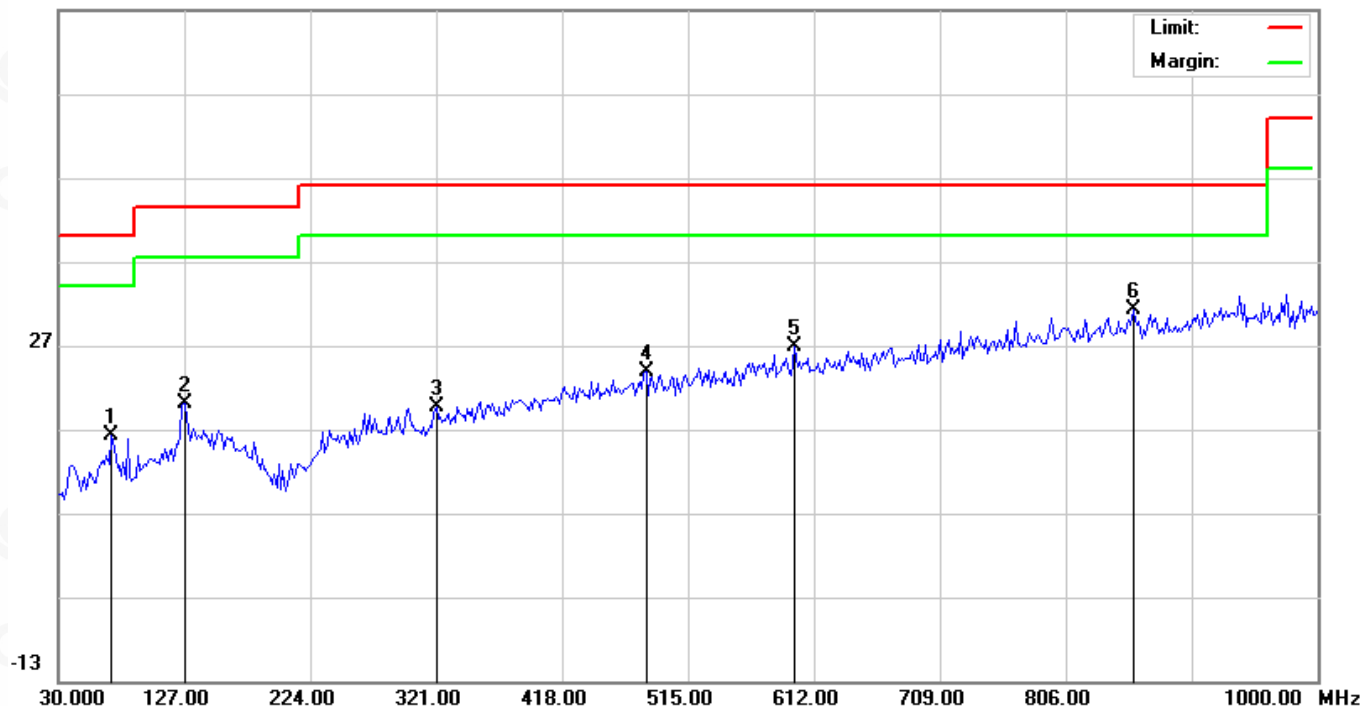


RADIATED EMISSION BELOW 1GHZ

Antenna 1

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dBuV/m	dB	
1		70.4167	-0.83	17.02	16.19	40.00	-23.81	peak
2		127.0000	1.55	18.41	19.96	43.50	-23.54	peak
3		321.0000	-0.54	20.21	19.67	46.00	-26.33	peak
4		482.6667	-0.89	24.64	23.75	46.00	-22.25	peak
5		597.4500	-0.03	26.90	26.87	46.00	-19.13	peak
6	*	857.7333	0.01	31.15	31.16	46.00	-14.84	peak

RESULT: PASS

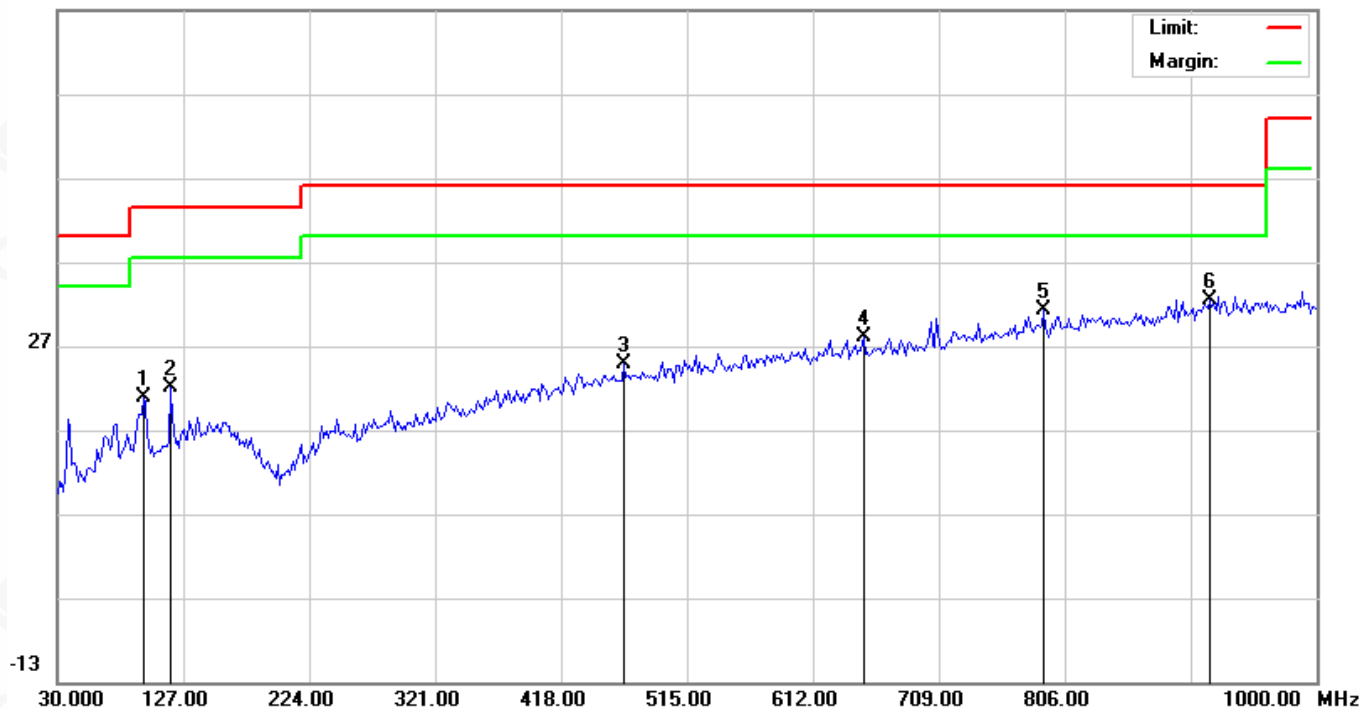
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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		96.2833	5.13	15.63	20.76	43.50	-22.74	peak
2		117.3000	4.23	17.71	21.94	43.50	-21.56	peak
3		466.5000	0.53	24.32	24.85	46.00	-21.15	peak
4		650.8000	0.40	27.56	27.96	46.00	-18.04	peak
5		789.8333	1.10	30.18	31.28	46.00	-14.72	peak
6	*	917.5500	0.65	31.85	32.50	46.00	-13.50	peak

RESULT: PASS

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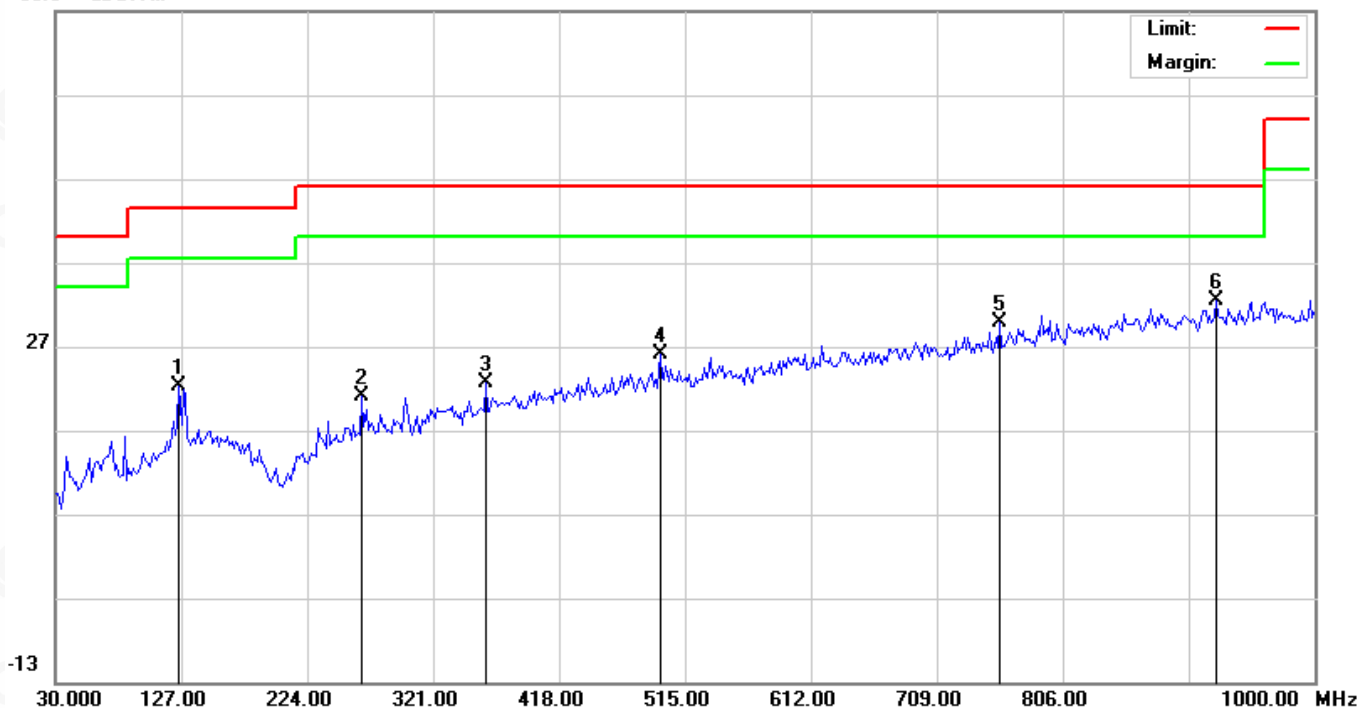
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Antenna 2

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		125.3833	3.83	18.31	22.14	43.50	-21.36	peak
2		266.0333	2.20	18.80	21.00	46.00	-25.00	peak
3		361.4166	0.91	21.63	22.54	46.00	-23.46	peak
4		495.6000	1.01	24.90	25.91	46.00	-20.09	peak
5		757.5000	0.42	29.45	29.87	46.00	-16.13	peak
6	*	924.0167	0.42	31.91	32.33	46.00	-13.67	peak

RESULT: PASS

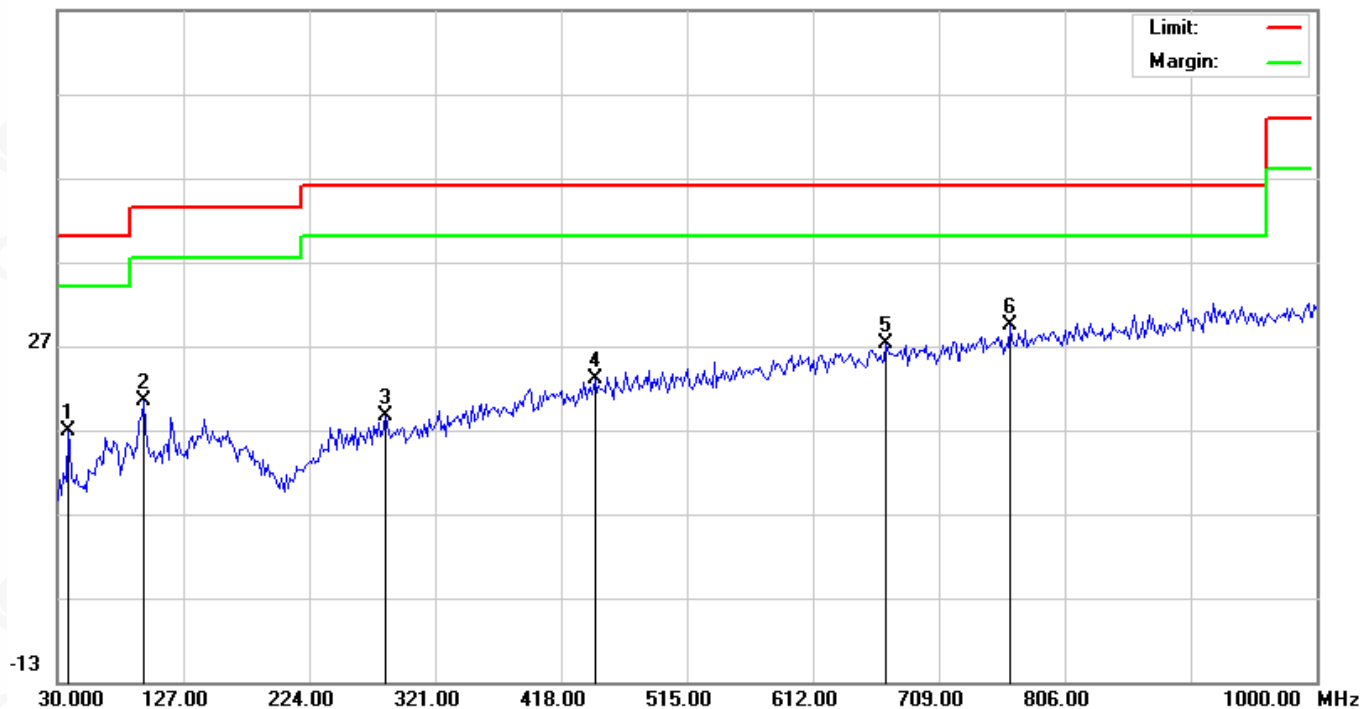
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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		38.0833	2.75	14.03	16.78	40.00	-23.22	peak
2		96.2833	4.75	15.63	20.38	43.50	-23.12	peak
3		282.2000	-1.27	19.89	18.62	46.00	-27.38	peak
4		443.8667	-0.85	23.86	23.01	46.00	-22.99	peak
5		668.5833	-0.63	27.77	27.14	46.00	-18.86	peak
6	*	763.9667	-0.20	29.60	29.40	46.00	-16.60	peak

RESULT: PASS

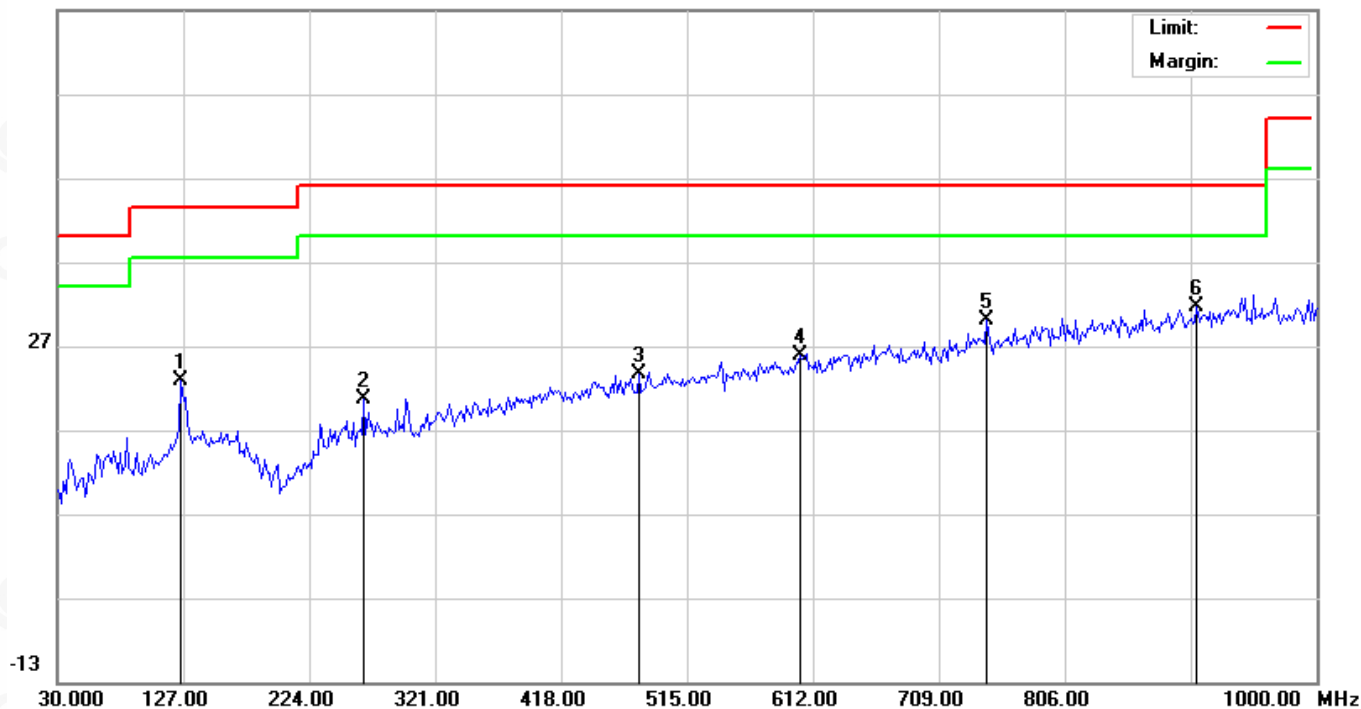
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EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		125.3833	4.41	18.31	22.72	43.50	-20.78	peak
2		266.0333	1.79	18.80	20.59	46.00	-25.41	peak
3		477.8167	-0.94	24.54	23.60	46.00	-22.40	peak
4		602.3000	-1.09	26.98	25.89	46.00	-20.11	peak
5		746.1833	0.85	29.19	30.04	46.00	-15.96	peak
6	*	907.8500	-0.15	31.77	31.62	46.00	-14.38	peak

RESULT: PASS

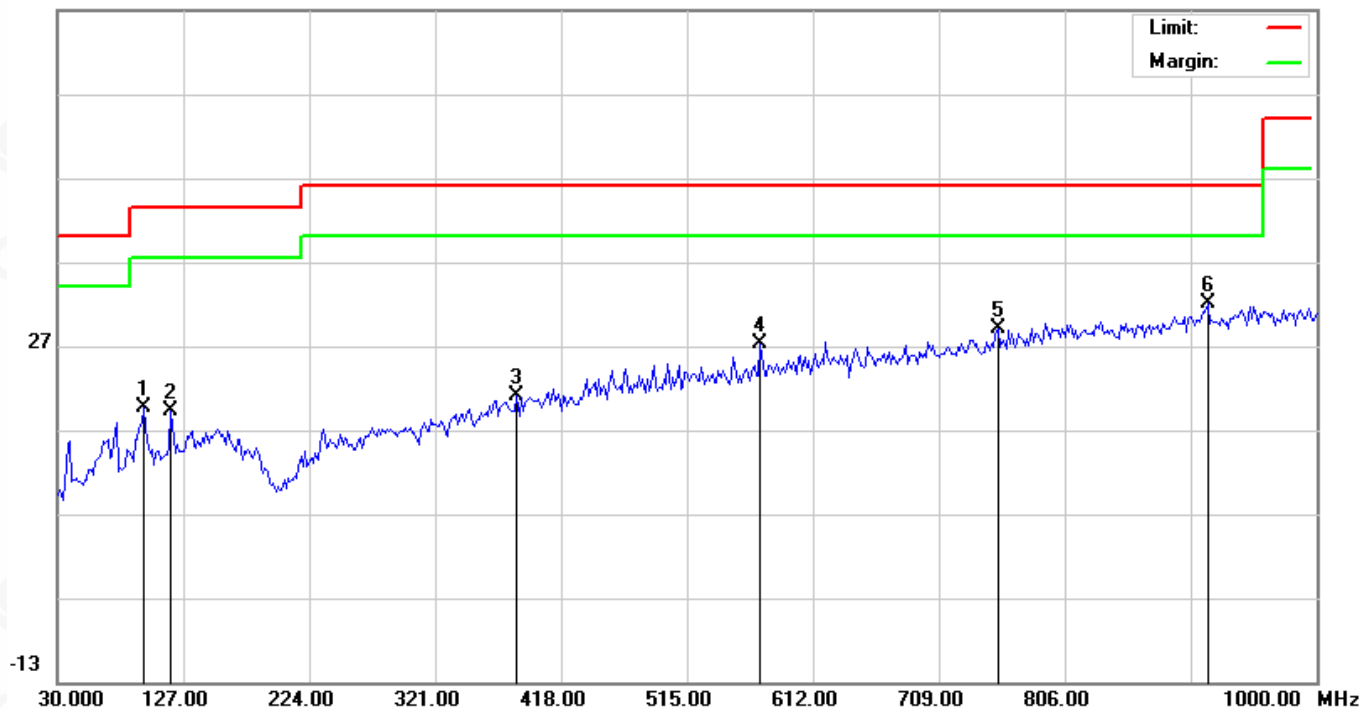
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EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		96.2833	3.97	15.63	19.60	43.50	-23.90	peak
2		117.3000	1.47	17.71	19.18	43.50	-24.32	peak
3		384.0500	-1.43	22.42	20.99	46.00	-25.01	peak
4		571.5833	0.74	26.39	27.13	46.00	-18.87	peak
5		754.2667	-0.47	29.38	28.91	46.00	-17.09	peak
6	*	915.9333	0.07	31.84	31.91	46.00	-14.09	peak

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

Antenna 1

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	45.26	0.08	45.34	74	-28.66	peak
4810.000	34.79	0.08	34.87	54	-19.13	AVG
7215.000	41.06	2.21	43.27	74	-30.73	peak
7215.000	30.54	2.21	32.75	54	-21.25	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	56.28	0.08	56.36	74	-17.64	peak
4810.000	35.46	0.08	35.54	54	-18.46	AVG
7215.000	42.87	2.21	45.08	74	-28.92	peak
7215.000	32.94	2.21	35.15	54	-18.85	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.19	0.14	46.33	74	-27.67	peak
4880.000	36.14	0.14	36.28	54	-17.72	AVG
7320.000	42.58	2.36	44.94	74	-29.06	peak
7320.000	31.55	2.36	33.91	54	-20.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.29	0.14	46.43	74	-27.57	peak
4880.000	36.78	0.14	36.92	54	-17.08	AVG
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	31.05	2.36	33.41	54	-20.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	46.25	0.22	46.47	74	-27.53	peak
4950.000	35.18	0.22	35.4	54	-18.6	AVG
7425.000	40.25	2.64	42.89	74	-31.11	peak
7425.000	30.64	2.64	33.28	54	-20.72	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	46.29	0.22	46.51	74	-27.49	peak
4950.000	36.17	0.22	36.39	54	-17.61	AVG
7425.000	40.25	2.64	42.89	74	-31.11	peak
7425.000	30.51	2.64	33.15	54	-20.85	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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Antenna 2

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	46.27	0.08	46.35	74	-27.65	peak
4810.000	37.45	0.08	37.53	54	-16.47	AVG
7215.000	42.35	2.21	44.56	74	-29.44	peak
7215.000	31.58	2.21	33.79	54	-20.21	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	45.28	0.08	45.36	74	-28.64	peak
4810.000	34.19	0.08	34.27	54	-19.73	AVG
7215.000	43.15	2.21	45.36	74	-28.64	peak
7215.000	32.46	2.21	34.67	54	-19.33	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.19	0.14	46.33	74	-27.67	peak
4880.000	35.17	0.14	35.31	54	-18.69	AVG
7320.000	42.16	2.36	44.52	74	-29.48	peak
7320.000	32.48	2.36	34.84	54	-19.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.13	0.14	46.27	74	-27.73	peak
4880.000	35.82	0.14	35.96	54	-18.04	AVG
7320.000	42.19	2.36	44.55	74	-29.45	peak
7320.000	32.54	2.36	34.9	54	-19.1	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	45.29	0.22	45.51	74	-28.49	peak
4950.000	36.17	0.22	36.39	54	-17.61	AVG
7425.000	40.23	2.64	42.87	74	-31.13	peak
7425.000	31.58	2.64	34.22	54	-19.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	46.19	0.22	46.41	74	-27.59	peak
4950.000	36.57	0.22	36.79	54	-17.21	AVG
7425.000	42.15	2.64	44.79	74	-29.21	peak
7425.000	31.64	2.64	34.28	54	-19.72	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	45.16	0.08	45.24	74	-28.76	peak
4810.000	34.89	0.08	34.97	54	-19.03	AVG
7215.000	40.21	2.21	42.42	74	-31.58	peak
7215.000	31.27	2.21	33.48	54	-20.52	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4810.000	46.34	0.08	46.42	74	-27.58	peak
4810.000	35.27	0.08	35.35	54	-18.65	AVG
7215.000	42.19	2.21	44.4	74	-29.6	peak
7215.000	30.55	2.21	32.76	54	-21.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.12	0.14	46.26	74	-27.74	peak
4880.000	36.24	0.14	36.38	54	-17.62	AVG
7320.000	41.28	2.36	43.64	74	-30.36	peak
7320.000	32.06	2.36	34.42	54	-19.58	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.13	0.14	46.27	74	-27.73	peak
4880.000	35.17	0.14	35.31	54	-18.69	AVG
7320.000	42.37	2.36	44.73	74	-29.27	peak
7320.000	32.63	2.36	34.99	54	-19.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	46.13	0.22	46.35	74	-27.65	peak
4950.000	35.84	0.22	36.06	54	-17.94	AVG
7425.000	40.27	2.64	42.91	74	-31.09	peak
7425.000	31.29	2.64	33.93	54	-20.07	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	NORA-B1	Model Name	NORA-B106
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4950.000	46.12	0.22	46.34	74	-27.66	peak
4950.000	36.27	0.22	36.49	54	-17.51	AVG
7425.000	41.27	2.64	43.91	74	-30.09	peak
7425.000	32.68	2.64	35.32	54	-18.68	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.
- The "Factor" value can be calculated automatically by software of measurement system.
- The prototypes of all antenna specifications are tested. Antenna 1 and antenna 2 are detachable antennas. The antennas of the model NORA-B100 and NORA-B101 are detachable antennas, the antenna pins are slightly different, and the others are not different. The report only reflects the data of NORA-B100 as the worst. NORA-B101 meets the requirements by default, and the data is not Record in the report. The corresponding prototype model NORA-B100 reflects radiation and radiation spurious and sidebands. The data that reflects the specifications of the two antennas is the worst data. The model NORA-B106 is an integrated antenna, and has recorded the data in the report

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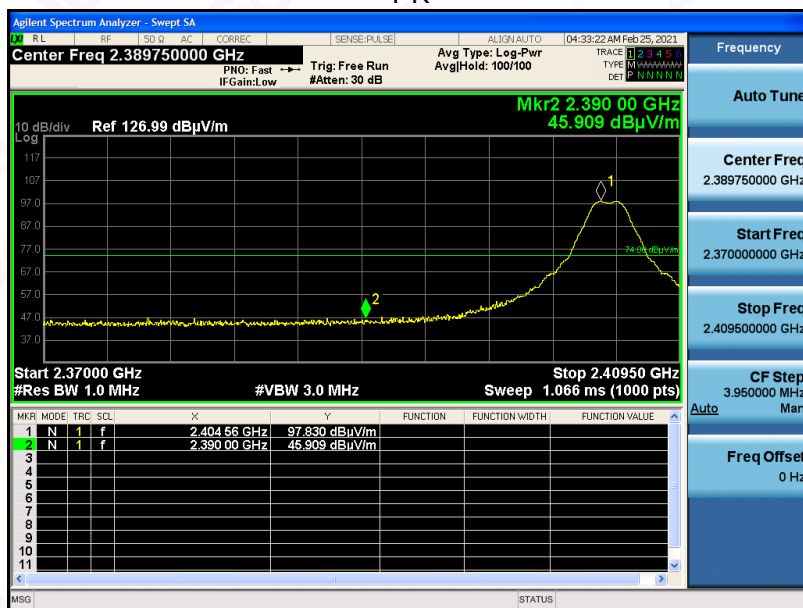


TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

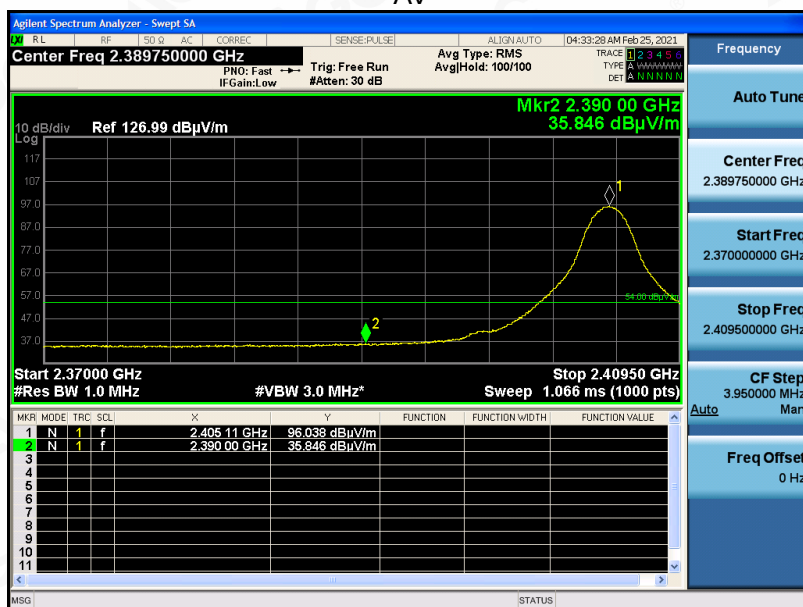
Antenna 1

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS

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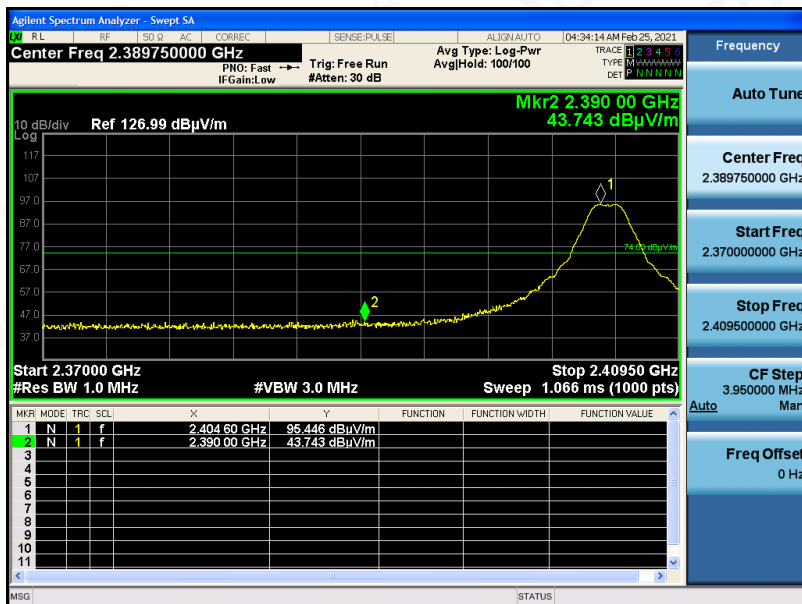
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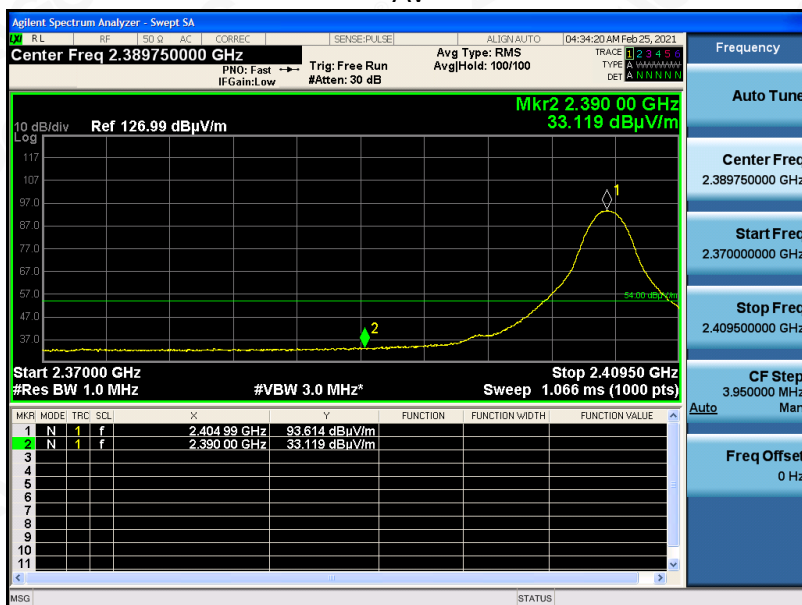


EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS

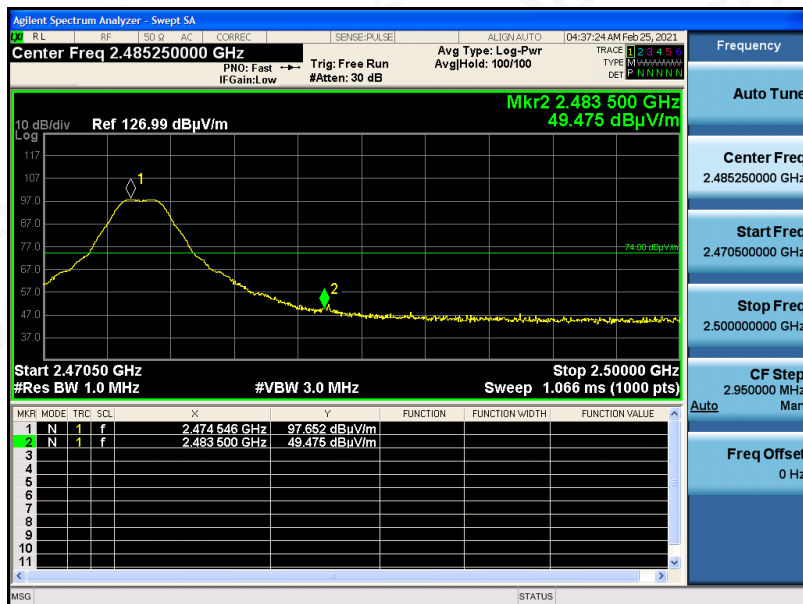
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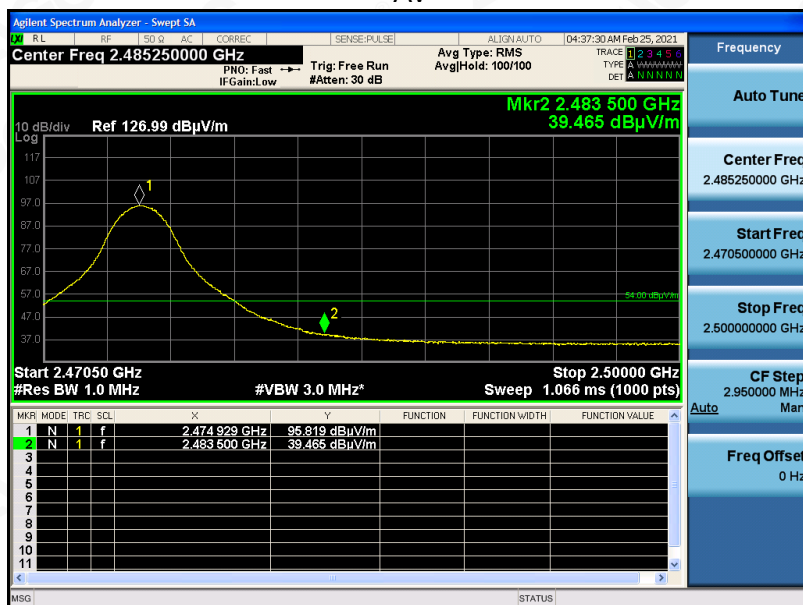


EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS

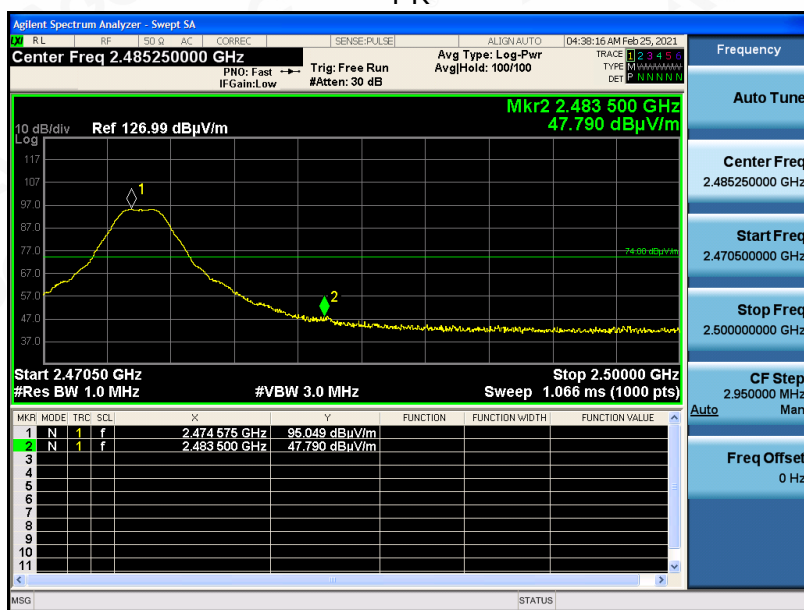
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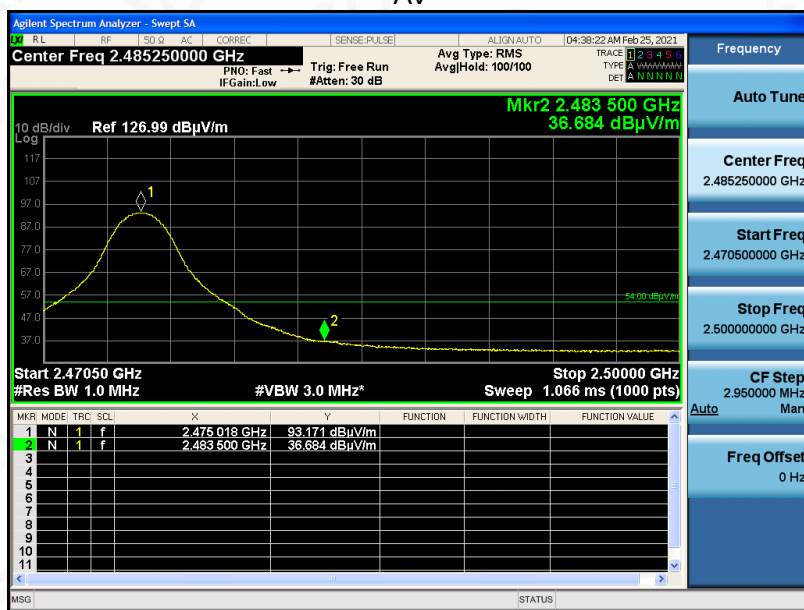


EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

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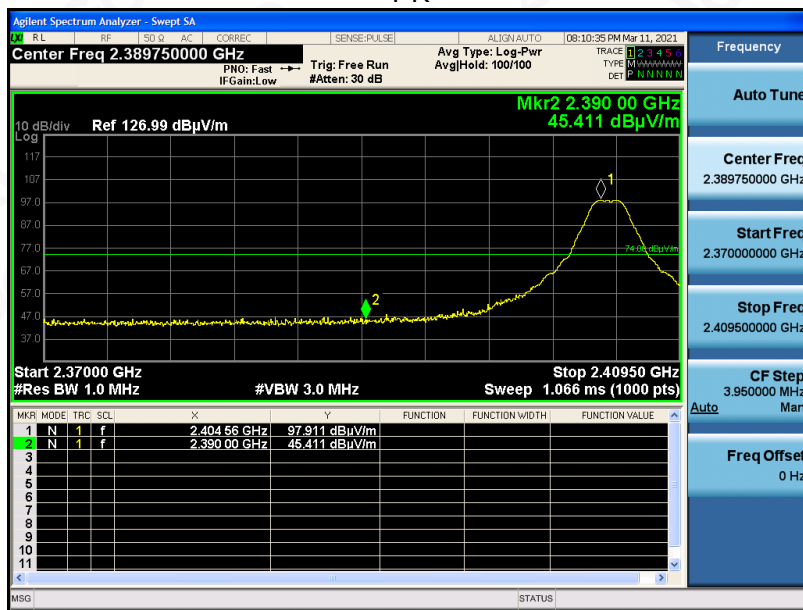
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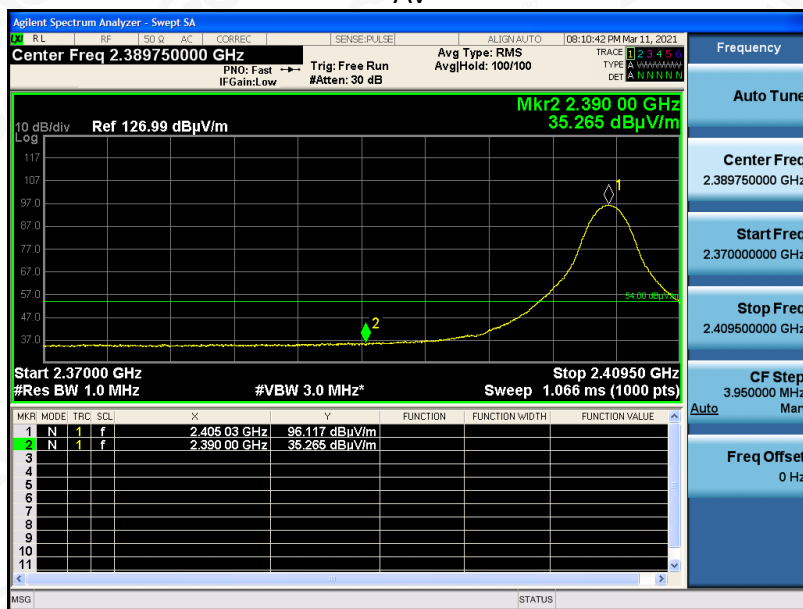
Antenna 2

EUT	NORA-B1	Model Name	NORA-B100
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS

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