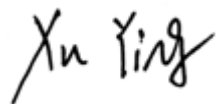


RF TEST REPORT

Applicant	Hefei Kuxin Microelectronics Limited
FCC ID	2A9XO-ARLINK-P301-D
Product	ARLink-P301-D
Brand	Artosyn
Model	P301-D
Report No.	R2208A0730-R2V3
Issue Date	March 9, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2022)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



Prepared by: Xu Ying



Approved by: Xu Kai

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TABLE OF CONTENT

1. Test Laboratory	5
1.1. Notes of the test report.....	5
1.2. Test facility	5
1.3. Testing Location	5
2. General Description of Equipment under Test.....	6
2.1. Applicant and Manufacturer Information.....	6
2.2. General information.....	6
3. Applied Standards	8
4. Test Configuration	9
5. Test Case Results	11
5.1. Occupied Bandwidth	11
5.2. Average Power Output.....	41
5.3. Frequency Stability.....	46
5.4. Power Spectral Density	49
5.5. Unwanted Emission	71
5.6. Conducted Emission	160
6. Main Test Instruments	162
ANNEX A: The EUT Appearance	163
ANNEX B: Test Setup Photos	164

Version	Revision description	Issue Date
Rev.0	Initial issue of report.	February 10, 2023
Rev.1	Update FCC ID.	March 2, 2023
Rev.2	Update information.	March 7, 2023
Rev.3	Update information.	March 9, 2023
Note: This revised report (Report No.: R2208A0730-R2V3) supersedes and replaces the previously issued report (Report No.: R2208A0730-R2V2). 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	Average output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	NA
Date of Testing: August 16, 2022 ~ November 28, 2022			
Date of Sample Received: August 9, 2022			
<p>Note: PASS: The EUT complies with the essential requirements in the standard.</p> <p>FAIL: The EUT does not comply with the essential requirements in the standard.</p> <p>All indications of Pass/Fail in this report are opinions expressed by 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.</p>			

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 **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)

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

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Hefei Kuxin Microelectronics Limited
Applicant address	Building B2, Phase 3, Hefei Innovation Industrial Park, Hefei, China
Manufacturer	Shenzhen Edadoc Technology Co., Ltd.
Manufacturer address	Floor 3, building 3, No. 111, Zhiye Road, Pudong New Area, Shanghai

2.2. General information

EUT Description	
Model	P301-D
SN	BBAF00FF
Hardware Version	V1.3
Software Version	V1.0.1.5
Power Supply	Battery
Antenna Type	External Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	Antenna: 5 dBi
Operating Frequency Range(s)	U-NII-1: 5180MHz-5240MHz U-NII-3: 5745MHz -5825MHz
Modulation Type	OFDM
Max. Output Power	26.95 dBm
Testing temperature range:	-20 ° C to 50° C
Operating temperature range:	-30 ° C to 55 ° C
Operating voltage range:	4.75 V to 5.25 V
State DC voltage:	5 V
EUT Accessory	
Other Accessories	Manufacturer: CIROCOMM TECHNOLOGY Model: /
Note: 1. The EUT is sent from the applicant to 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 15E (2022) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

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.

Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz
		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz
Does this device support TPC Function? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

5. Test Case Results

5.1. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

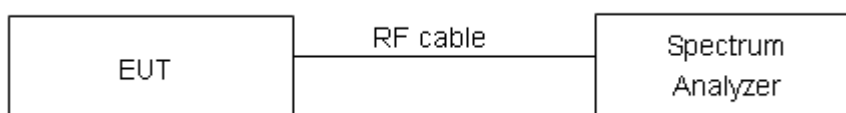
For U-NII-1, set RBW $\approx 1\%$ OCB kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW $\geq 3 \times$ RBW, 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 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

Rule FCC Part §15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

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.

Test Results:
U-NII-1

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
5G Slot 20MHz	5180	18.482	19.67	PASS
	5200	18.999	30.00	PASS
	5220	18.865	30.00	PASS
	5240	18.820	29.98	PASS
5G Slot 40MHz	5190	36.506	38.81	PASS
	5230	37.743	60.00	PASS
5G Slot 5MHz	5180	4.634	4.90	PASS
	5200	4.623	4.91	PASS
	5220	4.658	4.98	PASS
	5240	4.637	4.95	PASS
5G Slot 10MHz	5180	9.294	10.62	PASS
	5200	9.286	9.76	PASS
	5220	9.278	10.16	PASS
	5240	9.272	10.08	PASS
5G BR 5MHz	5180	4.631	4.94	PASS
	5200	4.642	4.97	PASS
	5220	4.615	4.89	PASS
	5240	4.639	4.92	PASS

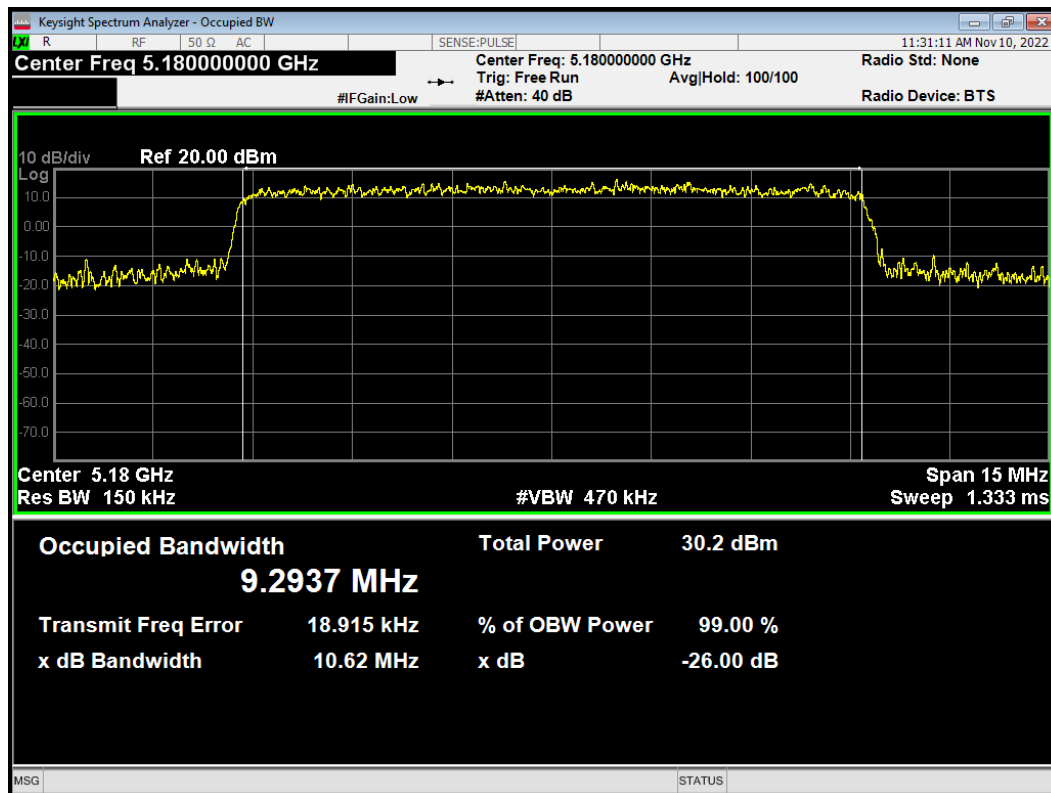
U-NII-3

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
5G Slot 20MHz	5745	18.616	18.00	500	PASS
	5765	18.578	18.31	500	PASS
	5805	18.551	18.08	500	PASS
	5825	18.580	17.87	500	PASS
5G Slot 40MHz	5755	37.019	35.51	500	PASS
	5795	36.965	35.29	500	PASS
5G Slot 5MHz	5745	4.721	4.64	500	PASS
	5765	4.706	4.55	500	PASS
	5805	4.678	4.59	500	PASS
	5825	4.707	4.58	500	PASS
5G Slot 10MHz	5745	9.339	9.02	500	PASS
	5765	9.321	9.16	500	PASS
	5805	9.307	9.15	500	PASS
	5825	9.315	9.16	500	PASS
5G BR 5MHz	5745	4.665	4.53	500	PASS
	5765	4.647	4.59	500	PASS
	5805	4.663	4.54	500	PASS
	5825	4.671	4.59	500	PASS

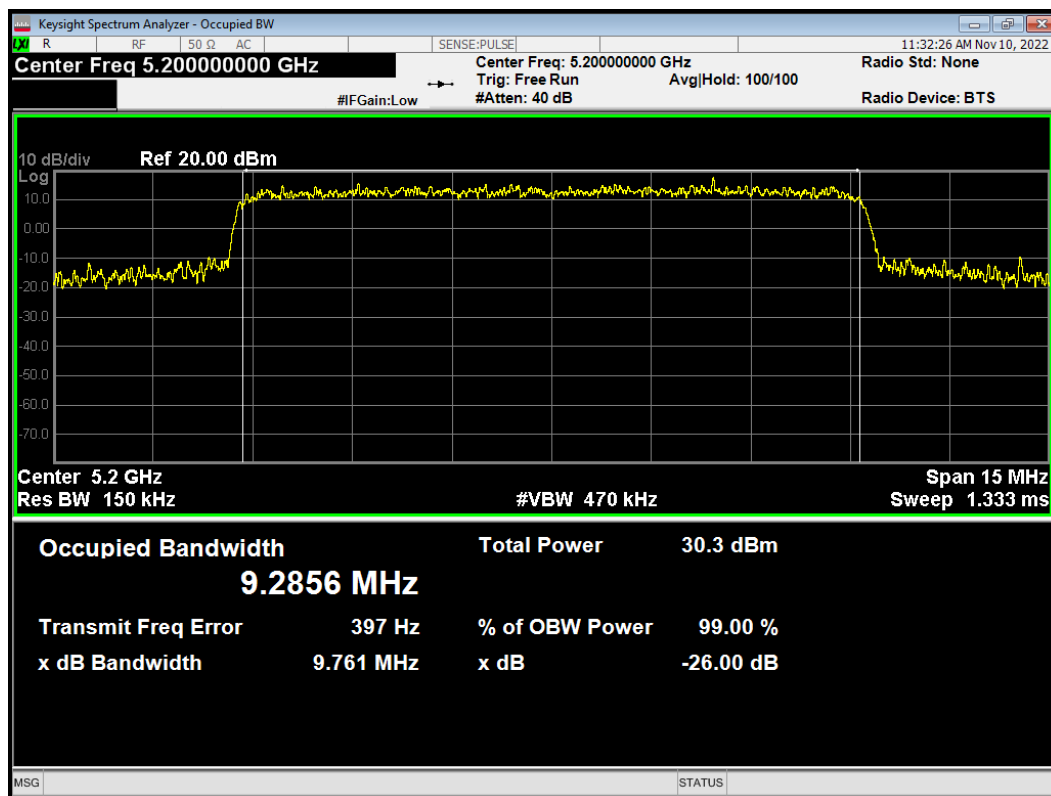
99% bandwidth

U-NII-1

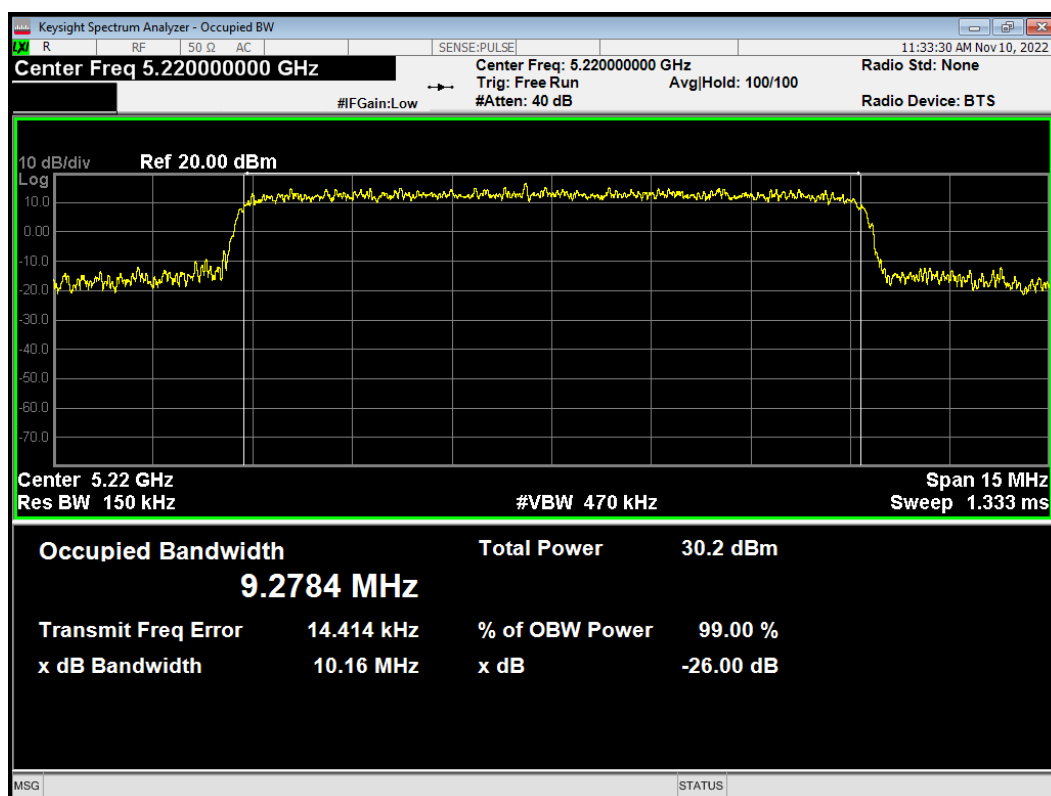
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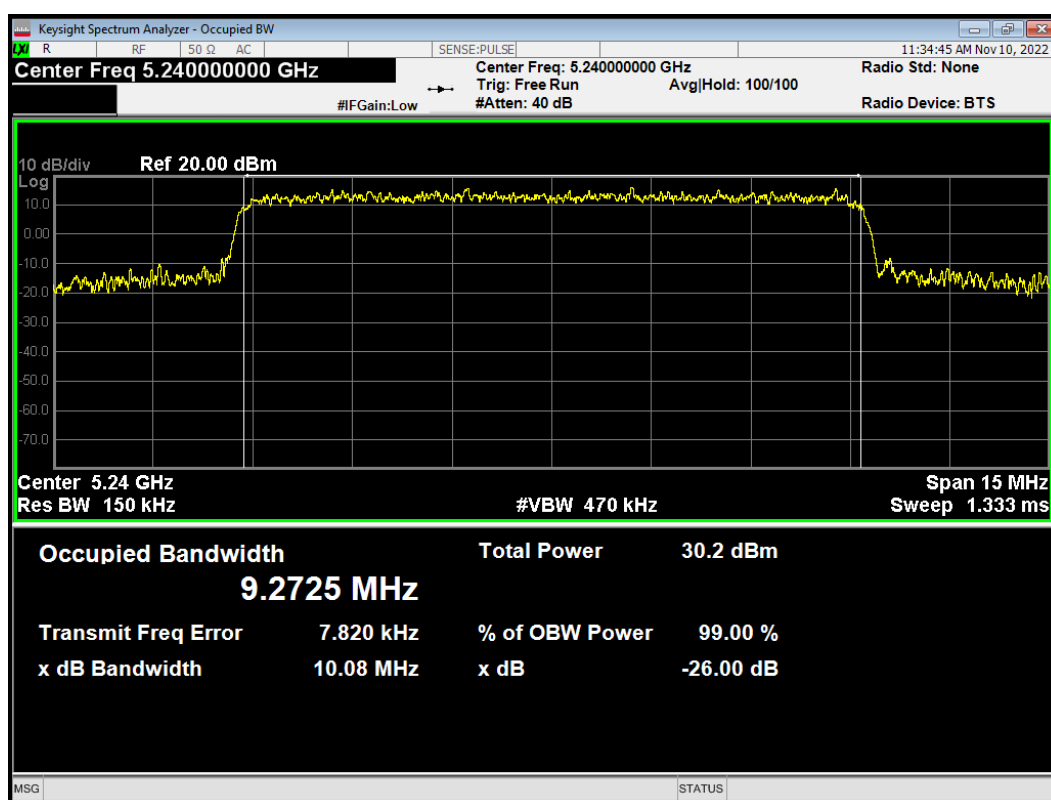
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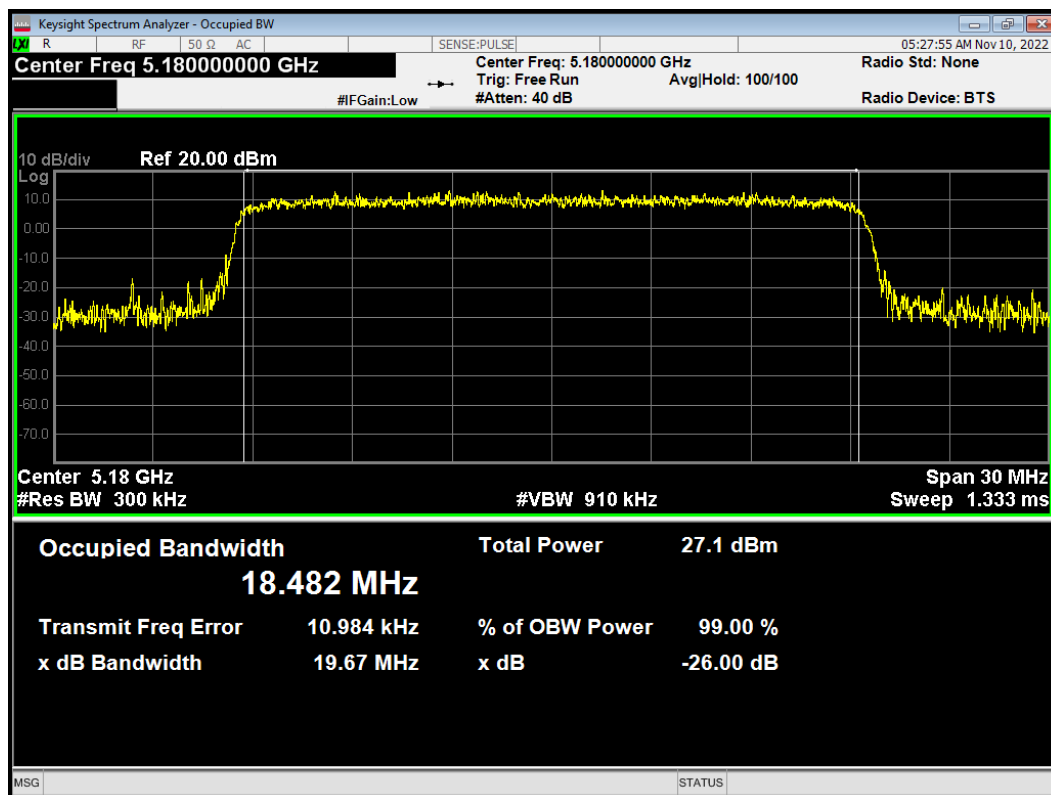
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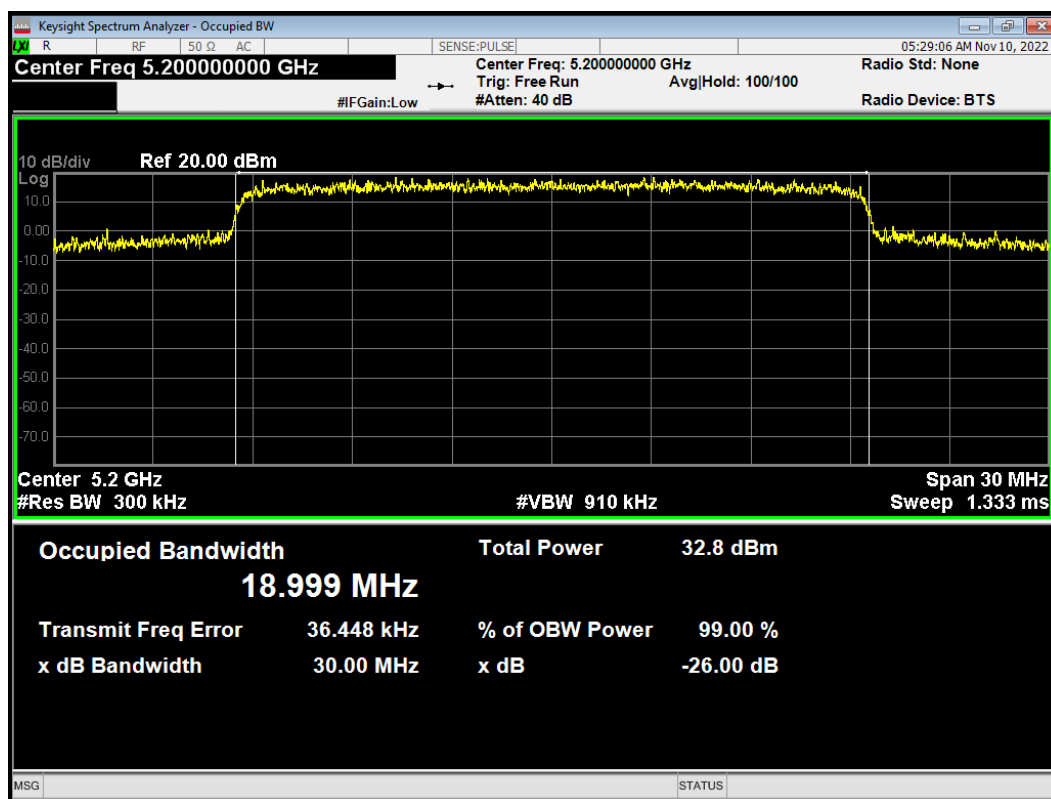
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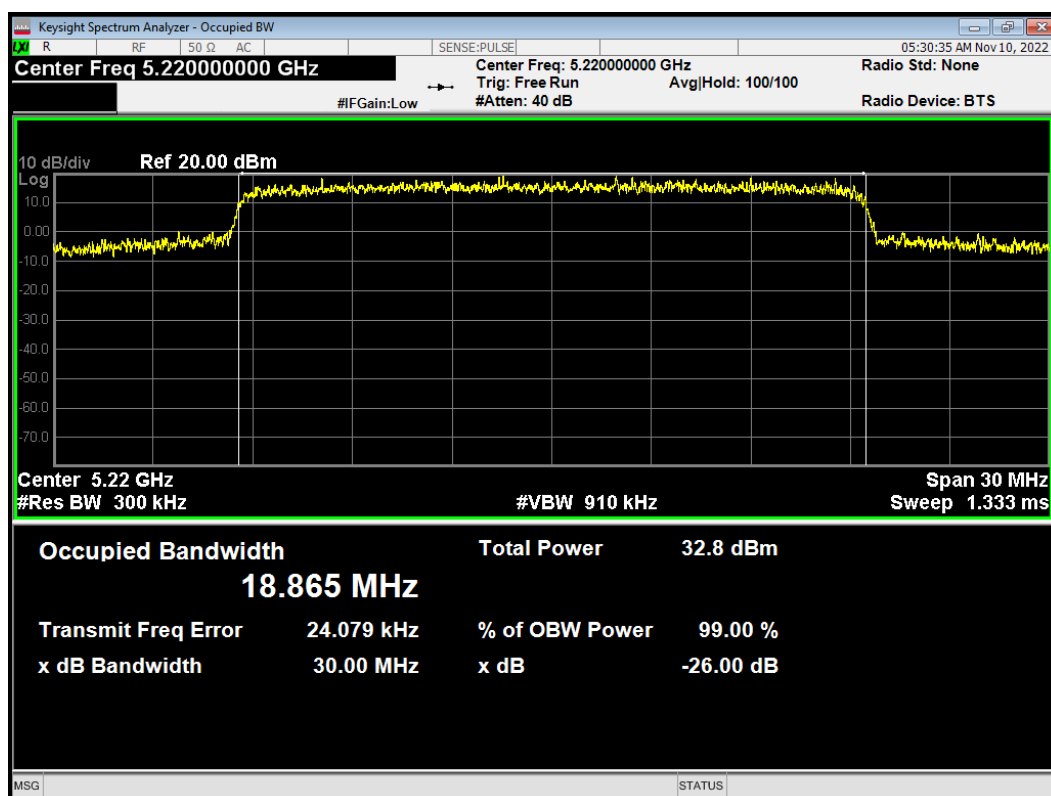
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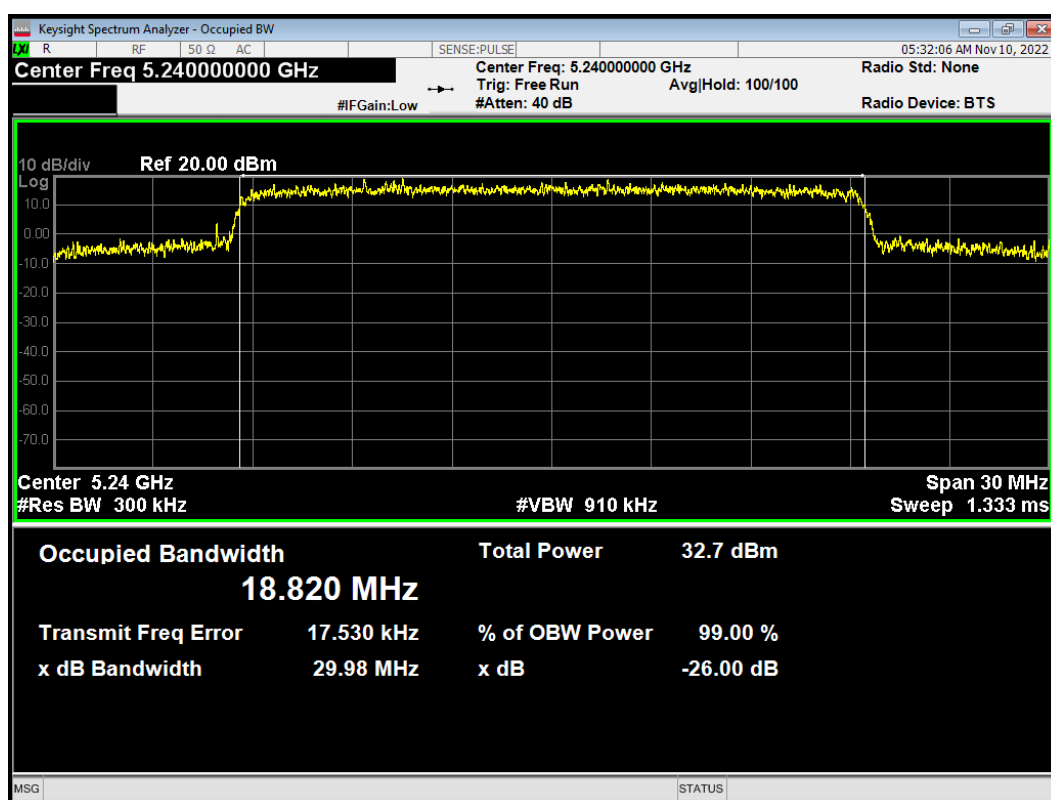
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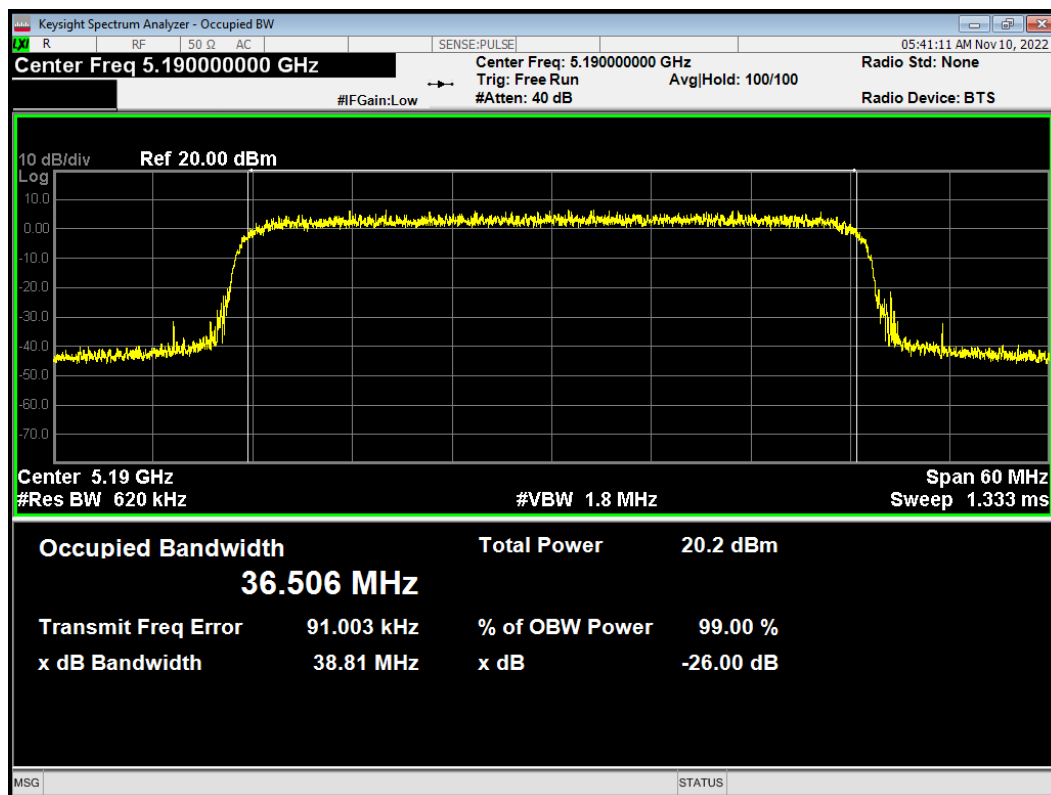
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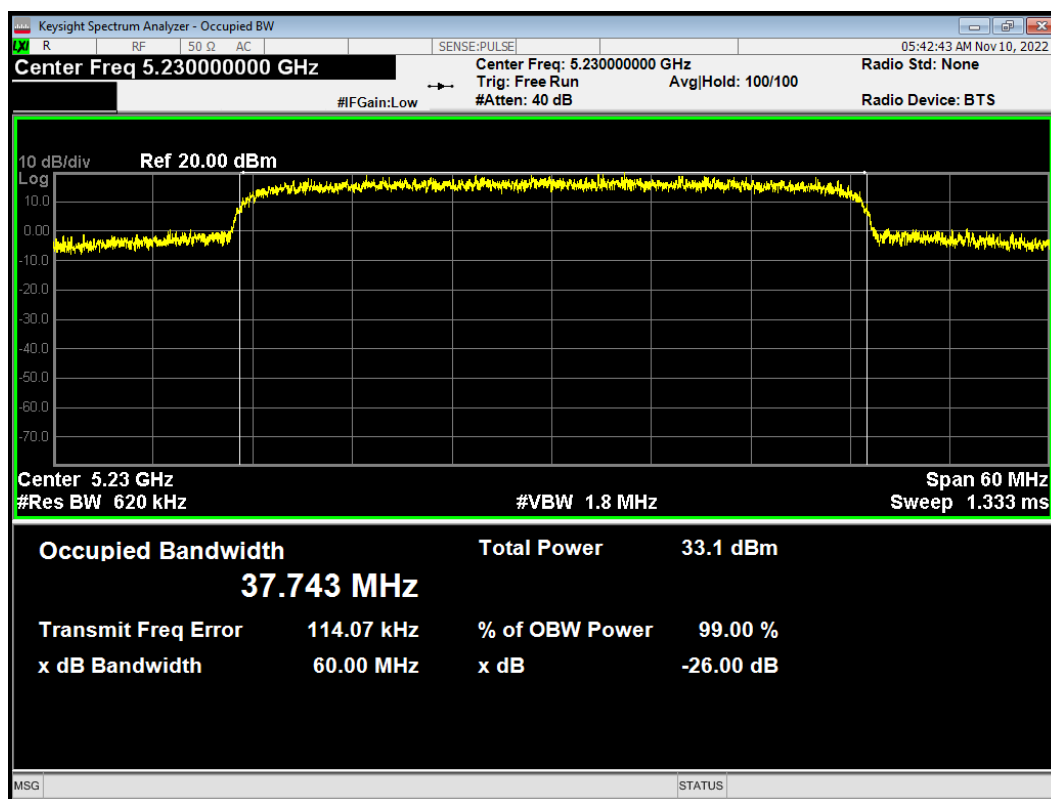
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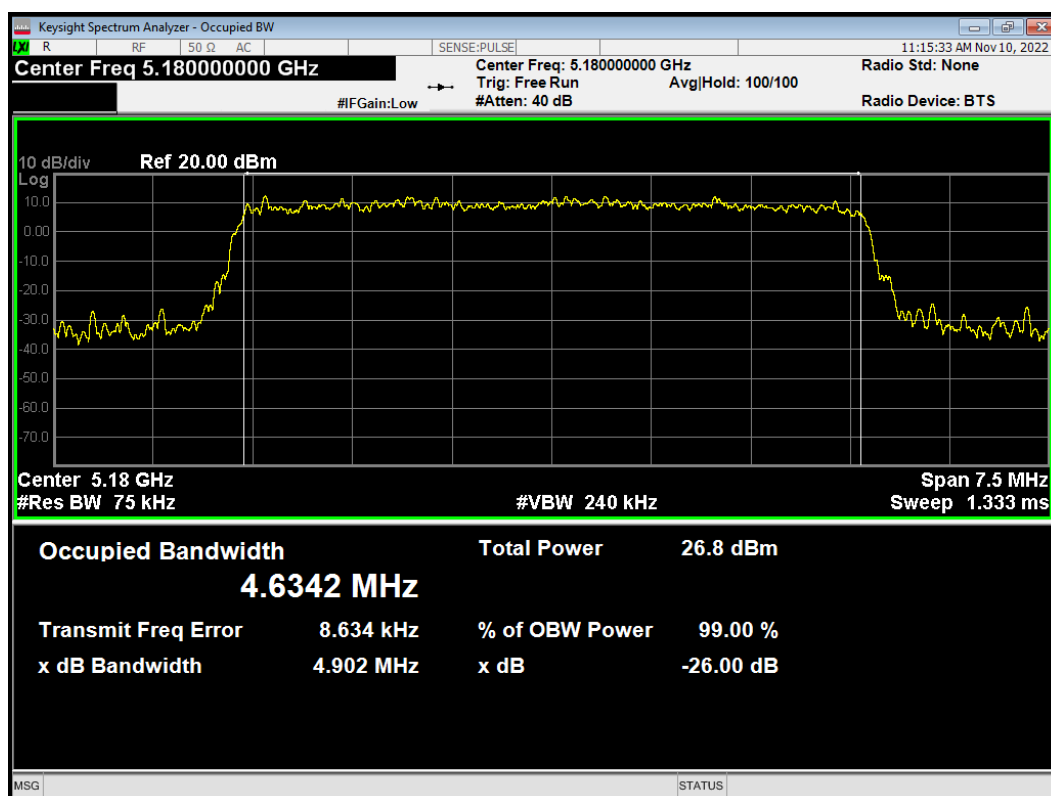
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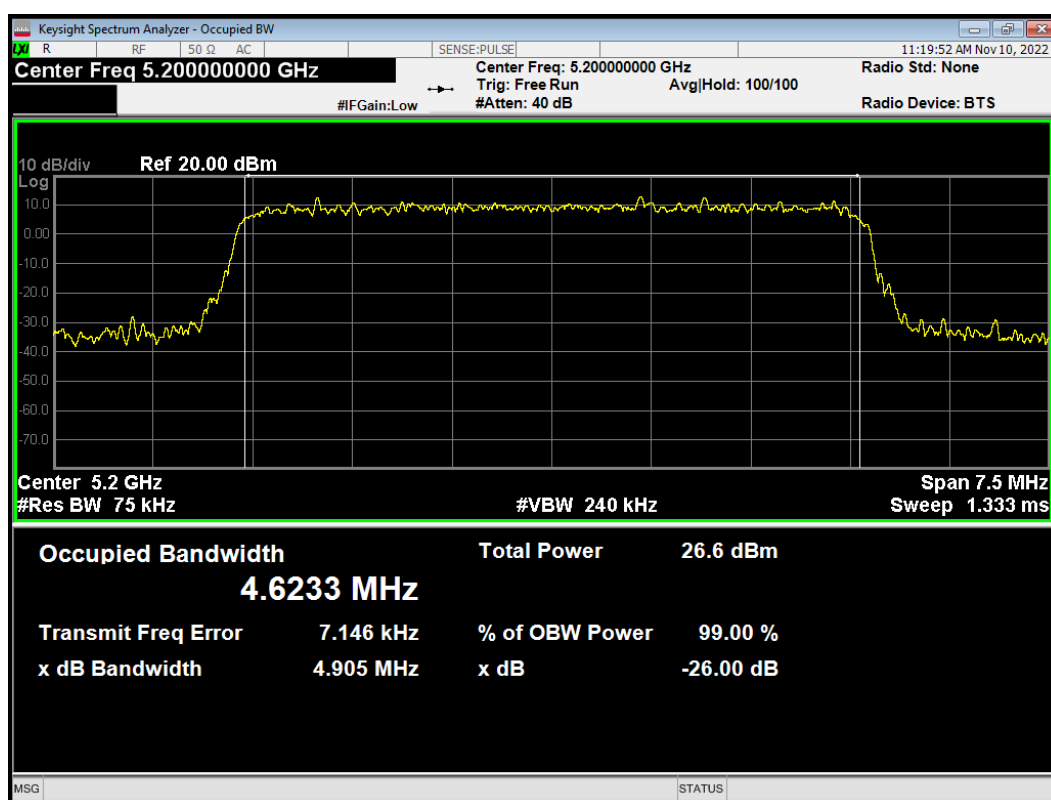
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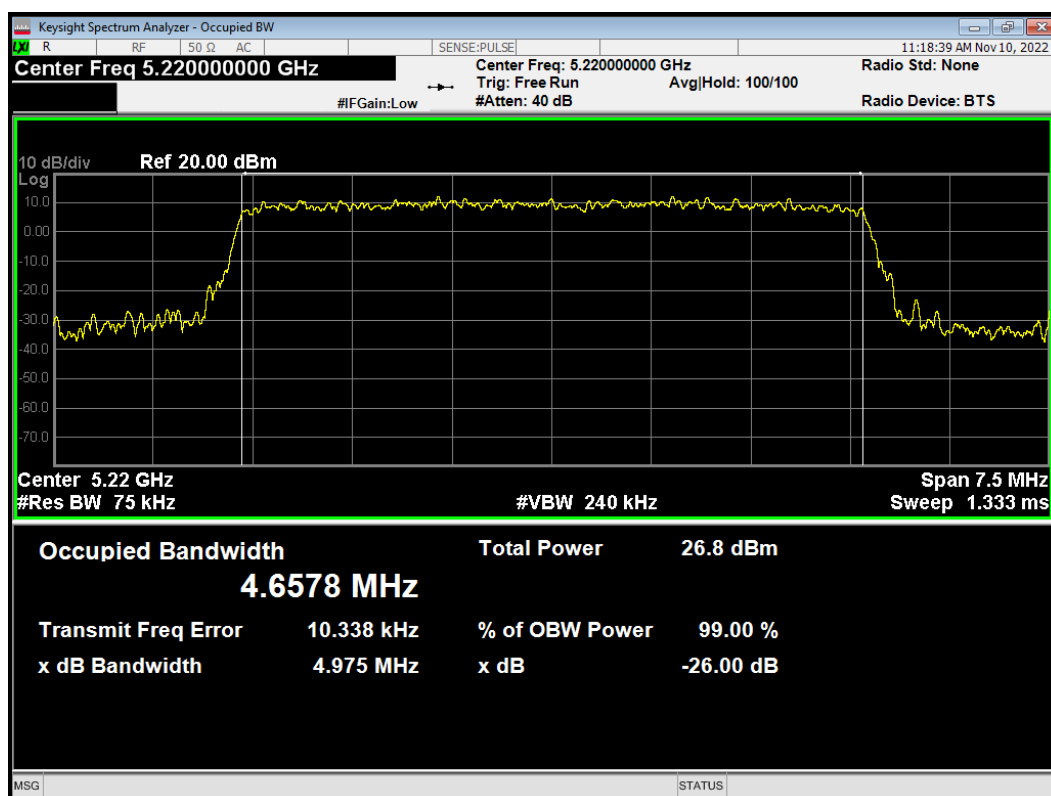
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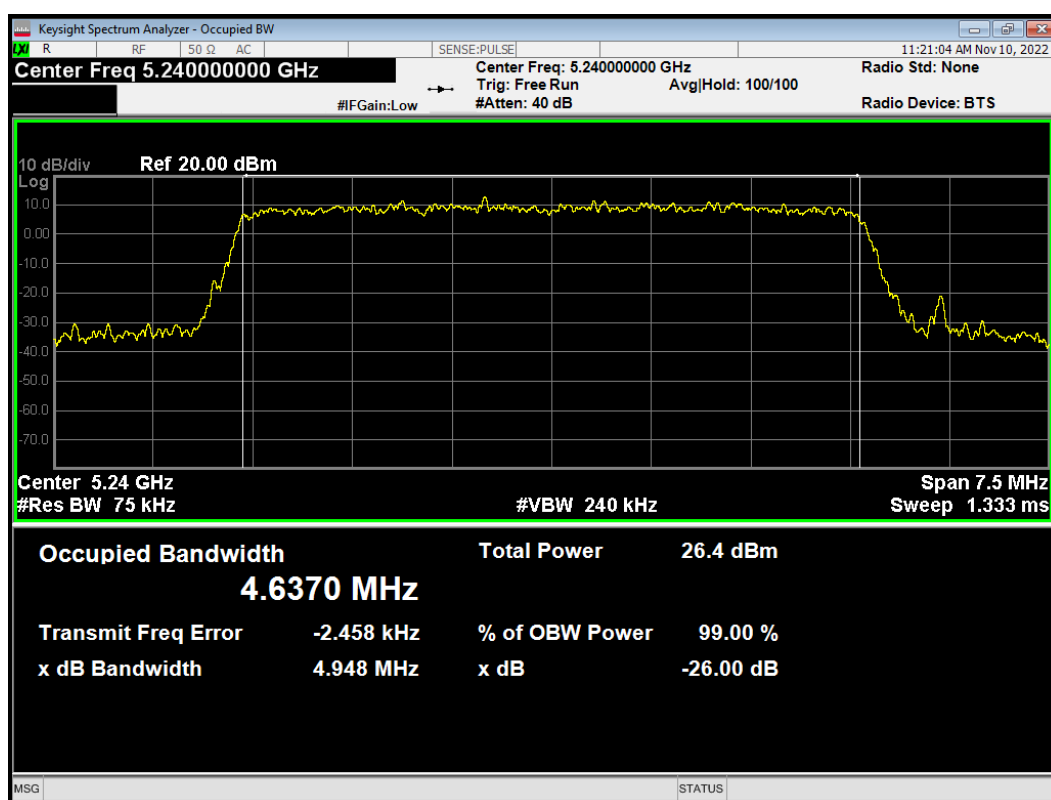
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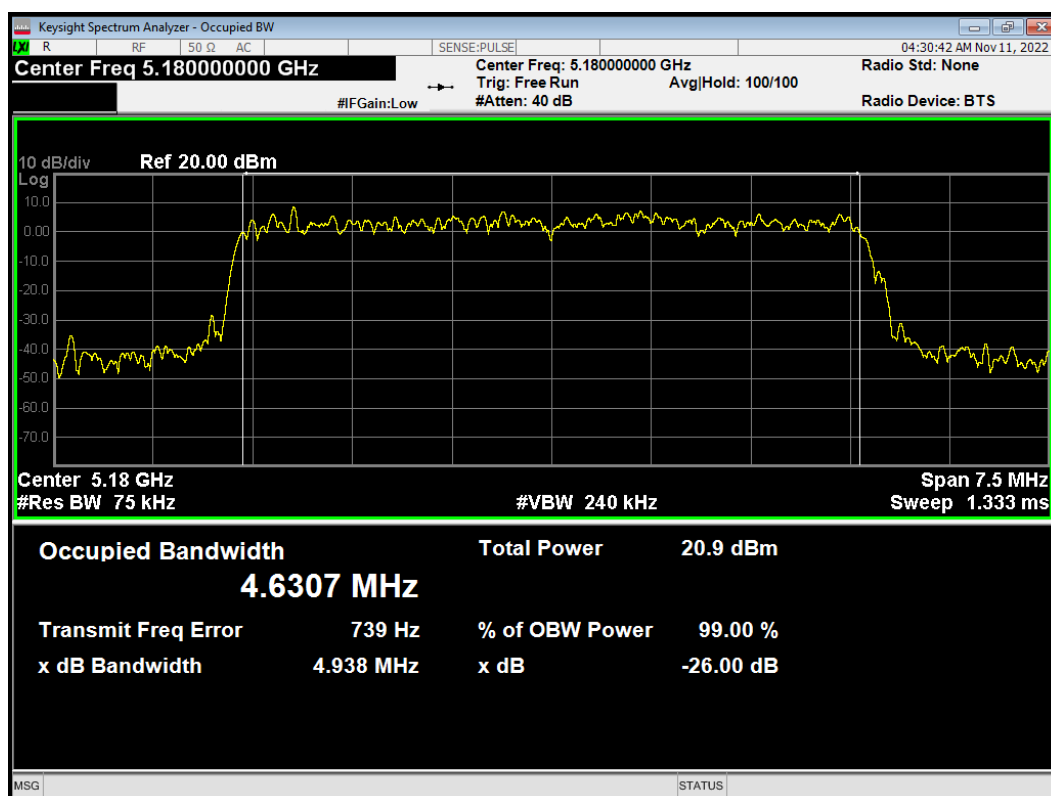
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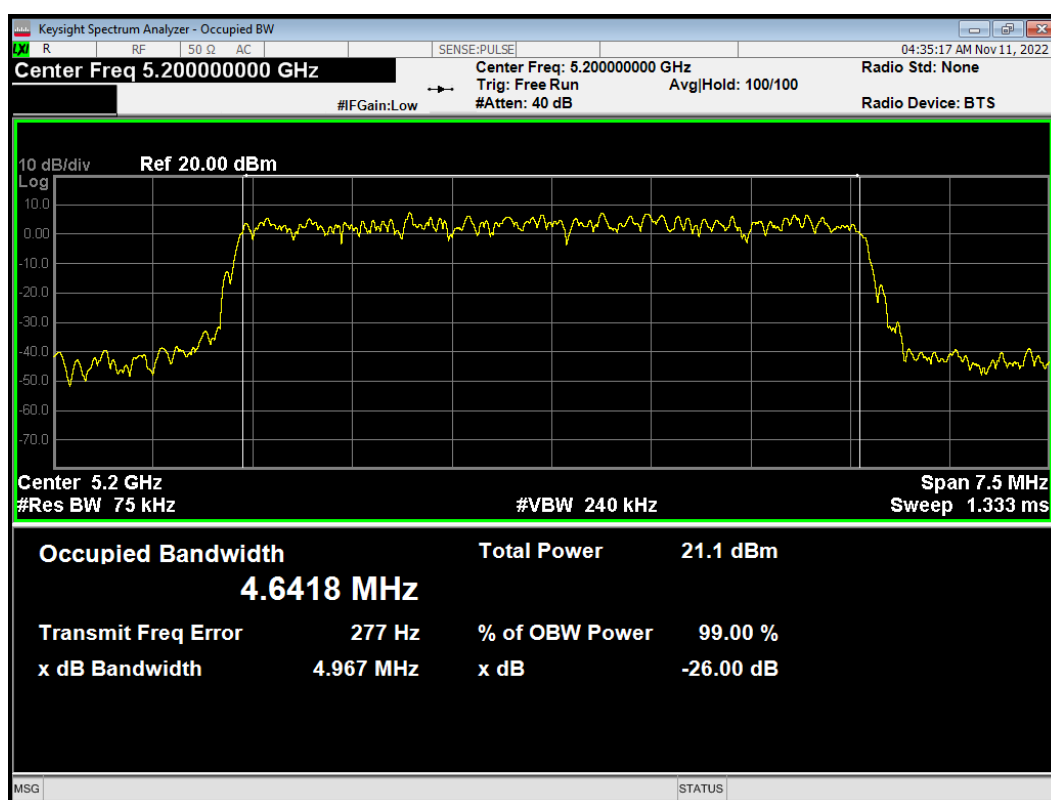
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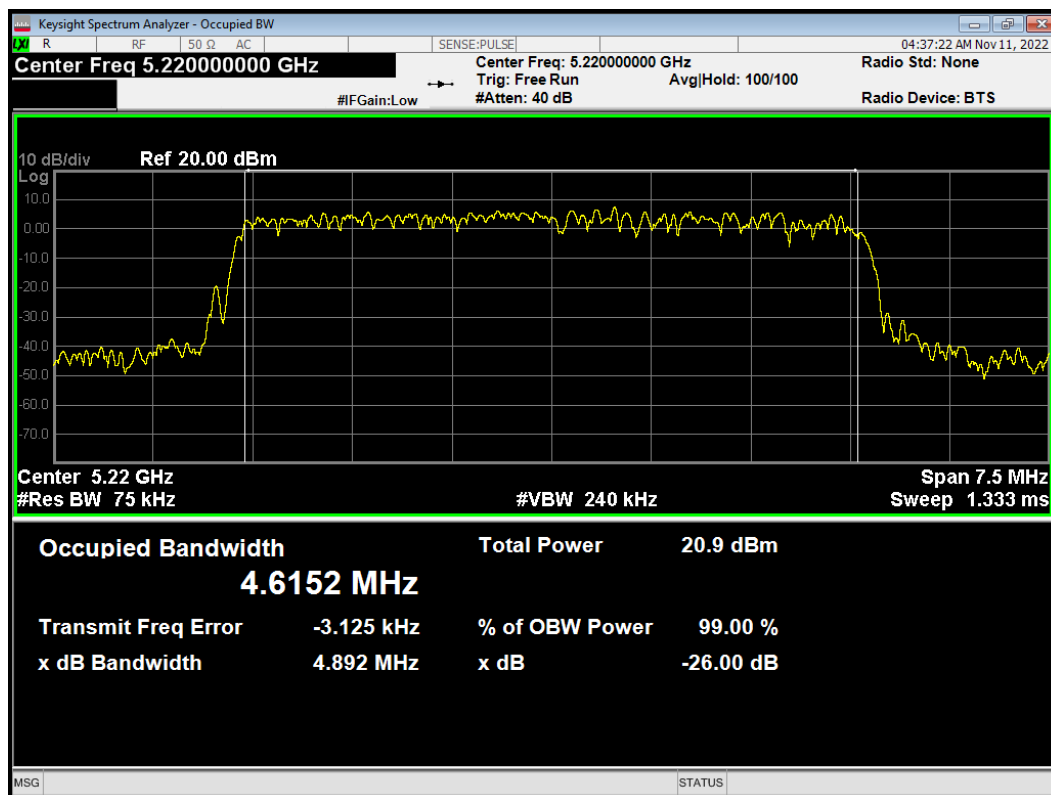
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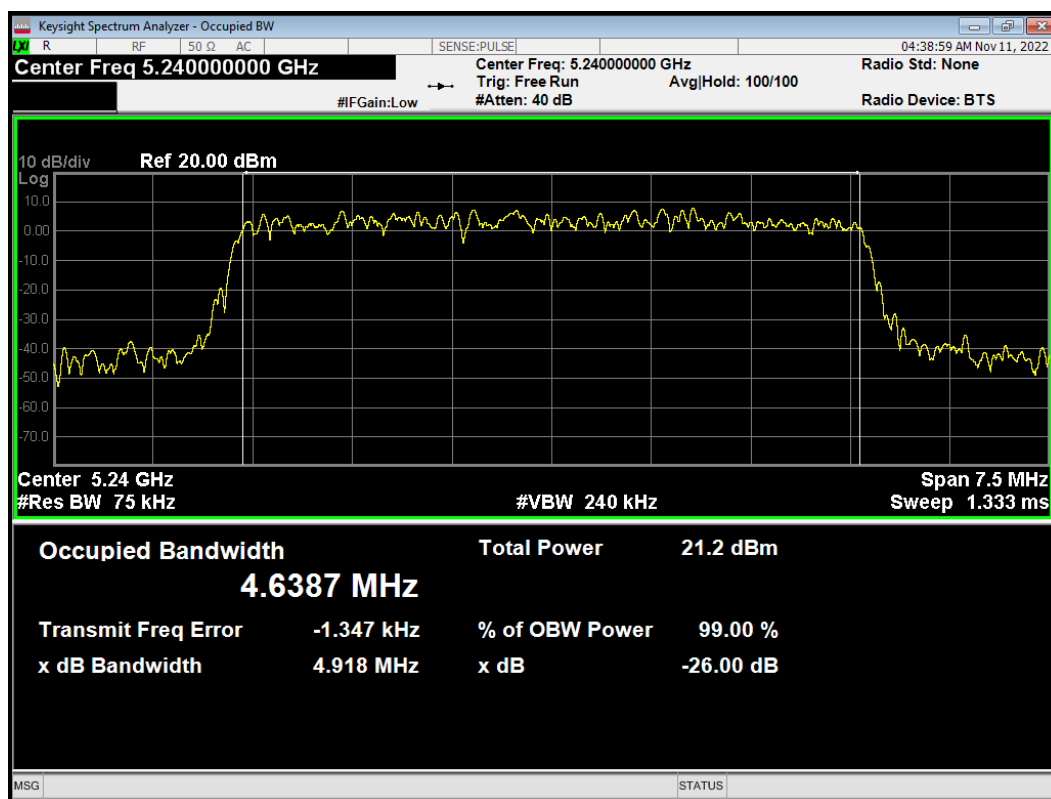
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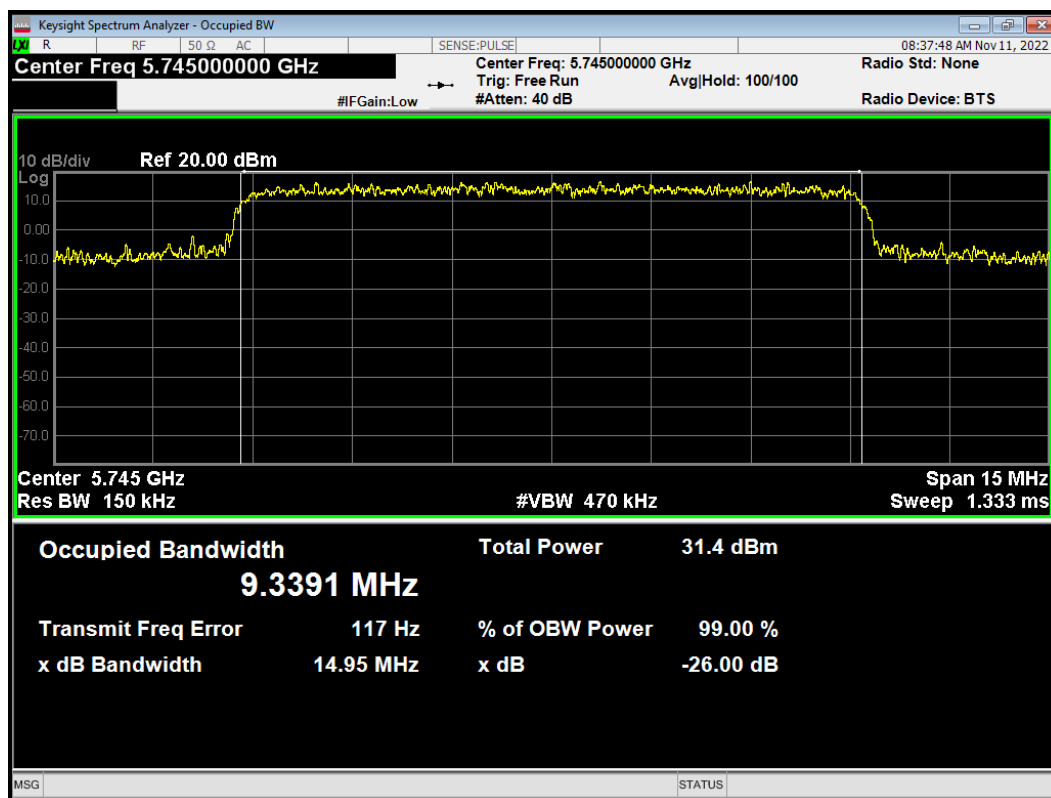


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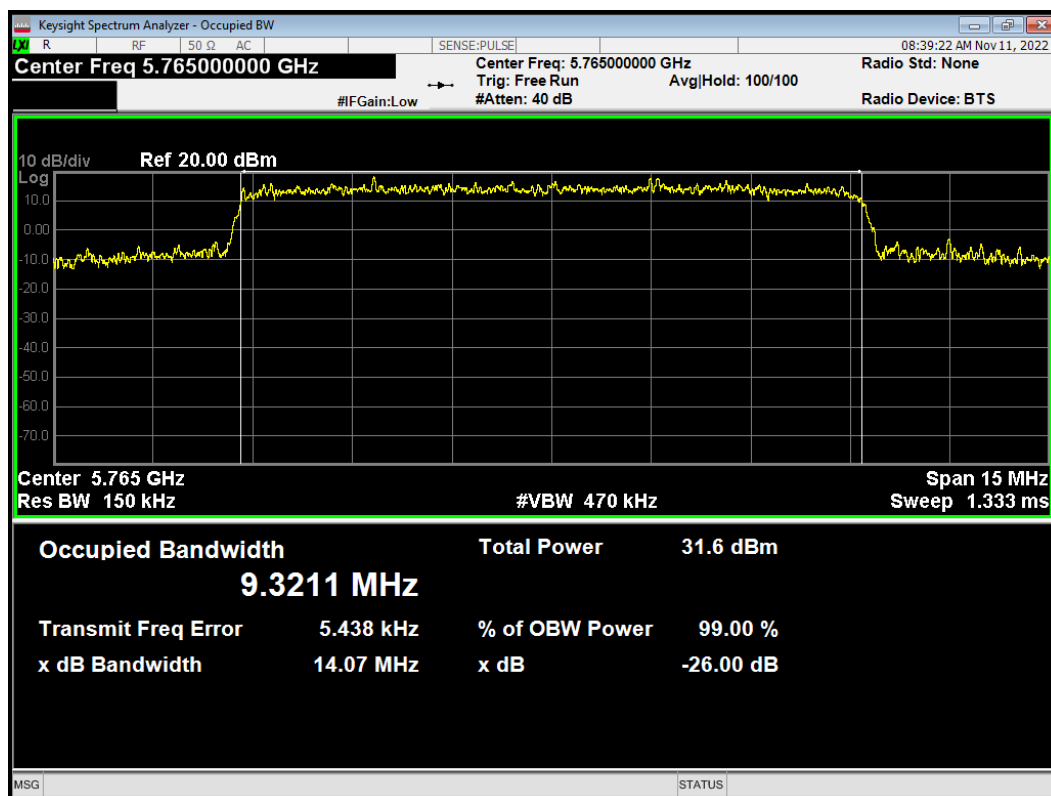


U-NII-3

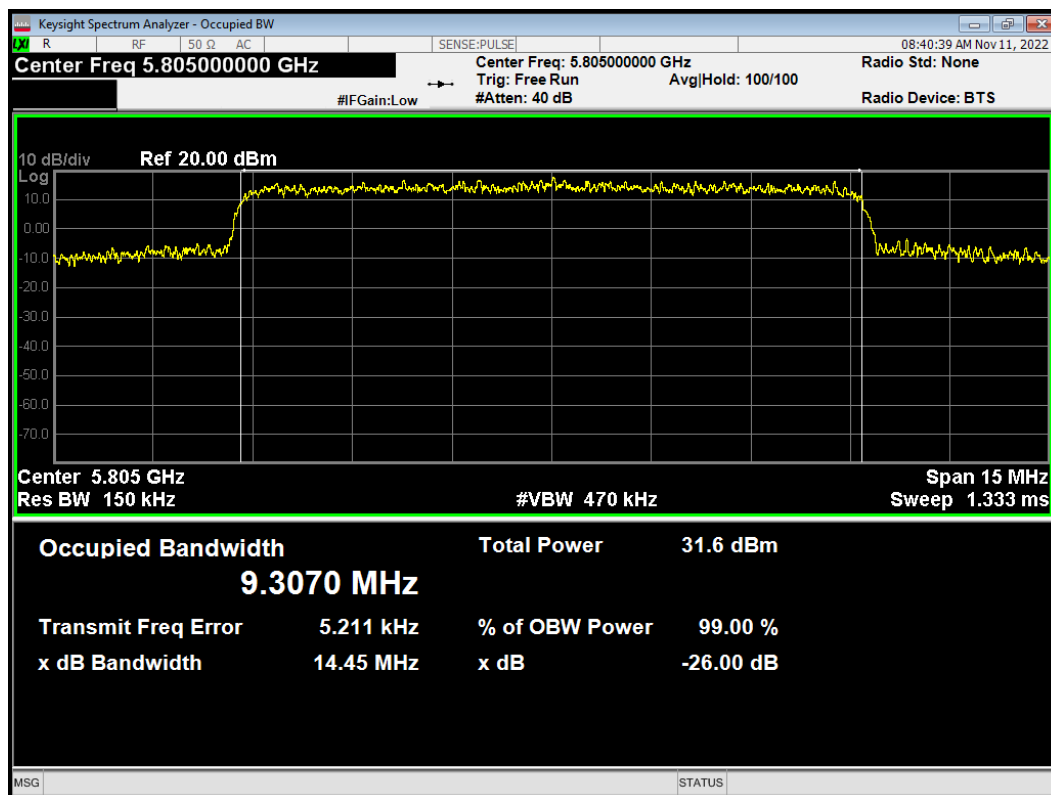
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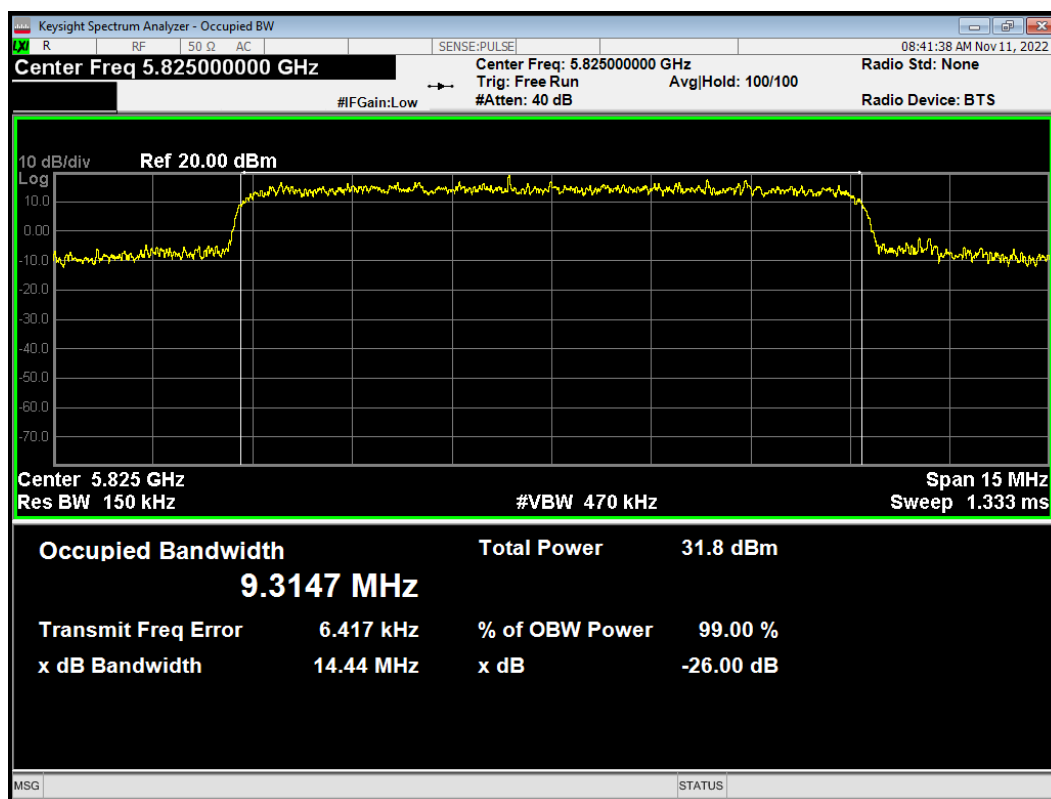
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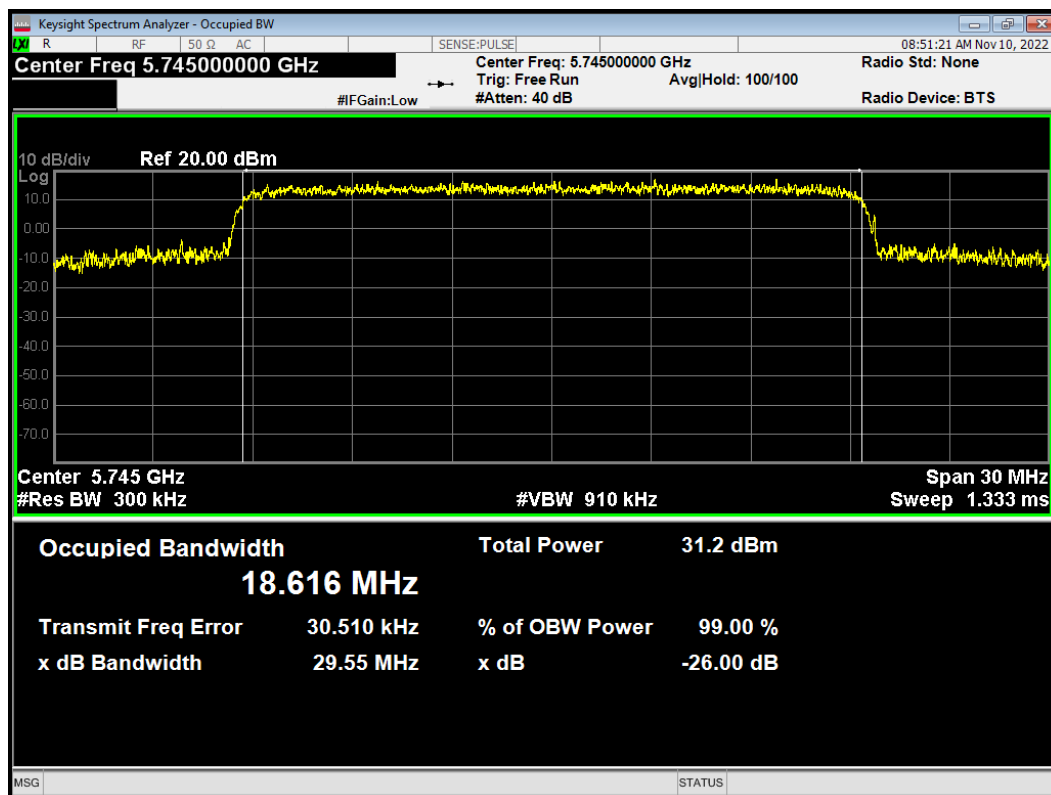
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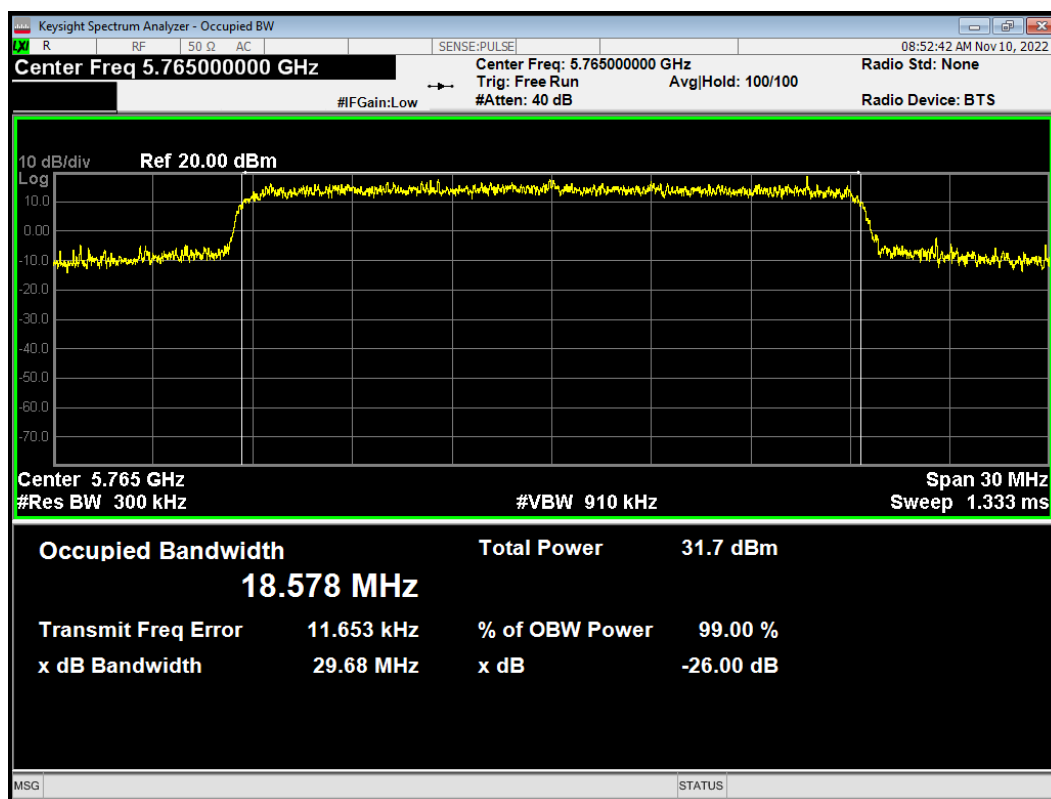
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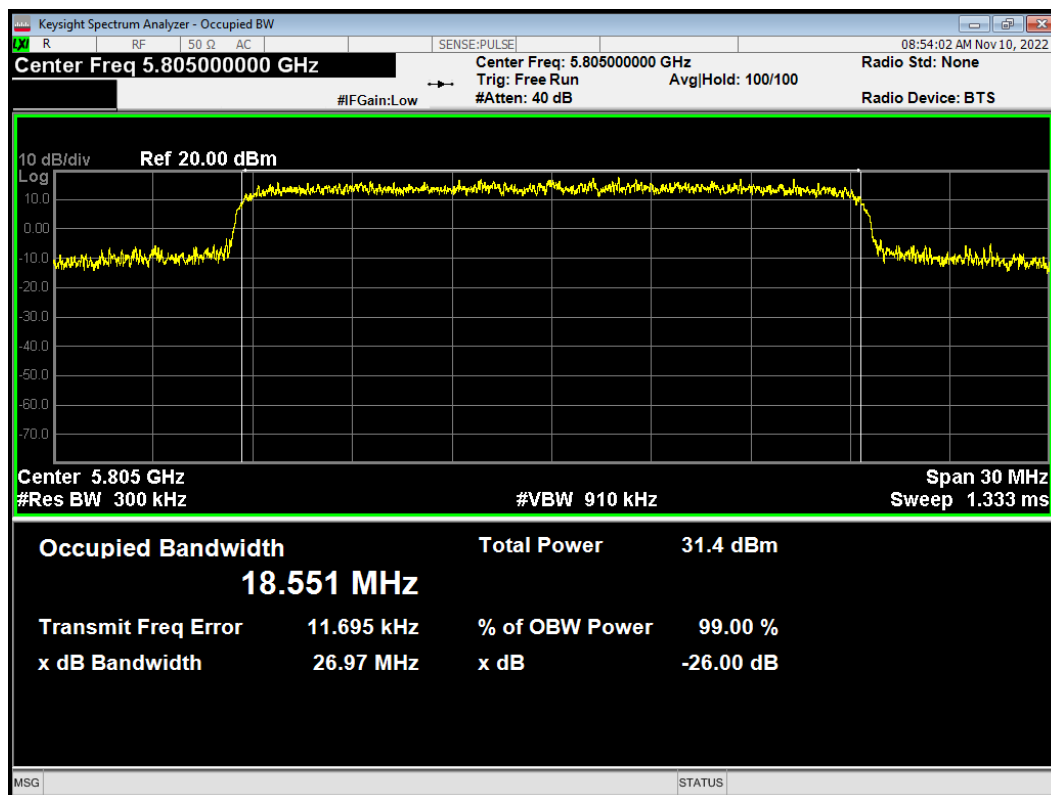
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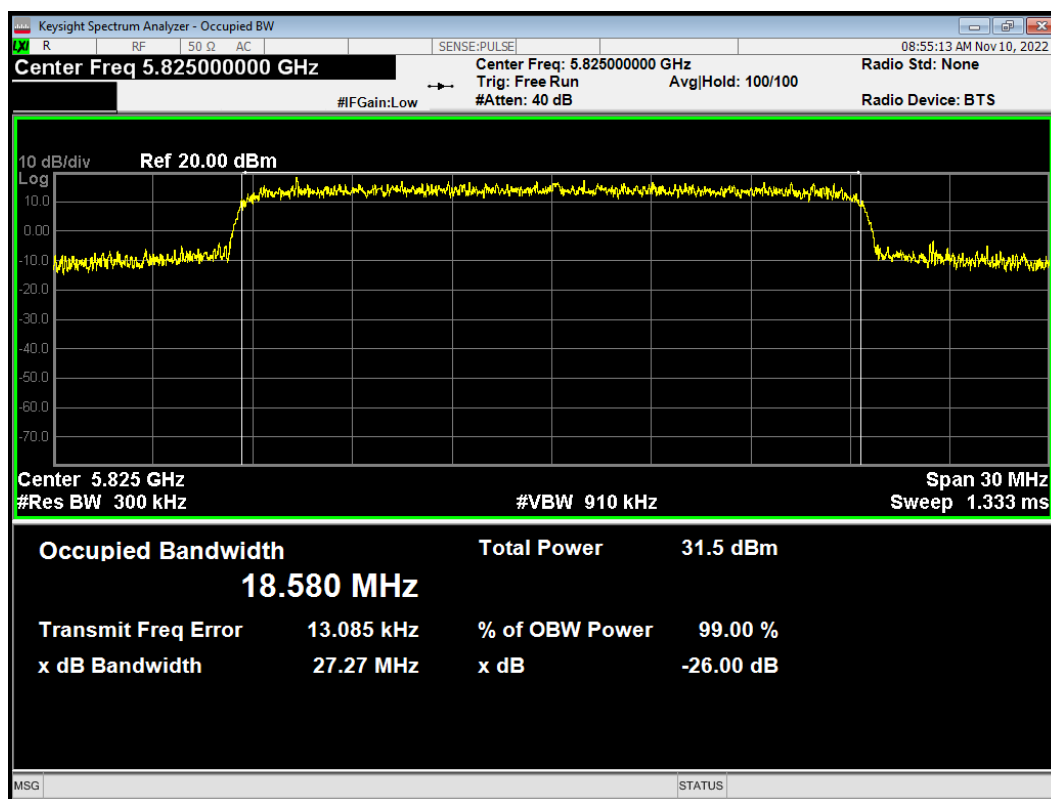
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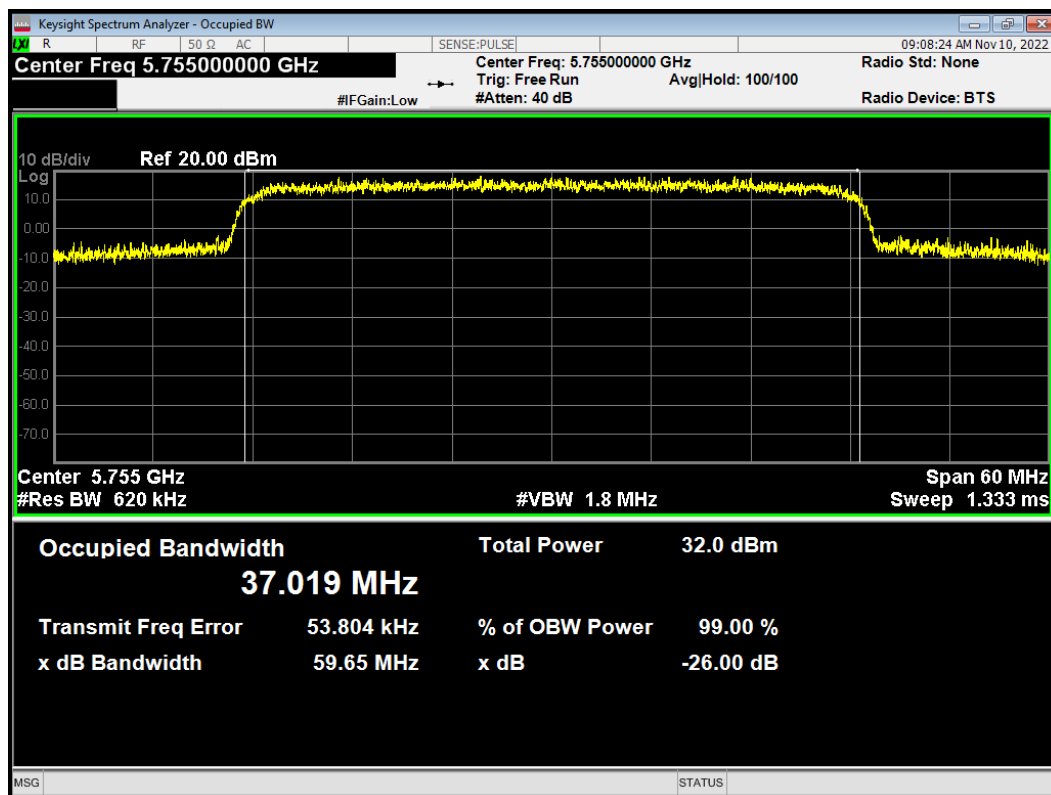
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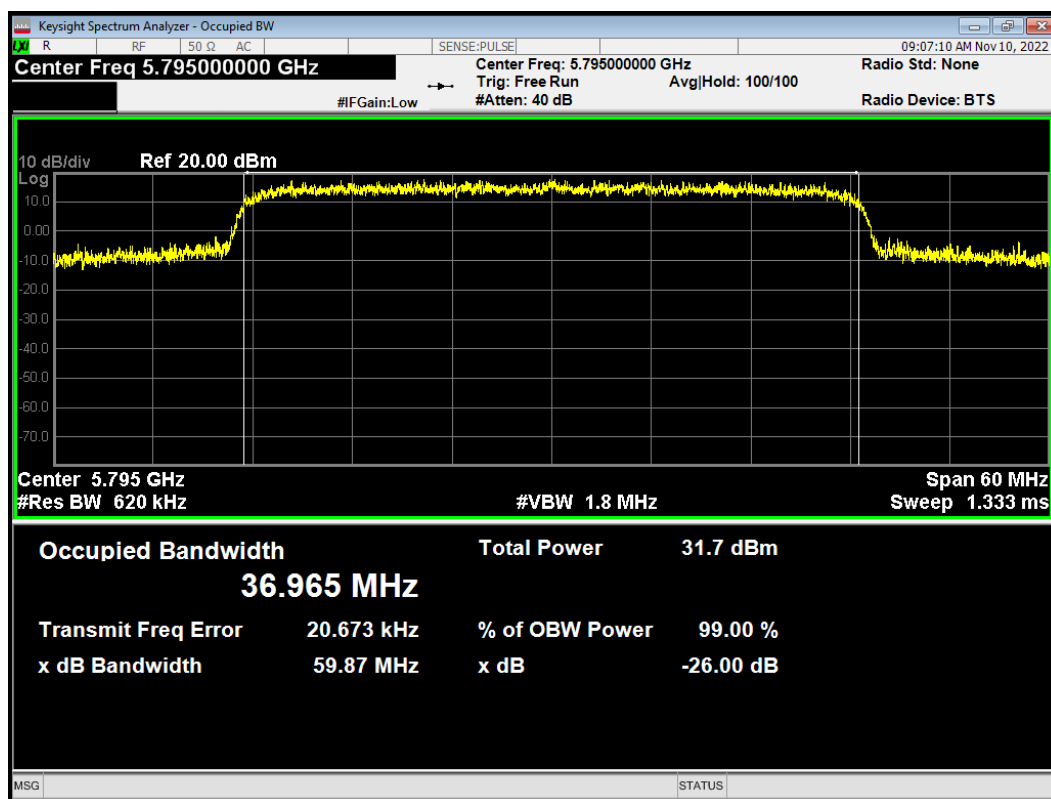
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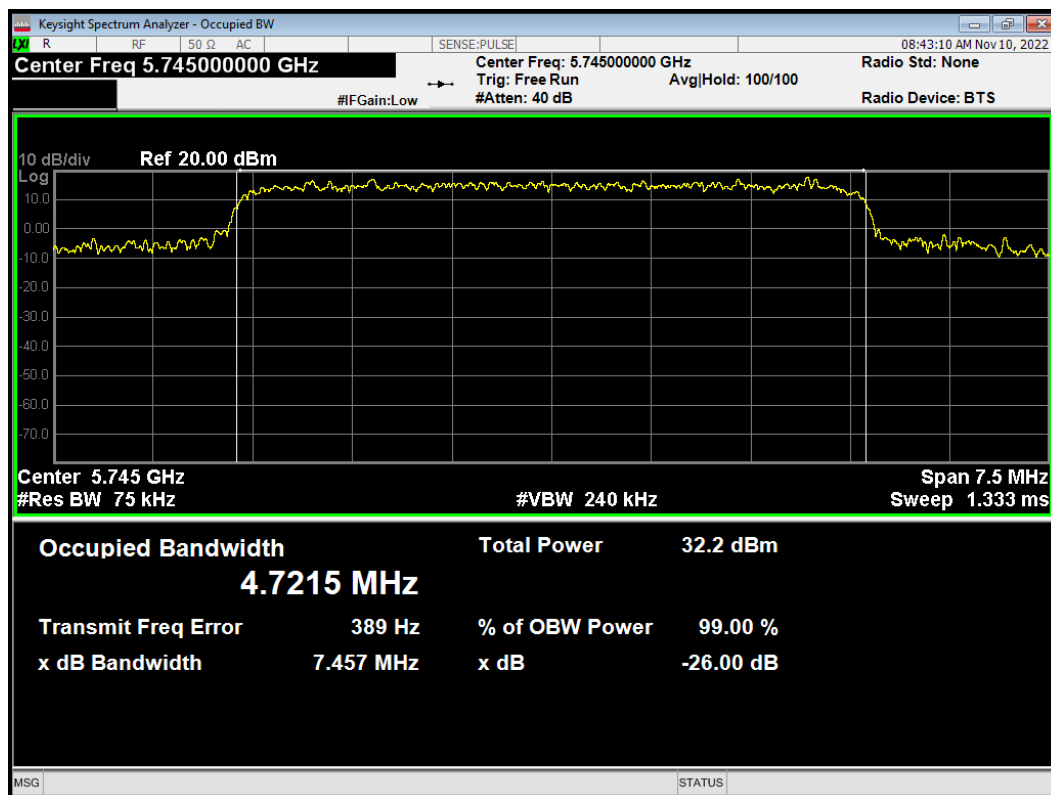
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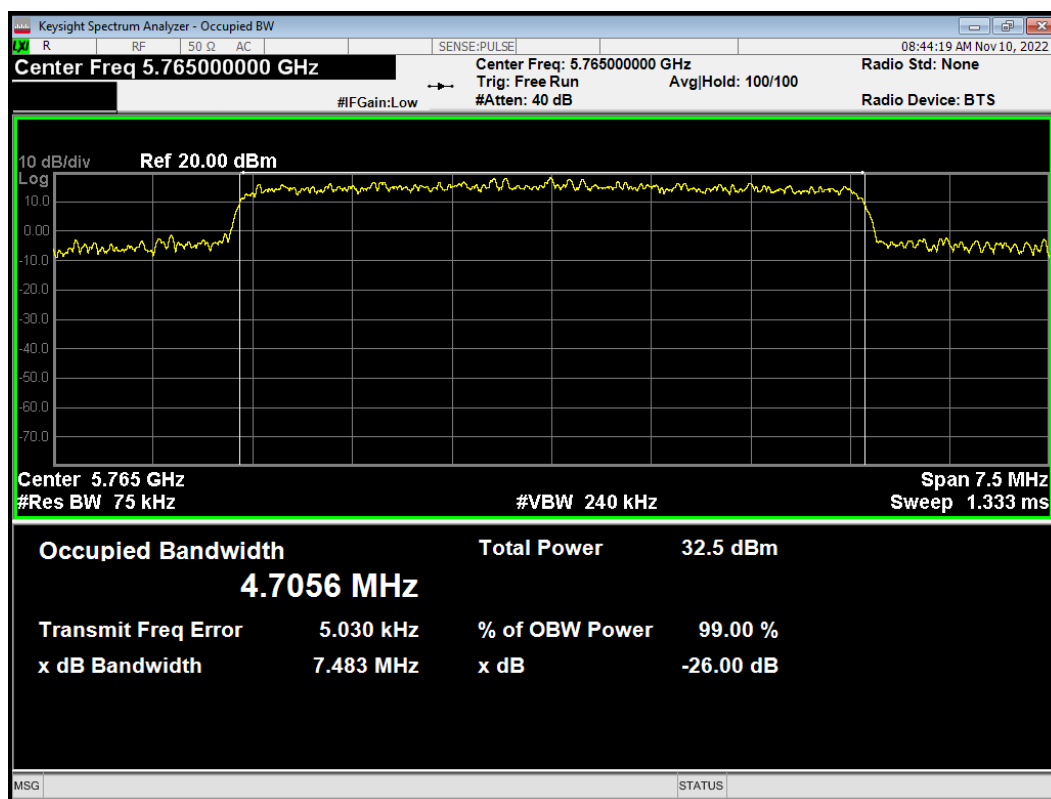
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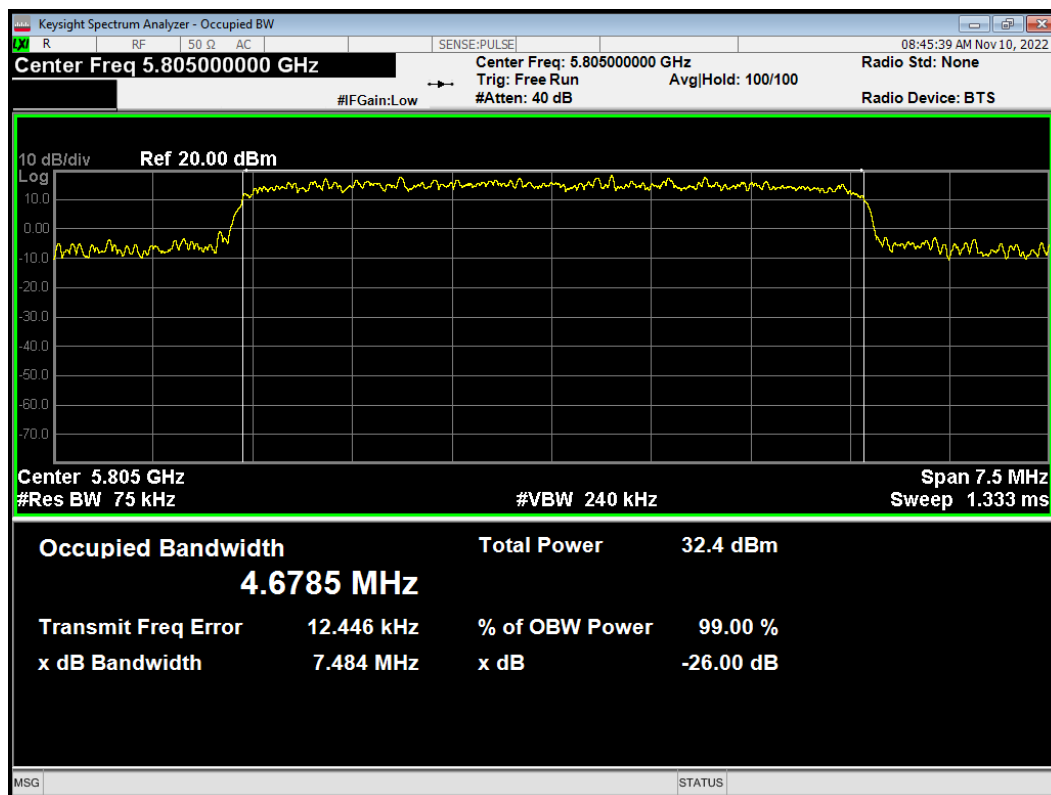
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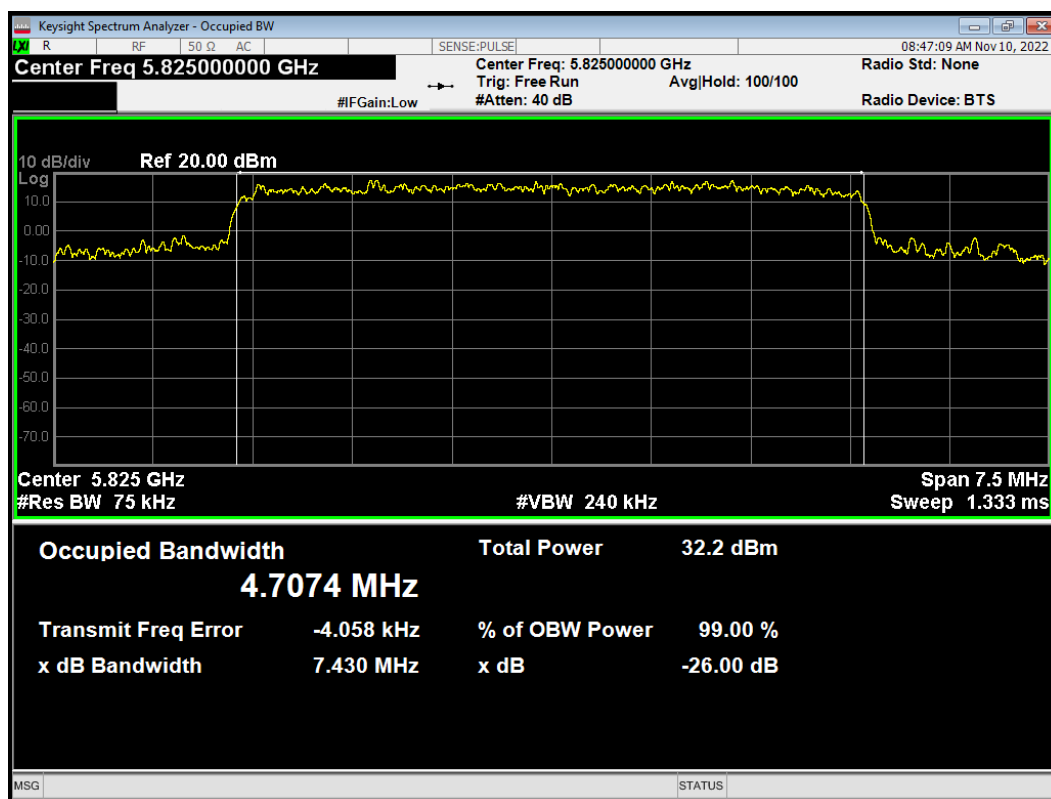
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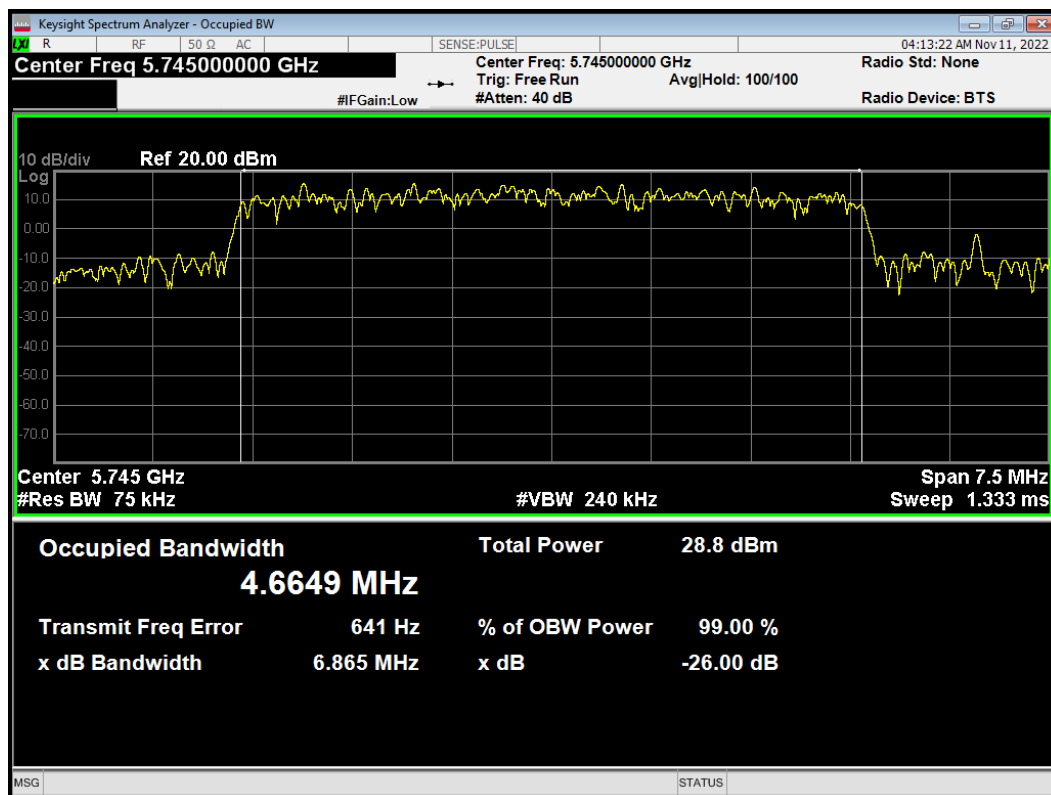
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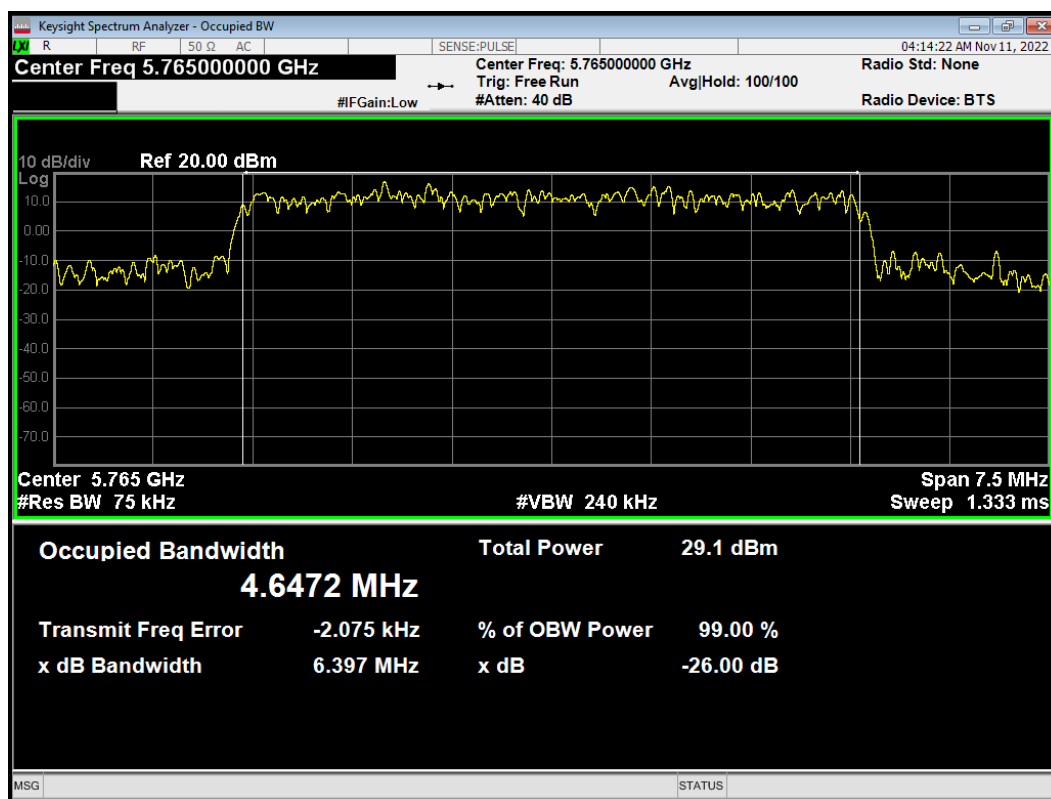
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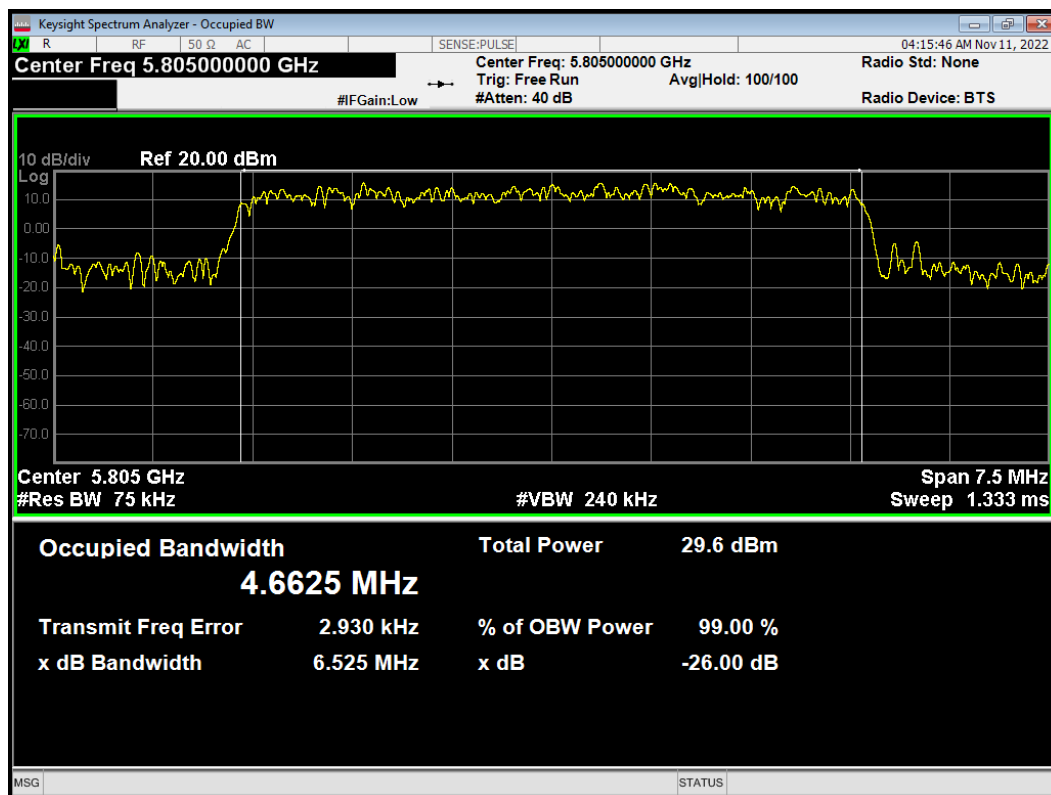
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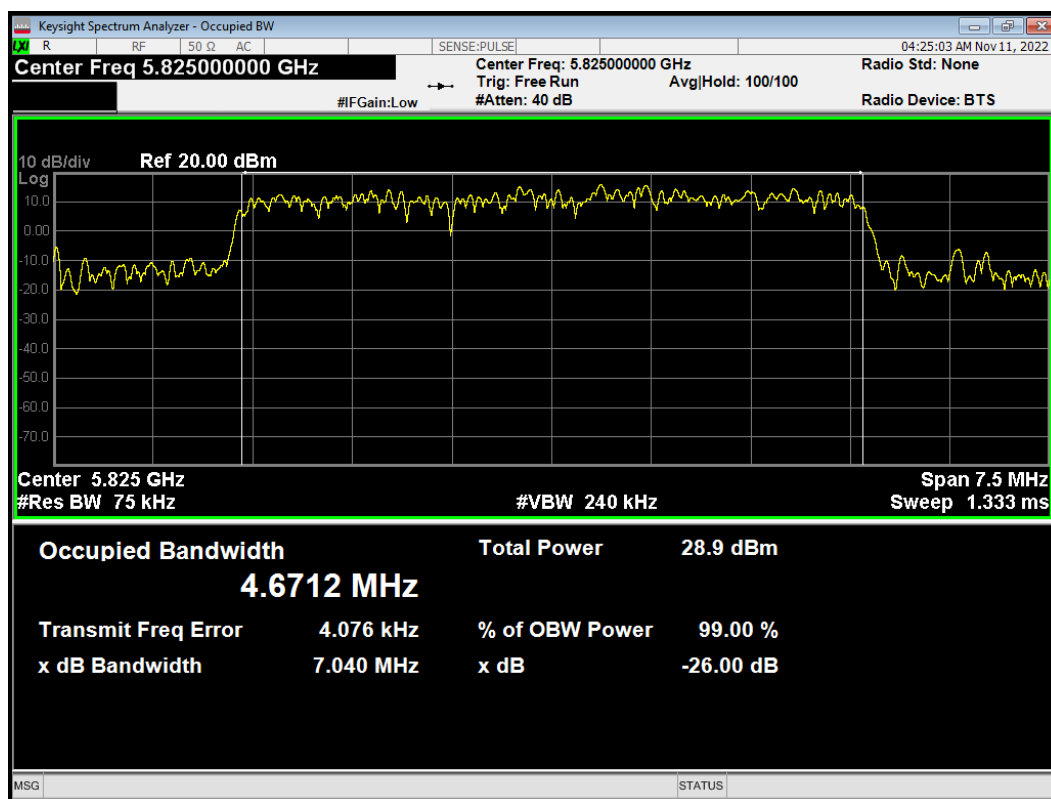
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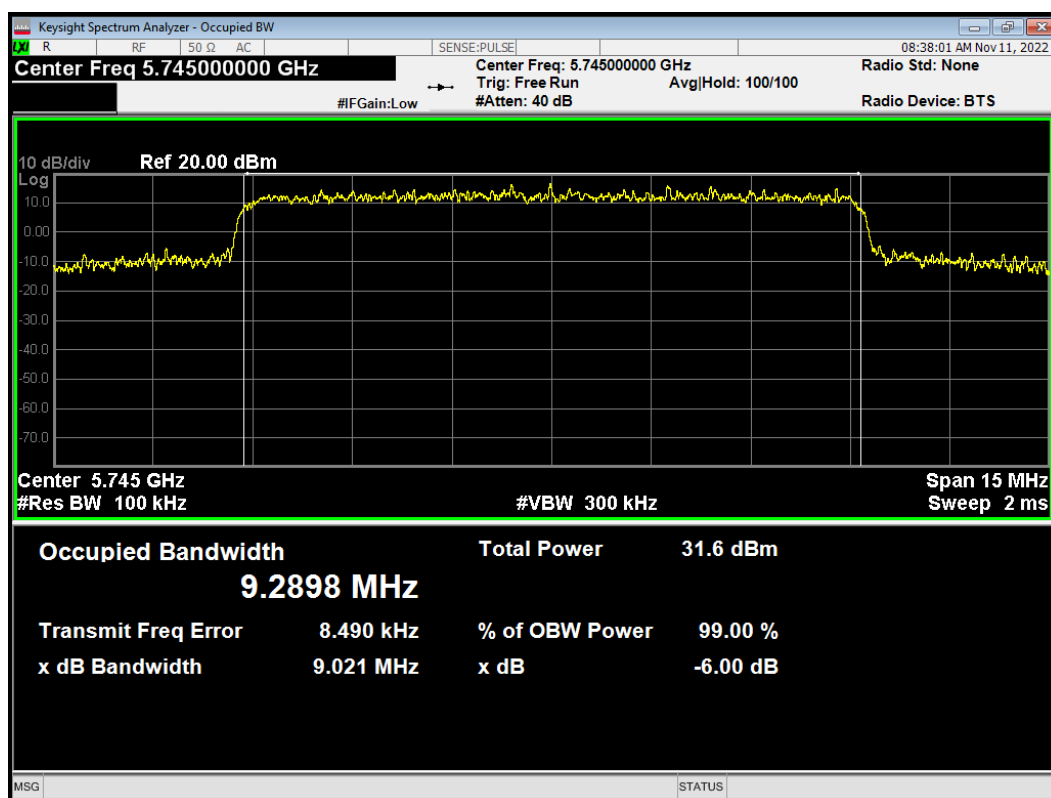


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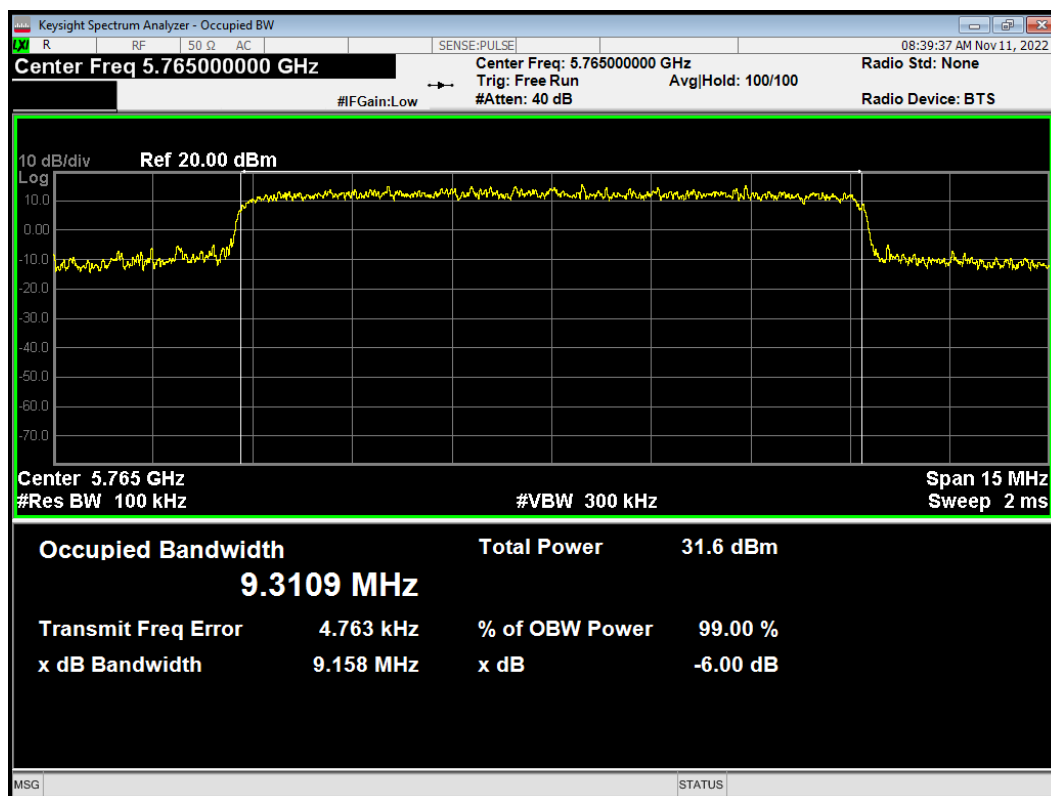


Minimum 6 dB bandwidth

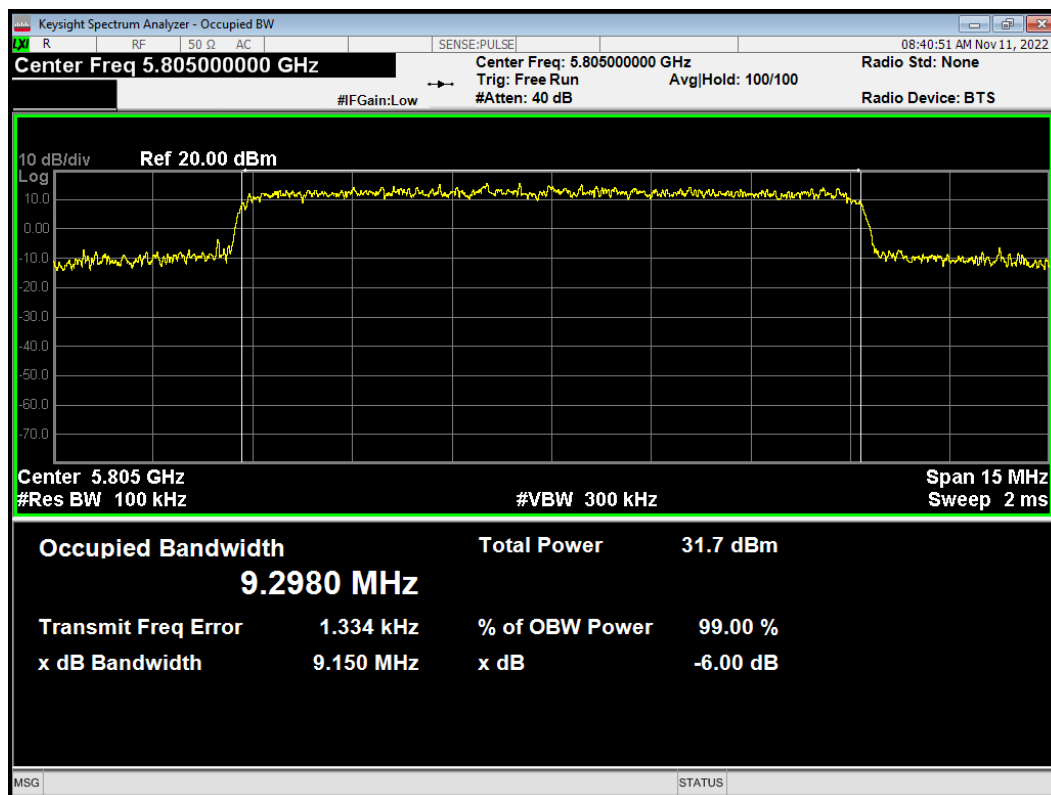
-6dB Bandwidth slot 10M 5745MHz



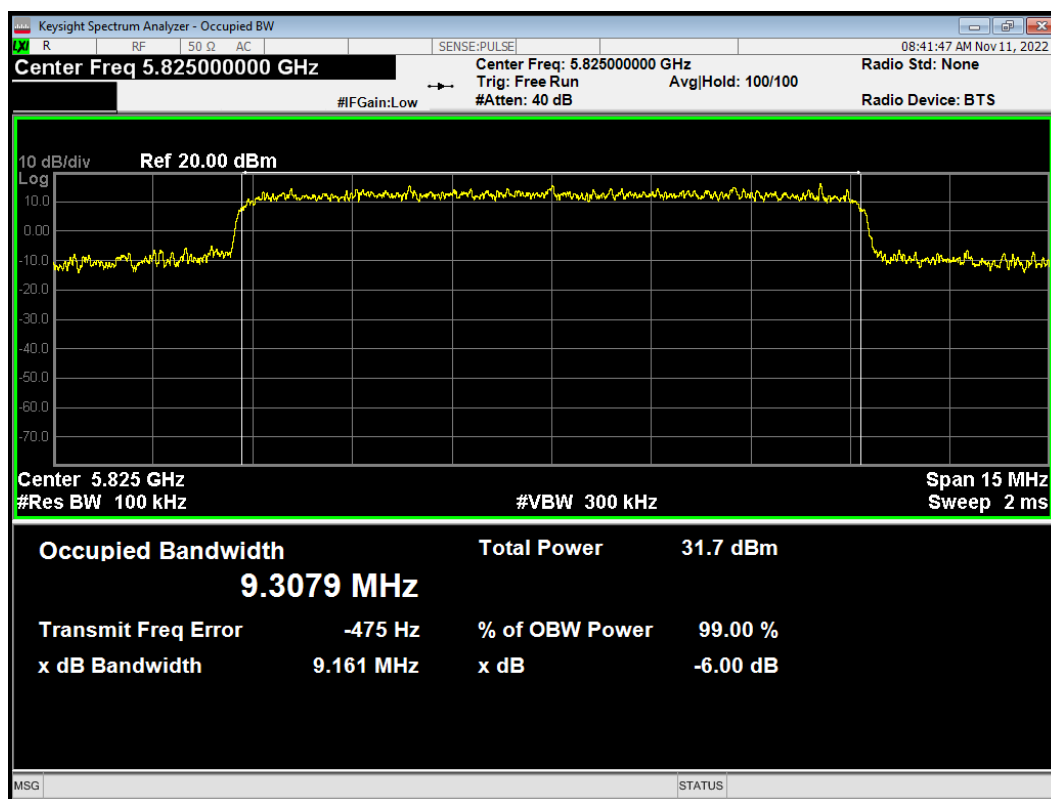
-6dB Bandwidth slot 10M 5765MHz



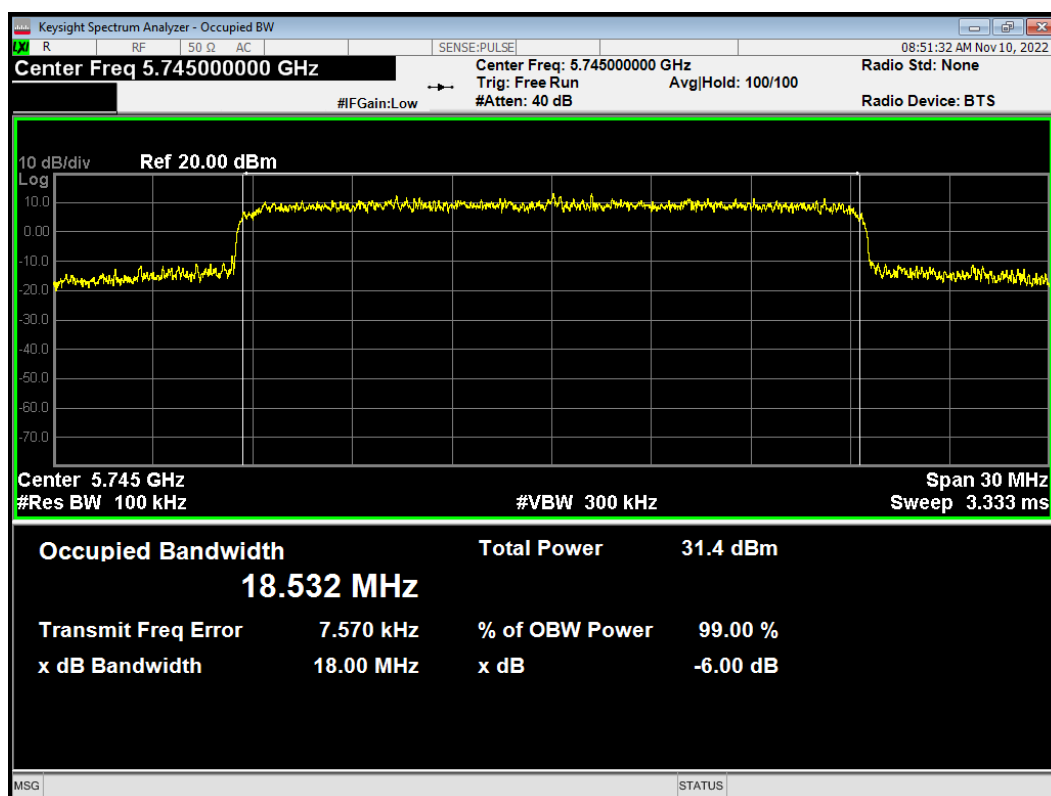
-6dB Bandwidth slot 10M 5805MHz



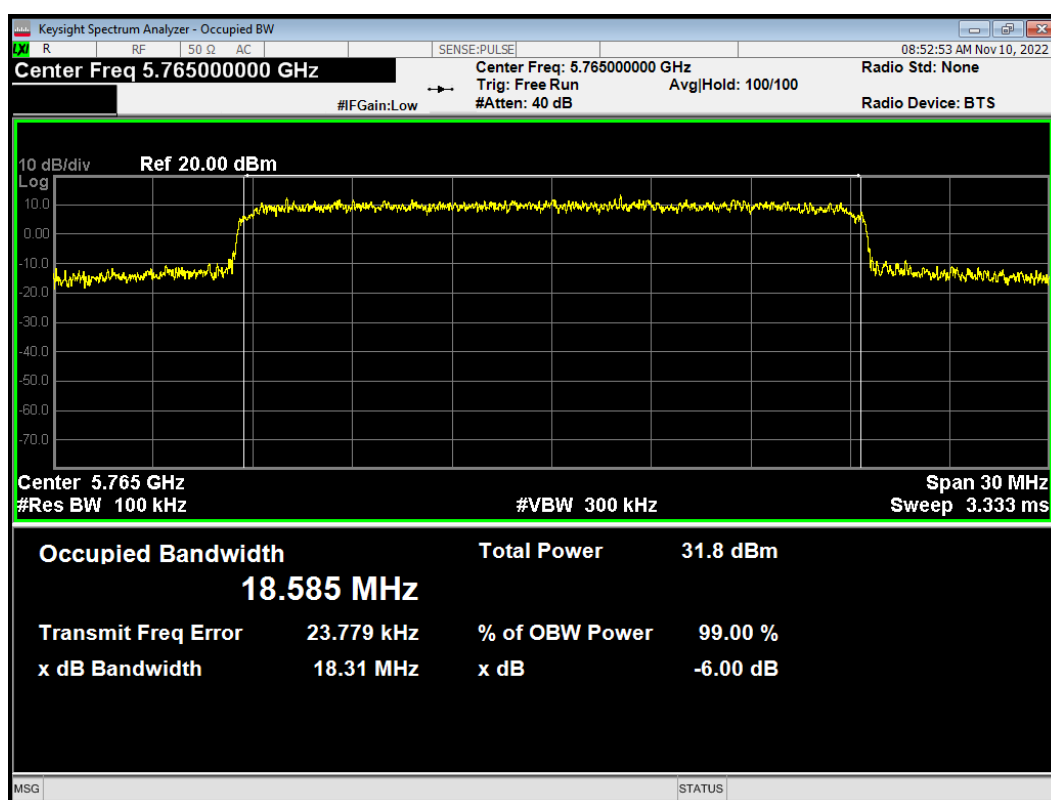
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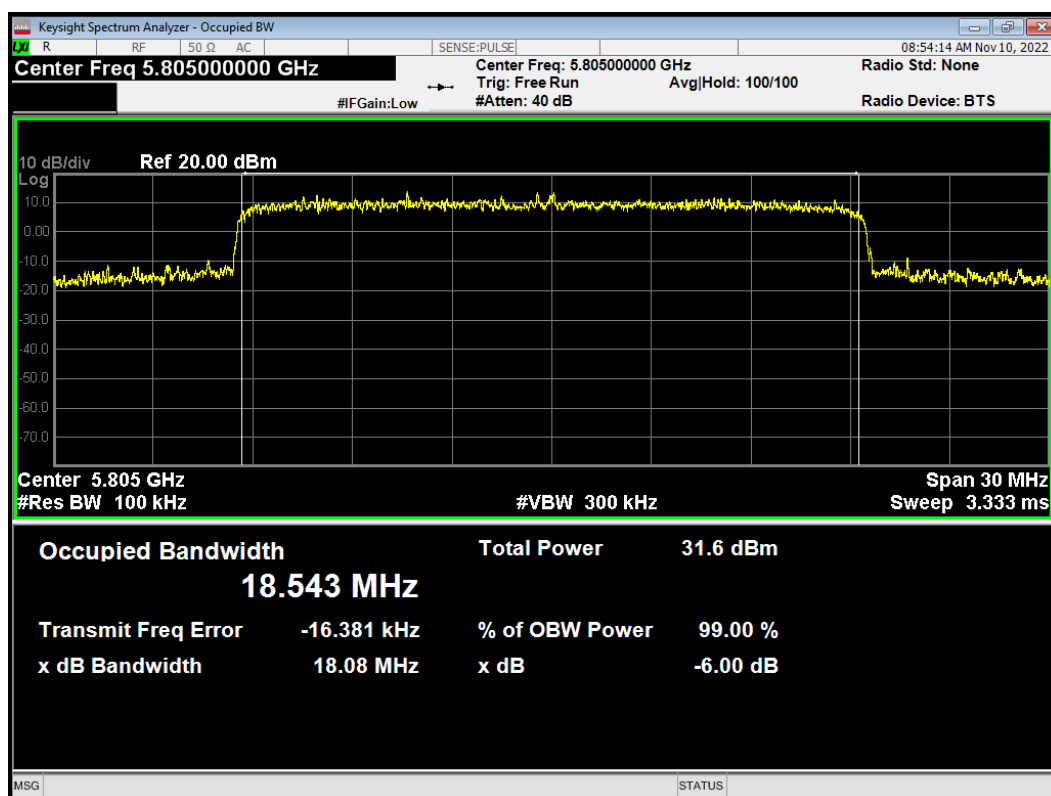
-6dB Bandwidth slot 20M 5745MHz



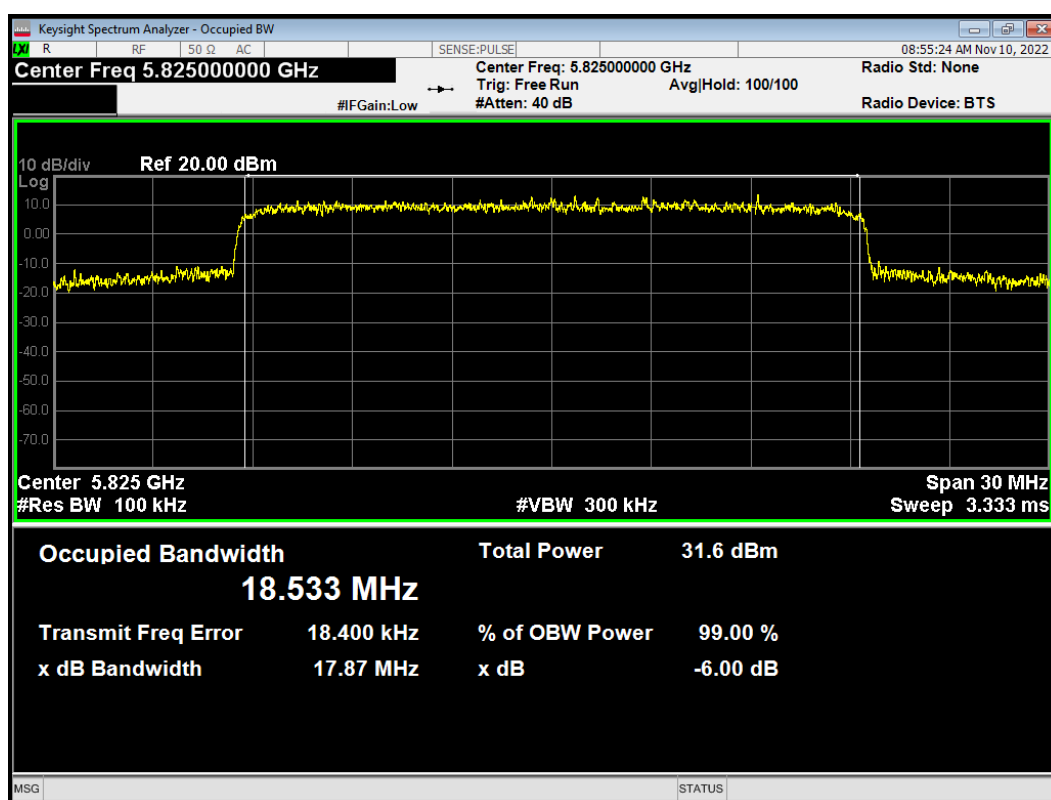
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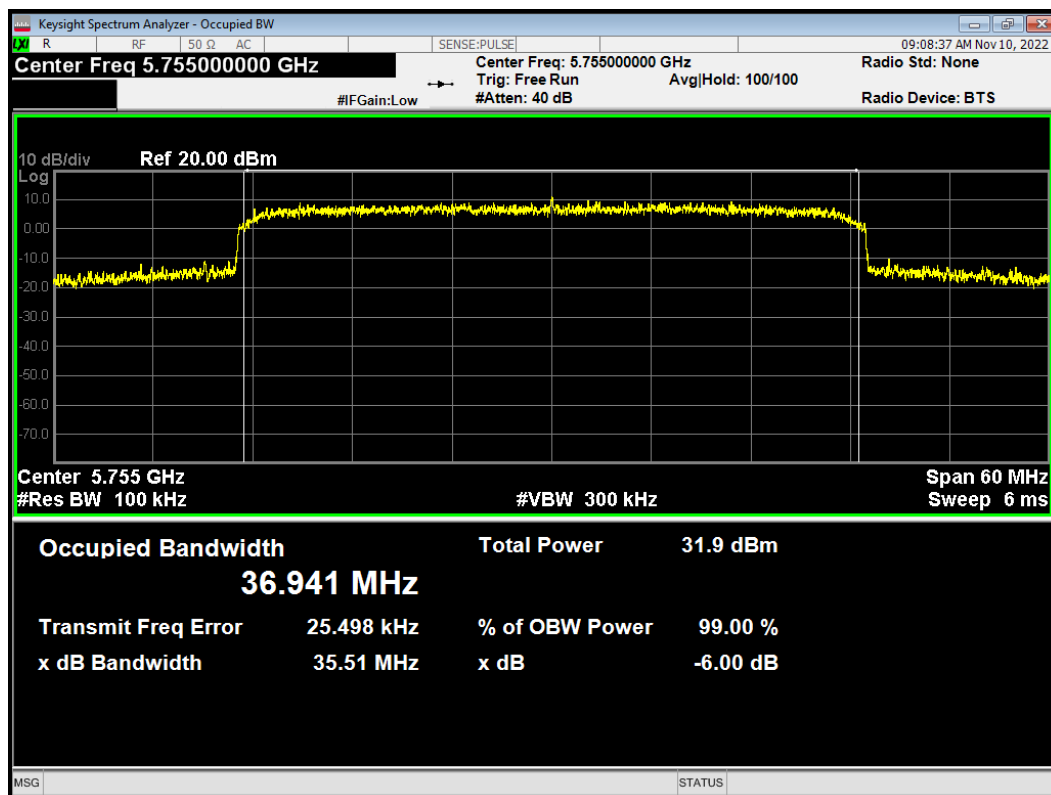
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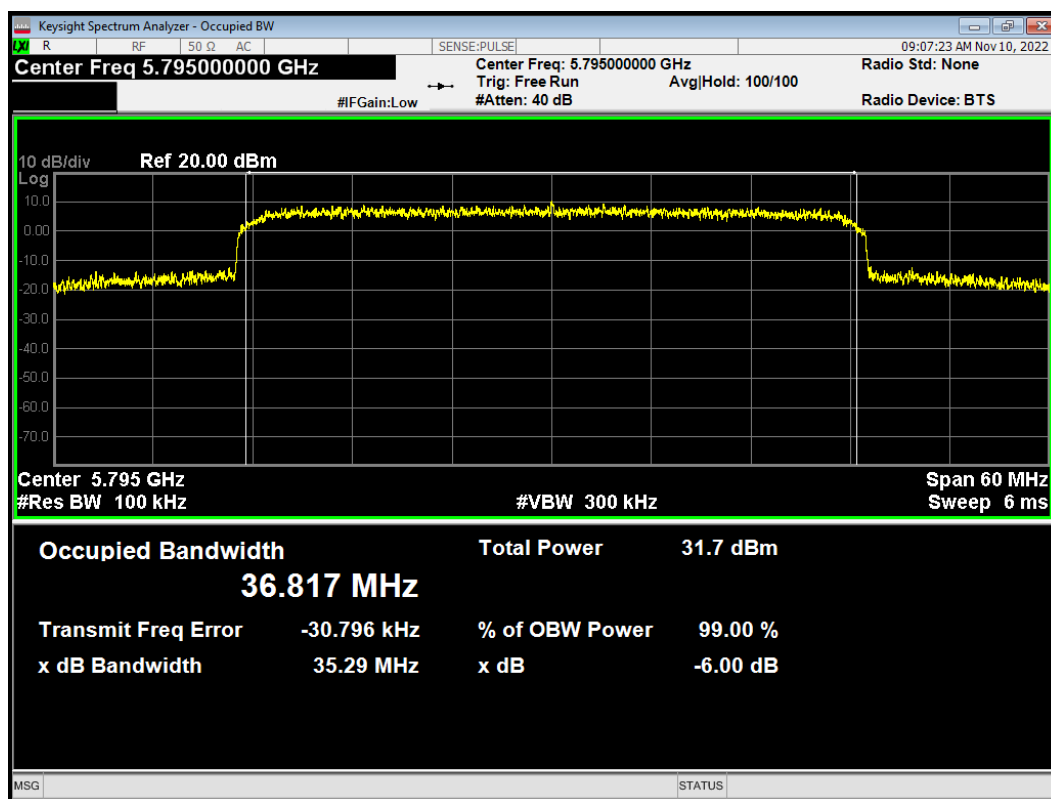
-6dB Bandwidth slot 20M 5825MHz



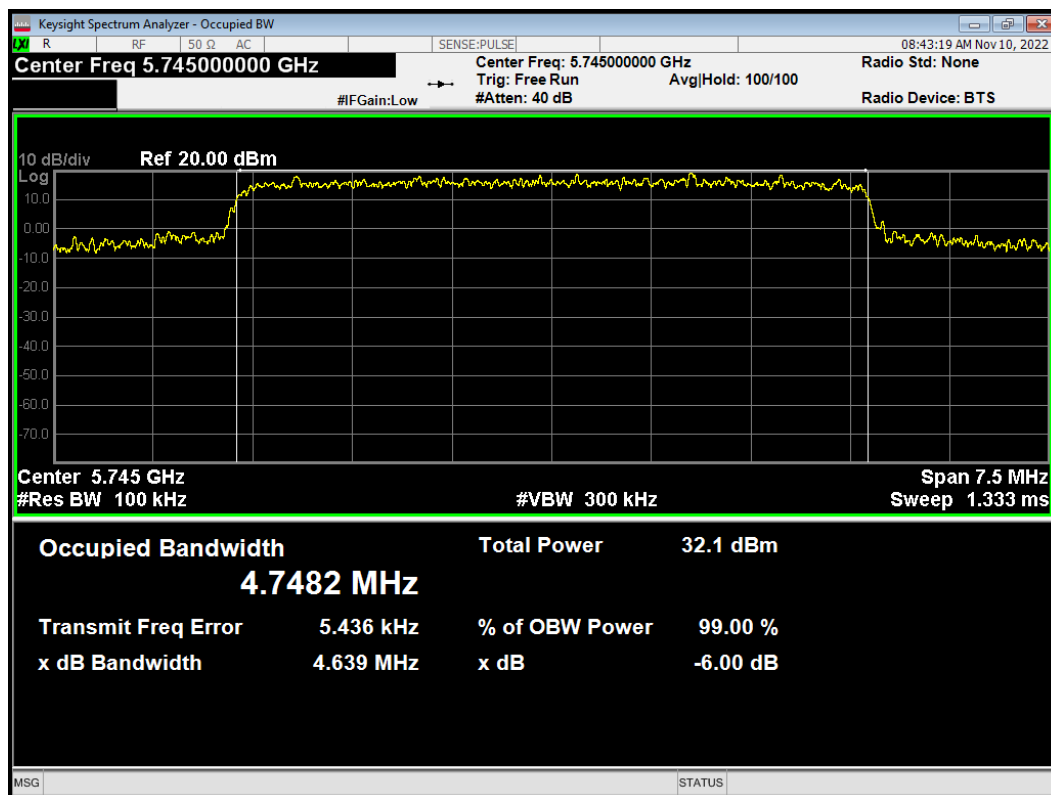
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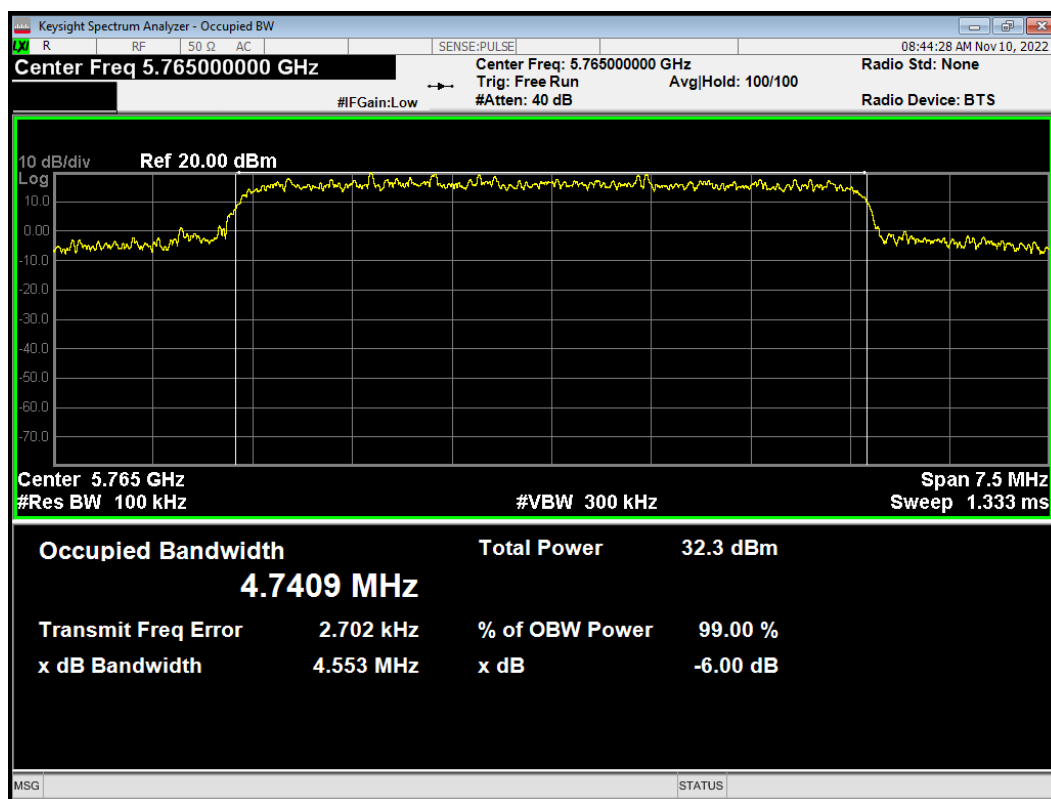
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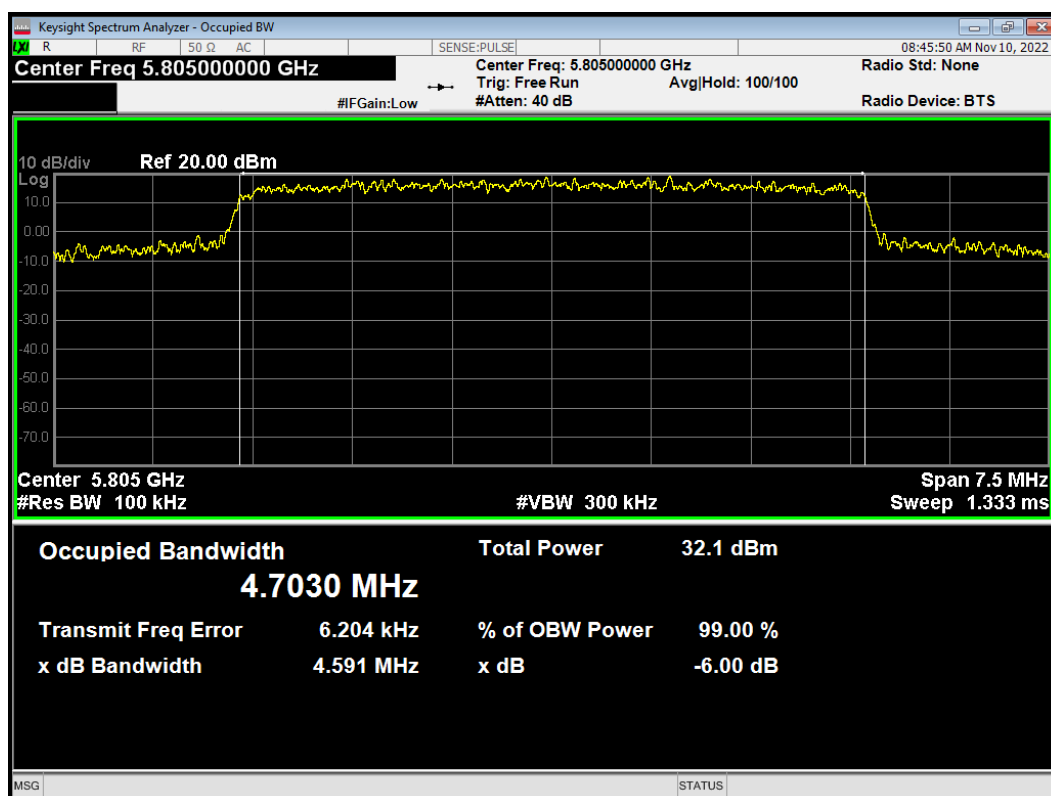
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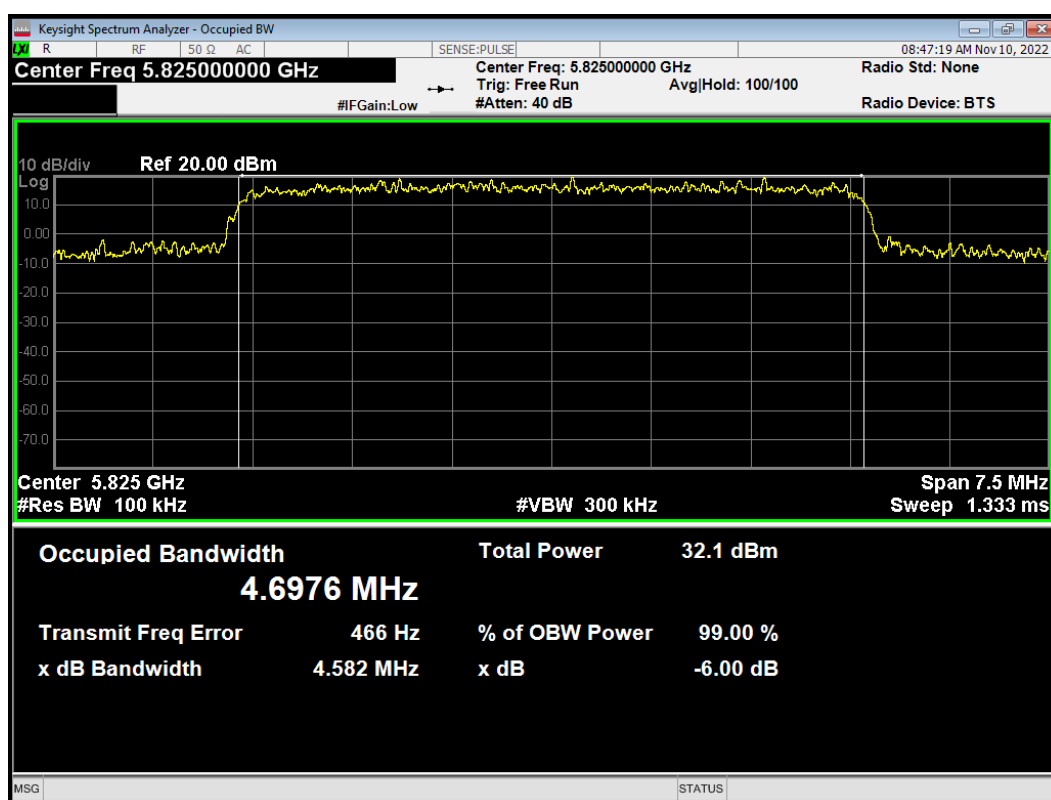
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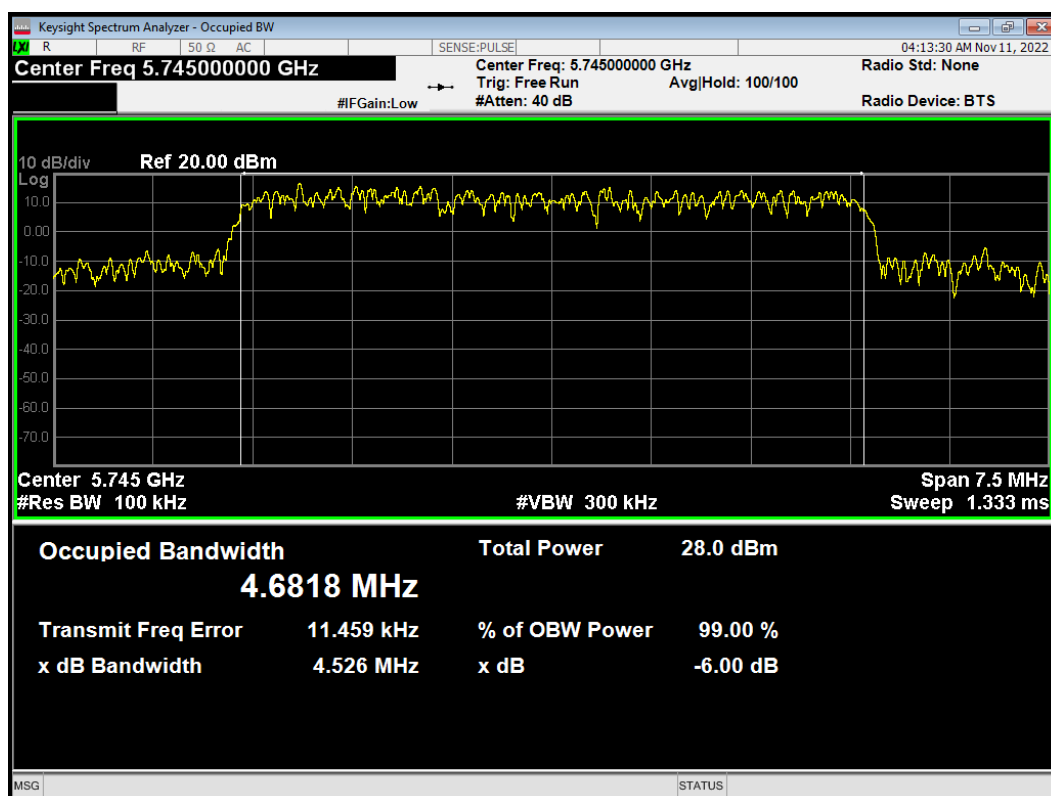
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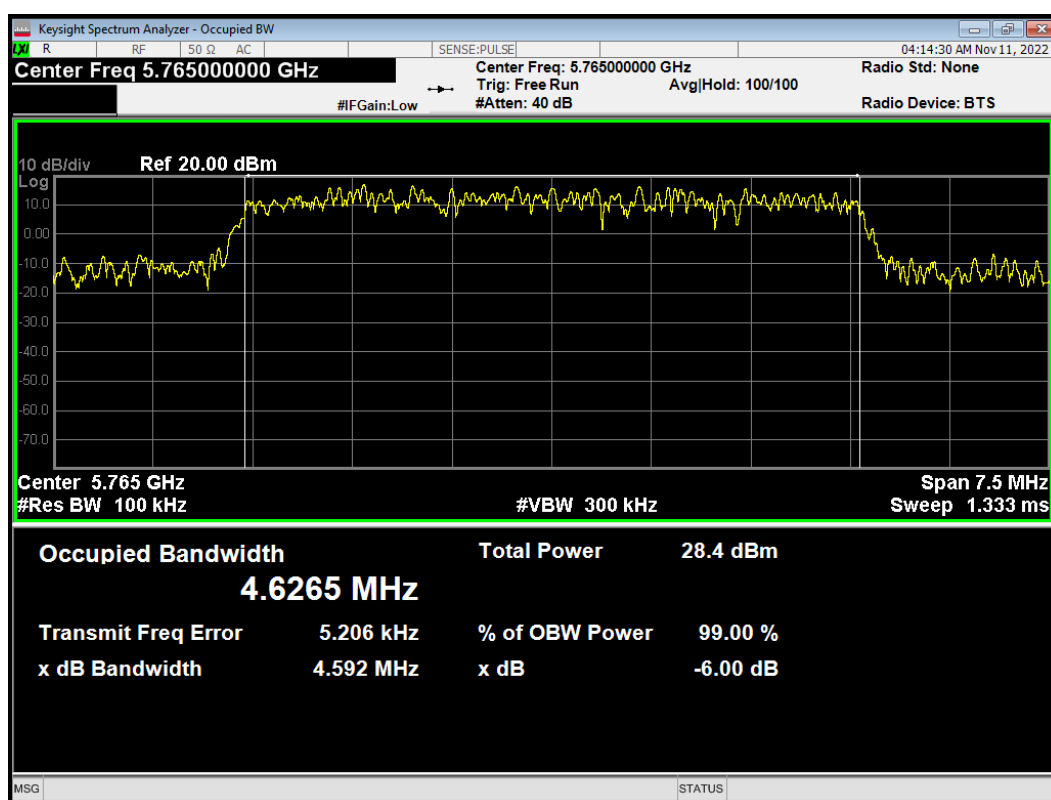
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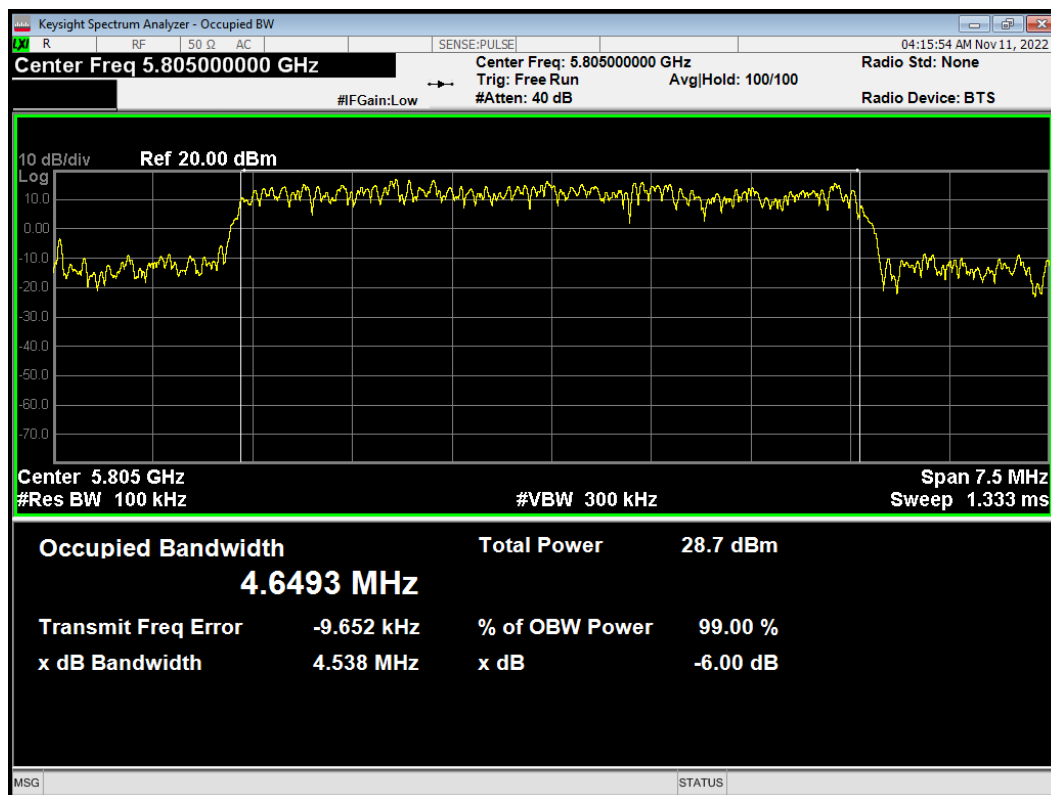
-6dB Bandwidth BR 5M 5745MHz



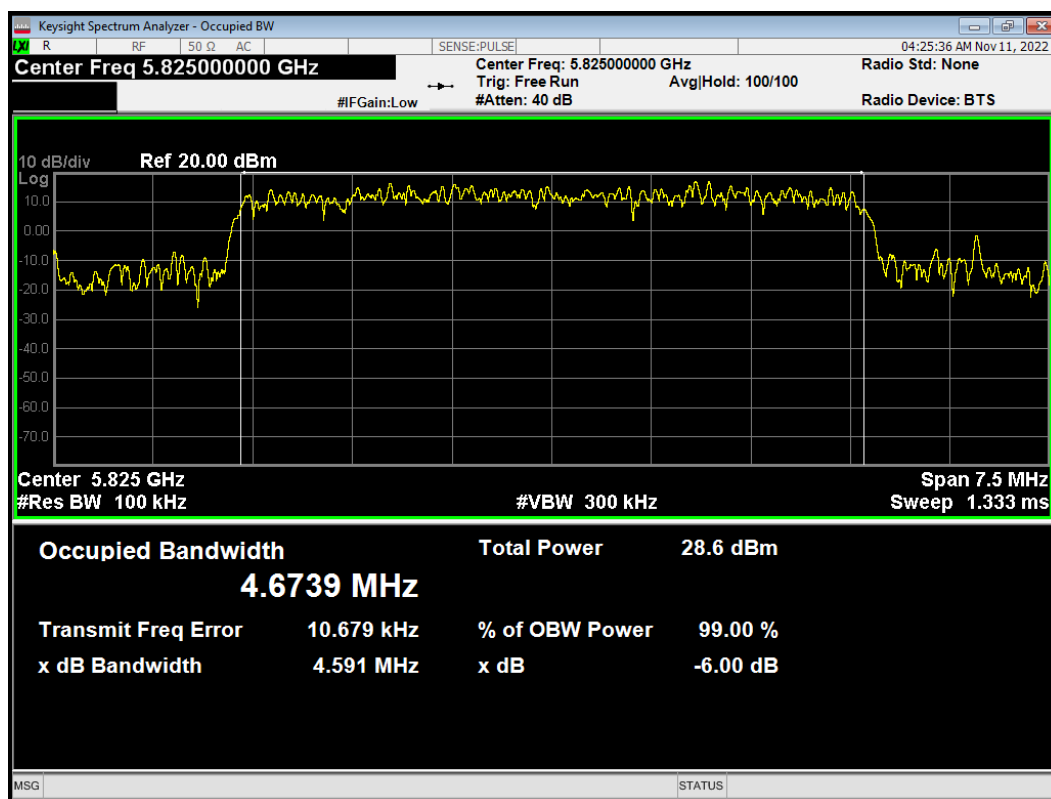
-6dB Bandwidth BR 5M 5765MHz



-6dB Bandwidth BR 5M 5805MHz



-6dB Bandwidth BR 5M 5825MHz



5.2. Average Power Output

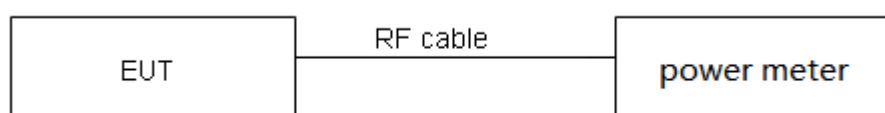
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

Test Setup



Limits

Rule FCC Part 15.407(a)(1)(2)(3)

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude

the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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.

Test Results

Mode	Duty cycle	Duty cycle correction Factor(dB)
5G Slot 20MHz	0.93	0.30
5G Slot 40MHz	0.88	0.57
5G Slot 5MHz	0.93	0.30
5G Slot 10MHz	0.93	0.30
5G BR 5MHz	0.08	10.94
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Network Standards	Carrier frequency (MHz)	TP Set	Carrier frequency (MHz)	TP Set
5G Slot 20MHz	5180	20	5745	25
	5200	25	5765	25
	5220	25	5805	25
	5240	25	5825	25
5G Slot 40MHz	5190	13	5755	25
	5230	25	5795	25
5G Slot 5MHz	5180	18	5745	25
	5200	18	5765	25
	5220	18	5805	25
	5240	18	5825	25
5G Slot 10MHz	5180	22	5745	25
	5200	22	5765	25
	5220	22	5805	25
	5240	22	5825	25
5G BR 5MHz	5180	17	5745	25
	5200	17	5765	25
	5220	17	5805	25
	5240	17	5825	25

U-NII-1

Test Mode	Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
5G Slot 20MHz	5180	21.46	21.76	30	PASS
	5200	26.49	26.79	30	PASS
	5220	26.14	26.45	30	PASS
	5240	26.42	26.73	30	PASS
5G Slot 40MHz	5190	13.55	14.11	30	PASS
	5230	26.38	26.95	30	PASS
5G Slot 5MHz	5180	20.12	20.42	30	PASS
	5200	20.48	20.78	30	PASS
	5220	20.49	20.79	30	PASS
	5240	20.60	20.91	30	PASS
5G Slot 10MHz	5180	24.27	24.58	30	PASS
	5200	24.31	24.62	30	PASS
	5220	24.13	24.43	30	PASS
	5240	24.38	24.68	30	PASS
5G BR 5MHz	5180	5.59	16.52	30	PASS
	5200	7.00	17.94	30	PASS
	5220	6.17	17.11	30	PASS
	5240	6.81	17.75	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-3

Test Mode	Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
5G Slot 20MHz	5745	25.55	25.85	30	PASS
	5765	25.68	25.98	30	PASS
	5805	24.83	25.14	30	PASS
	5825	25.57	25.87	30	PASS
5G Slot 40MHz	5755	25.69	26.26	30	PASS
	5795	25.45	26.02	30	PASS
5G Slot 5MHz	5745	26.50	26.80	30	PASS
	5765	26.10	26.41	30	PASS
	5805	26.49	26.79	30	PASS
	5825	26.35	26.66	30	PASS
5G Slot 10MHz	5745	25.64	25.95	30	PASS
	5765	25.66	25.96	30	PASS
	5805	25.91	26.21	30	PASS
	5825	26.03	26.33	30	PASS
5G BR 5MHz	5745	14.16	25.09	30	PASS
	5765	14.80	25.74	30	PASS
	5805	15.12	26.06	30	PASS
	5825	14.19	25.12	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
- c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15°C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Measurement Uncertainty

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

Test Results

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
9	-20	5199.992818	5199.985193	5199.984268	5199.974519
9	-10	5199.997207	5199.977114	5199.978875	5199.970736
9	0	5199.994127	5199.976517	5199.970091	5199.965459
9	10	5199.986106	5199.970083	5199.969770	5199.964586
9	20	5199.981405	5199.962021	5199.968865	5199.964514
9	30	5199.972745	5199.958356	5199.963090	5199.956635
9	40	5199.969841	5199.955940	5199.956108	5199.950771
9	50	5199.962004	5199.948978	5199.951330	5199.941506
8	20	5199.958718	5199.943511	5199.950829	5199.935192
18	20	5199.957169	5199.939725	5199.942007	5199.930260
Max. ΔMHz		-0.042831	-0.060275	-0.057993	-0.069740
PPM		-8.236793	-11.591417	-11.152514	-13.411495

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
9	-20	5784.993120	5784.989291	5784.979995	5784.974402
9	-10	5784.987718	5784.985939	5784.971484	5784.970908
9	0	5784.979835	5784.976993	5784.963021	5784.970580
9	10	5784.973600	5784.970877	5784.954759	5784.961326
9	20	5784.963647	5784.970114	5784.947219	5784.957118
9	30	5784.956802	5784.966806	5784.937338	5784.955117
9	40	5784.949621	5784.957657	5784.931783	5784.946396
9	50	5784.949341	5784.956923	5784.930872	5784.942467
8	20	5784.944921	5784.950913	5784.923151	5784.942254
18	20	5784.939339	5784.945504	5784.920807	5784.941048
Max. ΔMHz		-0.060661	-0.054496	-0.079193	-0.058952
PPM		-10.485945	-9.420167	-13.689317	-10.190578

5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

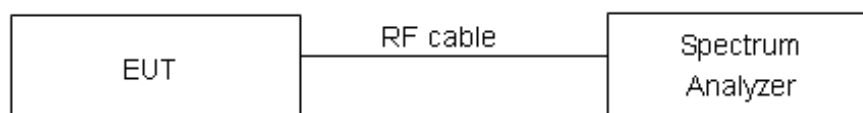
The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1MHz, VBW =3MHz for the band 5.150-5.250GHz.

Set RBW = 470kHz, VBW =1.5MHz for the band 5.725-5.850GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule FCC Part 15.407(a)(1)/ Part 15.407(a)(2) / Part 15.407(a)(3)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the

amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/MHz	Limits
5150-5250	17dBm/MHz
5725-5850	30dBm/500kHz

Measurement Uncertainty

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

Test Results:

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-1

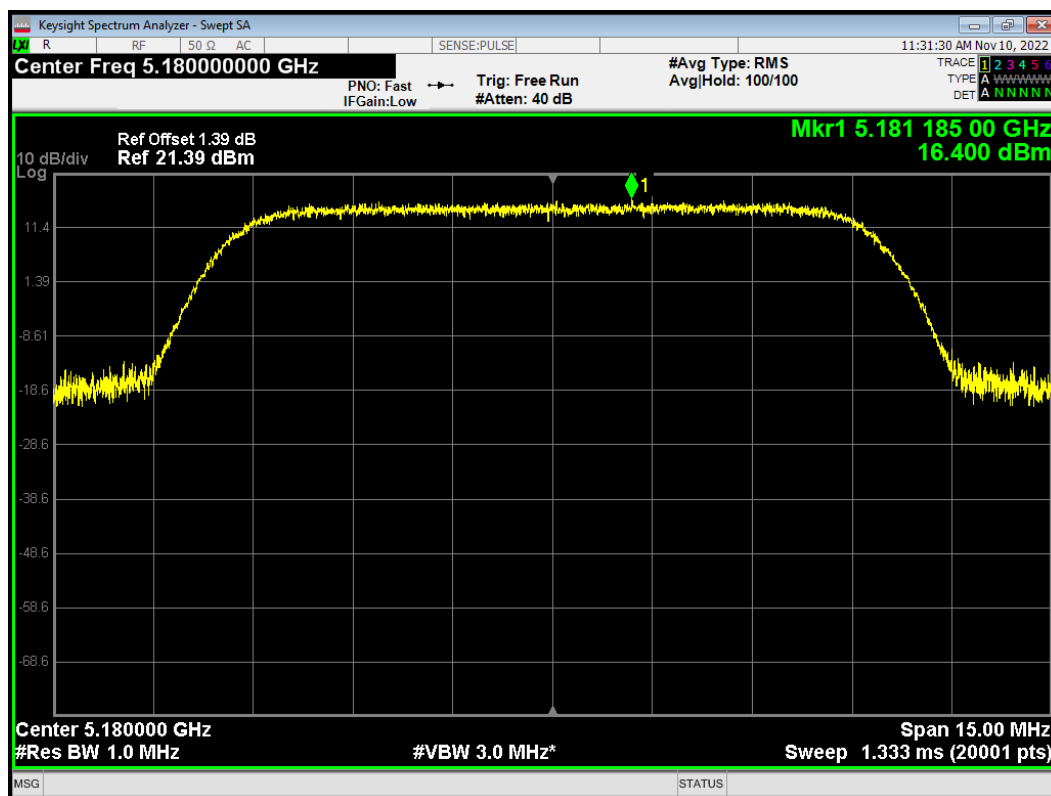
Mode	Carrier frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
5G Slot 20MHz	5180	9.98	10.28	17	PASS
	5200	16.12	16.42	17	PASS
	5220	15.68	15.98	17	PASS
	5240	16.00	16.30	17	PASS
5G Slot 40MHz	5190	0.01	0.58	17	PASS
	5230	12.68	13.25	17	PASS
5G Slot 5MHz	5180	15.71	16.01	17	PASS
	5200	15.66	15.96	17	PASS
	5220	16.11	16.41	17	PASS
	5240	15.93	16.23	17	PASS
5G Slot 10MHz	5180	16.40	16.70	17	PASS
	5200	16.31	16.61	17	PASS
	5220	16.19	16.49	17	PASS
	5240	16.42	16.72	17	PASS
5G BR 5MHz	5180	5.42	16.36	17	PASS
	5200	4.98	15.92	17	PASS
	5220	5.26	16.20	17	PASS
	5240	4.96	15.90	17	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-3

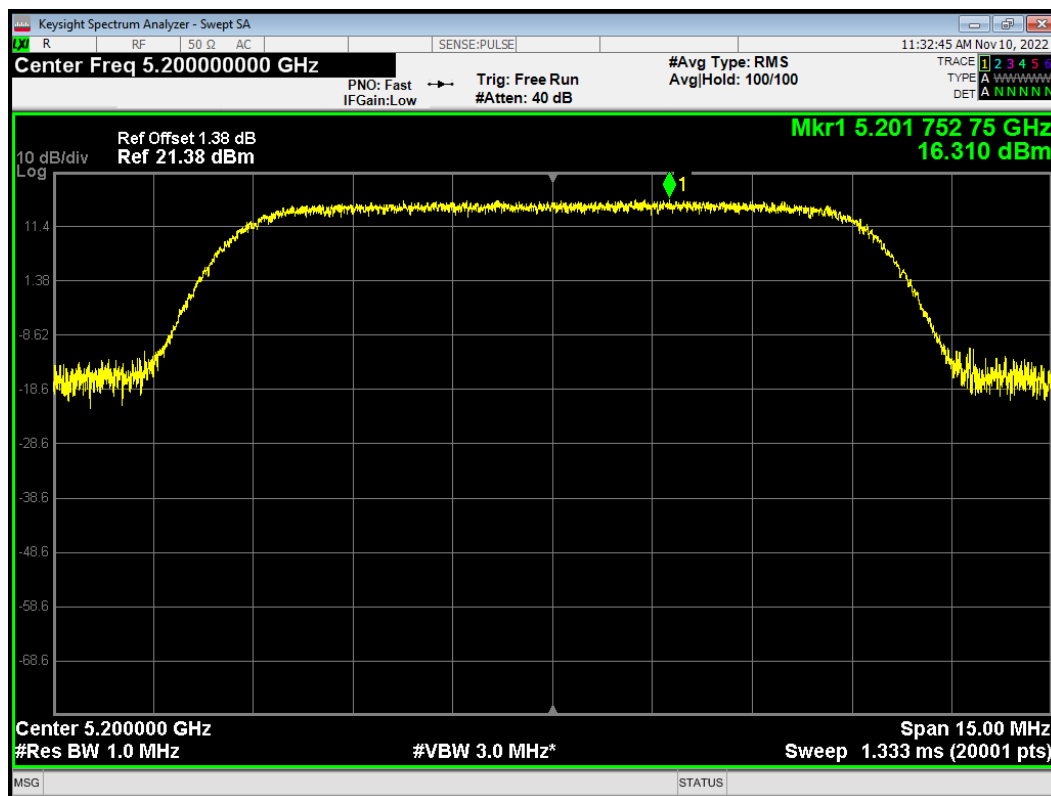
Mode	Carrier frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
5G Slot 20MHz	5745	11.09	11.66	30	PASS
	5765	12.00	12.57	30	PASS
	5805	11.23	11.80	30	PASS
	5825	11.49	12.06	30	PASS
5G Slot 40MHz	5755	9.45	10.29	30	PASS
	5795	8.51	9.35	30	PASS
5G Slot 5MHz	5745	18.22	18.79	30	PASS
	5765	18.09	18.66	30	PASS
	5805	17.99	18.56	30	PASS
	5825	17.95	18.52	30	PASS
5G Slot 10MHz	5745	14.38	14.95	30	PASS
	5765	14.74	15.31	30	PASS
	5805	14.73	15.30	30	PASS
	5825	15.23	15.80	30	PASS
5G BR 5MHz	5745	9.90	21.11	30	PASS
	5765	9.86	21.07	30	PASS
	5805	9.05	20.26	30	PASS
	5825	10.42	21.63	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

U-NII-1

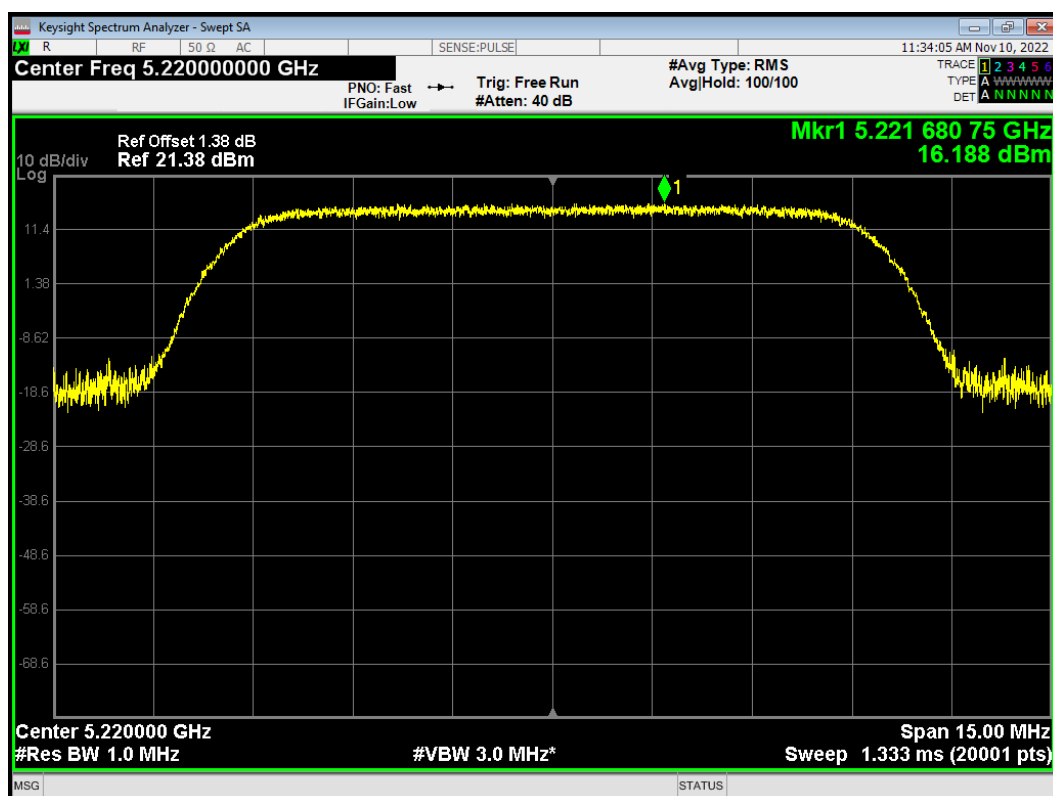
PSD slot 10M 5180MHz



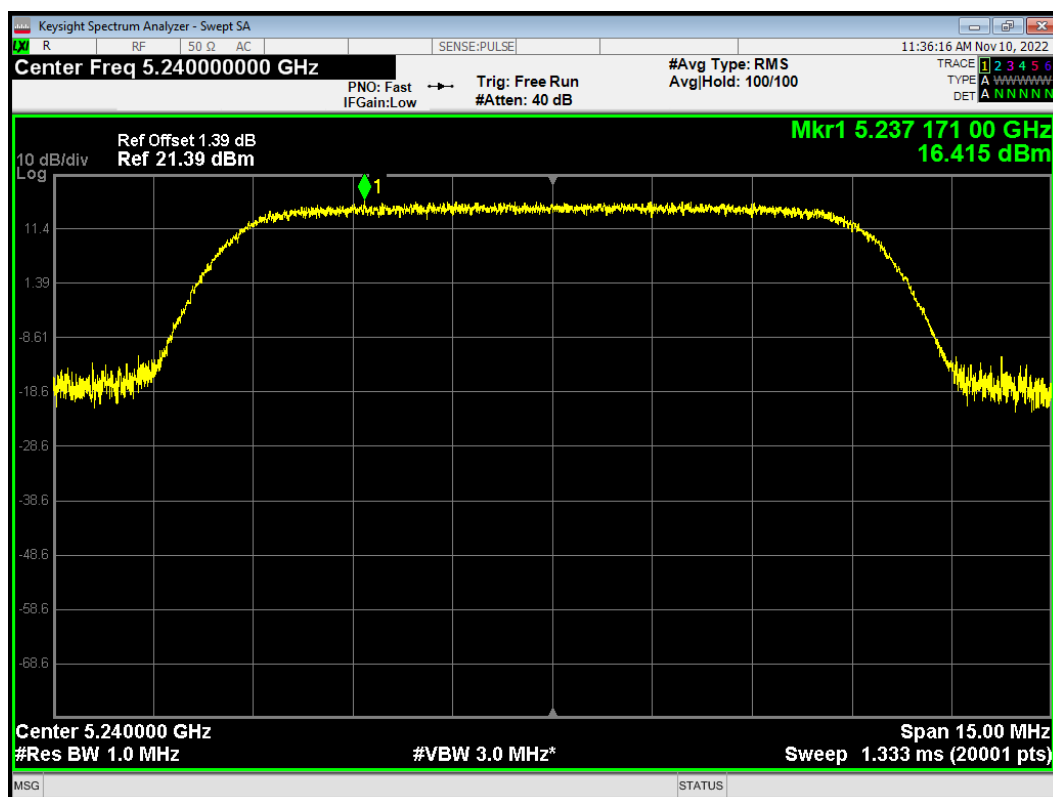
PSD slot 10M 5200MHz



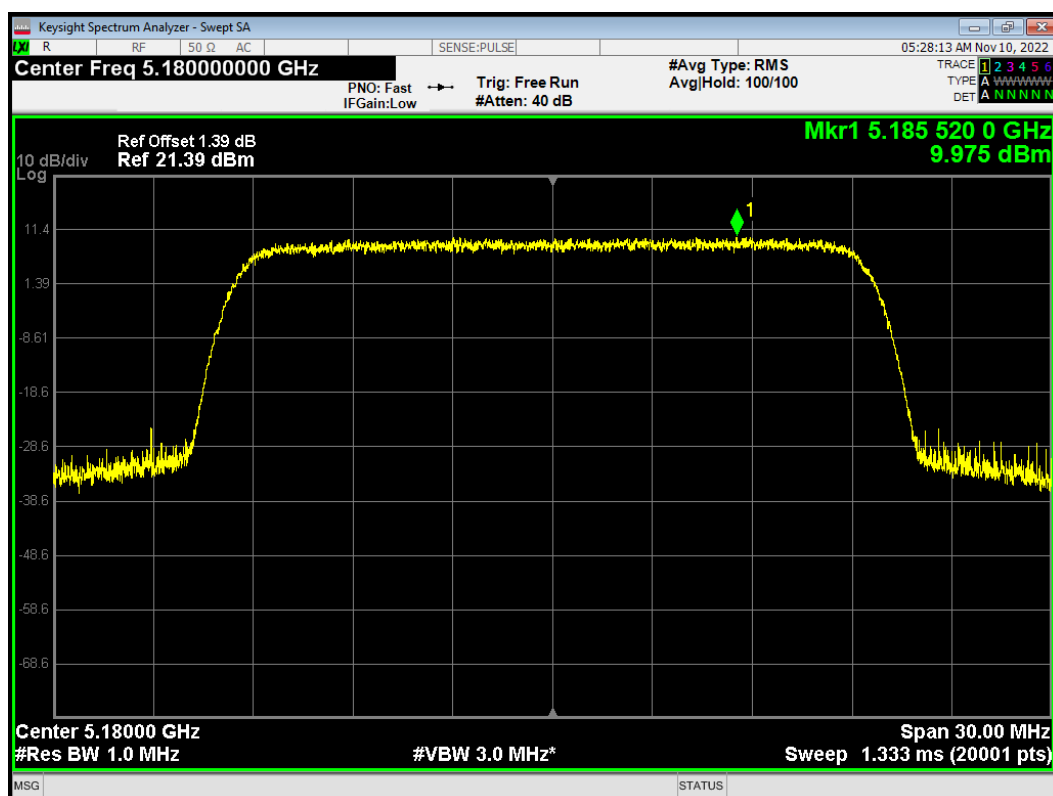
PSD slot 10M 5220MHz



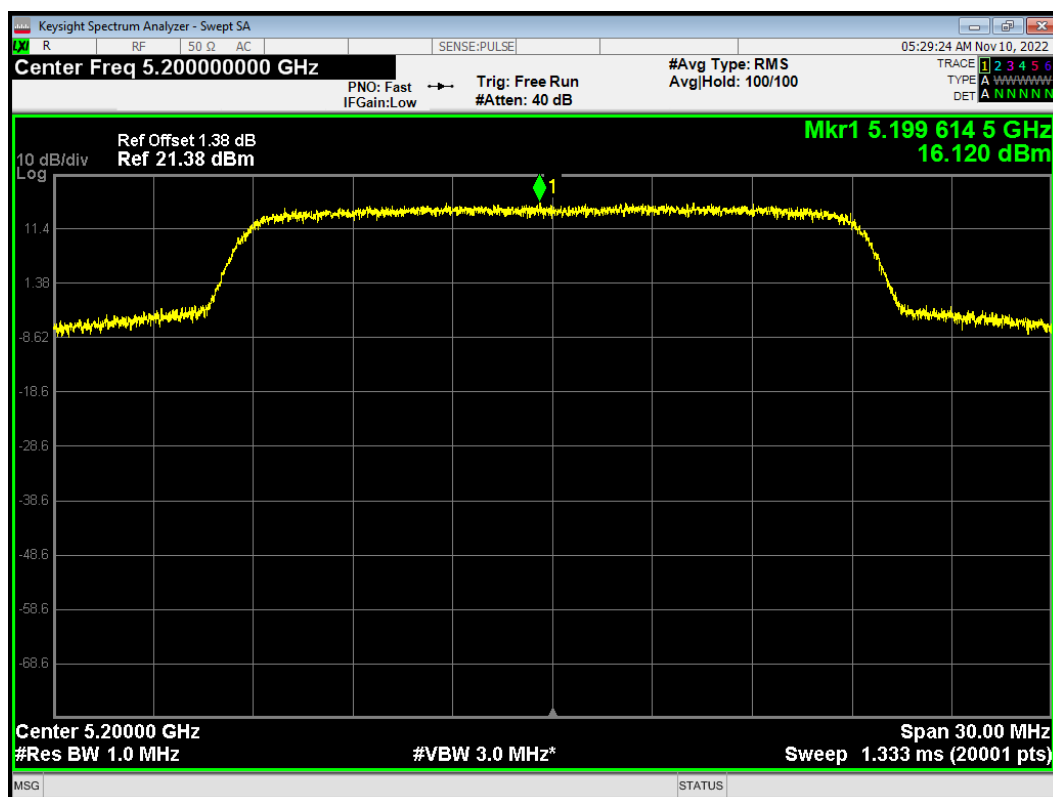
PSD slot 10M 5240MHz



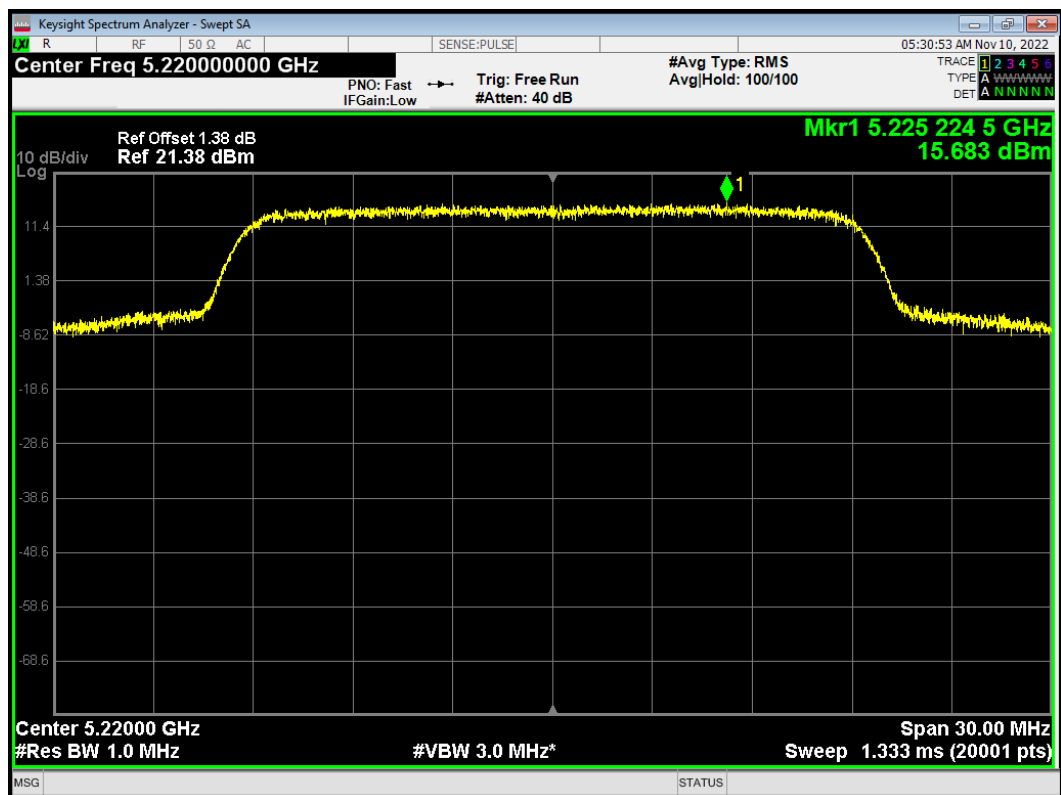
PSD slot 20M 5180MHz



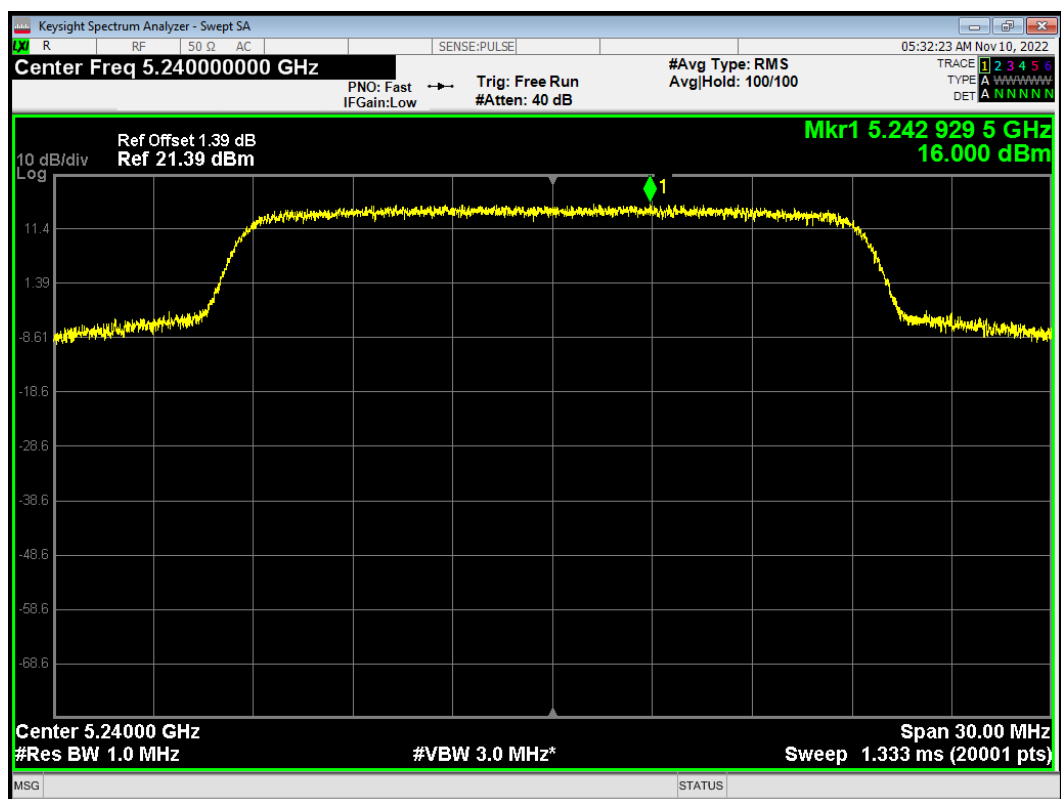
PSD slot 20M 5200MHz



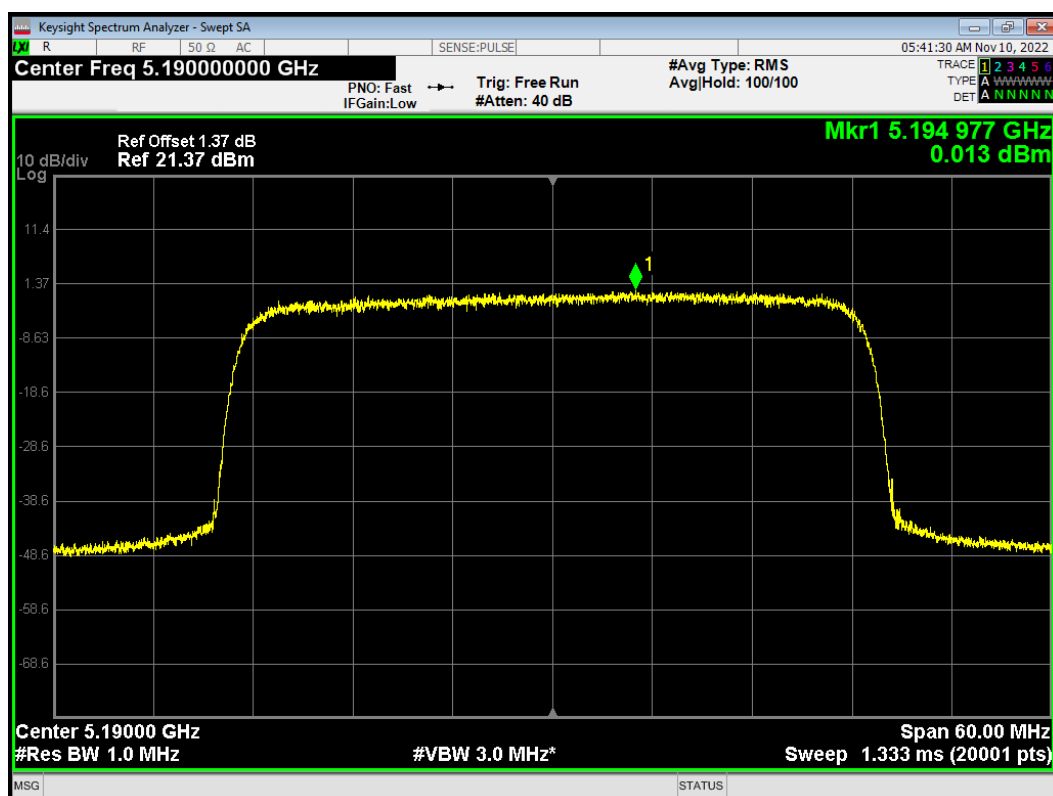
PSD slot 20M 5220MHz



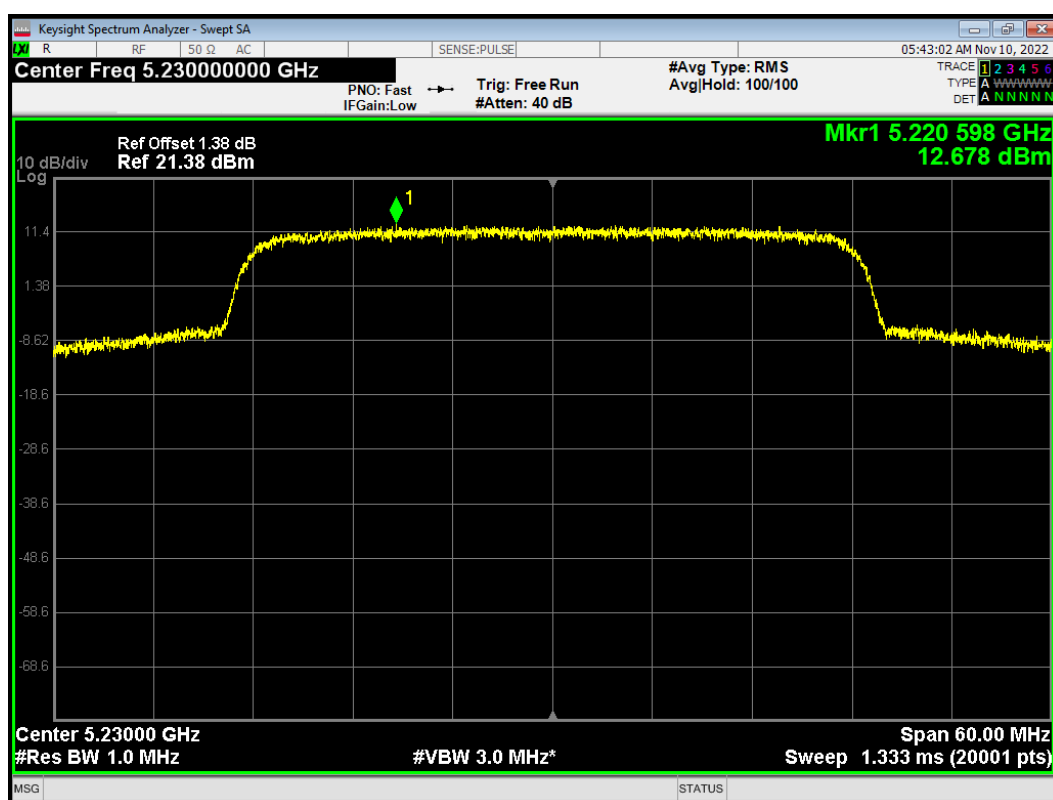
PSD slot 20M 5240MHz



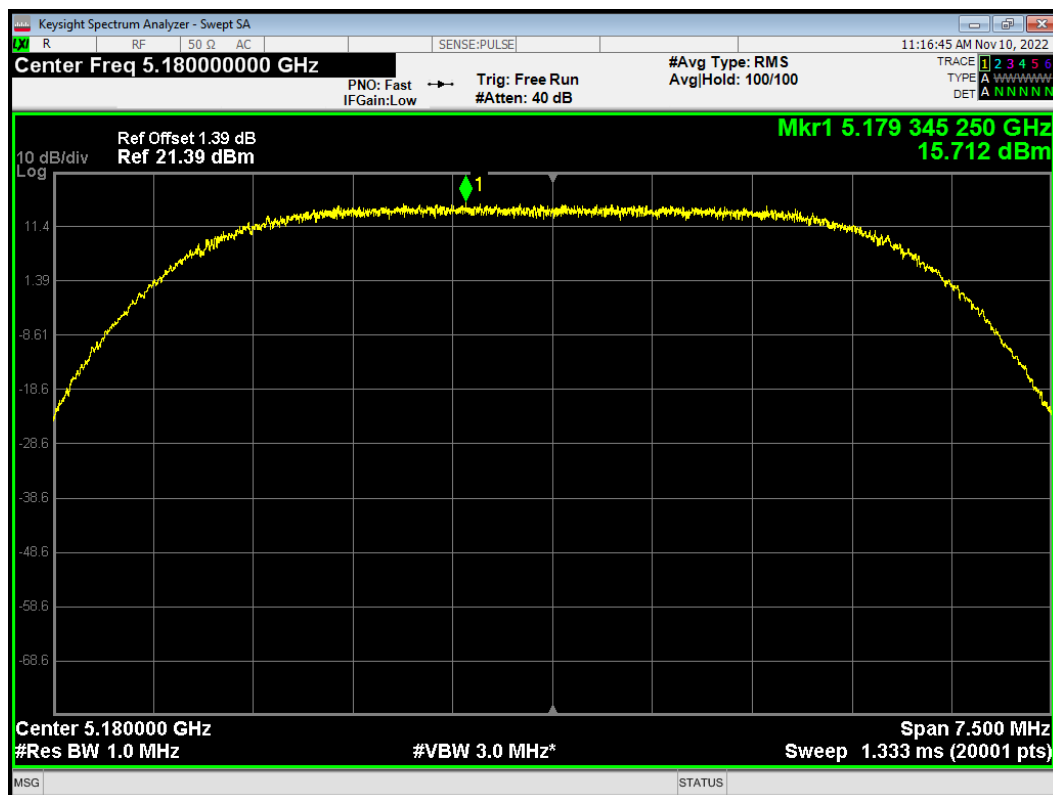
PSD slot 40M 5190MHz



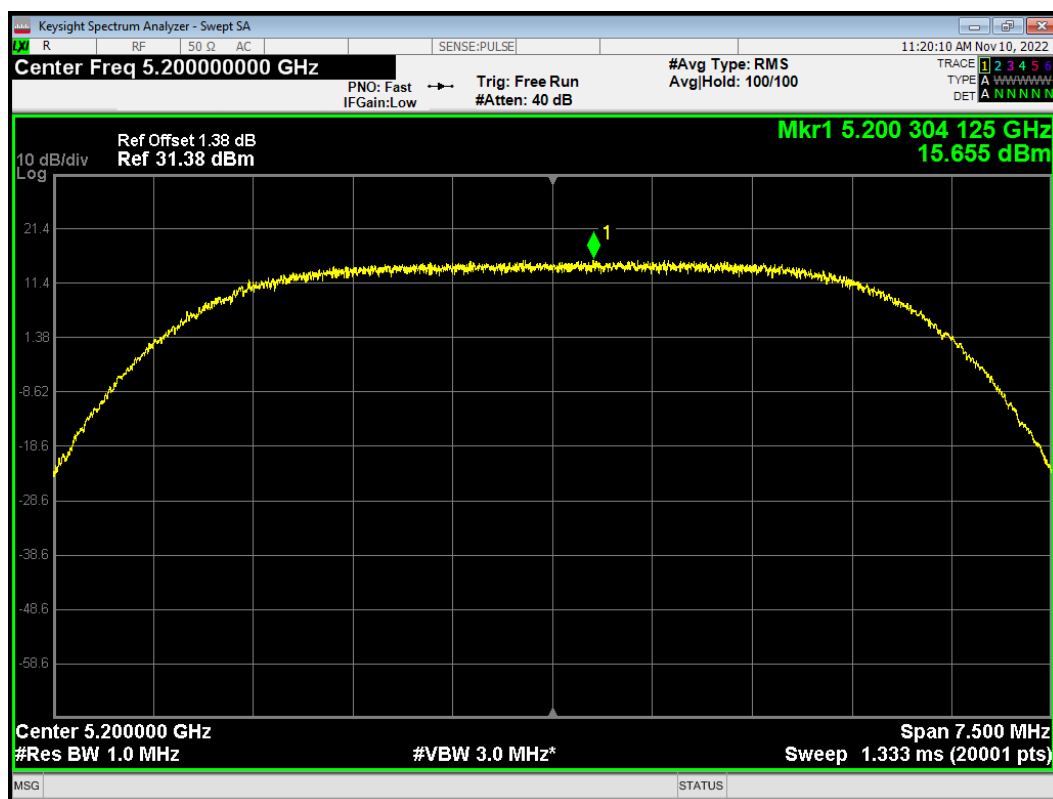
PSD slot 40M 5230MHz



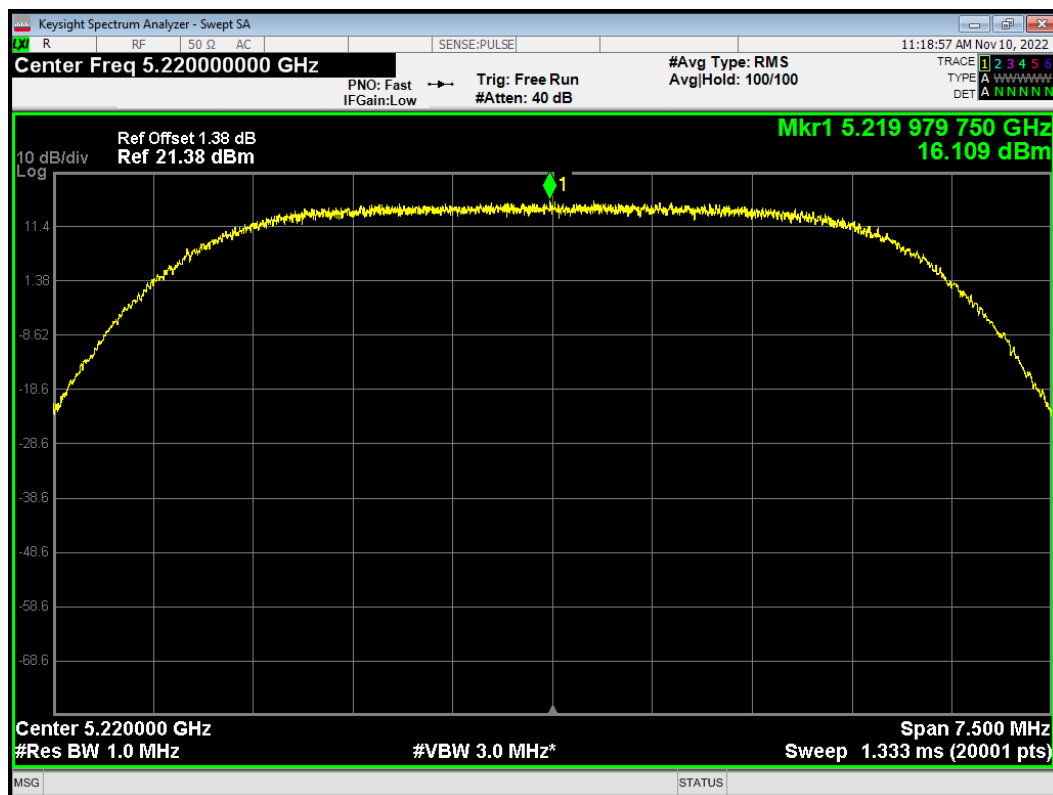
PSD slot 5M 5180MHz



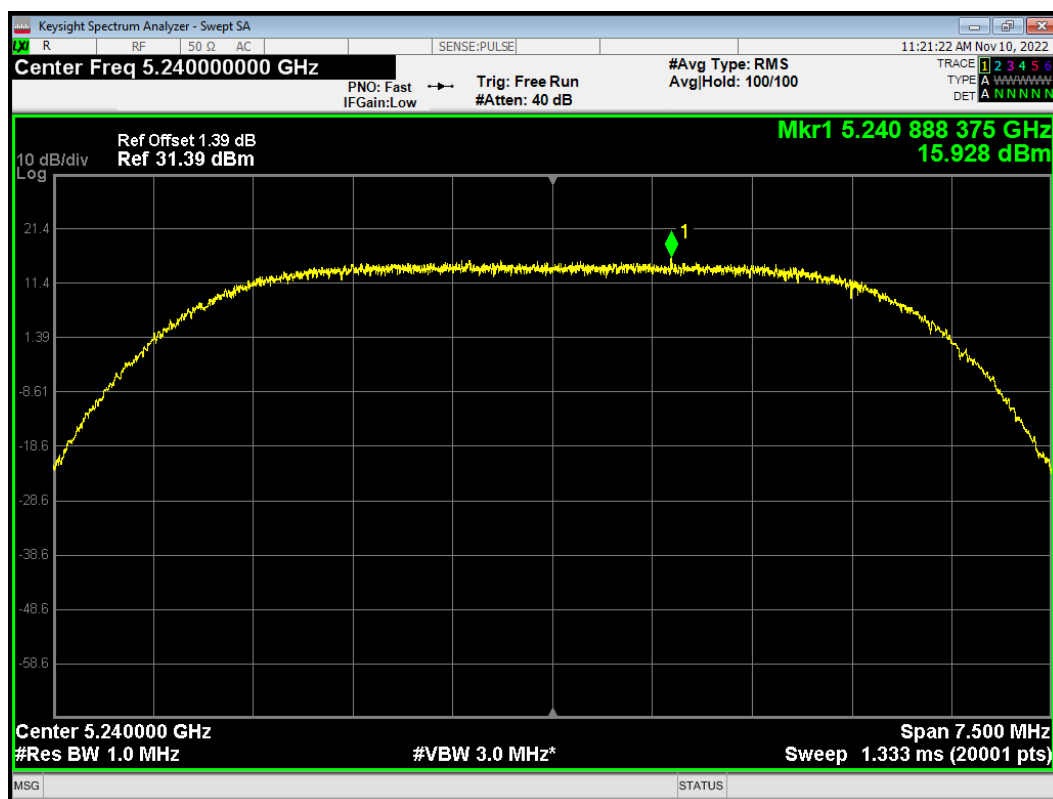
PSD slot 5M 5200MHz



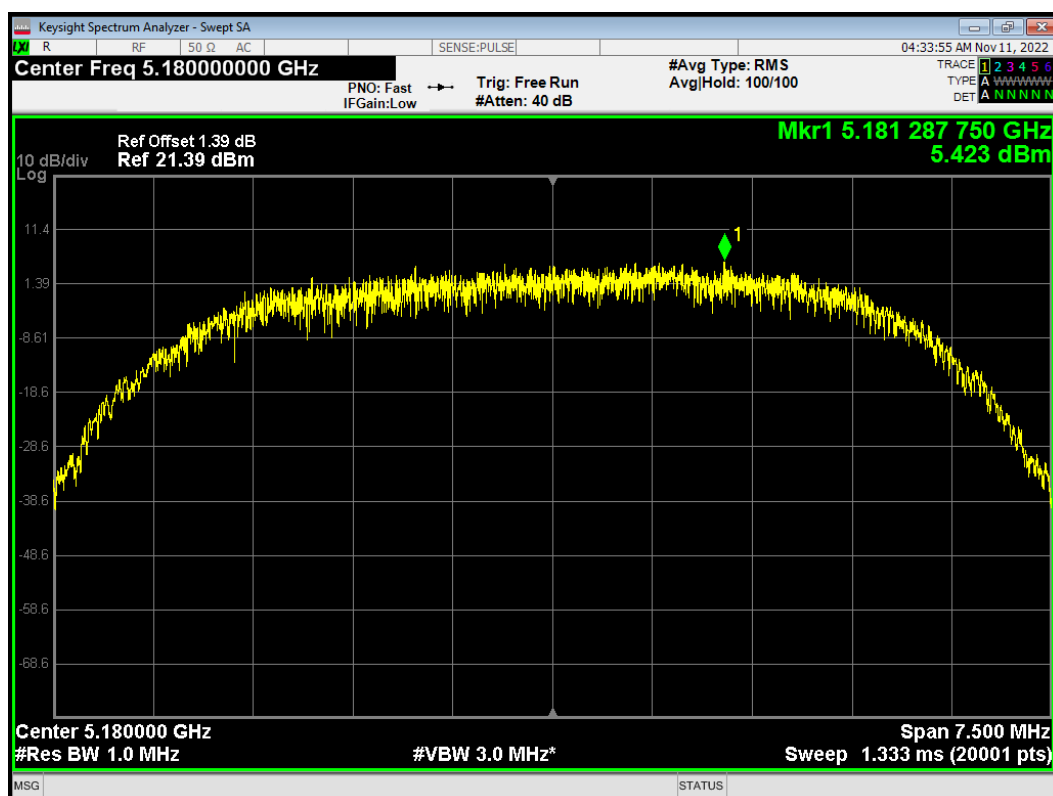
PSD slot 5M 5220MHz



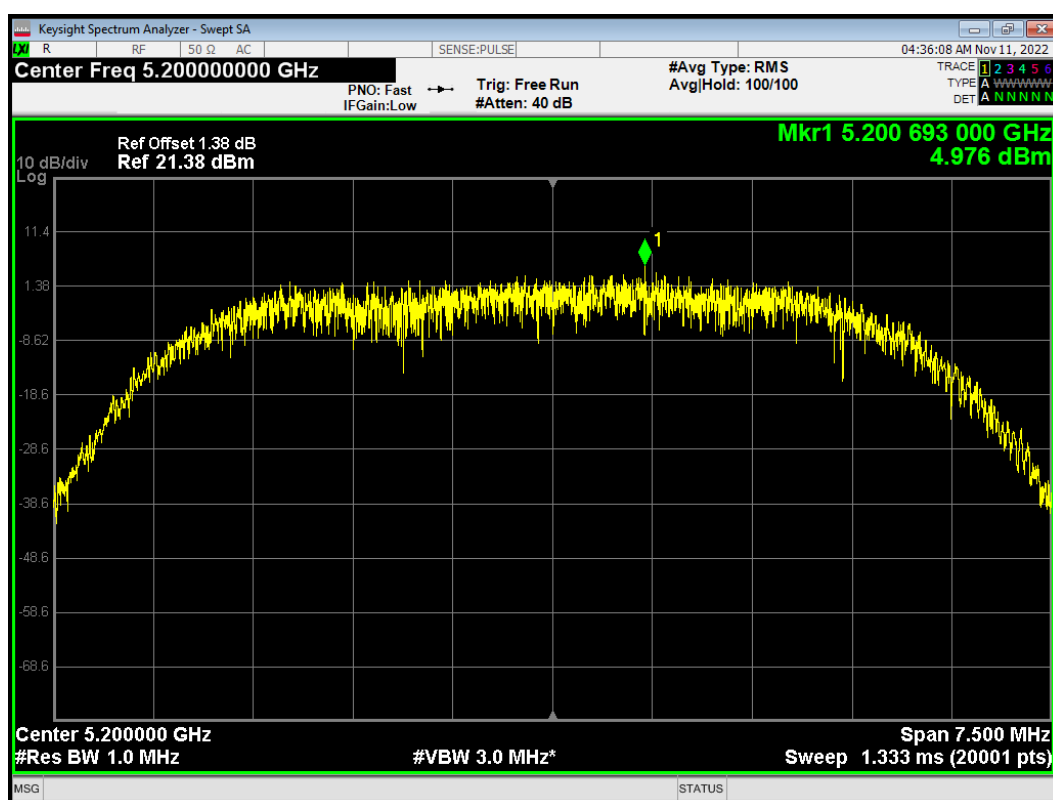
PSD slot 5M 5240MHz



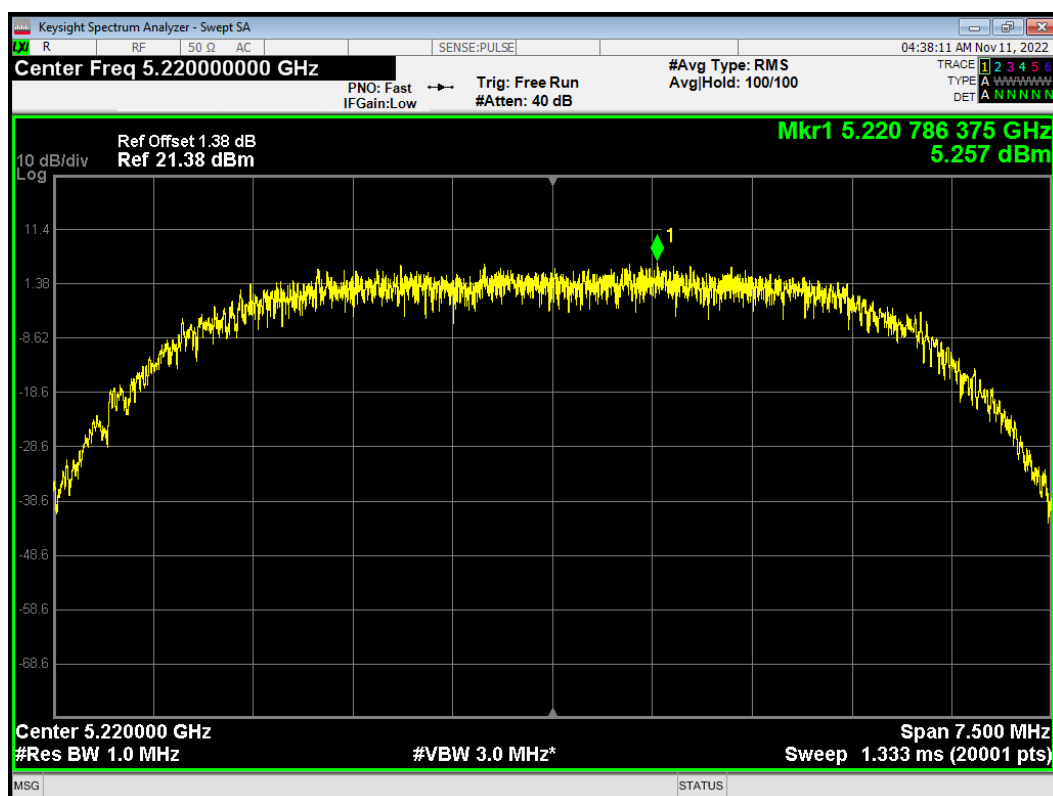
PSD BR 5M 5180MHz



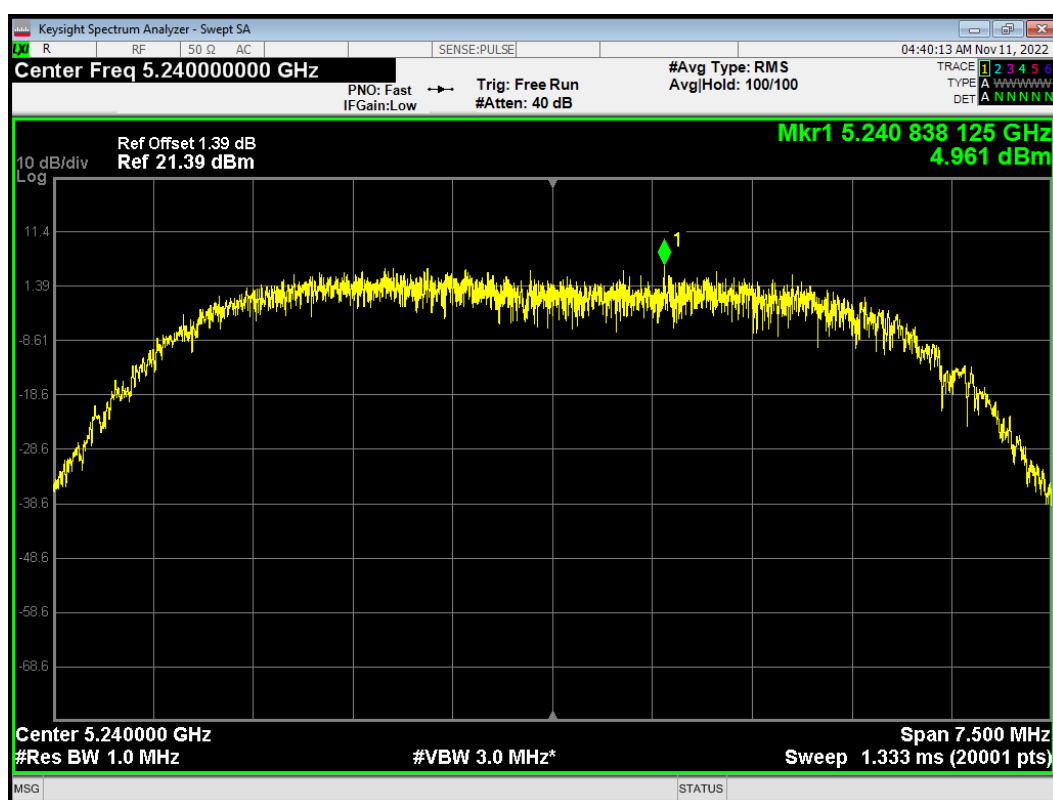
PSD BR 5M 5200MHz



PSD BR 5M 5220MHz

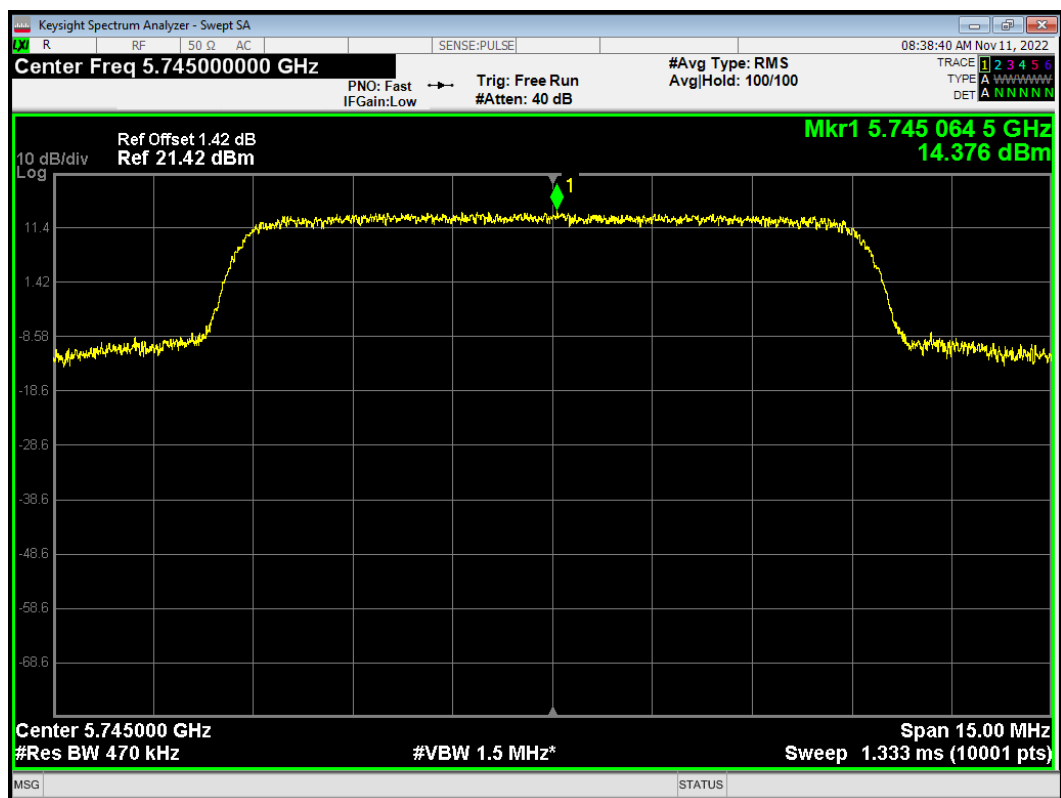


PSD BR 5M 5240MHz

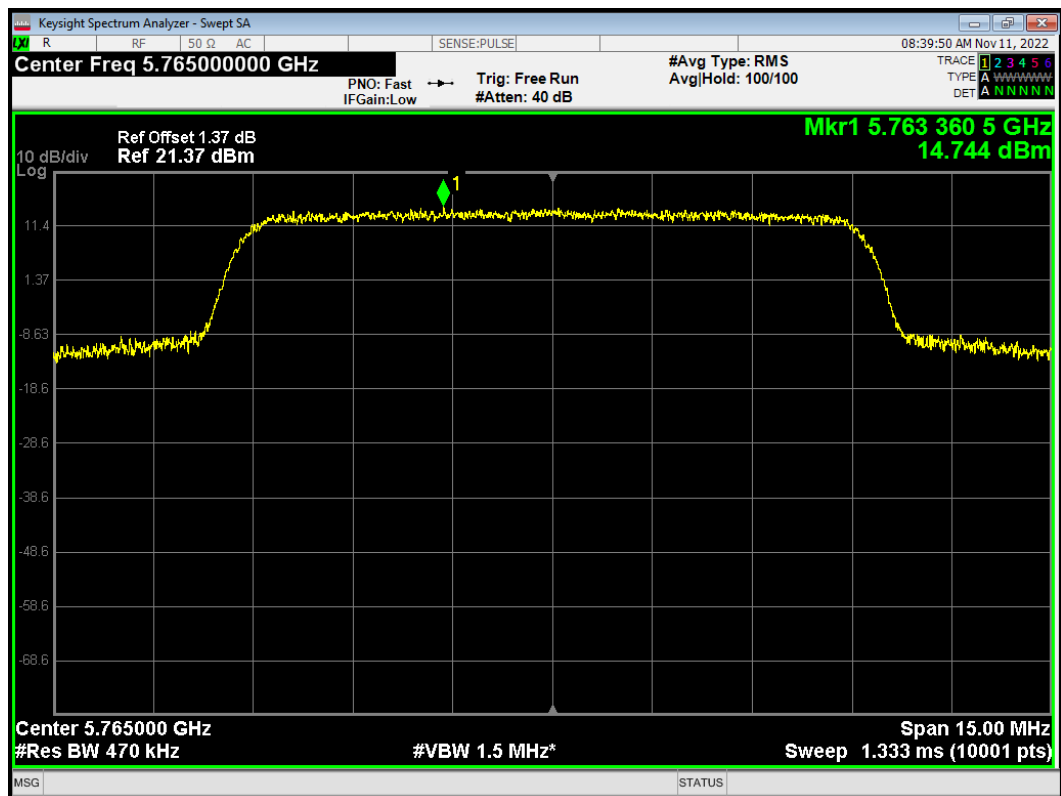


U-NII-3

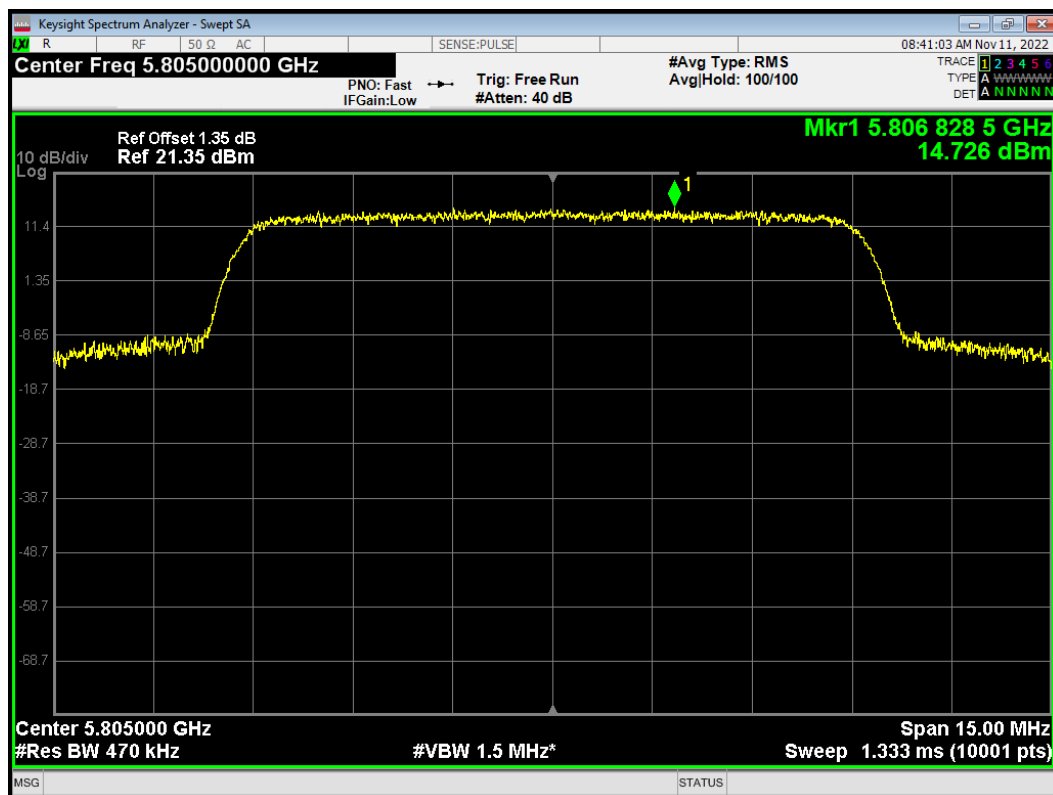
PSD slot 10M 5745MHz



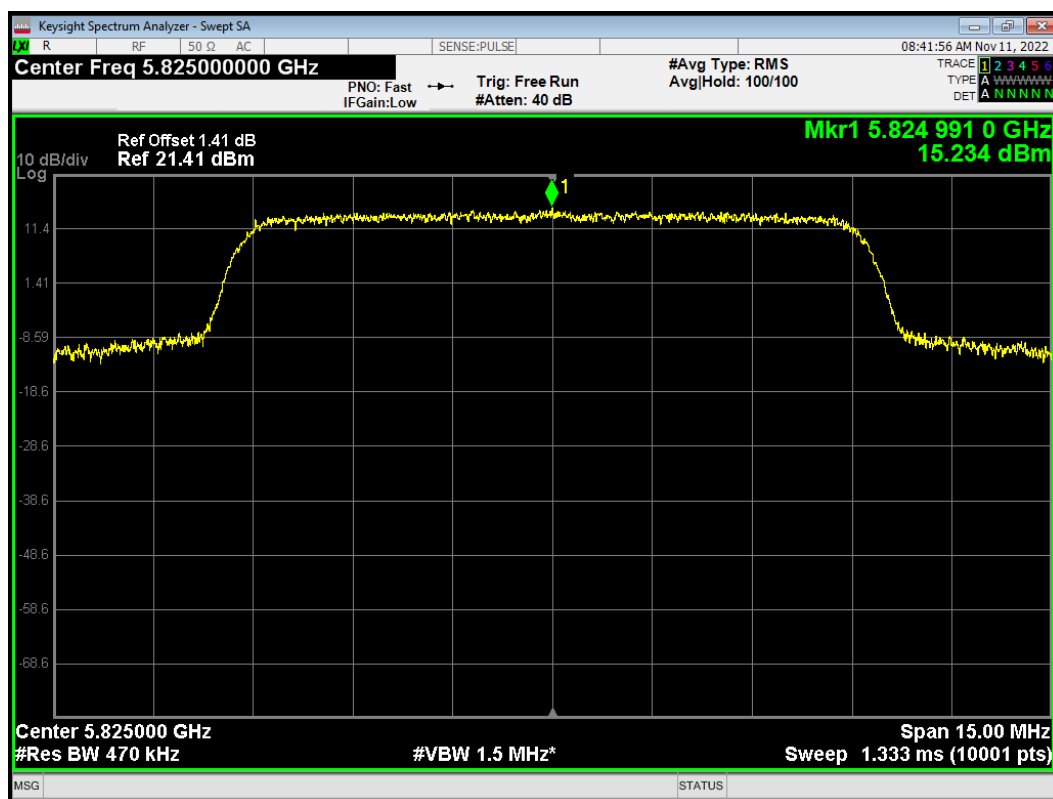
PSD slot 10M 5765MHz



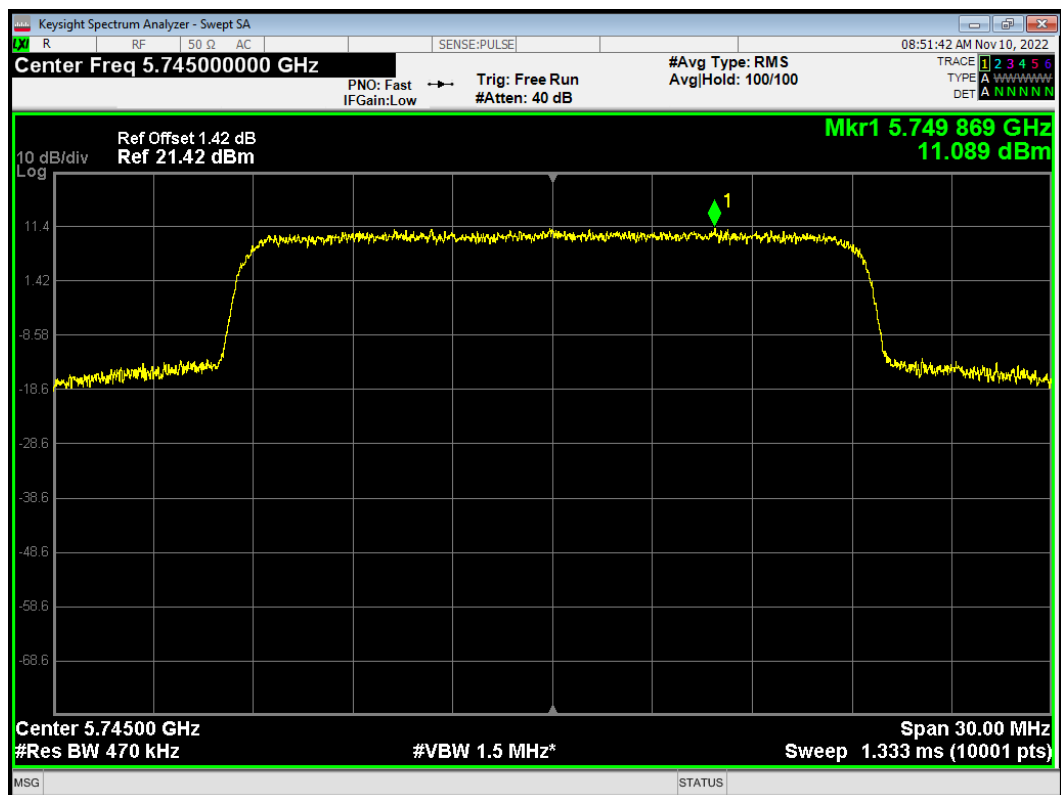
PSD slot 10M 5805MHz



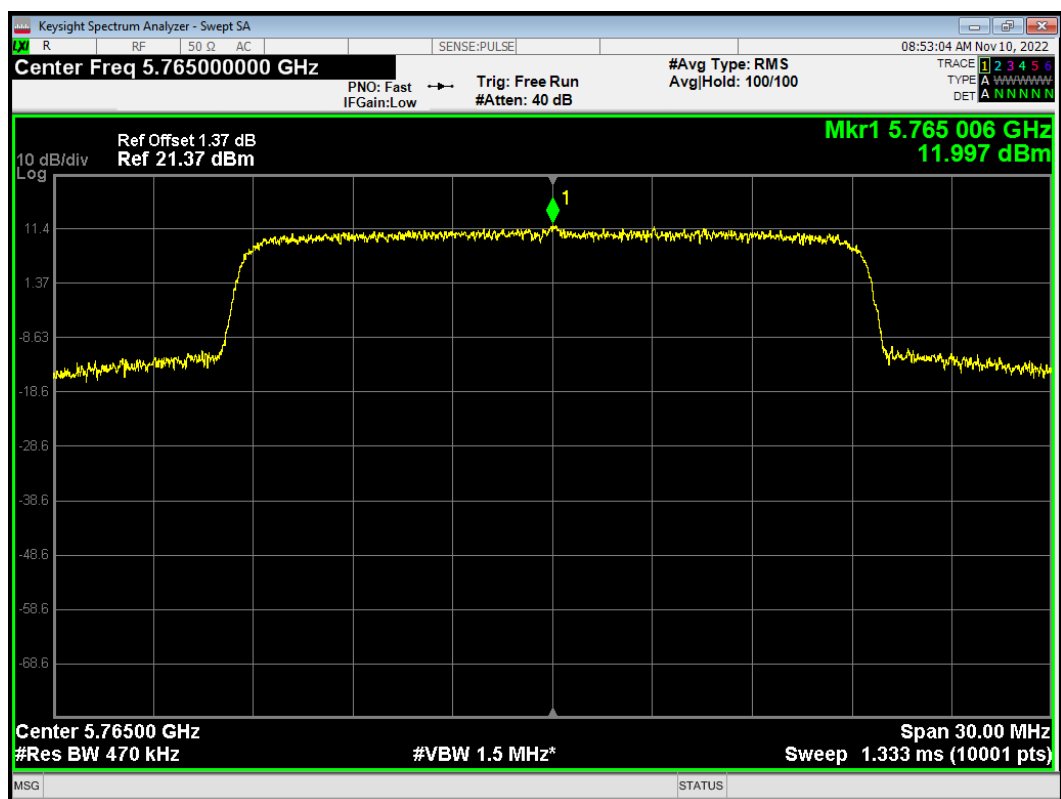
PSD slot 10M 5825MHz



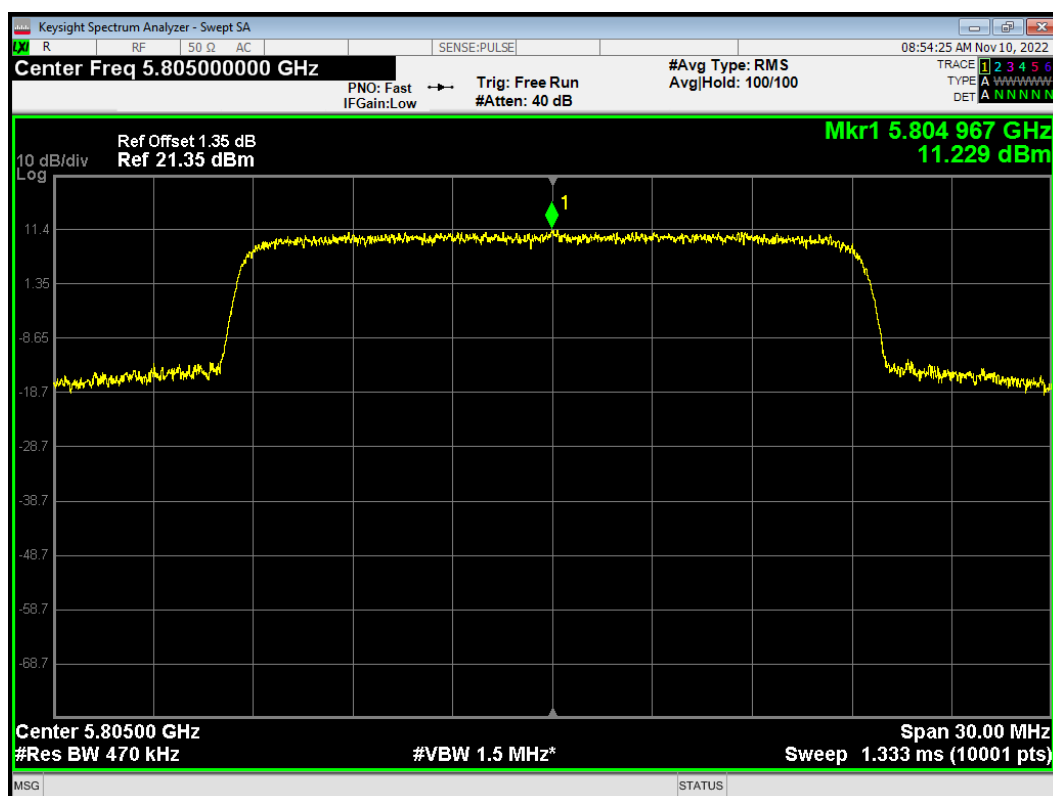
PSD slot 20M 5745MHz



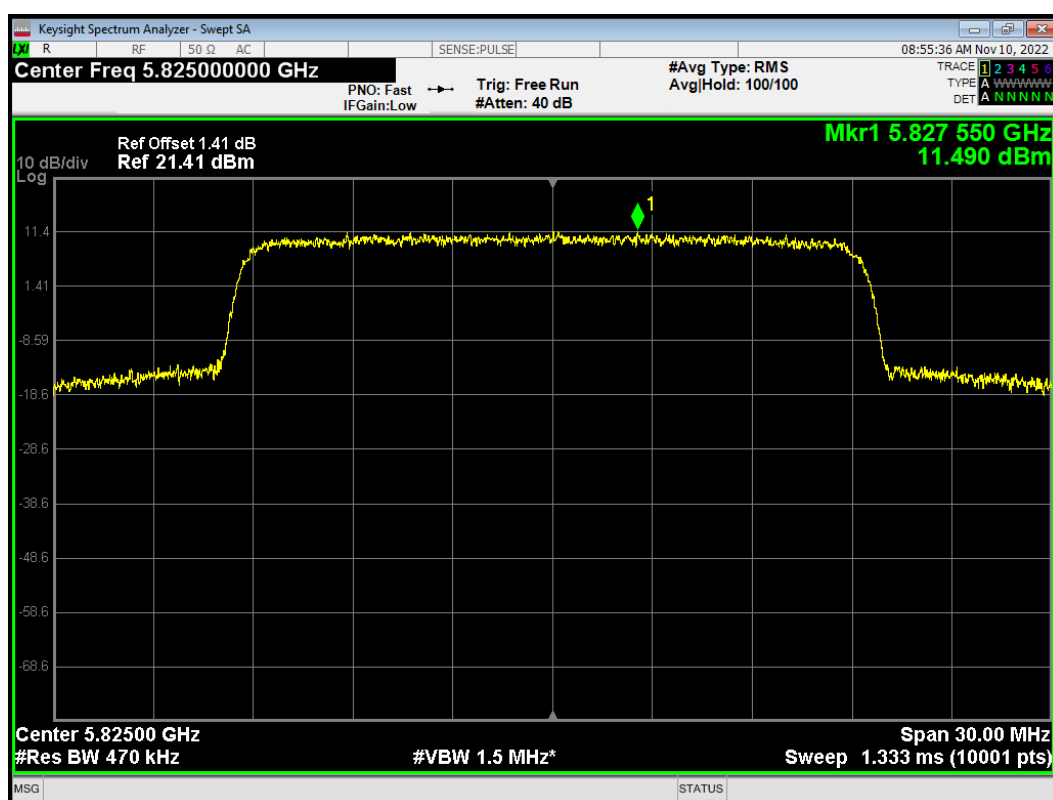
PSD slot 20M 5765MHz



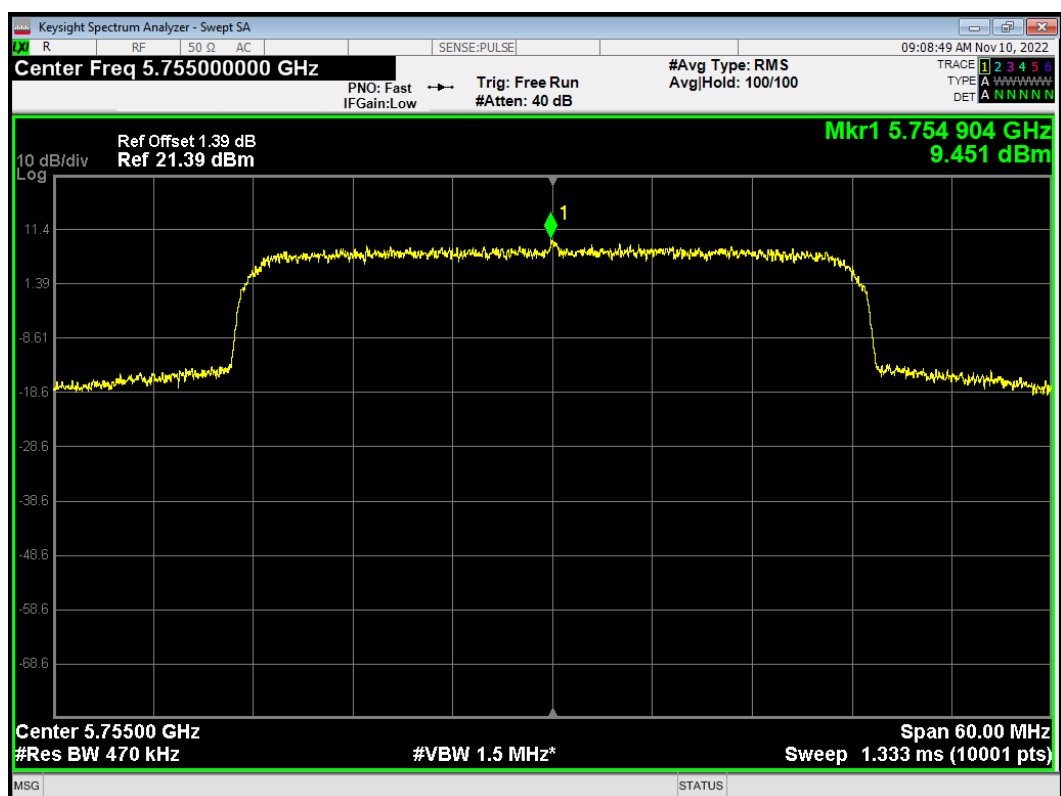
PSD slot 20M 5805MHz



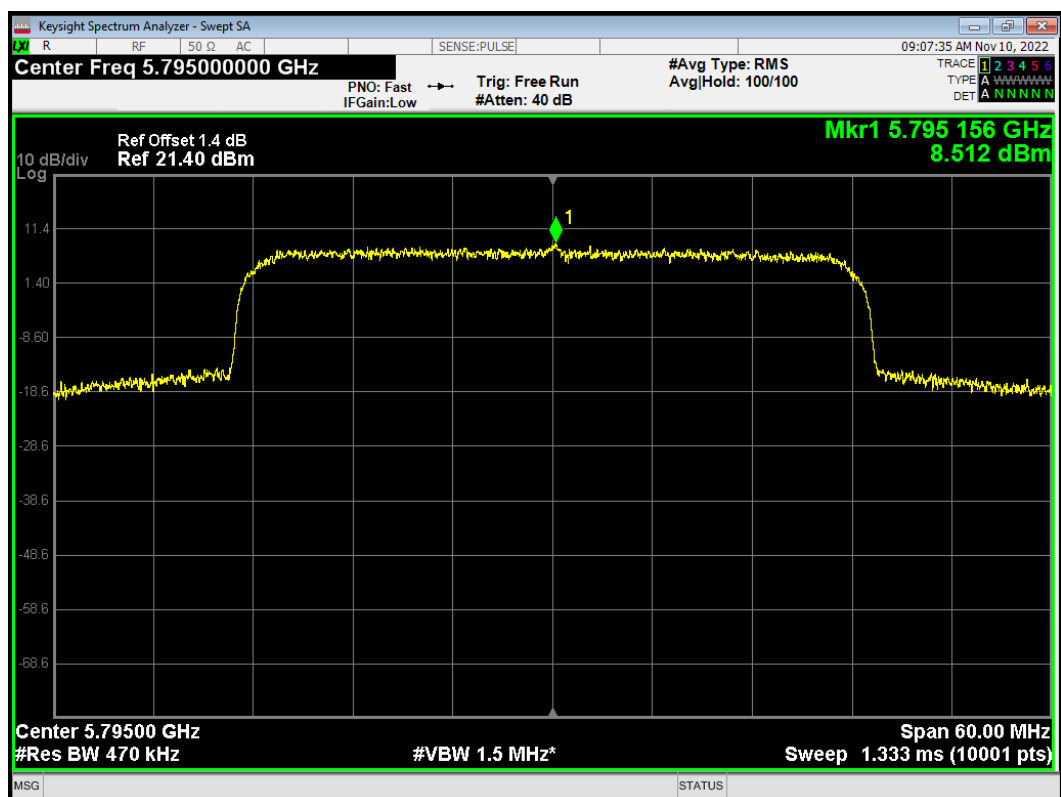
PSD slot 20M 5825MHz



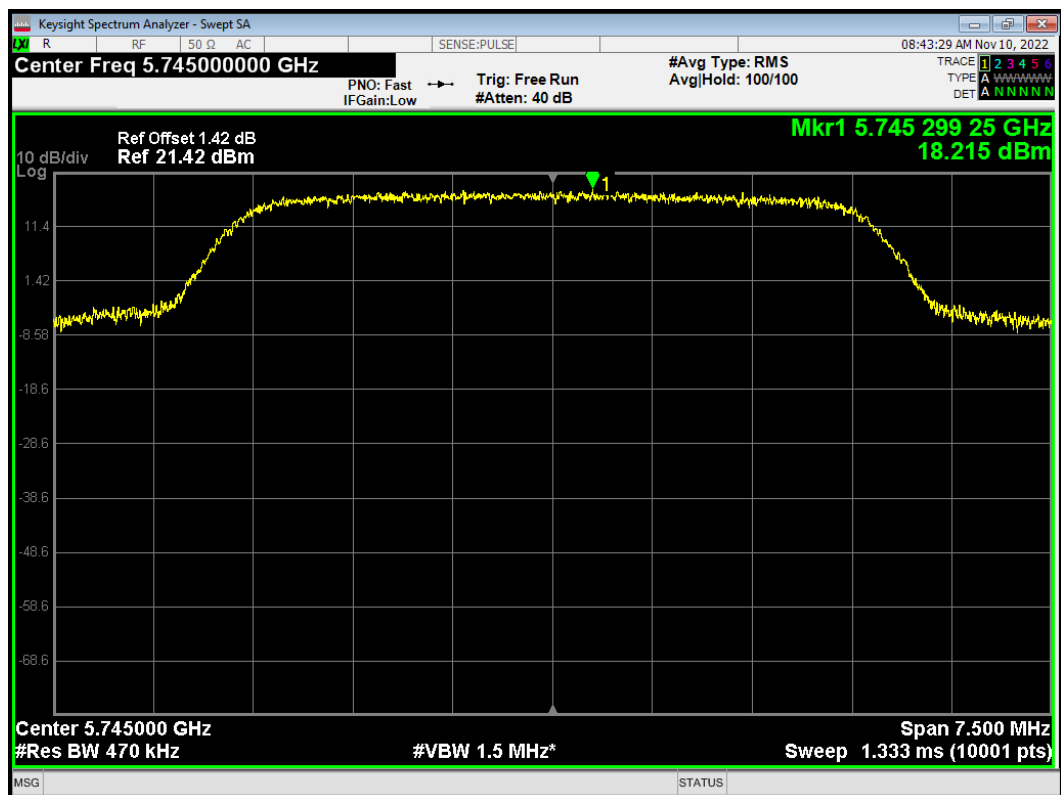
PSD slot 40M 5755MHz



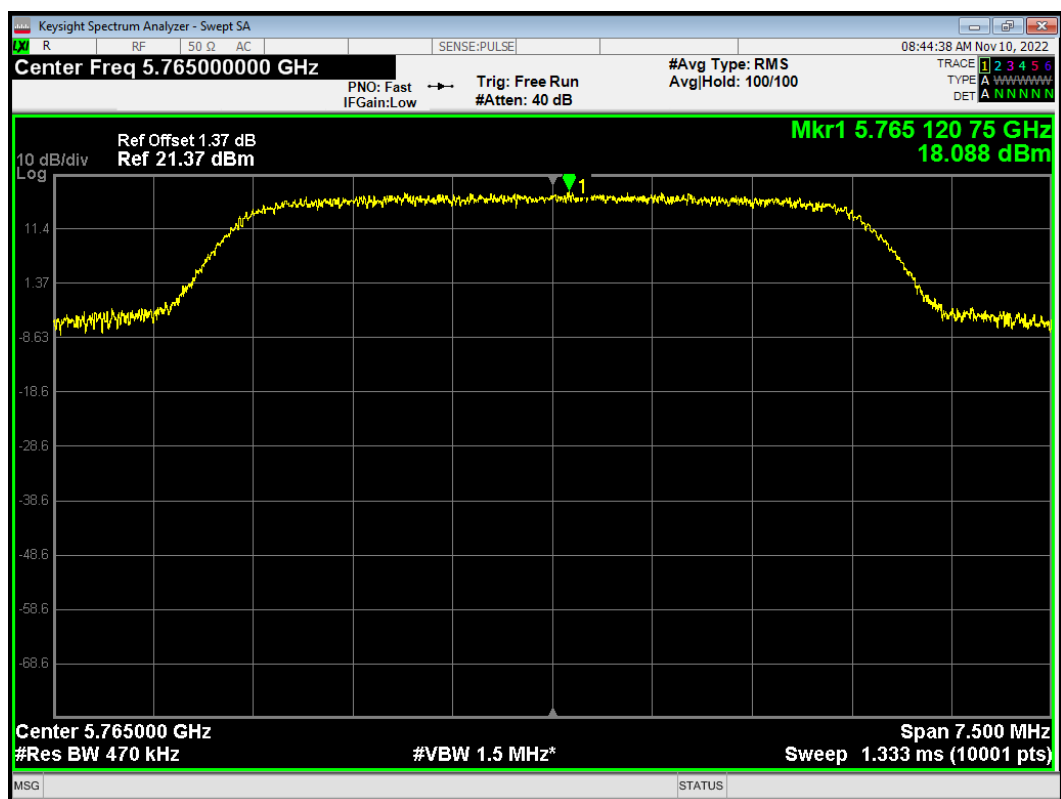
PSD slot 40M 5795MHz



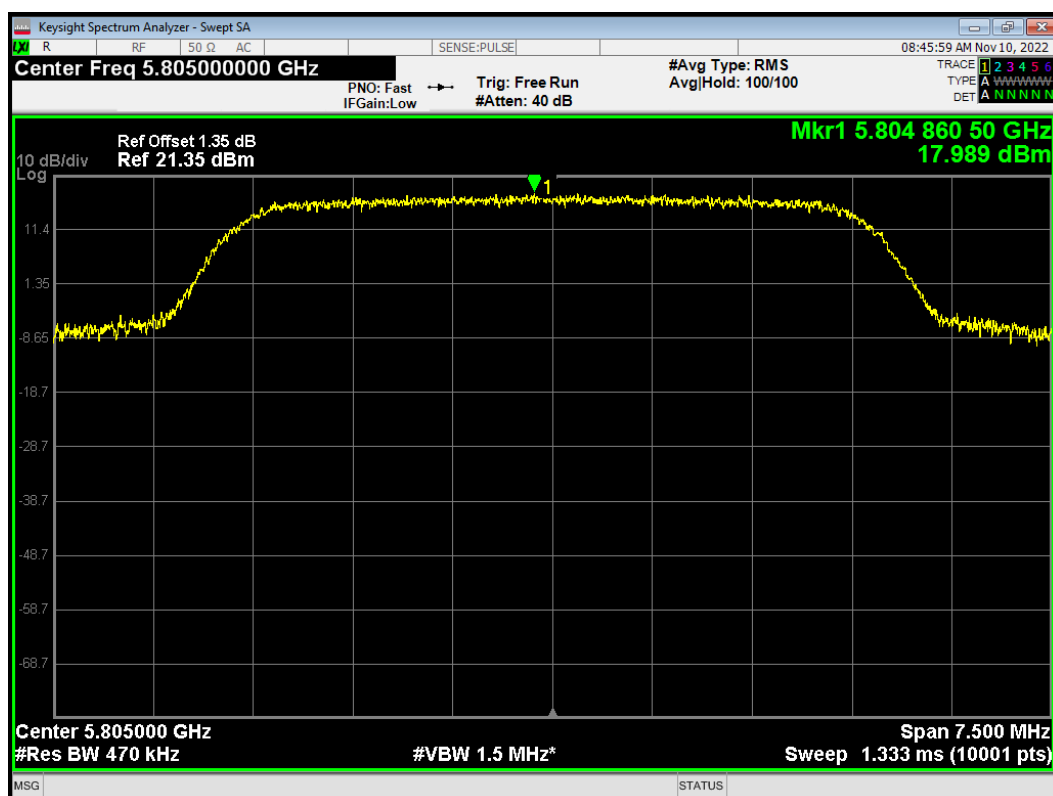
PSD slot 5M 5745MHz



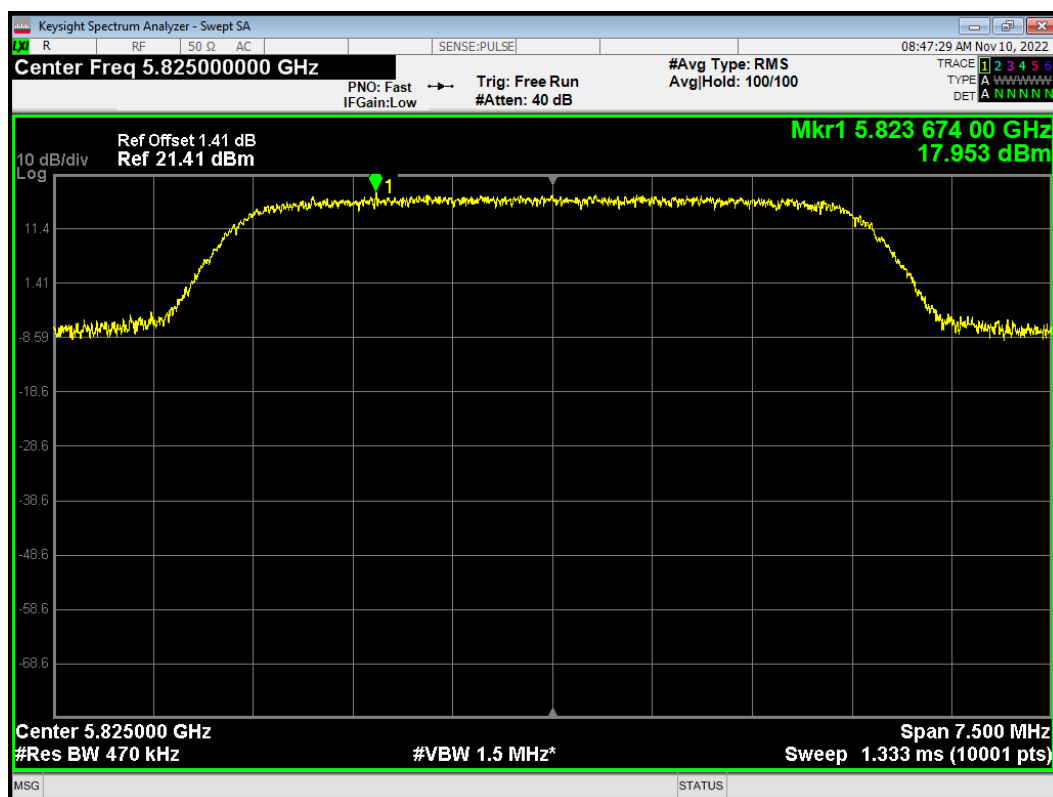
PSD slot 5M 5765MHz



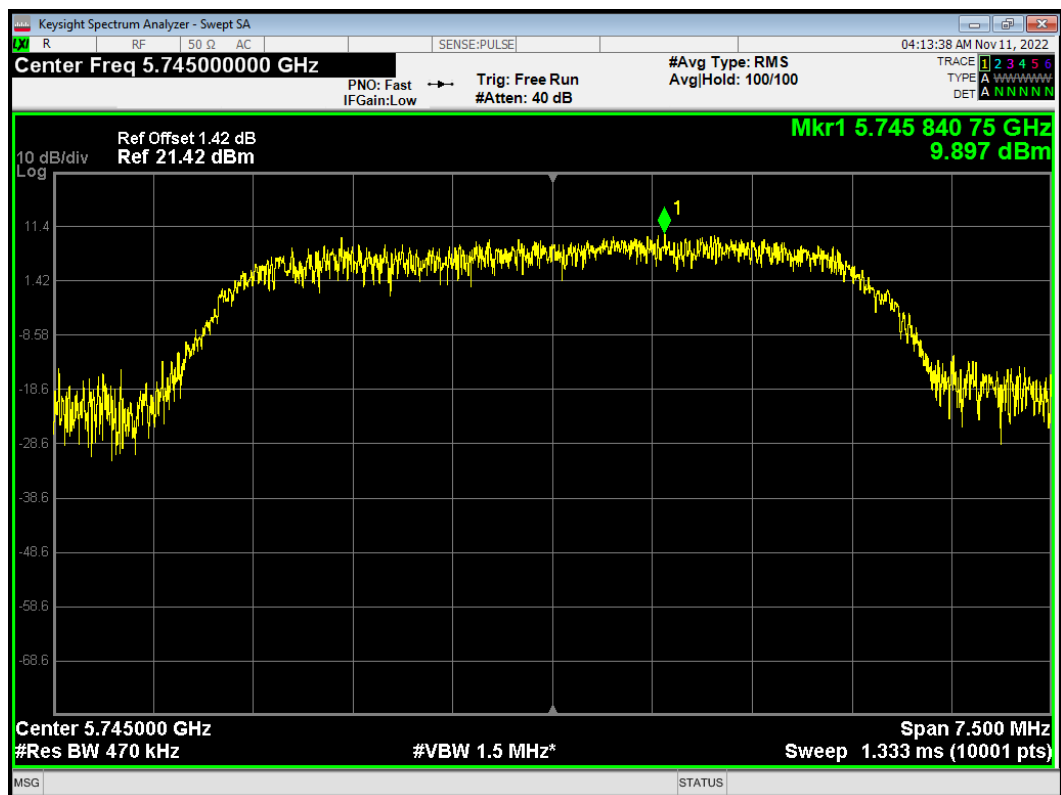
PSD slot 5M 5805MHz



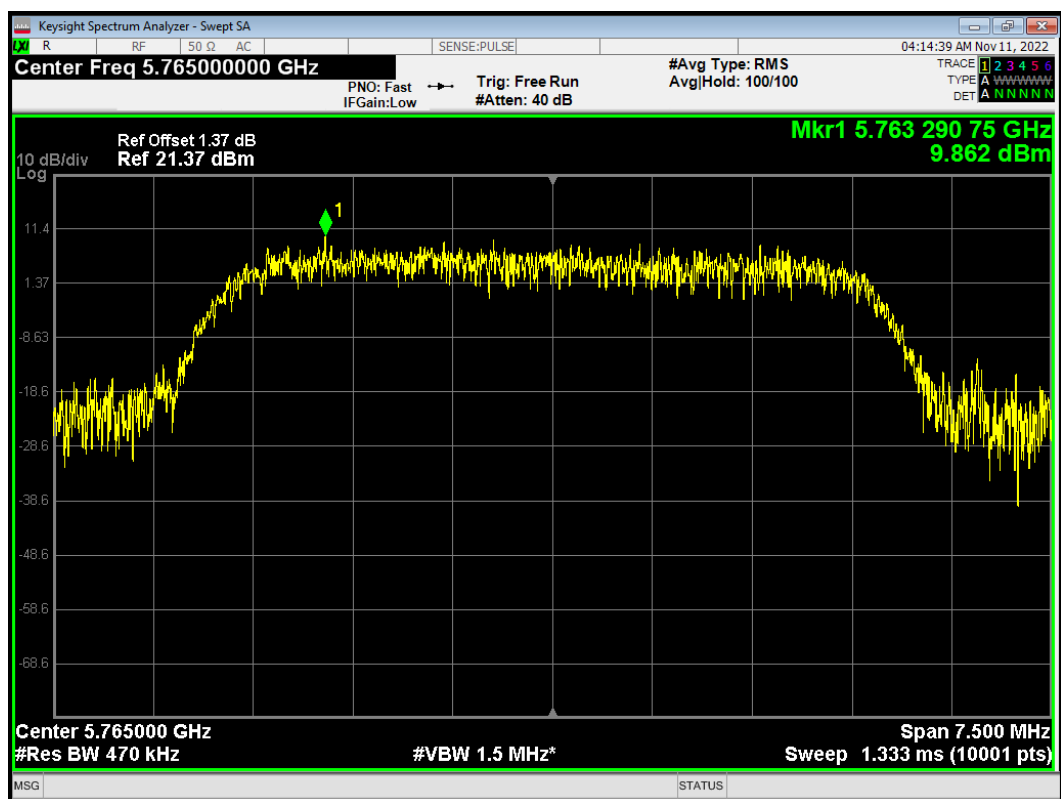
PSD slot 5M 5825MHz



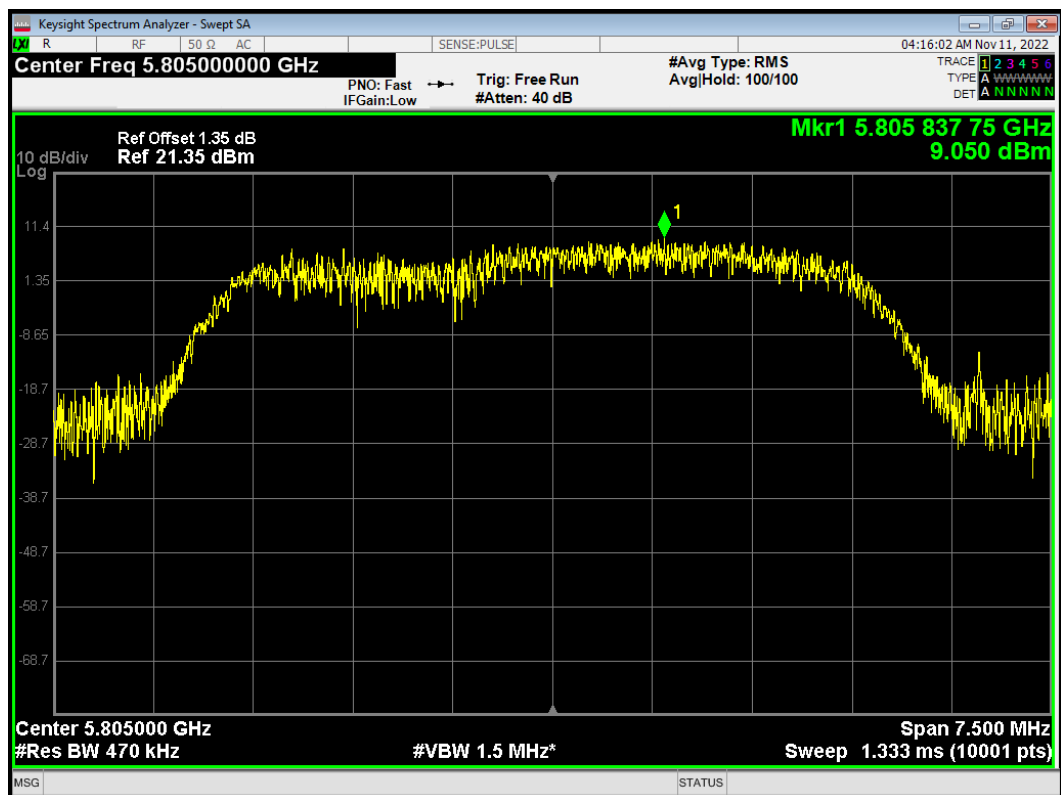
PSD BR 5M 5745MHz



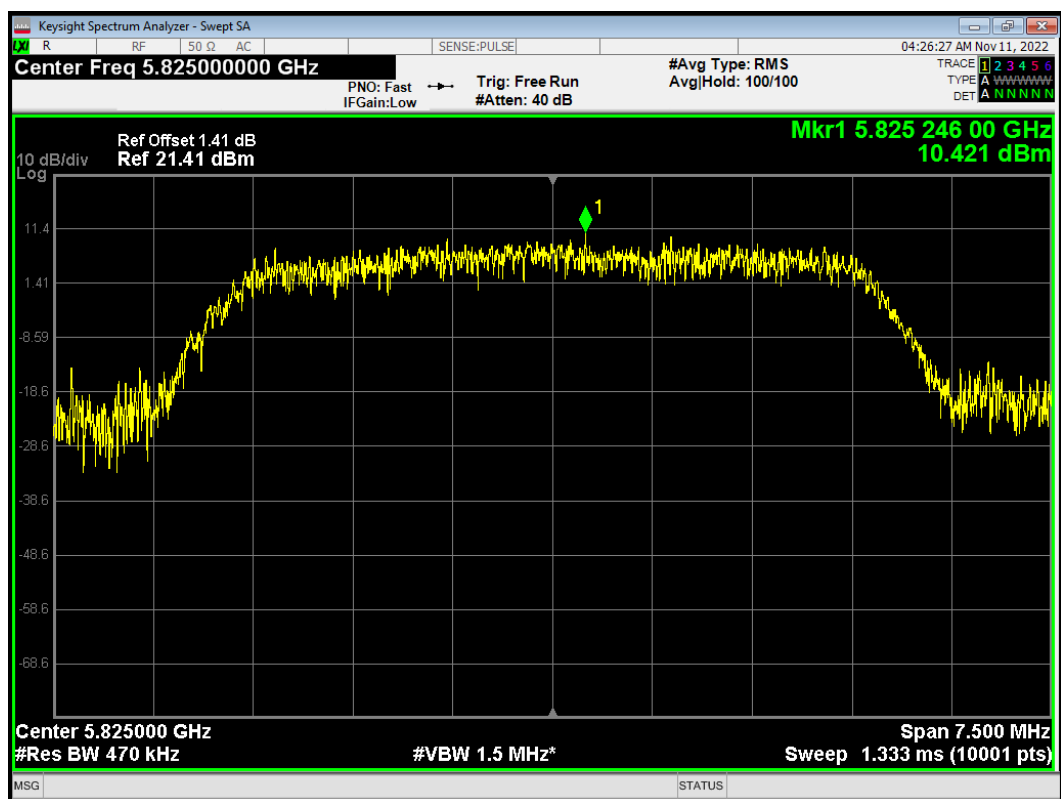
PSD BR 5M 5765MHz



PSD BR 5M 5805MHz



PSD BR 5M 5825MHz



5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

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

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. 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.

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.

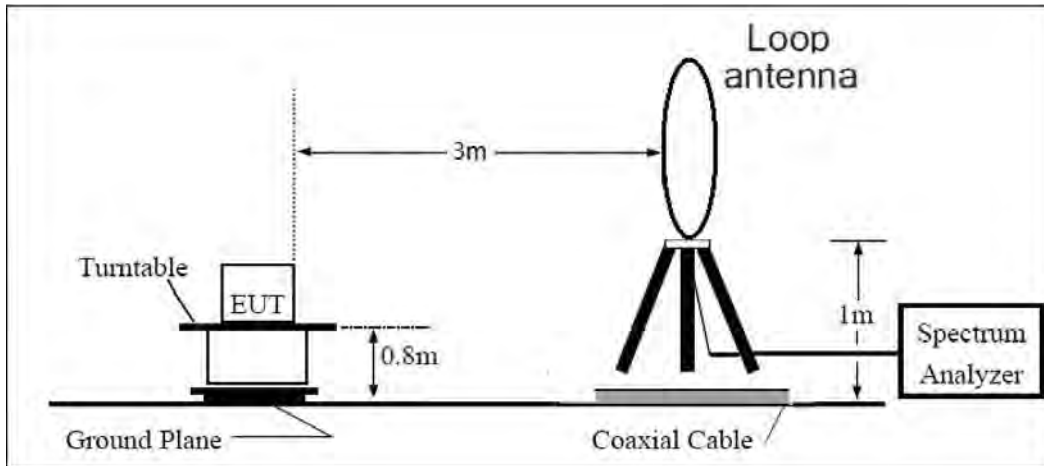
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

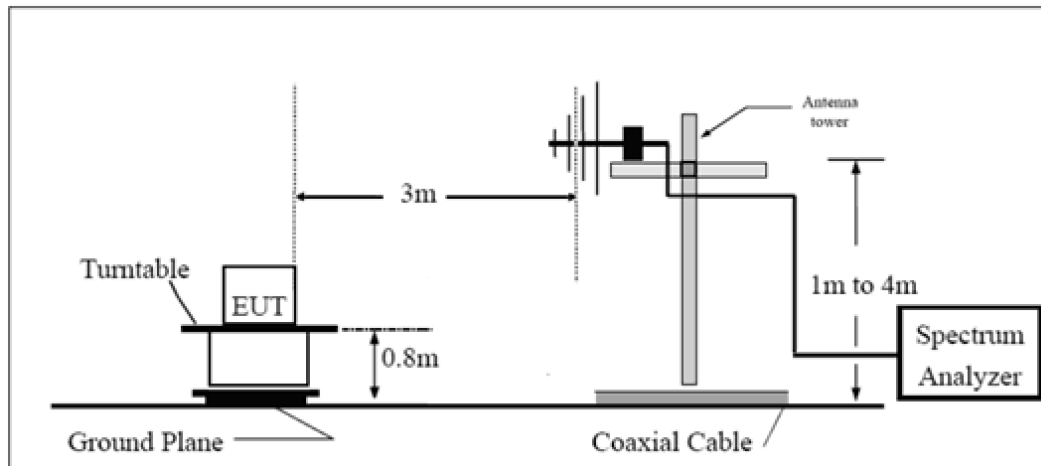
The test is in transmitting mode.

Test setup

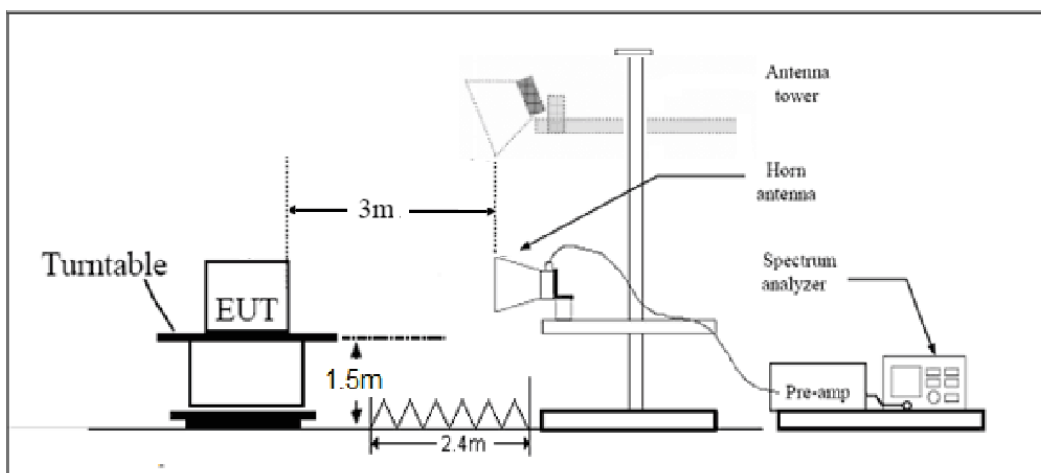
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

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
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

Test Results:

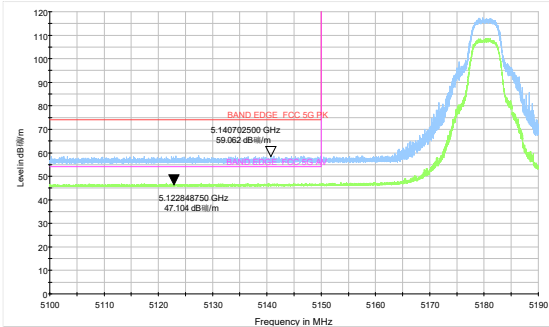
A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

A symbol (dB V/) in the test plot below means ($\text{dB}\mu\text{V/m}$)

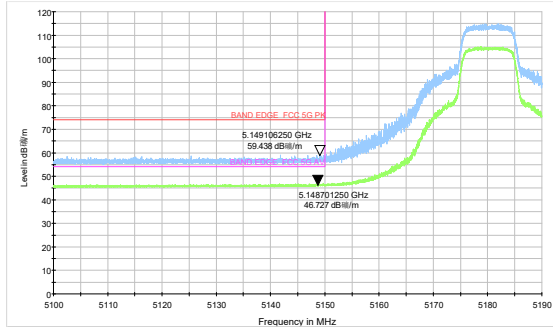
The signal beyond the limit is carrier.

U-NII-1

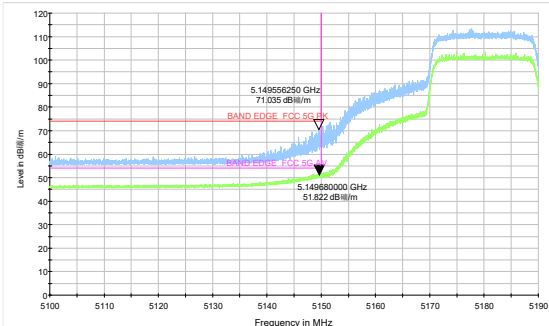
SLOT



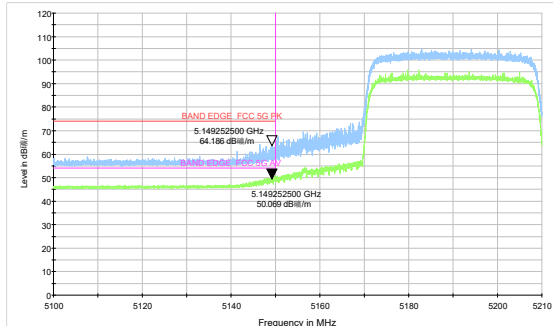
5M: 5180MHz Peak + Average



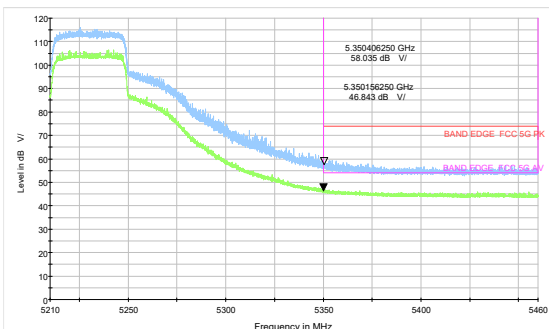
10M: 5180MHz Peak + Average



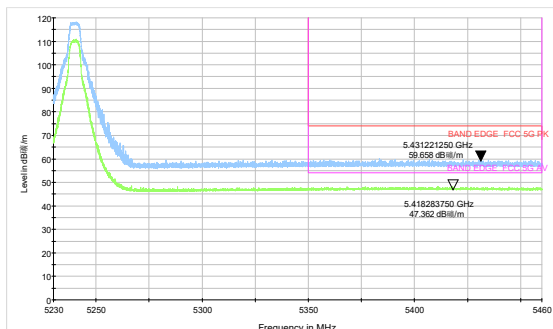
20M: 5180MHz Peak + Average



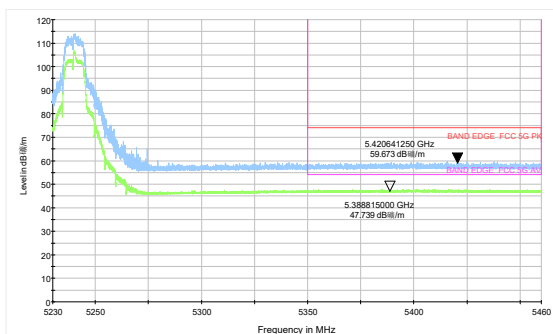
40M: 5190 MHz Peak + Average



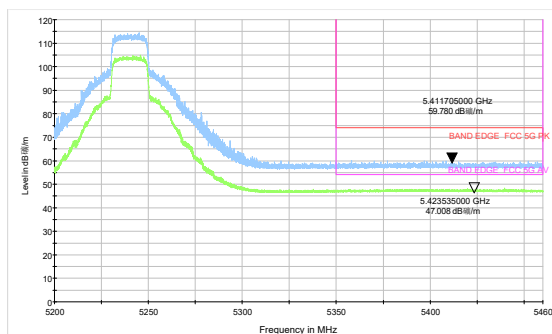
40M: 5230MHz Peak + Average



5M: 5240MHz Peak + Average

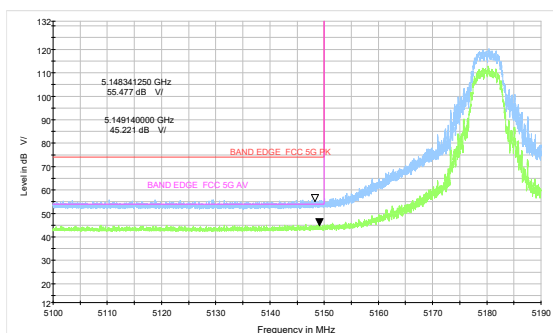


10M: 5240MHz Peak + Average

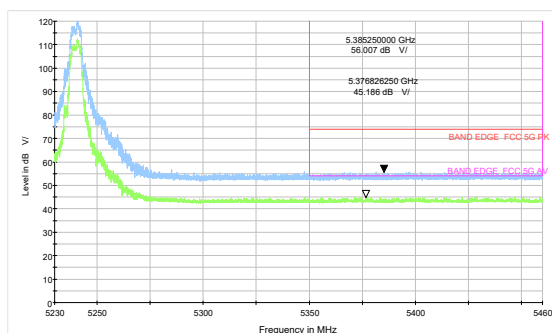


20M: 5240MHz Peak + Average

BR



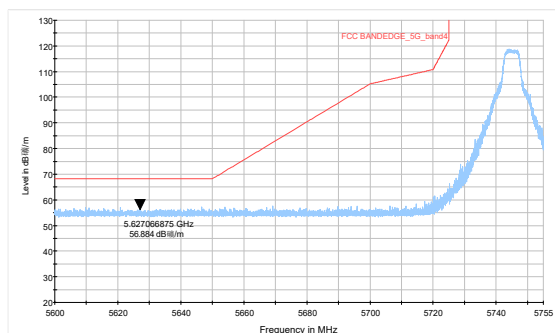
5M: 5180MHz Peak + Average



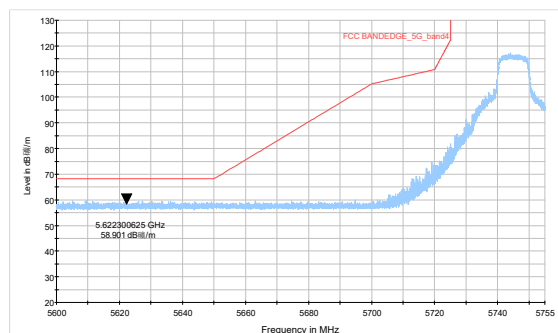
5M: 5240MHz Peak + Average

U-NII-3

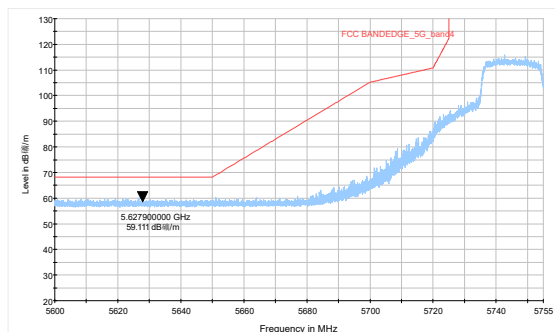
SLOT



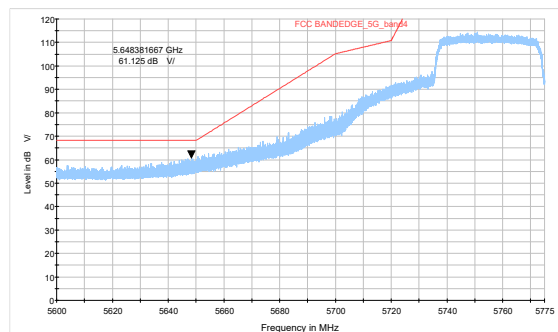
5M: 5745MHz Peak



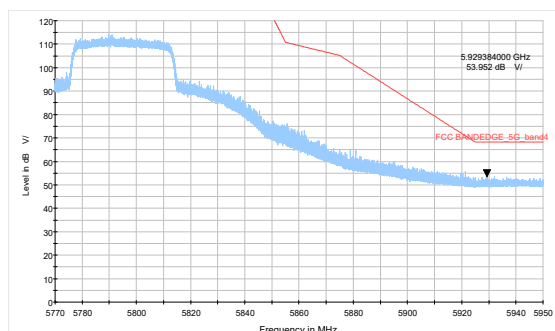
10M: 5745MHz Peak



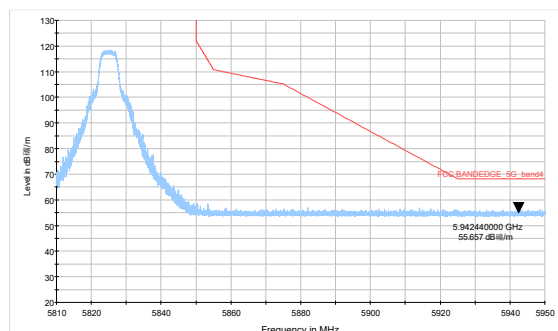
20M: 5745MHz Peak



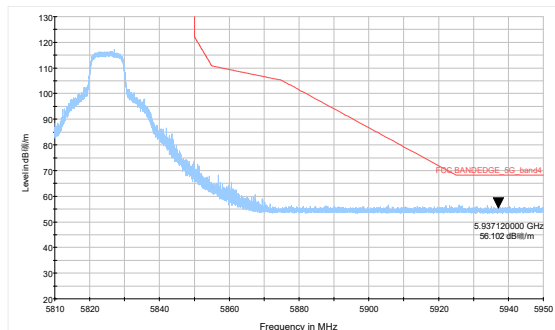
40M: 5755MHz Peak



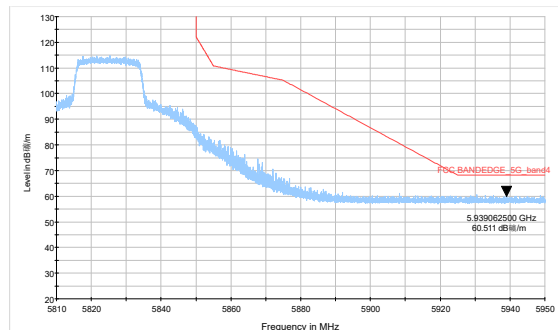
40M: 5795MHz Peak



5M: 5825MHz Peak

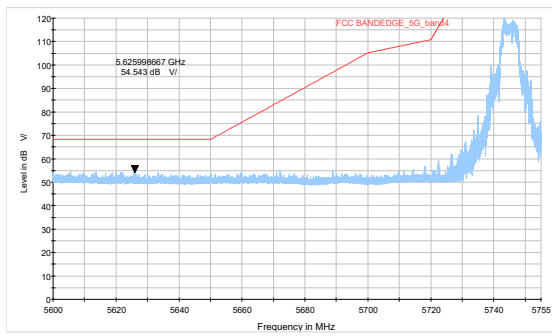


10M: 5825MHz Peak

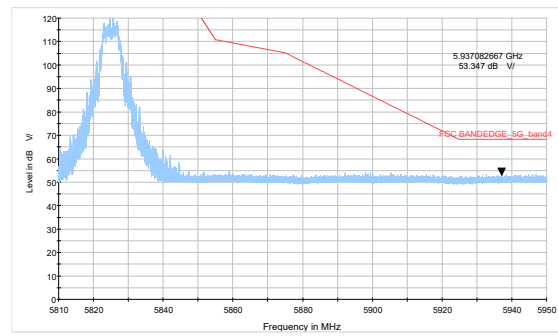


20M: 5825MHz Peak

BR



5M: 5745MHz Peak



5M: 5825MHz Peak

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

A symbol ($\text{dB}\mu\text{V}/\text{m}$) in the test plot below means (dB $\mu\text{V}/\text{m}$)

A symbol ($\text{dB}\mu\text{V}$) in the test plot below means (dB $\mu\text{V}/\text{m}$)

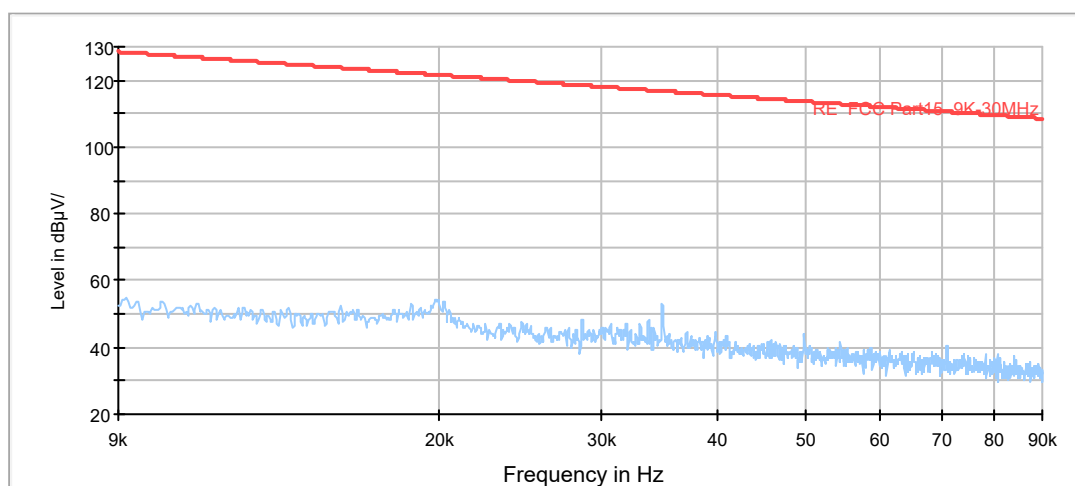
A symbol (dB V) in the test plot below means (dB $\mu\text{V}/\text{m}$)

SOLT:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 5200MHz, 20M are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

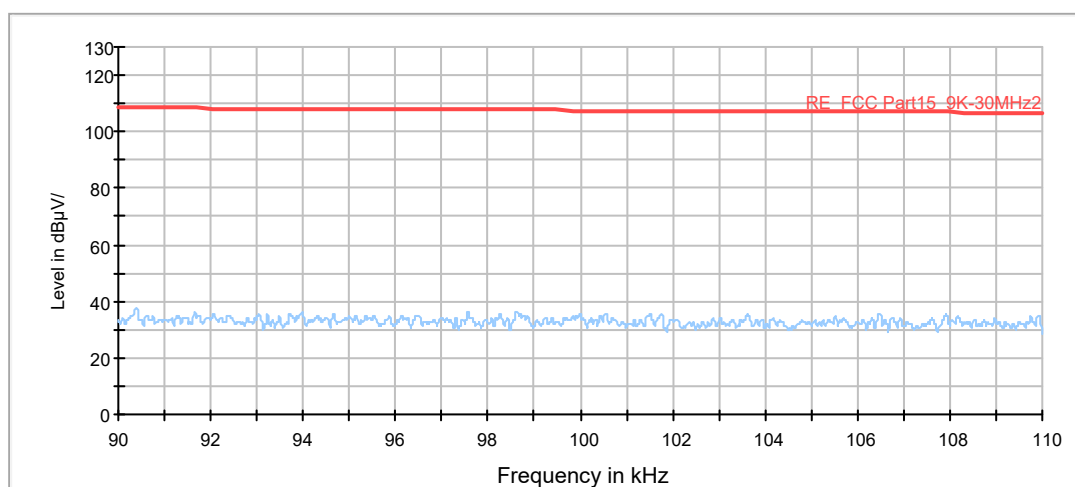
Continuous TX mode:

FCC RE 9K-90KHz AV



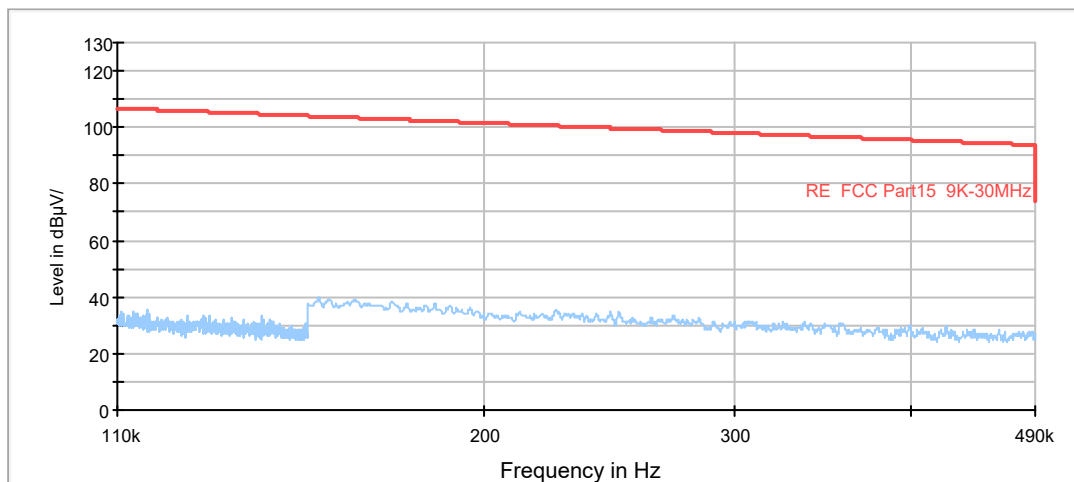
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



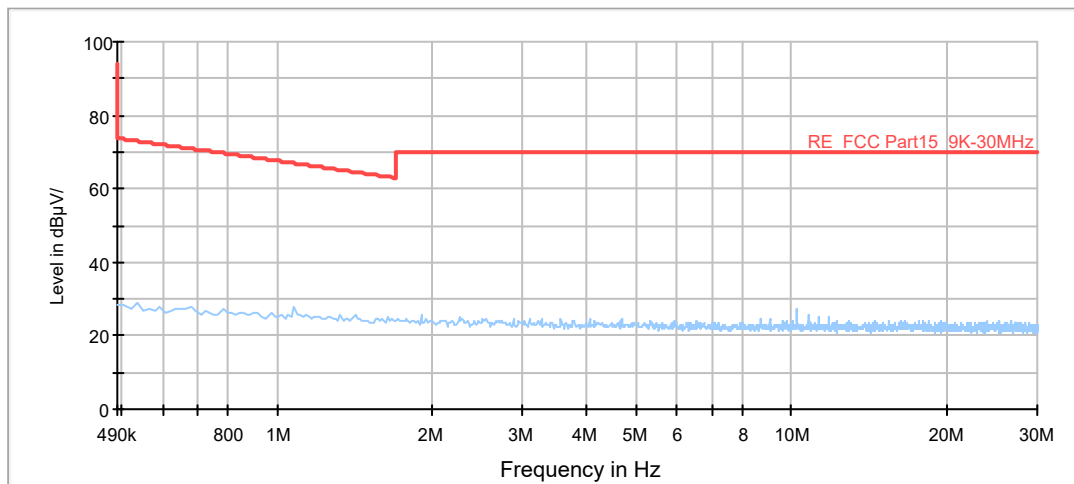
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV

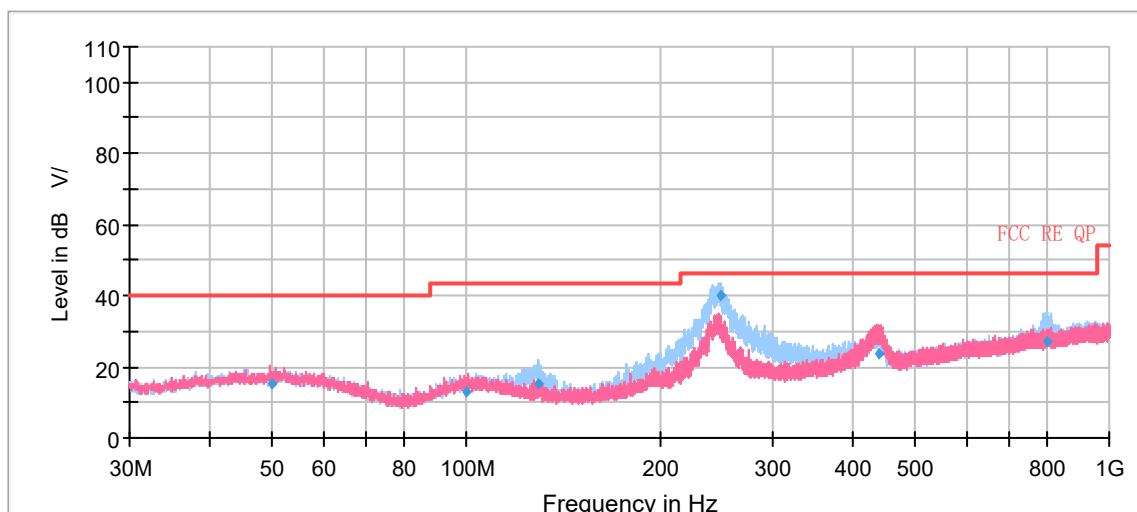


Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

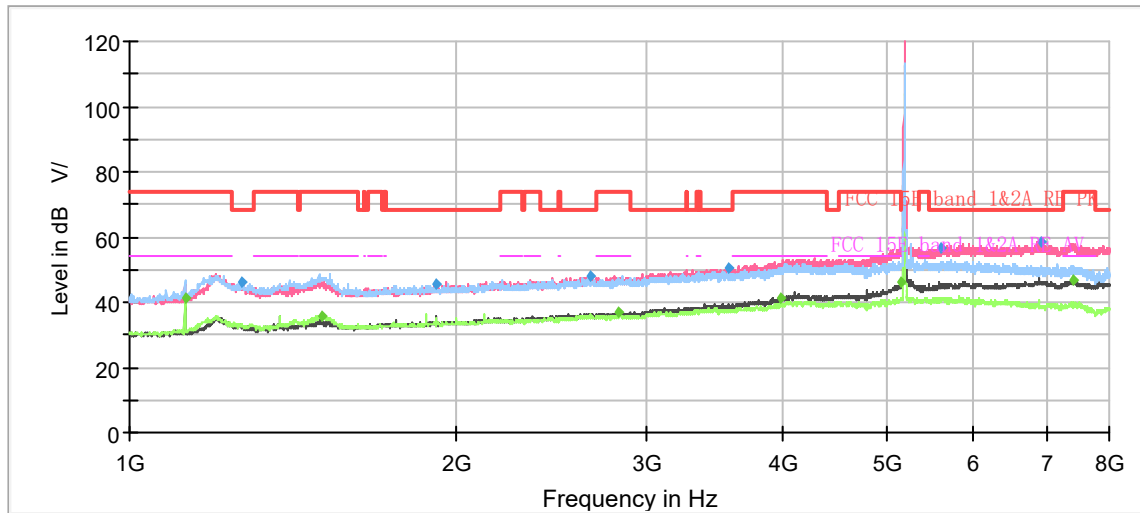


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
49.91	15.37	40.00	24.63	110.0	V	157.00	21
100.39	13.17	43.50	30.33	184.0	V	208.00	19
129.73	15.22	43.50	28.28	175.0	H	327.00	15
248.14	40.20	46.00	5.80	100.0	H	313.00	20
439.03	23.89	46.00	22.11	100.0	V	0.00	24
800.13	27.21	46.00	18.79	100.0	H	283.00	29

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
 2. Margin = Limit – Quasi-Peak

5M: 5180MHz



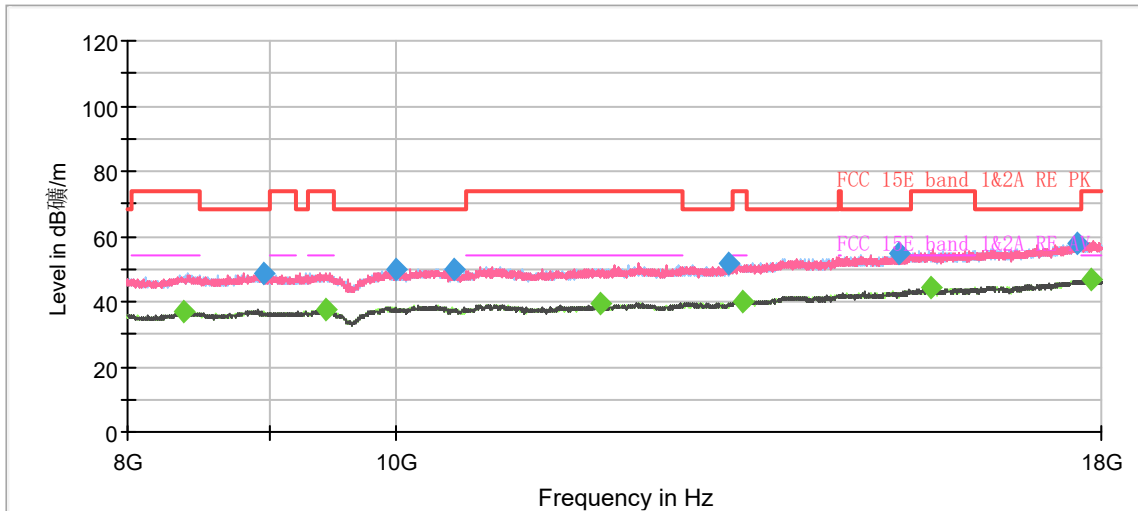
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	41.38	54.00	12.62	500.00	100.0	H	165.00	-8
1270.38	46.00	---	68.20	22.20	500.00	200.0	H	161.00	-7
1502.25	---	35.80	54.00	18.20	500.00	100.0	H	68.00	-6
1919.63	45.30	---	68.20	22.90	500.00	200.0	H	70.00	-3
2659.88	47.70	---	68.20	20.50	500.00	100.0	H	291.00	0
2826.13	---	36.68	54.00	17.32	500.00	100.0	V	180.00	1
3566.38	50.71	---	68.20	17.49	500.00	200.0	V	166.00	4
3985.50	---	41.24	54.00	12.76	500.00	100.0	V	334.00	6
5146.63	---	46.10	54.00	7.90	500.00	100.0	V	95.00	9
5593.75	56.58	---	68.20	11.62	500.00	200.0	V	238.00	10
6927.25	58.28	---	68.20	9.92	500.00	200.0	V	266.00	11
7396.25	---	46.73	54.00	7.27	500.00	200.0	V	318.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



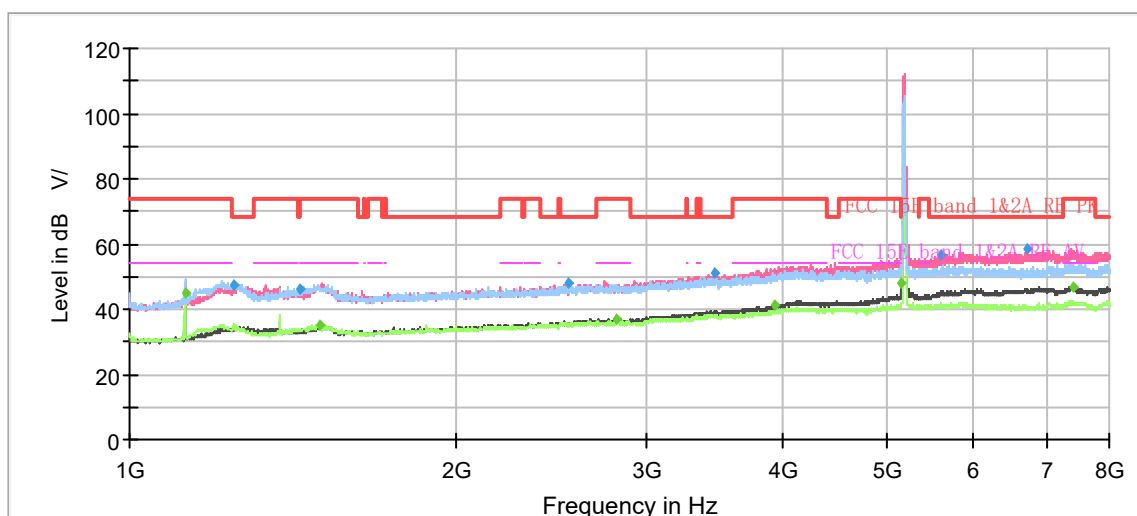
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8386.250000	---	36.63	54.00	17.37	500.0	100.0	V	173.0	-9.0
8961.250000	48.41	---	68.20	19.79	500.0	100.0	H	162.0	-8.6
9431.250000	---	37.25	54.00	16.75	500.0	100.0	V	191.0	-7.7
9996.250000	50.04	---	68.20	18.16	500.0	200.0	V	64.0	-6.8
10501.250000	49.64	---	68.20	18.56	500.0	100.0	H	240.0	-6.9
11868.750000	---	39.21	54.00	14.79	500.0	200.0	V	274.0	-6.3
13205.000000	51.67	---	68.20	16.53	500.0	200.0	V	238.0	-5.0
13342.500000	---	40.14	54.00	13.86	500.0	100.0	V	332.0	-4.6
15215.000000	54.76	---	68.20	13.44	500.0	200.0	H	149.0	-0.3
15611.250000	---	44.01	54.00	9.99	500.0	100.0	H	299.0	-0.4
17651.250000	57.85	---	68.20	10.35	500.0	100.0	H	21.0	1.6
17848.750000	---	46.88	54.00	7.12	500.0	200.0	H	208.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

20M: 5180MHz



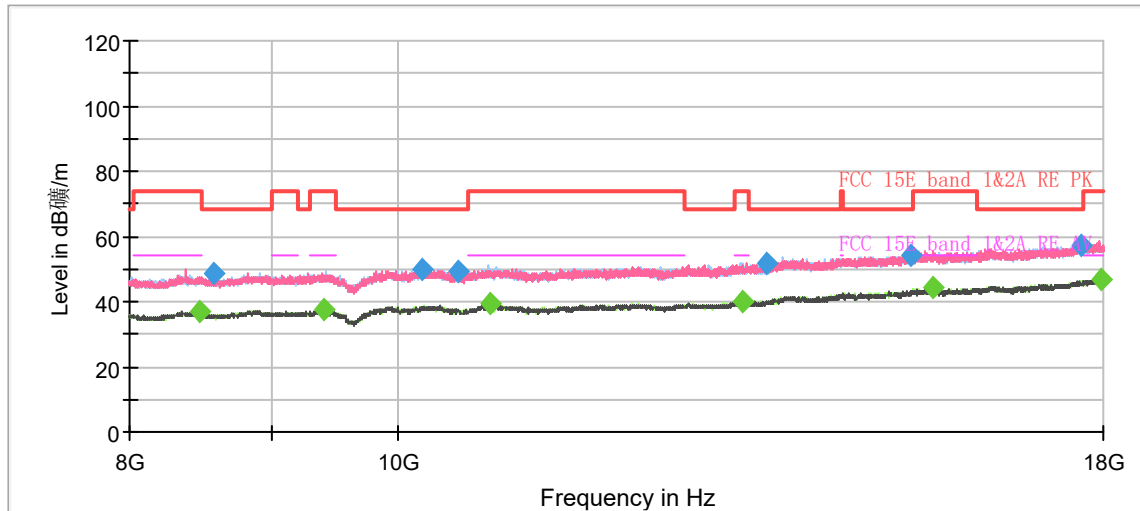
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	45.04	54.00	8.96	500.00	200.0	H	167.00	-8
1246.75	47.42	---	68.20	20.78	500.00	200.0	H	60.00	-7
1434.00	46.31	---	68.20	21.89	500.00	100.0	H	43.00	-6
1499.63	---	35.13	54.00	18.87	500.00	200.0	H	192.00	-6
2533.88	47.74	---	68.20	20.46	500.00	200.0	H	183.00	0
2808.63	---	36.84	54.00	17.16	500.00	100.0	V	328.00	1
3462.25	51.01	---	68.20	17.19	500.00	100.0	V	333.00	4
3934.75	---	41.44	54.00	12.56	500.00	100.0	V	263.00	6
5149.25	---	47.90	54.00	6.10	500.00	100.0	V	87.00	9
5595.50	56.33	---	68.20	11.87	500.00	100.0	V	126.00	10
6717.25	58.47	---	68.20	9.73	500.00	100.0	V	352.00	10
7397.13	---	47.01	54.00	6.99	500.00	100.0	V	319.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



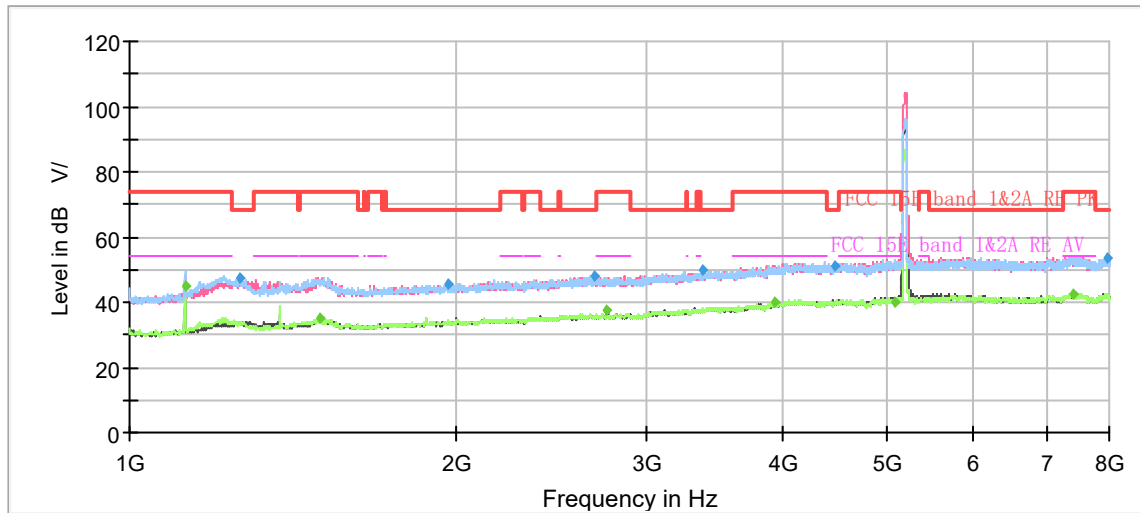
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8485.000000	---	36.84	54.00	17.16	500.0	200.0	V	125.0	-8.9
8586.250000	48.42	---	68.20	19.78	500.0	200.0	V	179.0	-8.9
9406.250000	---	37.53	54.00	16.47	500.0	100.0	V	330.0	-7.7
10208.750000	50.09	---	68.20	18.11	500.0	100.0	H	6.0	-6.6
10522.500000	49.36	---	68.20	18.84	500.0	200.0	H	325.0	-7.0
10802.500000	---	39.08	54.00	14.92	500.0	100.0	H	0.0	-6.0
13330.000000	---	40.05	54.00	13.95	500.0	200.0	H	142.0	-4.6
13602.500000	51.56	---	68.20	16.64	500.0	100.0	H	96.0	-3.9
15347.500000	54.17	---	68.20	14.03	500.0	100.0	H	43.0	0.4
15615.000000	---	44.02	54.00	9.98	500.0	100.0	H	134.0	-0.4
17672.500000	57.44	---	68.20	10.76	500.0	100.0	H	248.0	1.6
17962.500000	---	46.58	54.00	7.42	500.0	100.0	H	190.0	1.2

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

40M: 5190MHz



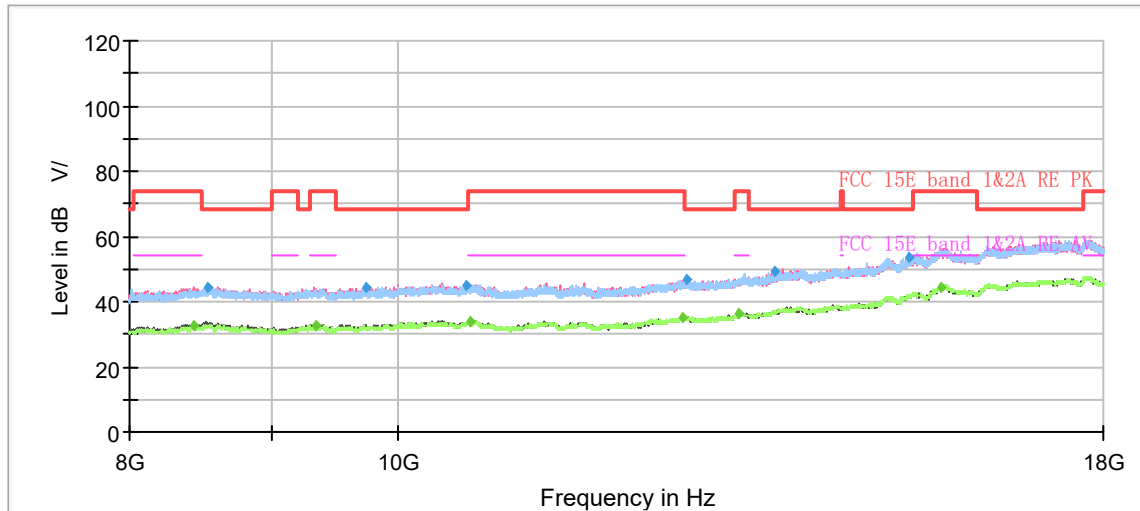
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	45.17	54.00	8.83	500.00	200.0	H	169.00	-8
1264.25	47.10	---	68.20	21.10	500.00	200.0	H	57.00	-7
1499.63	---	35.28	54.00	18.72	500.00	200.0	H	188.00	-6
1966.88	45.71	---	68.20	22.49	500.00	100.0	H	105.00	-3
2680.00	47.97	---	68.20	20.23	500.00	200.0	H	312.00	0
2756.13	---	37.35	54.00	16.65	500.00	200.0	V	181.00	1
3374.75	49.86	---	68.20	18.34	500.00	200.0	H	267.00	3
3935.63	---	39.87	54.00	14.13	500.00	200.0	H	343.00	6
4468.50	51.02	---	68.20	17.18	500.00	100.0	H	96.00	7
5067.88	---	40.28	54.00	13.72	500.00	200.0	V	171.00	9
7402.38	---	42.58	54.00	11.42	500.00	200.0	H	0.00	11
7972.00	53.71	---	68.20	14.49	500.00	200.0	H	208.00	12

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



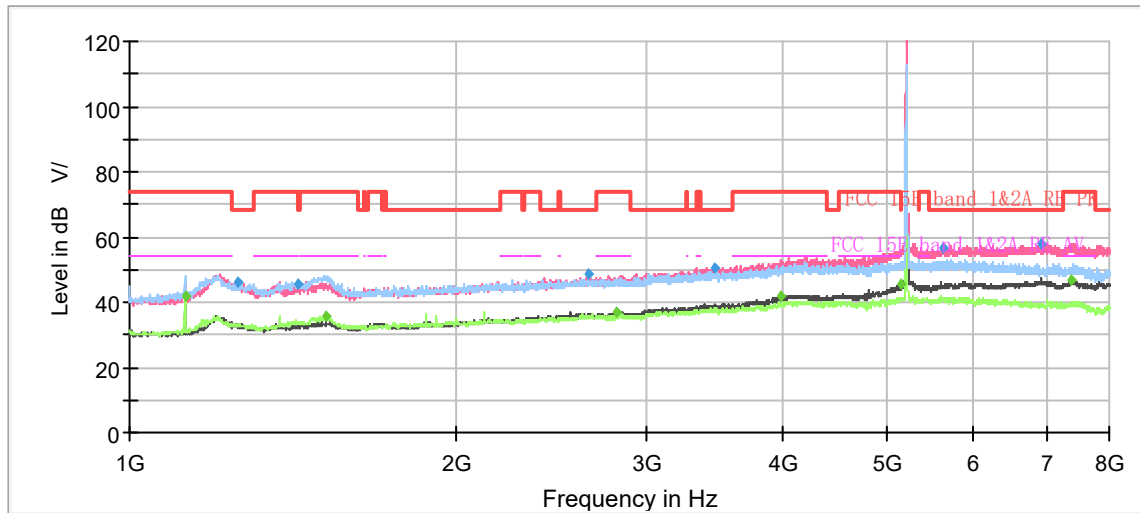
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8437.50	---	32.87	54.00	21.13	500.00	200.0	V	197.00	4
8537.50	44.55	---	68.20	23.65	500.00	200.0	V	248.00	4
9343.75	---	32.85	54.00	21.15	500.00	200.0	V	316.00	4
9735.00	44.14	---	68.20	24.06	500.00	100.0	V	45.00	4
10596.25	44.97	---	68.20	23.23	500.00	200.0	V	326.00	5
10616.25	---	33.90	54.00	20.10	500.00	100.0	V	137.00	5
12683.75	---	34.90	54.00	19.10	500.00	100.0	V	60.00	8
12713.75	46.61	---	68.20	21.59	500.00	100.0	V	169.00	8
13275.00	---	36.49	54.00	17.51	500.00	200.0	V	134.00	9
13692.50	49.42	---	68.20	18.78	500.00	200.0	H	279.00	10
15312.50	53.43	---	68.20	14.77	500.00	200.0	V	144.00	13
15715.00	---	44.56	54.00	9.44	500.00	200.0	V	243.00	14

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

5M: 5200MHz



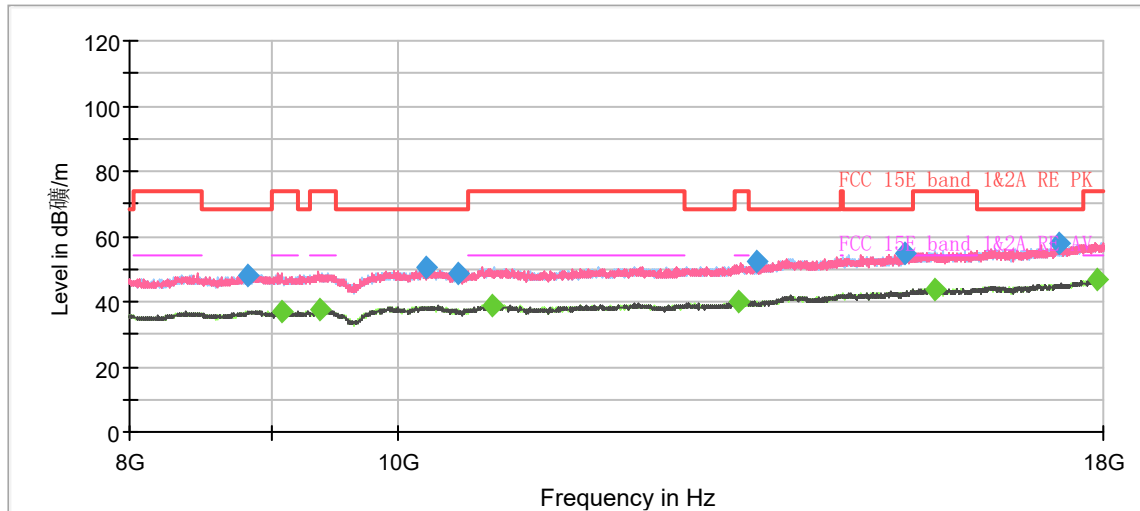
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	41.68	54.00	12.32	500.00	100.0	H	168.00	-8
1256.38	46.28	---	68.20	21.92	500.00	100.0	V	242.00	-7
1427.00	45.74	---	68.20	22.46	500.00	200.0	H	52.00	-6
1514.50	---	35.81	54.00	18.19	500.00	100.0	H	71.00	-6
2652.88	48.57	---	68.20	19.63	500.00	200.0	V	286.00	0
2810.38	---	36.63	54.00	17.37	500.00	200.0	V	320.00	1
3462.25	50.55	---	68.20	17.65	500.00	200.0	V	57.00	4
3987.25	---	41.70	54.00	12.30	500.00	100.0	V	134.00	6
5146.63	---	45.23	54.00	8.77	500.00	100.0	V	92.00	9
5619.13	56.90	---	68.20	11.30	500.00	100.0	V	38.00	10
6929.88	58.12	---	68.20	10.08	500.00	200.0	V	353.00	11
7389.25	---	46.48	54.00	7.52	500.00	100.0	V	187.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



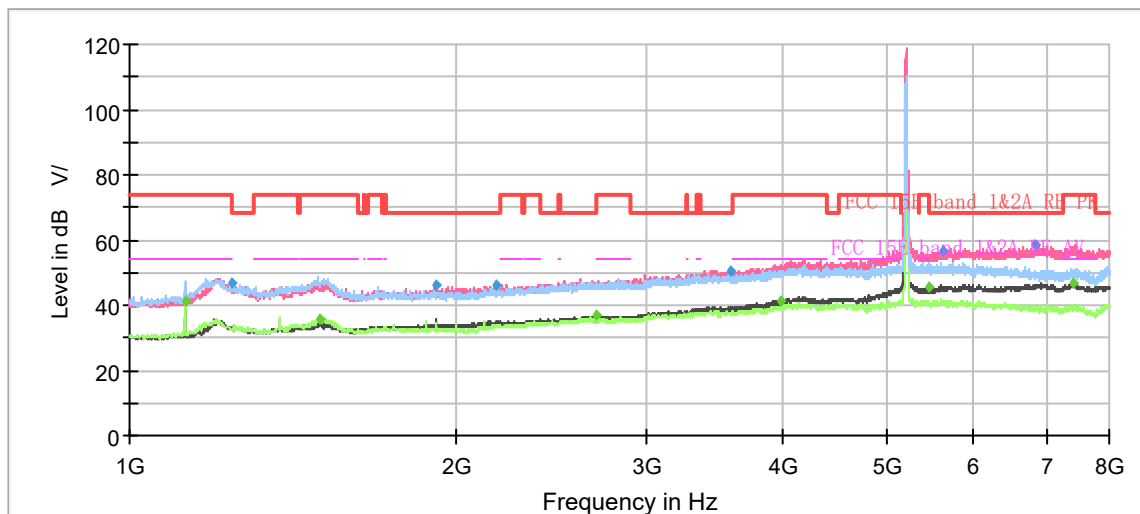
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8831.250000	48.25	---	68.20	19.95	500.0	200.0	H	352.0	-8.7
9088.750000	---	36.74	54.00	17.26	500.0	200.0	H	127.0	-8.4
9372.500000	---	37.55	54.00	16.45	500.0	100.0	H	31.0	-7.7
10232.500000	50.28	---	68.20	17.92	500.0	200.0	V	85.0	-6.6
10511.250000	48.85	---	68.20	19.35	500.0	200.0	H	352.0	-7.0
10812.500000	---	39.00	54.00	15.00	500.0	200.0	V	140.0	-6.0
13296.250000	---	40.22	54.00	13.78	500.0	200.0	H	0.0	-4.7
13482.500000	52.08	---	68.20	16.12	500.0	100.0	V	133.0	-4.2
15257.500000	54.65	---	68.20	13.55	500.0	200.0	V	94.0	-0.1
15641.250000	---	43.74	54.00	10.26	500.0	200.0	H	333.0	-0.5
17343.750000	57.56	---	68.20	10.64	500.0	200.0	H	17.0	1.6
17905.000000	---	46.67	54.00	7.33	500.0	100.0	V	310.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

10M: 5200MHz



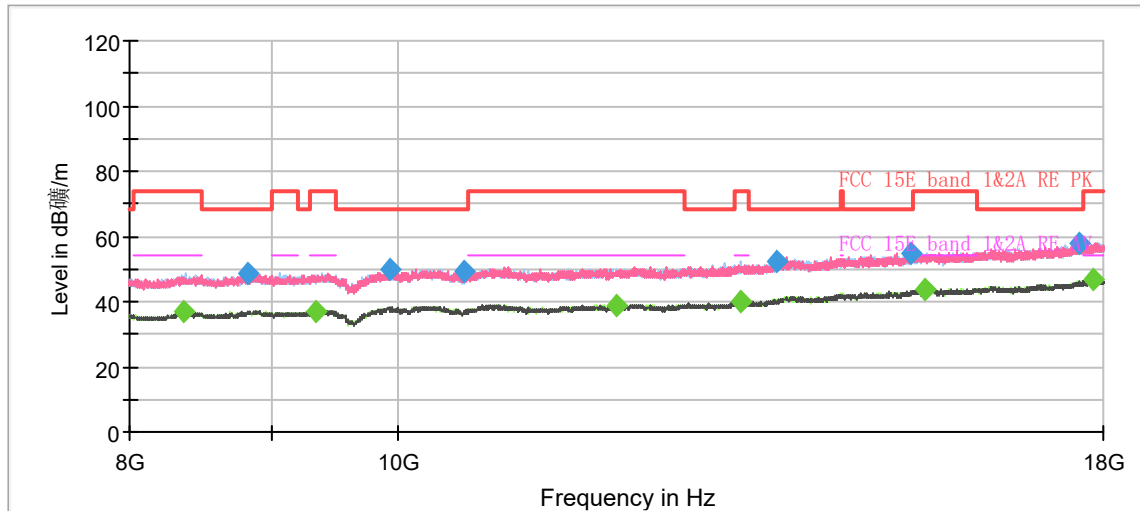
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	41.41	54.00	12.59	500.00	100.0	H	170.00	-8
1243.25	46.59	---	68.20	21.61	500.00	200.0	H	260.00	-7
1499.63	---	35.95	54.00	18.05	500.00	100.0	V	226.00	-6
1919.63	45.89	---	68.20	22.31	500.00	200.0	V	280.00	-3
2178.63	46.32	---	68.20	21.88	500.00	100.0	V	150.00	-2
2694.88	---	36.70	54.00	17.30	500.00	200.0	V	295.00	1
3582.13	50.77	---	68.20	17.43	500.00	100.0	V	289.00	4
3990.75	---	41.24	54.00	12.76	500.00	200.0	V	255.00	6
5459.88	---	45.54	54.00	8.46	500.00	100.0	V	94.00	9
5621.75	56.31	---	68.20	11.89	500.00	200.0	V	57.00	10
6845.88	58.23	---	68.20	9.97	500.00	200.0	V	0.00	10
7414.63	---	46.51	54.00	7.49	500.00	100.0	V	354.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



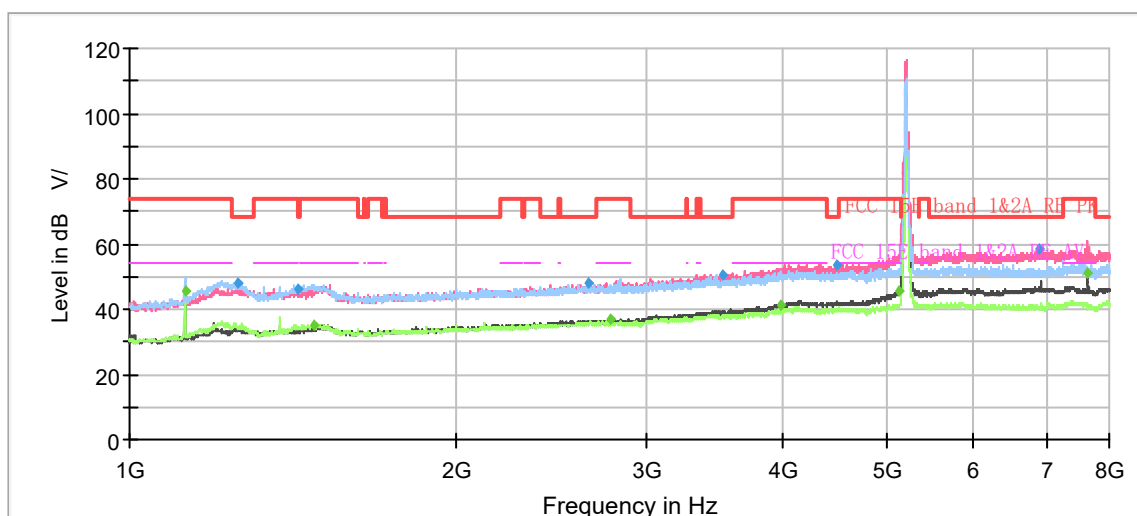
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8362.500000	---	36.96	54.00	17.04	500.0	200.0	H	331.0	-9.1
8826.250000	48.42	---	68.20	19.78	500.0	200.0	H	196.0	-8.7
9345.000000	---	37.19	54.00	16.81	500.0	200.0	H	325.0	-7.8
9936.250000	50.04	---	68.20	18.16	500.0	200.0	V	0.0	-6.8
10578.750000	48.98	---	68.20	19.22	500.0	100.0	V	35.0	-6.8
11990.000000	---	38.83	54.00	15.17	500.0	100.0	V	162.0	-6.2
13297.500000	---	40.02	54.00	13.98	500.0	200.0	H	0.0	-4.7
13707.500000	52.08	---	68.20	16.12	500.0	200.0	H	152.0	-3.7
15323.750000	54.80	---	68.20	13.40	500.0	200.0	V	41.0	0.3
15523.750000	---	43.86	54.00	10.14	500.0	200.0	H	246.0	-0.2
17642.500000	57.81	---	68.20	10.40	500.0	100.0	V	209.0	1.6
17841.250000	---	46.51	54.00	7.49	500.0	200.0	V	224.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

20M: 5200MHz



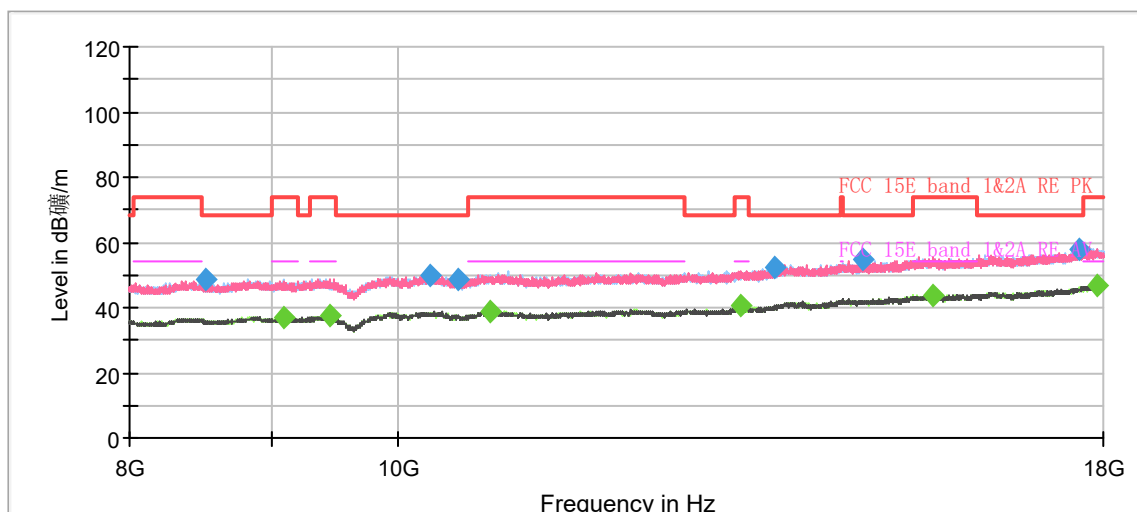
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	45.53	54.00	8.47	500.00	100.0	H	178.00	-8
1259.88	48.15	---	68.20	20.05	500.00	100.0	H	243.00	-7
1432.25	46.44	---	68.20	21.76	500.00	100.0	H	51.00	-6
1478.63	---	35.27	54.00	18.73	500.00	100.0	H	157.00	-6
2652.88	47.82	---	68.20	20.38	500.00	200.0	H	0.00	0
2778.00	---	36.63	54.00	17.37	500.00	100.0	V	15.00	1
3514.75	50.52	---	68.20	17.68	500.00	200.0	V	249.00	4
3988.13	---	41.50	54.00	12.50	500.00	200.0	V	354.00	6
4481.63	53.30	---	68.20	14.90	500.00	100.0	V	266.00	7
5115.13	---	45.29	54.00	8.71	500.00	200.0	V	78.00	9
6887.88	58.56	---	68.20	9.64	500.00	200.0	V	181.00	11
7642.13	---	50.91	54.00	3.09	500.00	200.0	V	85.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



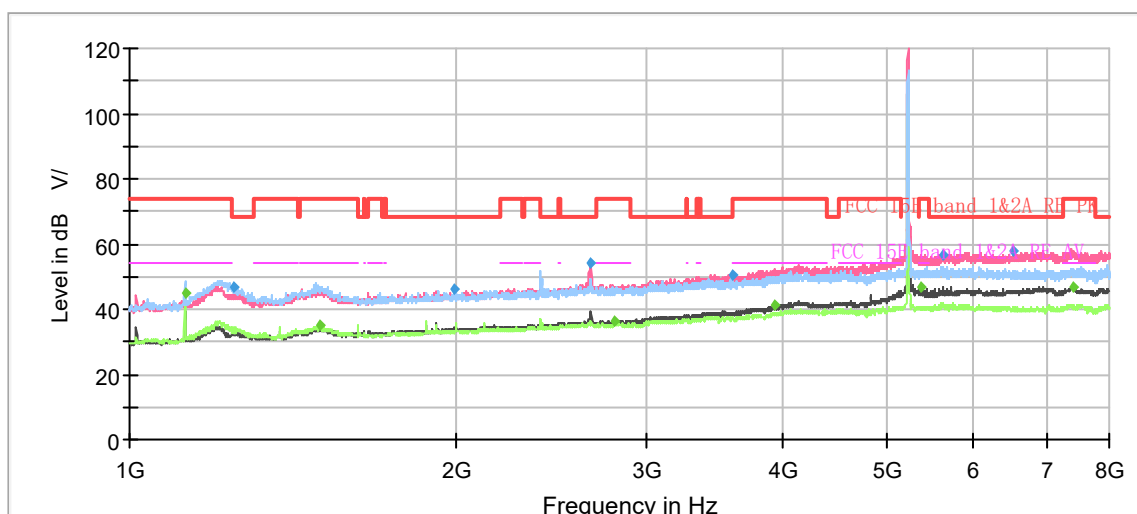
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8528.750000	48.69	---	68.20	19.51	500.0	100.0	H	127.0	-8.9
9090.000000	---	36.74	54.00	17.26	500.0	100.0	H	210.0	-8.4
9455.000000	---	37.32	54.00	16.68	500.0	200.0	V	157.0	-7.7
10280.000000	49.65	---	68.20	18.55	500.0	100.0	H	146.0	-6.5
10526.250000	48.84	---	68.20	19.36	500.0	100.0	H	0.0	-7.0
10803.750000	---	38.86	54.00	15.14	500.0	100.0	V	340.0	-6.0
13313.750000	---	40.32	54.00	13.68	500.0	100.0	H	171.0	-4.7
13695.000000	52.02	---	68.20	16.18	500.0	200.0	V	145.0	-3.7
14731.250000	54.65	---	68.20	13.55	500.0	100.0	H	203.0	-1.8
15611.250000	---	43.71	54.00	10.29	500.0	100.0	H	229.0	-0.4
17636.250000	57.63	---	68.20	10.57	500.0	200.0	H	354.0	1.6
17896.250000	---	46.61	54.00	7.39	500.0	200.0	H	228.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

5M: 5220MHz



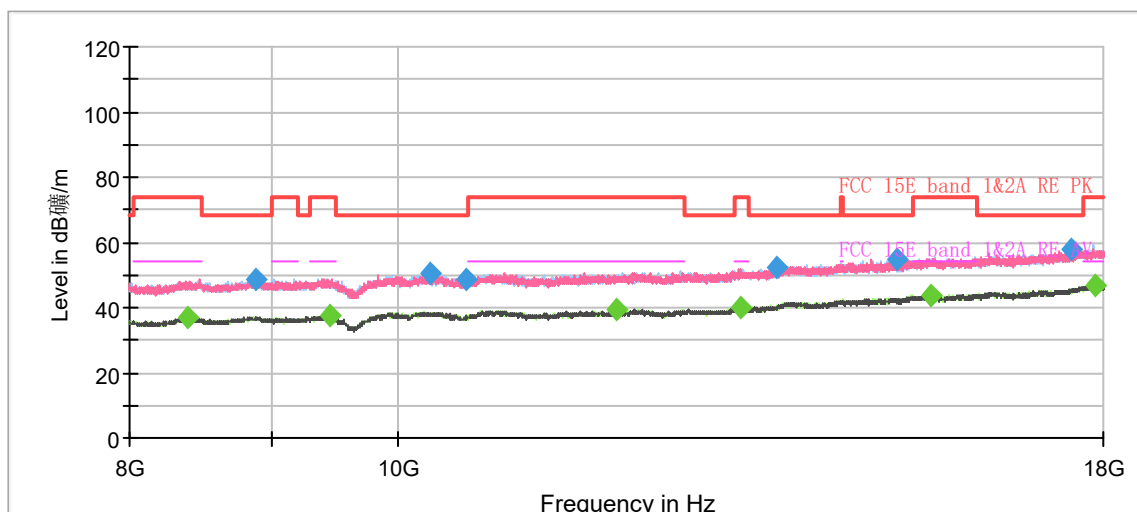
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	44.62	54.00	9.38	500.00	100.0	H	140.00	-8
1245.88	47.00	---	68.20	21.20	500.00	100.0	H	149.00	-7
1499.63	---	35.07	54.00	18.93	500.00	200.0	H	119.00	-6
1995.75	46.20	---	68.20	22.00	500.00	200.0	V	62.00	-3
2664.25	53.92	---	68.20	14.28	500.00	100.0	V	62.00	0
2799.88	---	36.40	54.00	17.60	500.00	100.0	V	43.00	1
3595.25	50.60	---	68.20	17.60	500.00	100.0	V	43.00	4
3940.88	---	41.05	54.00	12.95	500.00	200.0	V	42.00	6
5361.00	---	46.52	54.00	7.48	500.00	200.0	V	288.00	9
5620.88	56.88	---	68.20	11.32	500.00	100.0	V	263.00	10
6516.88	58.00	---	68.20	10.20	500.00	100.0	V	145.00	10
7404.13	---	46.92	54.00	7.08	500.00	200.0	V	203.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



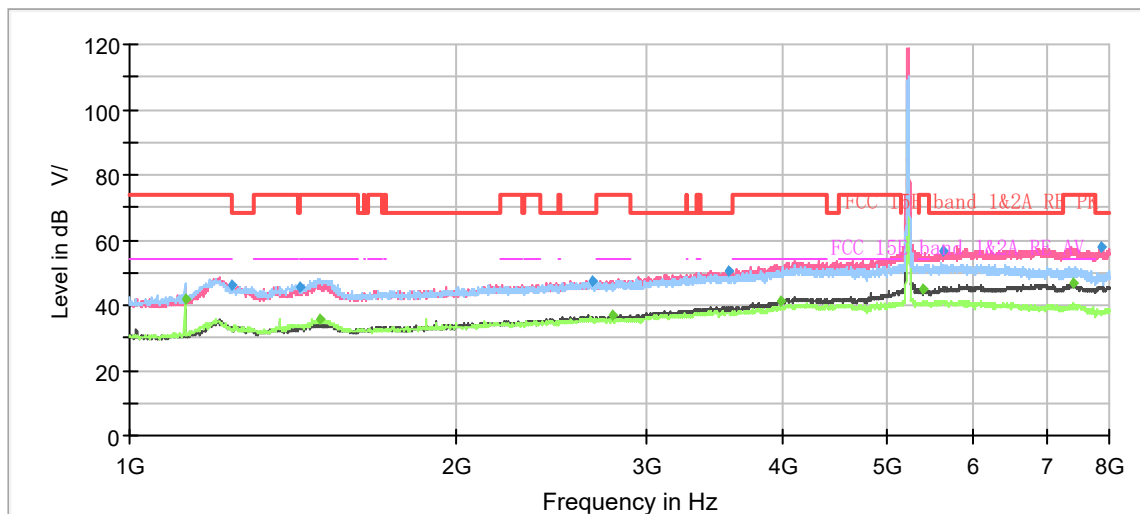
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8402.500000	---	36.74	54.00	17.26	500.0	200.0	H	182.0	-9.0
8891.250000	48.41	---	68.20	19.79	500.0	200.0	V	269.0	-8.7
9452.500000	---	37.26	54.00	16.74	500.0	200.0	V	48.0	-7.7
10278.750000	50.24	---	68.20	17.96	500.0	200.0	V	80.0	-6.5
10581.250000	48.67	---	68.20	19.53	500.0	200.0	H	232.0	-6.8
11990.000000	---	39.46	54.00	14.54	500.0	200.0	V	156.0	-6.2
13318.750000	---	40.29	54.00	13.71	500.0	100.0	H	83.0	-4.7
13708.750000	52.39	---	68.20	15.81	500.0	100.0	H	28.0	-3.7
15148.750000	54.56	---	68.20	13.64	500.0	200.0	H	232.0	-0.6
15588.750000	---	43.84	54.00	10.16	500.0	200.0	V	66.0	-0.3
17526.250000	57.68	---	68.20	10.52	500.0	100.0	H	147.0	1.6
17866.250000	---	46.54	54.00	7.46	500.0	100.0	H	147.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

10M: 5220MHz



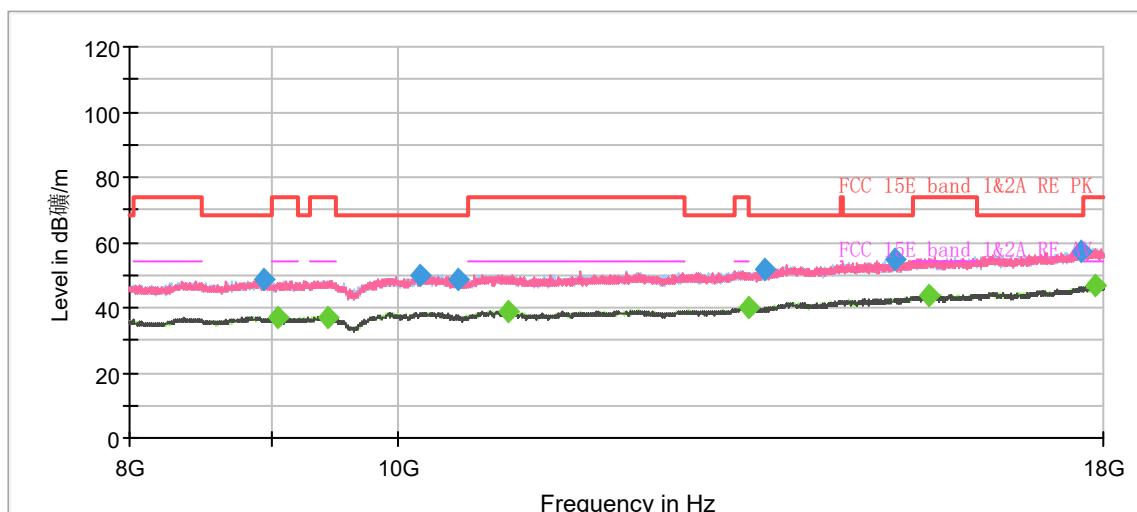
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	41.55	54.00	12.45	500.00	100.0	H	168.00	-8
1240.63	46.04	---	68.20	22.16	500.00	100.0	V	236.00	-7
1434.00	45.47	---	68.20	22.73	500.00	200.0	H	72.00	-6
1495.25	---	35.87	54.00	18.13	500.00	100.0	H	70.00	-6
2668.63	47.51	---	68.20	20.69	500.00	200.0	V	294.00	0
2782.38	---	36.98	54.00	17.02	500.00	200.0	V	352.00	1
3570.75	50.57	---	68.20	17.63	500.00	100.0	V	16.00	4
3985.50	---	41.35	54.00	12.65	500.00	200.0	V	342.00	6
5377.63	---	44.93	54.00	9.07	500.00	200.0	V	182.00	9
5621.75	56.34	---	68.20	11.86	500.00	100.0	V	116.00	10
7396.25	---	46.55	54.00	7.45	500.00	100.0	V	16.00	11
7874.00	57.81	---	68.20	10.39	500.00	200.0	V	259.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



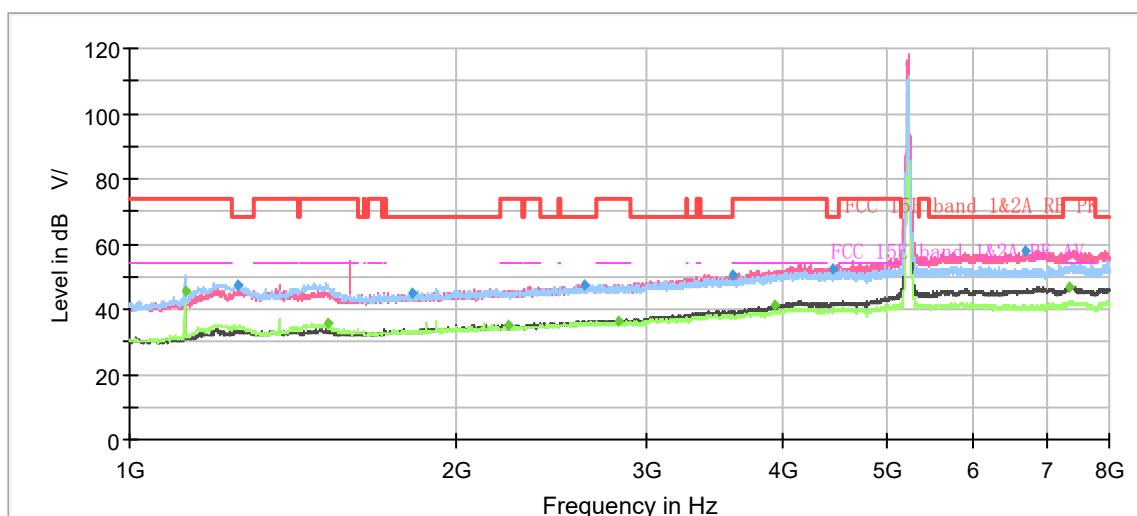
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8951.250000	48.33	---	68.20	19.87	500.0	100.0	V	76.0	-8.7
9053.750000	---	36.67	54.00	17.33	500.0	100.0	V	318.0	-8.5
9431.250000	---	37.15	54.00	16.85	500.0	200.0	H	309.0	-7.7
10196.250000	49.91	---	68.20	18.29	500.0	100.0	H	129.0	-6.7
10517.500000	48.45	---	68.20	19.75	500.0	100.0	H	191.0	-7.0
10962.500000	---	38.82	54.00	15.18	500.0	200.0	V	174.0	-6.4
13395.000000	---	40.14	54.00	13.86	500.0	100.0	H	222.0	-4.5
13570.000000	51.85	---	68.20	16.35	500.0	200.0	V	155.0	-4.0
15140.000000	54.51	---	68.20	13.69	500.0	200.0	H	296.0	-0.6
15562.500000	---	43.72	54.00	10.28	500.0	200.0	H	344.0	-0.3
17671.250000	57.29	---	68.20	10.91	500.0	200.0	H	208.0	1.6
17873.750000	---	46.61	54.00	7.39	500.0	100.0	H	191.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

20M: 5220MHz



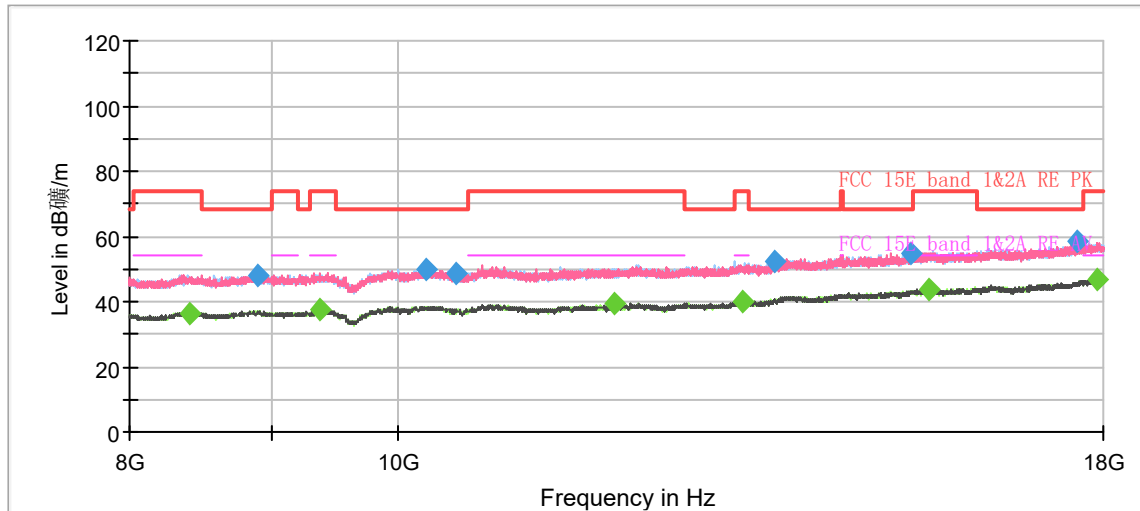
Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.25	---	45.54	54.00	8.46	500.00	100.0	H	179.00	-8
1256.38	47.52	---	68.20	20.68	500.00	200.0	H	69.00	-7
1520.63	---	35.72	54.00	18.28	500.00	100.0	H	315.00	-5
1818.13	45.04	---	68.20	23.16	500.00	200.0	V	91.00	-4
2233.75	---	35.06	54.00	18.94	500.00	100.0	V	320.00	-2
2628.38	47.61	---	68.20	20.59	500.00	100.0	V	234.00	0
2819.13	---	36.61	54.00	17.39	500.00	100.0	V	320.00	1
3597.88	50.74	---	68.20	17.46	500.00	100.0	V	259.00	4
3930.38	---	41.30	54.00	12.70	500.00	200.0	V	0.00	6
4445.75	52.44	---	68.20	15.76	500.00	200.0	V	0.00	7
6691.00	58.14	---	68.20	10.06	500.00	200.0	V	36.00	10
7360.38	---	47.00	54.00	7.00	500.00	100.0	V	270.00	11

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8408.750000	---	36.56	54.00	17.44	500.0	100.0	H	155.0	-9.0
8908.750000	48.08	---	68.20	20.12	500.0	100.0	V	350.0	-8.7
9372.500000	---	37.55	54.00	16.45	500.0	100.0	H	53.0	-7.7
10232.500000	50.13	---	68.20	18.07	500.0	200.0	V	170.0	-6.6
10503.750000	48.92	---	68.20	19.28	500.0	100.0	V	0.0	-6.9
11988.750000	---	39.08	54.00	14.92	500.0	200.0	V	119.0	-6.2
13325.000000	---	40.23	54.00	13.77	500.0	200.0	H	201.0	-4.6
13682.500000	52.03	---	68.20	16.17	500.0	200.0	H	68.0	-3.8
15346.250000	54.91	---	68.20	13.29	500.0	100.0	V	307.0	0.4
15570.000000	---	43.71	54.00	10.29	500.0	200.0	H	220.0	-0.3
17617.500000	58.60	---	68.20	9.60	500.0	100.0	H	123.0	1.6
17901.250000	---	46.52	54.00	7.48	500.0	200.0	H	106.0	1.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average