TEST REPORT

Test Report No. : UL-RPT-RP14614873JD04A

Customer	:	Apple Inc.
Model No.	:	A2786
FCC ID	:	BCGA2786
Technology	:	NB-FHSS
Test Standard(s)	:	FCC Parts 15.209(a) & 15.407
Test Laboratory	:	UL International (UK) Ltd, Basingstoke, Hampshire, RG24 8AH, United Kingdom

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2. The results in this report apply only to the sample(s) tested.
3. The sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. Version 1.0

Date of Issue: 06 March 2023

Checked by:

Sarah Williams
RF Operations Leader, Radio Laboratory

Sarah Williams
Digitally signed by Sarah Williams
Date: 2023.03.08 13:59:30 Z

Company Signatory:

Ben Mercer
Lead Project Engineer, Radio Laboratory

Ben Mercer
Digitally signed by Ben Mercer
Date: 2023.03.08 14:00:02 Z

5772

Customer Information

Company Name:	Apple Inc.
Address:	One Apple Park Way Cupertino, California 95014 U.S.A.
Contact Name:	Stuart Thomas

Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	06/03/2023	Initial Version	Sarah Williams

Table of Contents

1 Attestation of Test Results

1.1 Description of EUT

The equipment under test was a tower configuration Apple computer, with Bluetooth® and IEEE 802.11 a/b/g/n/ac/ax Wi-Fi capabilities in the 2.4 GHz, 5 GHz and 6 GHz bands.

1.2 General Information

Specification Reference:	47CFR15.407 and 47CFR15.403
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart E (Unlicensed National Information Infrastructure Devices) – Sections 15.403 and 15.407
Specification Reference:	47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Sections 15.209
Site Registration:	685609
Lab. Designation No.:	UK2011
Location of Testing:	Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	22 November 2022 to 08 February 2023

1.3 Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.35(c)	Transmitter Duty Cycle	Note 1
Part 15.403	Transmitter 26 dB Emission Bandwidth	Complied
Part 15.407(e)	Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band)	Complied
Part 15.407(a)(1)(iv)	Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band)	Complied
Part 15.407(a)(3)(i)	Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band)	Complied
Part 15.407(a)(1)(iv)	Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band)	Complied
Part 15.407(a)(3)(i)	Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band)	Complied
Part 15.407(b) & 15.209(a)	Transmitter Out of Band Radiated Emissions	Complied
Part 15.407(b) & 15.209(a)	Transmitter Band Edge Radiated Emissions	Complied
Part 15.407(g)	Transmitter Frequency Stability (Temperature & Voltage Variation)	Note 2

Note(s):

1. The measurement was performed to assist in the calculation of the level of average output power, power spectral density and emissions as the EUT employs pulsed operation.
2. Frequency stability is better than 20 ppm which ensures that the signal remains in the allocated bands under all operational conditions stated in the user manual.

1.4 Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specifications identified above.

2 Summary of Testing

2.1 Facilities and Accreditation

The test site and measurement facilities used to collect data are located at Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom. The following table identifies which facilities were utilised for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

Site 1	X
Site 2	-
Site 17	X

UL International (UK) Ltd is accredited by the United Kingdom Accreditation Service (UKAS). UKAS is one of the signatories to the International Laboratory Accreditation Co-operation (ILAC) Arrangement for the mutual recognition of test reports. The tests reported herein have been performed in accordance with its terms of accreditation.

2.2 Methods and Procedures

Reference:	ANSI C63.10-2013
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 December 14, 2017
Title:	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices (Part 15, Subpart E)
Reference:	KDB 662911 D01 Multiple Transmitter Output v02r01 October 31, 2013
Title:	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

2.3 Calibration and Uncertainty

Measuring Instrument Calibration

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

Measurement Uncertainty & Decision Rule

Overview

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

Decision Rule

The decision rule applied is based upon the accuracy method criteria. The measurement uncertainty is met and the result is considered in conformance with the requirement criteria if the observed value is within the prescribed limit.

Measurement Uncertainty

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Duty Cycle	5.15 GHz to 5.850 GHz	95%	±1.14 %
26 dB Emission Bandwidth	5.15 GHz to 5.850 GHz	95%	±4.59 %
Minimum 6 dB Emission Bandwidth	5.15 GHz to 5.850 GHz	95%	±4.59 %
Maximum Conducted Output Power	5.15 GHz to 5.850 GHz	95%	±1.13 dB
Maximum Power Spectral Density	5.15 GHz to 5.850 GHz	95%	±1.13 dB
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	±5.32 dB
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±3.30 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	±3.16 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

2.4 Test and Measurement Equipment

Test Equipment Used for Transmitter Duty Cycle, Minimum 6 dB Bandwidth (5.725-5.85 GHz band), Maximum Conducted Output Power and Power Spectral Density

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2037	Thermohygrometer	Testo	608-H1	45124925	08 Dec 2023	12
M221040	Signal Analyser	Rohde & Schwarz	FSV3030	101864	08 Jun 2023	12
G0614	Signal Geneator	Rohde & Schwarz	SMB100A	177687	19 May 2023	36
A213953	Attenuator	Atlantic Microwave	ATT10KXP-483082-N4N5	21415050	Calibrated before use	-

Test Equipment Used for Transmitter 26 dB Emission Bandwidth

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2037	Thermohygrometer	Testo	608-H1	45124925	08 Dec 2023	12
L217614	Signal Analyser	Keysight	N9030B	MY60070411	22 Apr 2023	12
G0614	Signal Geneator	Rohde & Schwarz	SMB100A	177687	19 May 2023	36
A213953	Attenuator	Atlantic Microwave	ATT10KXP-483082-N4N5	21415050	Calibrated before use	-

Test and Measurement Equipment (continued)

Test Equipment Used for Transmitter Radiated Emissions

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2040	Thermohygrometer	Testo	608-H1	45124934	09 Dec 2023	12
K0001	3m RSE Chamber	Rainford EMC	N/A	N/A	05 Sep 2023	12
M1874	Test Receiver	Rohde & Schwarz	ESU26	100553	19 May 2023	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	02 Nov 2023	12
M2077	Test Receiver	Rohde & Schwarz	ESW44	102026	15 Feb 2023	12
A3154	Pre Amplifier	Com-Power	PAM-103	18020012	18 Aug 2023	12
A3179	Pre Amplifier	Hewlett Packard	8449B	3008A00934	14 Sep 2023	12
A222867	Pre Amplifier	Atlantic Microwave	A-LNAKX-380116-S5S5	210865001	26 Aug 2023	12
A3165	Antenna	ETS-Lindgren	6502	00224383	05 May 2023	12
A3161	Antenna	Teseq	CBL6111D	50859	03 May 2023	12
A3138	Antenna	Schwarzbeck	BBHA 9120 B	00702	22 Aug 2023	12
A3139	Antenna	Schwarzbeck	HWRD 750	00027	22 Aug 2023	12
A3113	Attenuator	AtlanTecRF	AN18-06	219706#3	03 May 2023	12
A2523	Attenuator	AtlanTecRF	AN18W5-10	832827#1	27 Jan 2023	12
A3085	Low Pass Filter	AtlanTecRF	AFL-02000	18051600014	27 Jan 2023	12
A3095	High Pass Filter	AtlanTecRF	AFH-07000	18051600012	27 Jan 2023	12
A212041	High Pass Filter	Micro-Tronics	HPS20723	001	27 Jan 2023	12
M2003	Thermohygrometer	Testo	608-H1	45046641	09 Dec 2023	12
K0017	3m RSE Chamber	Rainford EMC	N/A	N/A	08 Nov 2023	12
A3265	Pre-Amplifier	Schwarzbeck	BBV 9721	9721-069	31 Oct 2023	12
A2892	Antenna	Schwarzbeck	BBHA 9170	9170-727	31 Oct 2023	12

Test Equipment Used for Transmitter Band Edge Radiated Emissions

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2040	Thermohygrometer	Testo	608-H1	45124934	09 Dec 2023	12
K0001	3m RSE Chamber	Rainford EMC	N/A	N/A	05 Sep 2023	12
M2044	Test Receiver	Rohde & Schwarz	ESU26	100122	29 Apr 2023	12
A3179	Pre-Amplifier	Agilent	8449B	3008A00934	14 Sep 2023	12
A3138	Antenna	Hewlett Packard	BBHA 9120 B	00702	22 Aug 2023	12
A2523	Attenuator	AtlanTecRF	AN18W5-10	832827#1	27 Jan 2023	12

3 Equipment Under Test (EUT)

3.1 Identification of Equipment Under Test (EUT)

Brand Name:	Apple
Model Name or Number:	A2786
Test Sample Serial Number:	HP4WQ0NY7K *(Radiated sample #1)*
Hardware Version:	REV 1.0
Software Version:	22E51010k
FCC ID:	BCGA2786
Date of Receipt:	11 November 2022

Brand Name:	Apple
Model Name or Number:	A2786
Test Sample Serial Number:	D07J73TQJY *(Radiated sample #2)*
Hardware Version:	REV 1.0
Software Version:	22E71580u
FCC ID:	BCGA2786
Date of Receipt:	11 January 2023

Brand Name:	Apple
Model Name or Number:	A2786
Test Sample Serial Number:	CG66NP726G *(Conducted sample)*
Hardware Version:	REV 1.0
Software Version:	22E51010k
FCC ID:	BCGA2786
Date of Receipt:	11 January 2023

3.2 Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3 Additional Information Related to Testing

Technology Tested:	NarrowBand FHSS		
Type of Unit:	Transceiver		
Mode:	Basic Rate	High Data Rate	
Modulation:	GFSK	π/4-DQPSK	
Packet Type (Maximum Payload):	DH5	4DH5	8DH5
Data Rate (Mbit/s):	1	4	8
Power Supply Requirement:	Nominal	12.0 VDC via 120 VAC 60 Hz adaptor	
Maximum Conducted Output Power:	DH5	12.9 dBm	
	4DH5	14.0 dBm	
	8DH5	13.9 dBm	
Channel Bandwidth(s):	1, 2 & 4 MHz		
Transmit Frequency Range:	5150 MHz to 5250 MHz		
Transmit Channels Tested:	**Channel ID**	**Channel Frequency (MHz)**	
	Bottom	5162	
	Middle	5203	
	Top	5245	
Transmit Frequency Range:	5725 MHz to 5850 MHz		
Transmit Channels Tested:	**Channel ID**	**Channel Frequency (MHz)**	
	Bottom	5733	
	Middle	5788	
	Top	5844	

3.4 Description of Available Antennas

The radio utilizes two integrated antennas, with the following maximum gains:

Antenna Port	Frequency Range (MHz)	Antenna Gain (dBi)
Core 0	5150 to 5250	4.8
	5725 to 5850	5.4
Core 1	5150 to 5250	4.1
	5725 to 5850	5.9

The EUT also supports TxBF with unequal gains and equal transmit powers. Calculations for directional gain were in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i). Directional gain of Core 0 & Core 1 was calculated as:

Frequency Band 5150-5250 MHz

N_{SS}=1, N_{ANT}=2, G_1 = $G_{Core\ 0}$ = 4.8 dBi, G_2 = $G_{Core\ 1}$ = 4.1 dBi:

$$\text{Directional Gain} = 10\log\left[\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \cdots + 10^{\frac{G_N}{20}}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}}\right)^2}{2}\right]$$

$$= 10\log\left[\frac{\left(10^{\frac{4.8}{20}} + 10^{\frac{4.1}{20}}\right)^2}{2}\right] = 7.5\ \text{dBi}$$

Frequency Band 5725-5850 MHz

N_{SS}=1, N_{ANT}=2, G_1 = $G_{ANTENNA\ Core\ 0}$ = 5.4 dBi, G_2 = $G_{ANTENNA\ Core\ 1}$ = 5.9 dBi:

$$\text{Directional Gain} = 10\log\left[\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \cdots + 10^{\frac{G_N}{20}}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}}\right)^2}{2}\right]$$

$$= 10\log\left[\frac{\left(10^{\frac{5.4}{20}} + 10^{\frac{5.9}{20}}\right)^2}{2}\right] = 8.7\ \text{dBi}$$

3.5 Description of Test Setup

Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Test Laptop
Brand Name:	Apple
Model Name or Number:	MacBook Pro
Serial Number:	C02DJ05D0HDF

Description:	USB Diagnostic Cable
Brand Name:	Apple
Model Name or Number:	Chimp
Serial Number:	427A65

Description:	Test Laptop
Brand Name:	Apple
Model Name or Number:	MacBook Pro
Serial Number:	C02C800FP0CW

Description:	USB Diagnostic Cable
Brand Name:	Apple
Model Name or Number:	Chimp
Serial Number:	428A48

Description:	USB/HDMI/Ethernet Termination Hub. Quantity 2.
Brand Name:	Lemorele
Model Name or Number:	TC19
Serial Number:	Not marked or stated

Description:	Termination Hub
Brand Name:	Hama
Model Name or Number:	USB 2.0
Serial Number:	00078498

Description:	Termination Hub
Brand Name:	Lenovo ThinkPad USB-C Dock
Model Name or Number:	DK1633
Serial Number:	ZAF0LGYU

Support Equipment (continued)

Description:	Personal Hands Free (PHF)
Brand Name:	Not marked or stated
Model Name or Number:	MD827ZM/A
Serial Number:	Not marked or stated

Description:	USB C Cables. Quantity 4. Length 3 m.
Brand Name:	Nimaso
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	USB-C to A Adaptor. Quantity 4.
Brand Name:	Not marked or stated
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	Ethernet Cable. Quantity 2. Length 3 m.
Brand Name:	Not marked or stated
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	USB A Cable. Quantity 6. Length 3m.
Brand Name:	Not marked or stated
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	HDMI Cables. Quantity 2. Length 3m.
Brand Name:	KabelDirekt
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Operating Modes

The EUT was tested in the following operating mode(s):

- Continuously transmitting with a modulated carrier at maximum power on the bottom, middle and top channels as required using the supported packet types.
- Transmitting on Core 0 or Core 1 in SISO configuration or Core 0 + Core 1 in TxBF configuration, on either the iPA or ePA path.

Configuration and Peripherals

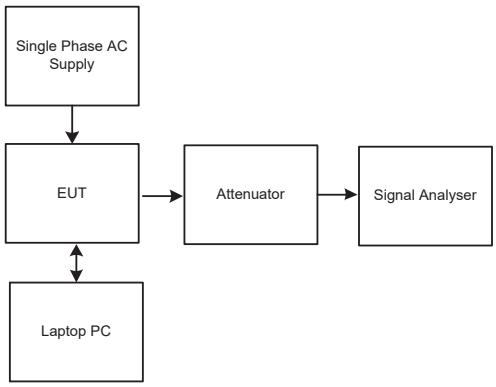
The EUT was tested in the following configuration(s):

- A test laptop with the customer's test application was used to place the EUT into NarrowBand test mode. The application was used to enable continuous transmission and to select the test channels & packet types as required. The customer supplied instructions to configure the EUT into test mode.
- The customer supplied U.FL RF cables with the EUT in order to perform conducted measurements. The measured additional path loss was included in any path loss calculations.
- RF cables and attenuators connecting the test equipment to the EUT were calibrated before use and the calibration data incorporated into the conducted measurement results.
- The EUT was powered from a 120 VAC 60 Hz single phase mains supply.
- Transmitter radiated spurious emissions tests were performed with the EUT transmitting in 4DH5 Beamforming / Core 0 + Core 1 / ePA, as this mode was found to transmit the highest output power.
- Radiated spurious emissions were performed with the EUT in the position that produced worst case with respect to emissions. All ports were terminated into suitable terminations and placed under the turntable.
- Transmitter radiated band edge measurement were performed with the EUT Y orientation/position as declared by the customer.

Test Setup Diagrams

Conducted Tests:

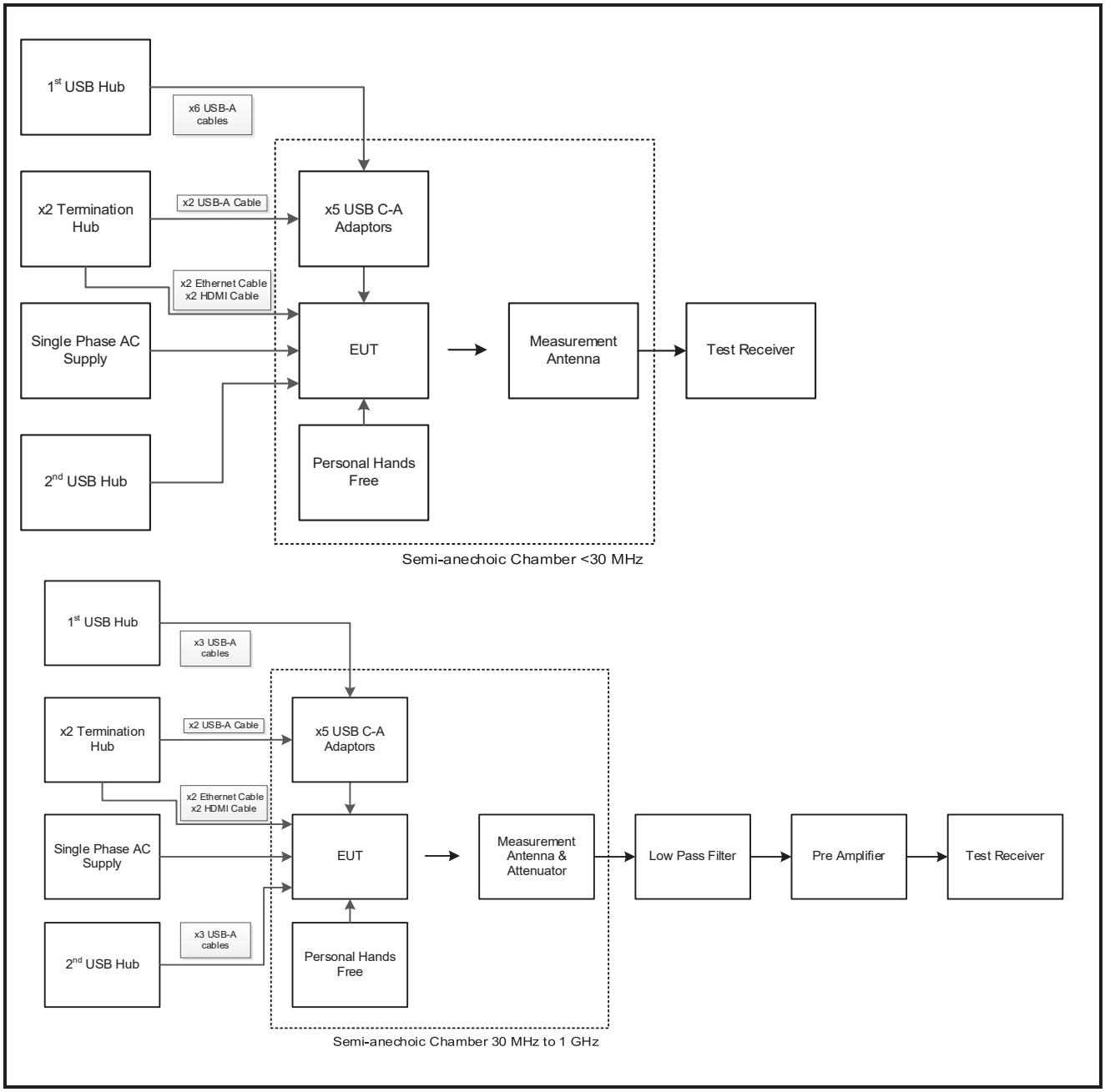
Test Setup for Transmitter Conducted Tests



Test Setup Diagrams (continued)

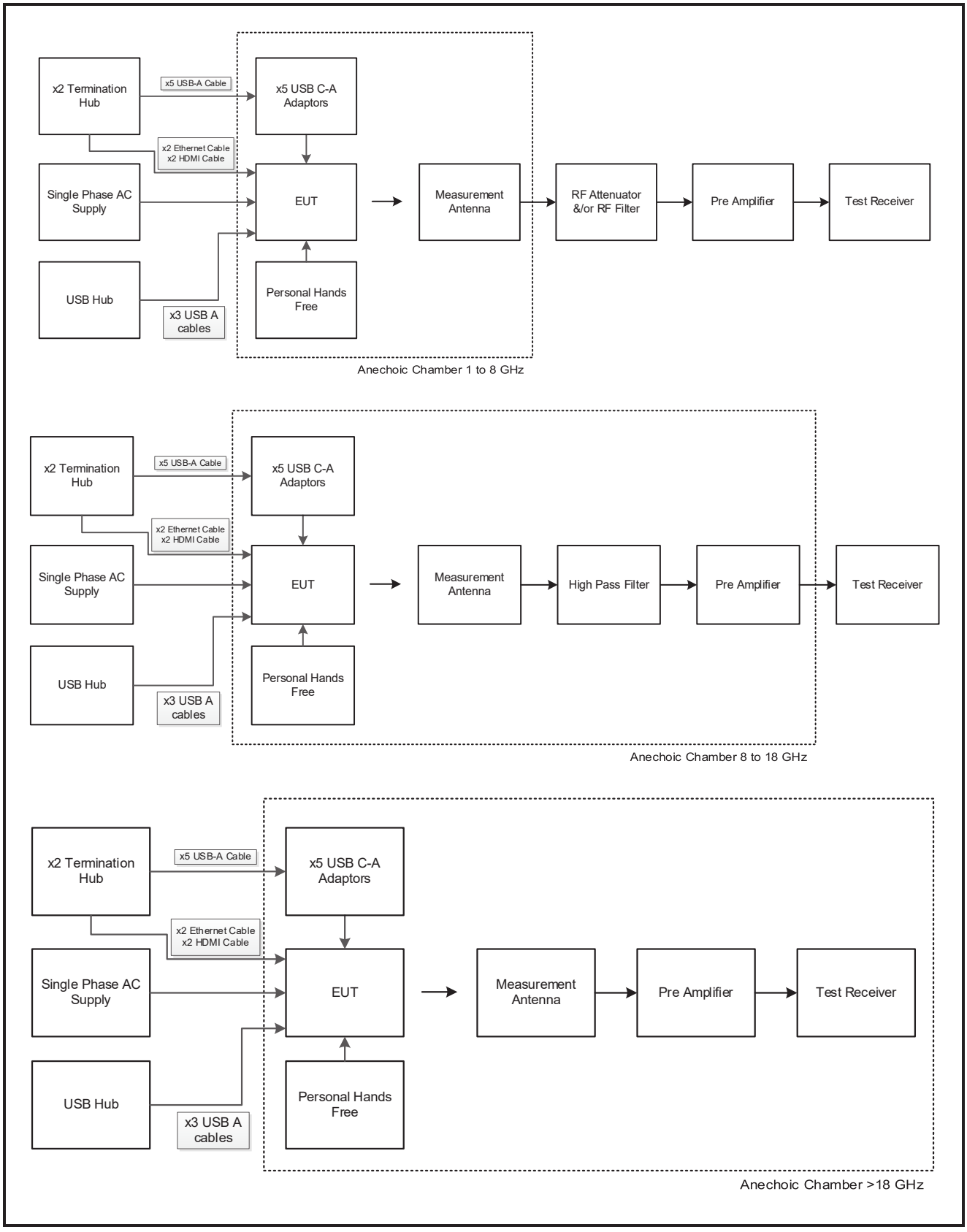
Radiated Tests:

Test Setup for Transmitter Radiated Emissions



Test Setup Diagrams (continued)

Test Setup for Transmitter Radiated Emissions (continued)



4 Antenna Port Test Results

4.1 Transmitter Duty Cycle

Test Summary:

Test Engineer:	Jose Bayona	**Test Date:**	12 January 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.35(c)
Test Method Used:	KDB 789033 D02 Section II.B.2.b)

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	32

Note(s):

1. In order to assist with the determination of the average level of fundamental and spurious emissions field strength, measurements were made of duty cycle to determine the transmission duration and the silent period time of the transmitter. The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by using the following calculation:

10 log 1 / (On Time / [Period or 100ms whichever is the lesser]).

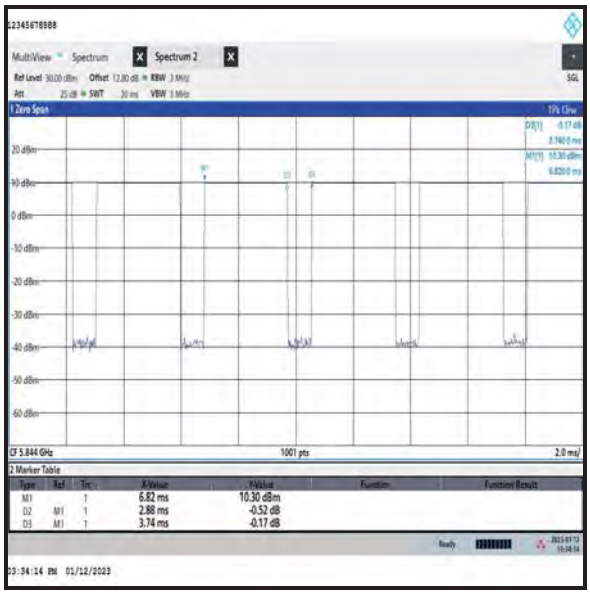
DH5 duty cycle: 10 log (1 / (2.880/3.740)) = 1.1 dB
4DH5 duty cycle: 10 log (1 / (2.940/3.760)) = 1.1 dB
8DH5 duty cycle: 10 log (1 / (2.940/3.740)) = 1.0 dB

2. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cables. An RF level offset was entered on the signal analyser to compensate for the loss of the switch, attenuators and RF cables.

Transmitter Duty Cycle (continued)

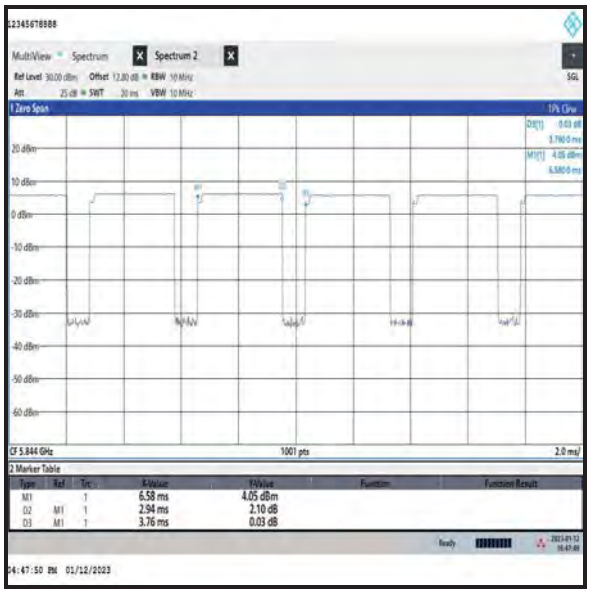
Results: DH5

Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
2.880	3.740	1.1



Results: 4DH5

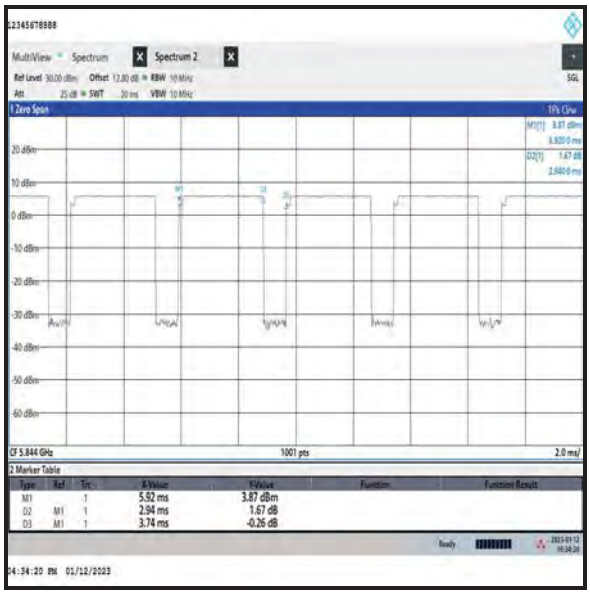
Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
2.940	3.760	1.1



Transmitter Duty Cycle (continued)

Results: 8DH5

Pulse Duration (ms)	Period (ms)	Duty Cycle (dB)
2.940	3.740	1.0



4.2 Transmitter 26 dB Emission Bandwidth

Test Summary:

Test Engineer:	Jose Bayona	**Test Dates:**	13 January 2023 to 20 January 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.403
Test Method Used:	KDB 789033 D02 Section II.C.1.

Environmental Conditions:

Temperatures (°C):	21 to 24
Relative Humidity (%):	31 to 32

Note(s):

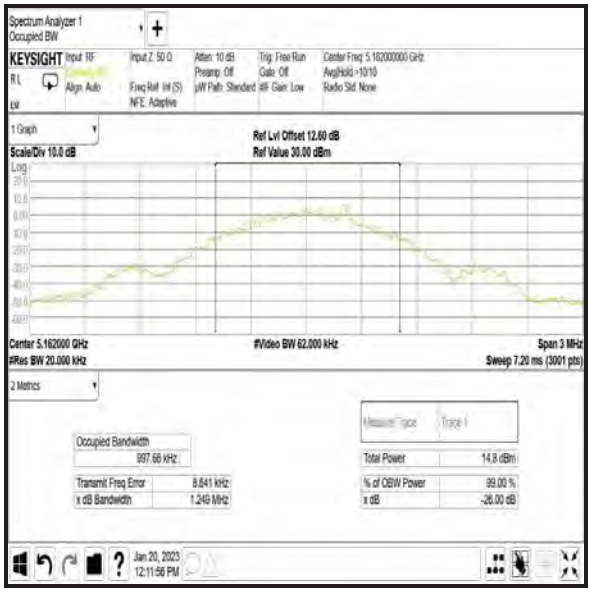
1. The signal analyser's resolution bandwidth was set to approximately 1% of the measured 26 dB emission bandwidth.
2. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

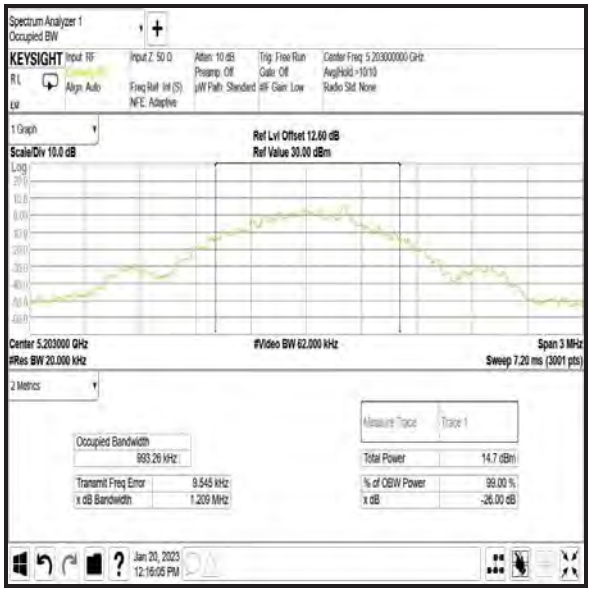
4.2.1 5.15-5.25 GHz band

Results: DH5 / SISO / Core 0 / iPA

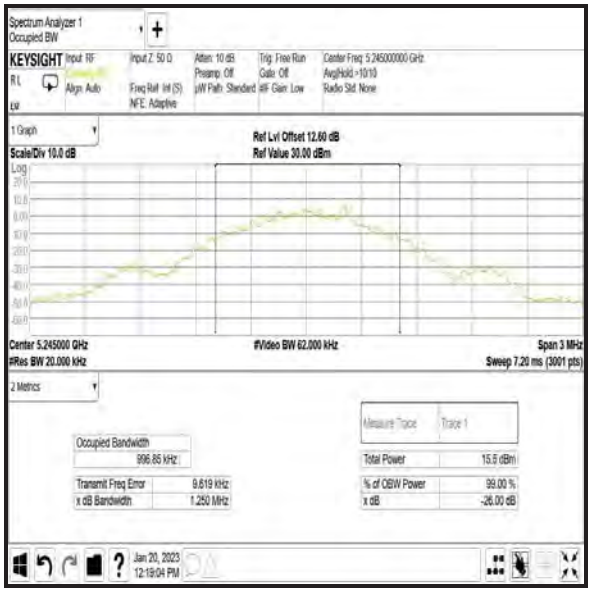
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	1.249
Middle	5203	1.209
Top	5245	1.250



Bottom Channel



Middle Channel

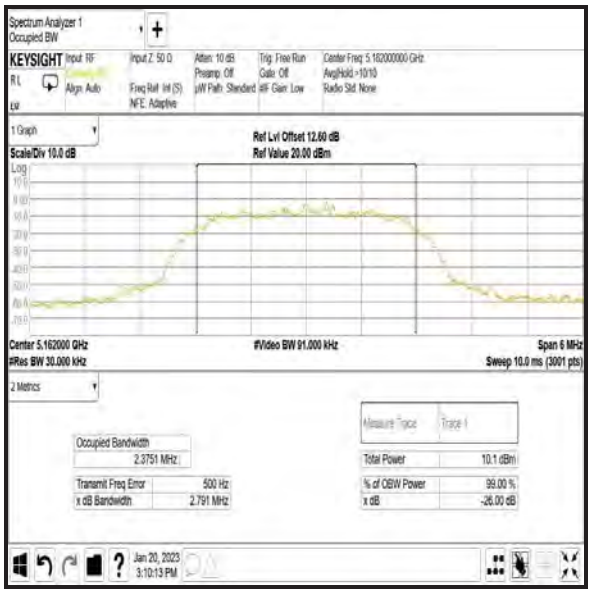


Top Channel

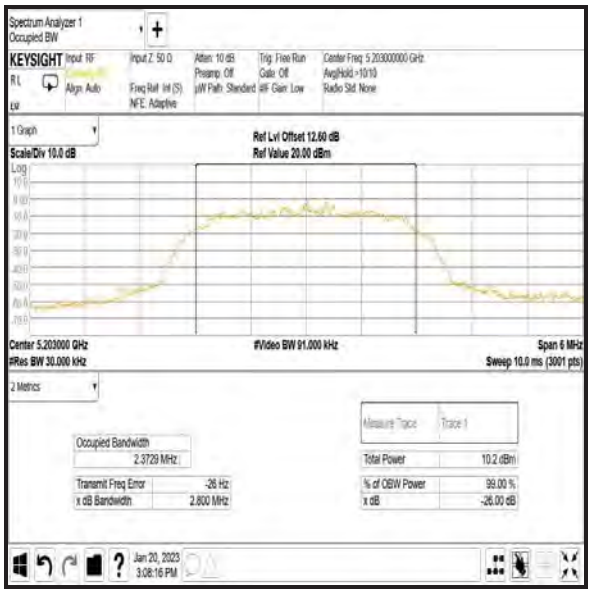
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / iPA

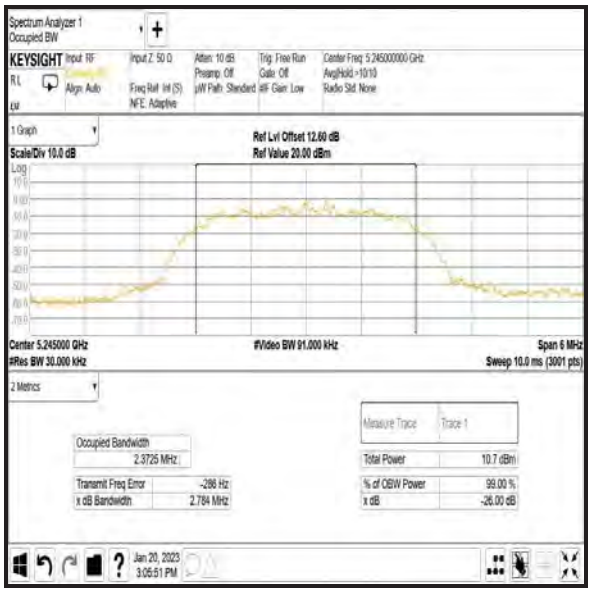
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	2.791
Middle	5203	2.800
Top	5245	2.784



Bottom Channel



Middle Channel

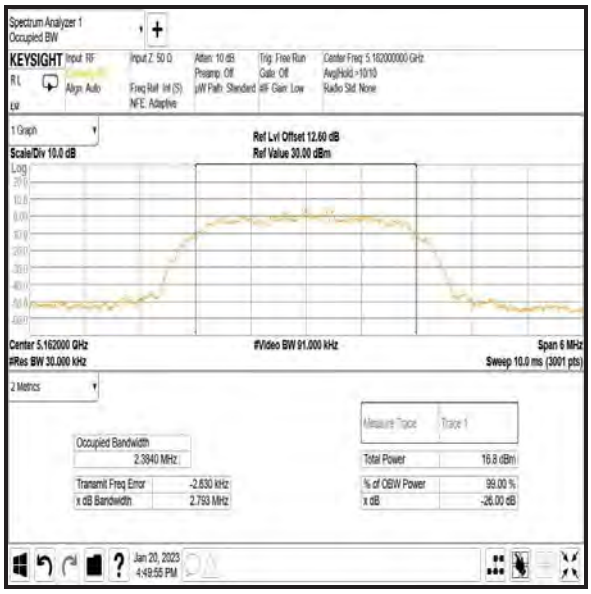


Top Channel

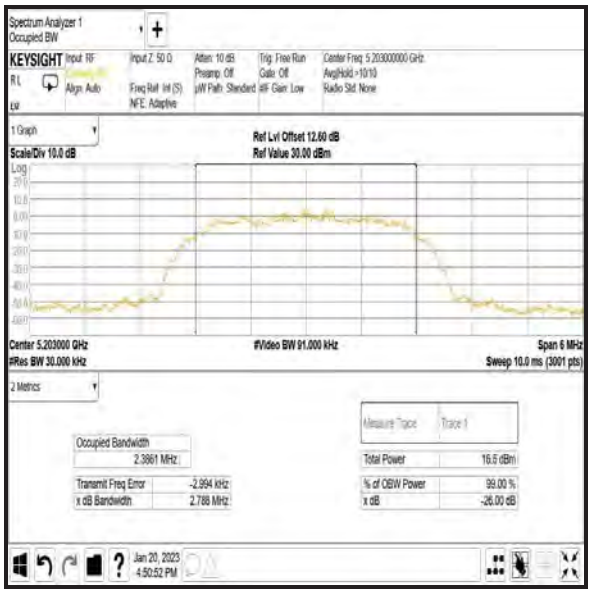
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / ePA

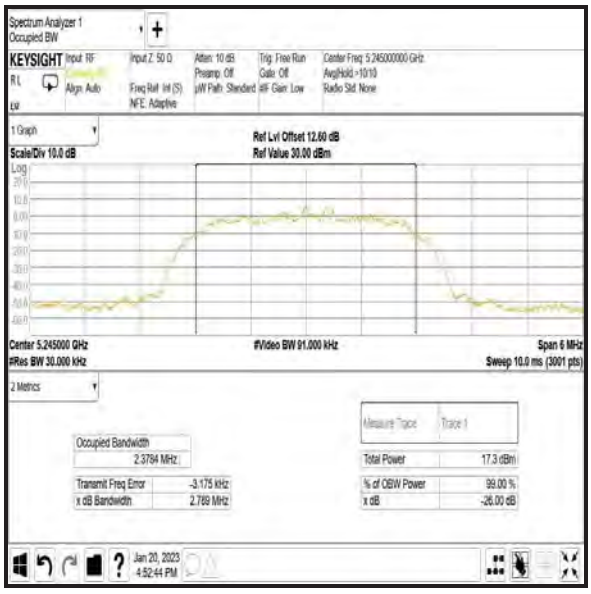
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	2.793
Middle	5203	2.788
Top	5245	2.789



Bottom Channel



Middle Channel

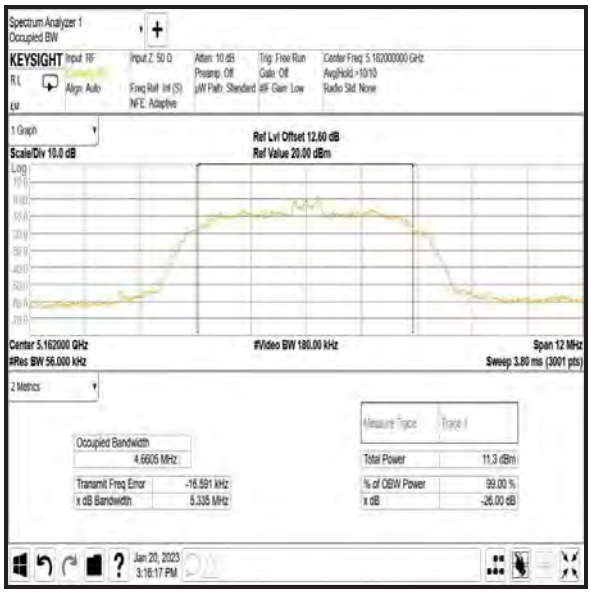


Top Channel

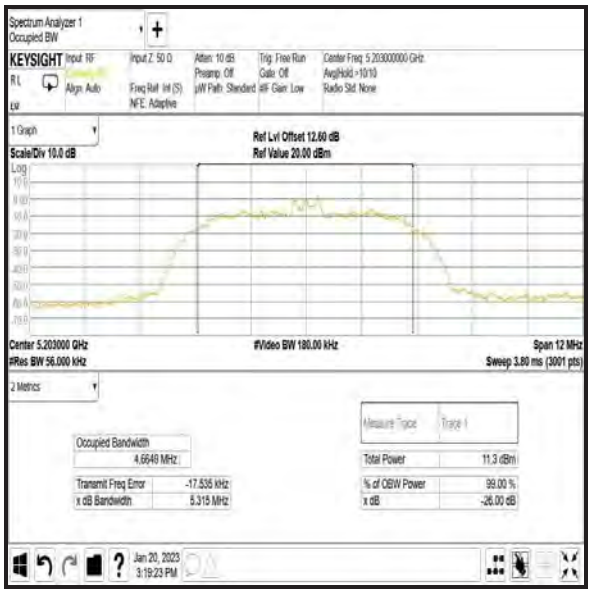
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / iPA

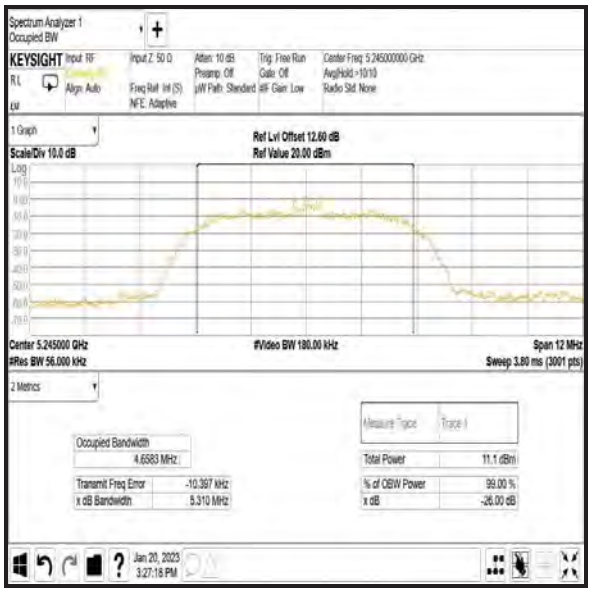
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	5.335
Middle	5203	5.315
Top	5245	5.310



Bottom Channel



Middle Channel

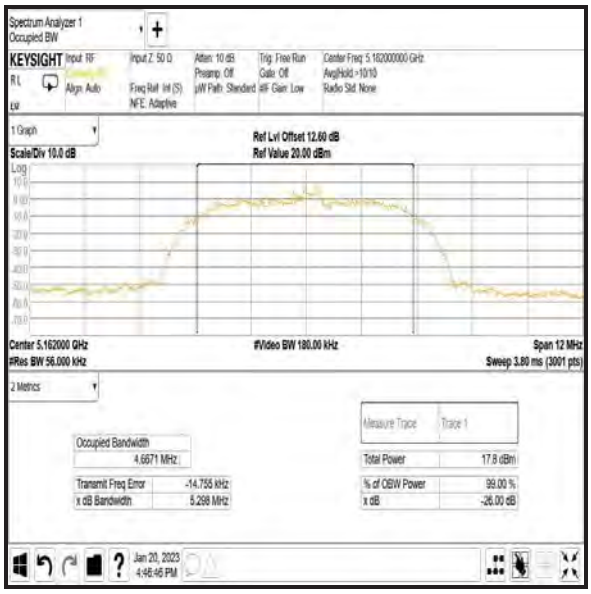


Top Channel

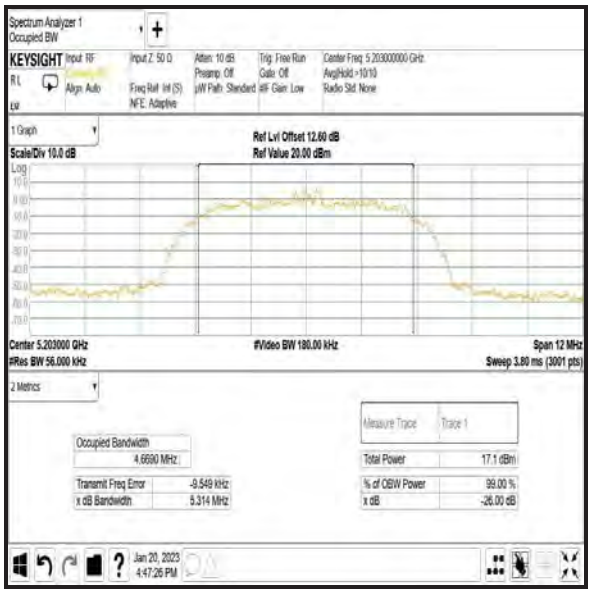
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / ePA

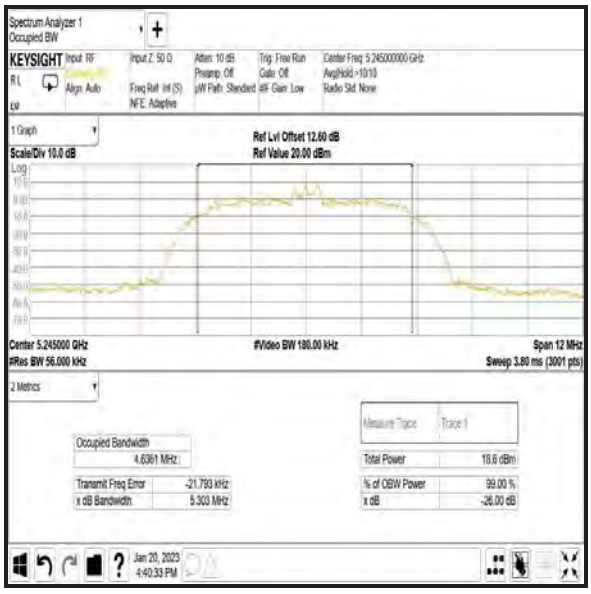
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	5.298
Middle	5203	5.314
Top	5245	5.303



Bottom Channel



Middle Channel

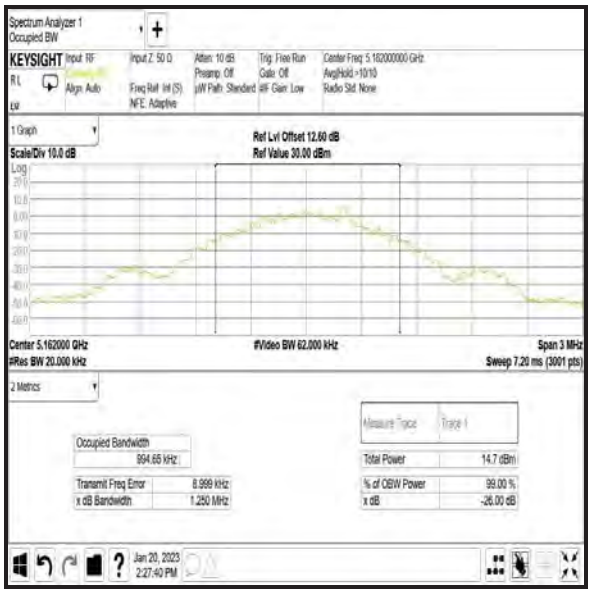


Top Channel

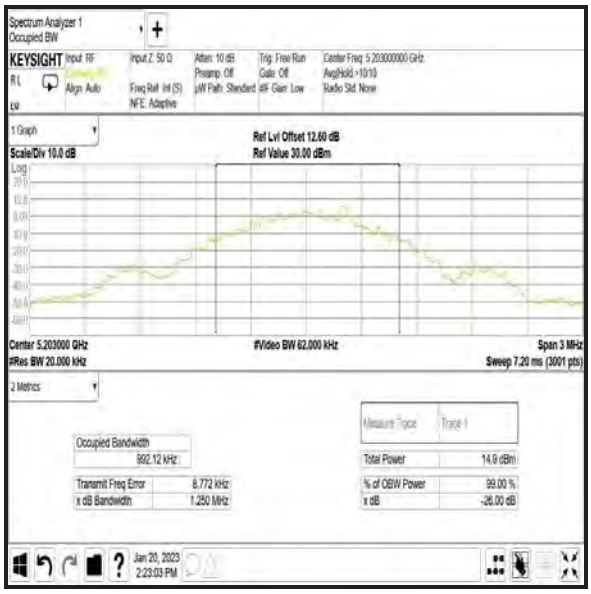
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

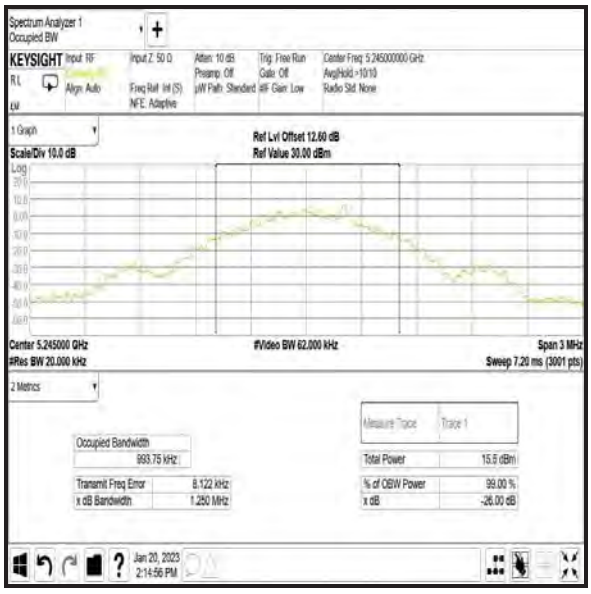
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	1.250
Middle	5203	1.250
Top	5245	1.250



Bottom Channel



Middle Channel

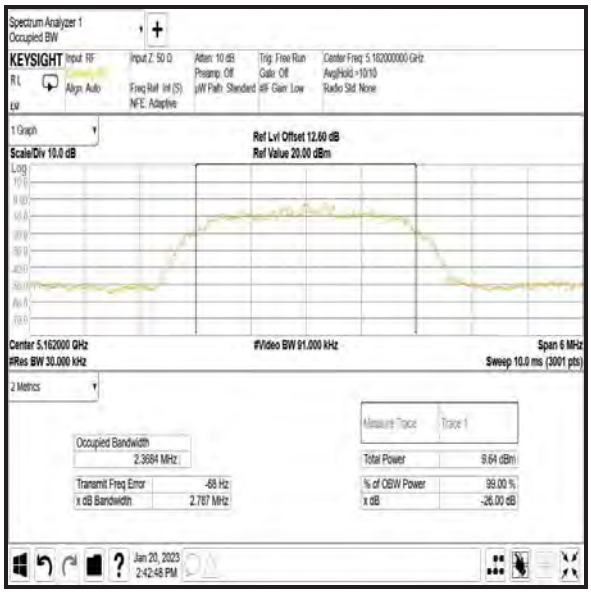


Top Channel

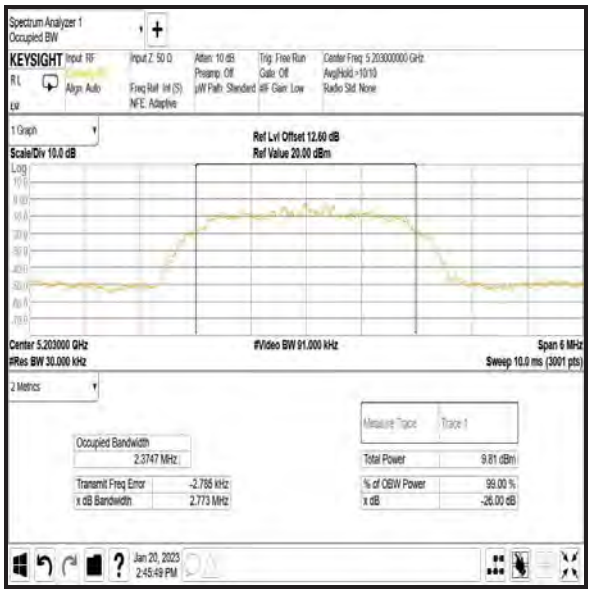
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / iPA

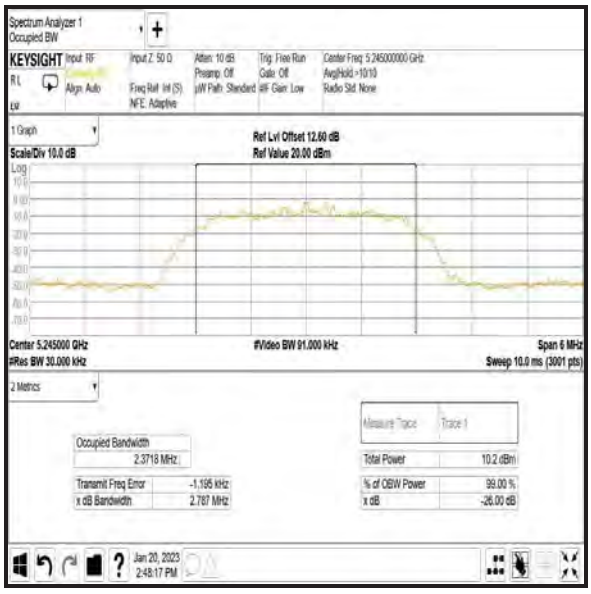
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	2.787
Middle	5203	2.773
Top	5245	2.787



Bottom Channel



Middle Channel

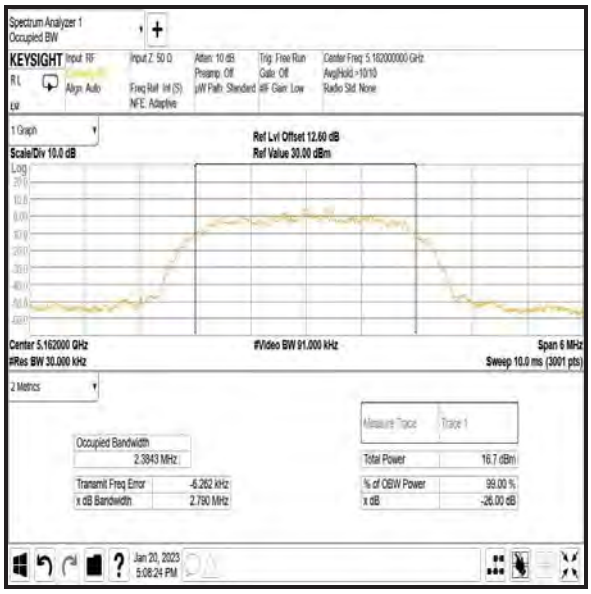


Top Channel

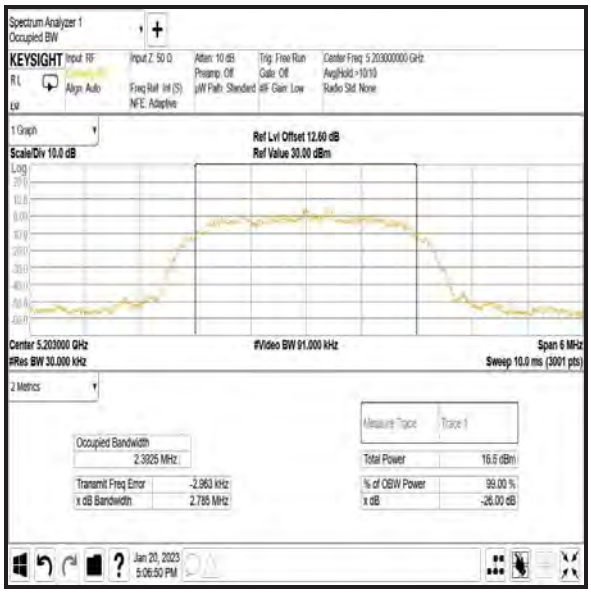
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / ePA

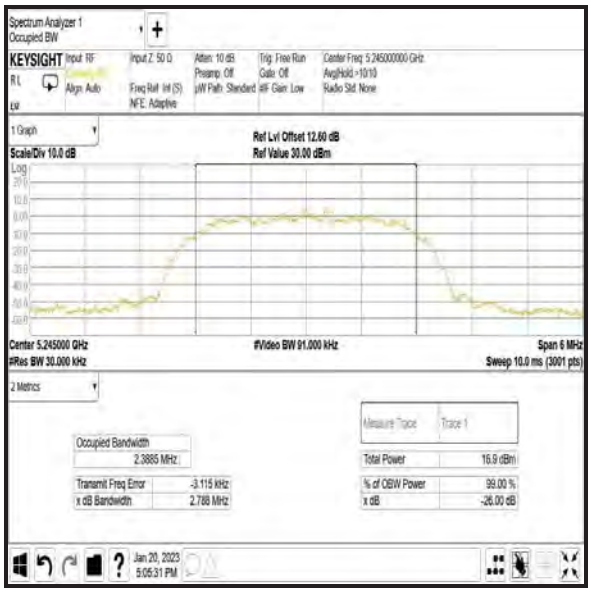
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	2.790
Middle	5203	2.785
Top	5245	2.788



Bottom Channel



Middle Channel

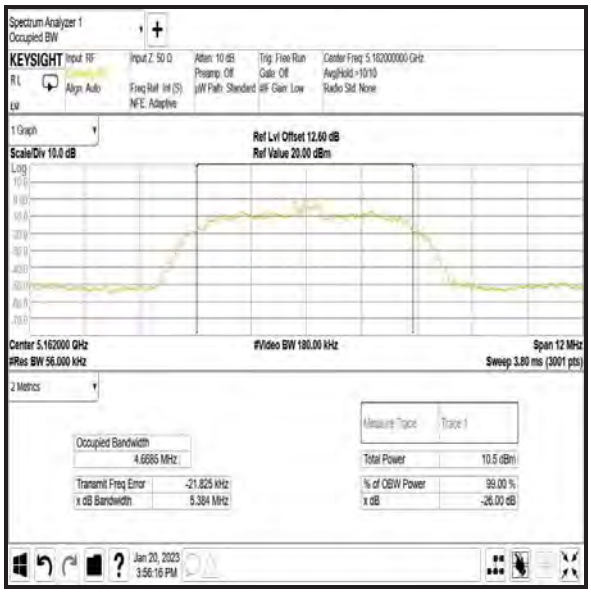


Top Channel

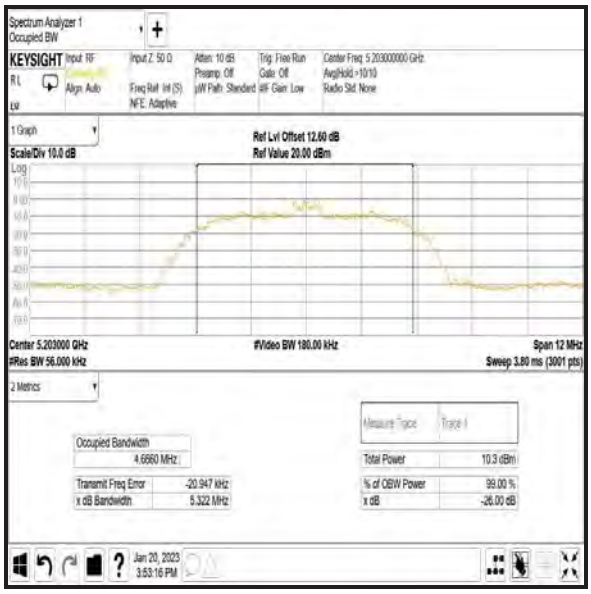
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / iPA

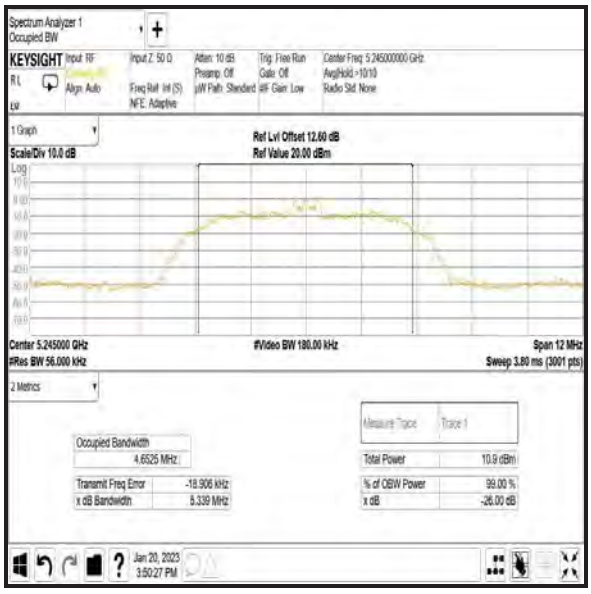
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	5.384
Middle	5203	5.322
Top	5245	5.339



Bottom Channel



Middle Channel

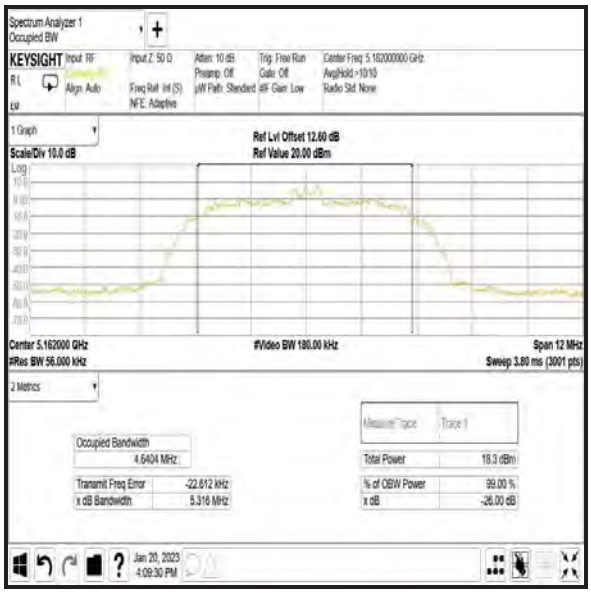


Top Channel

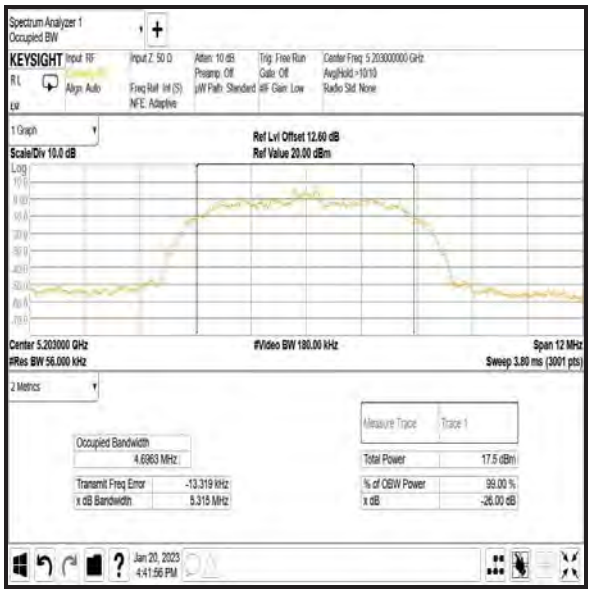
Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / ePA

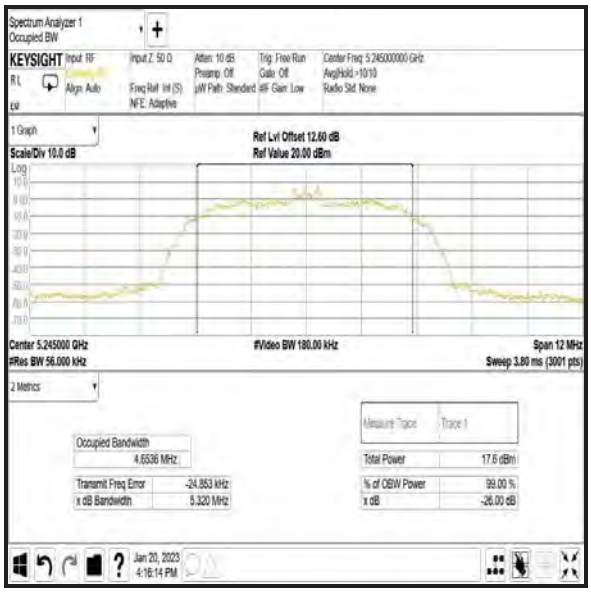
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5162	5.316
Middle	5203	5.315
Top	5245	5.320



Bottom Channel



Middle Channel



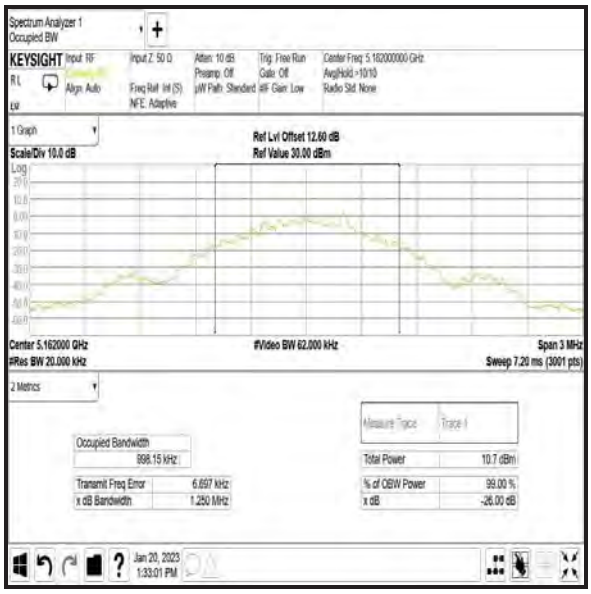
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

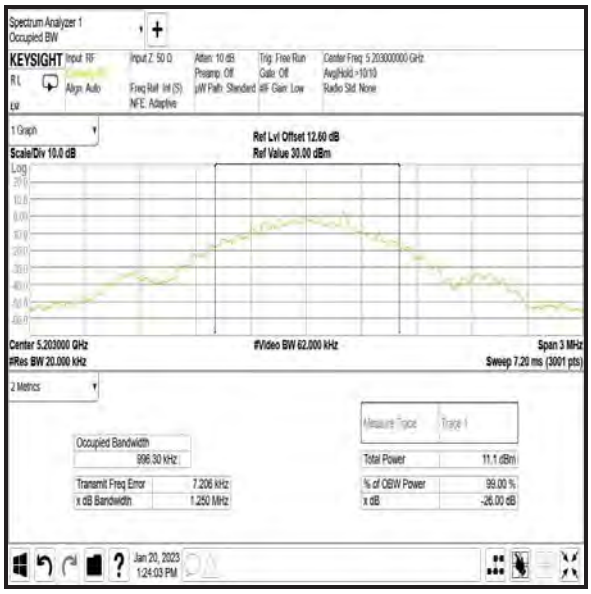
Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5162	1.250	1.250
Middle	5203	1.250	1.248
Top	5245	1.247	1.250

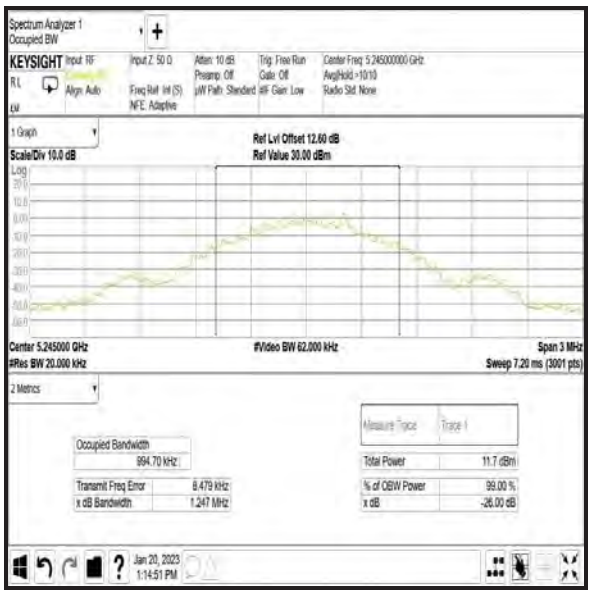
Results: Core 0



Bottom Channel



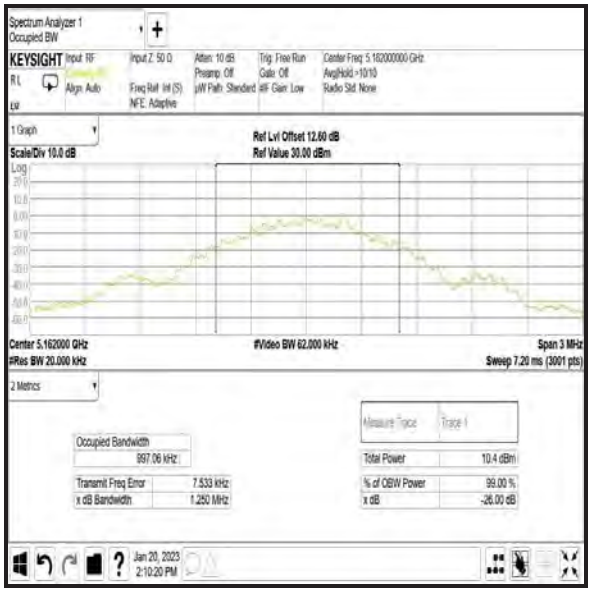
Middle Channel



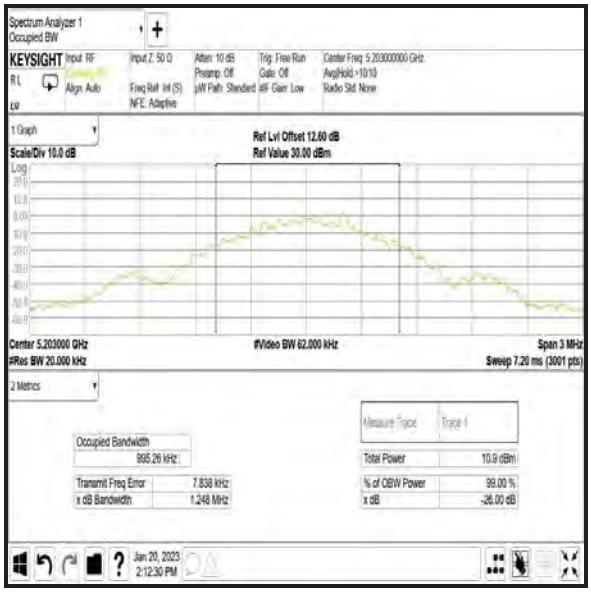
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

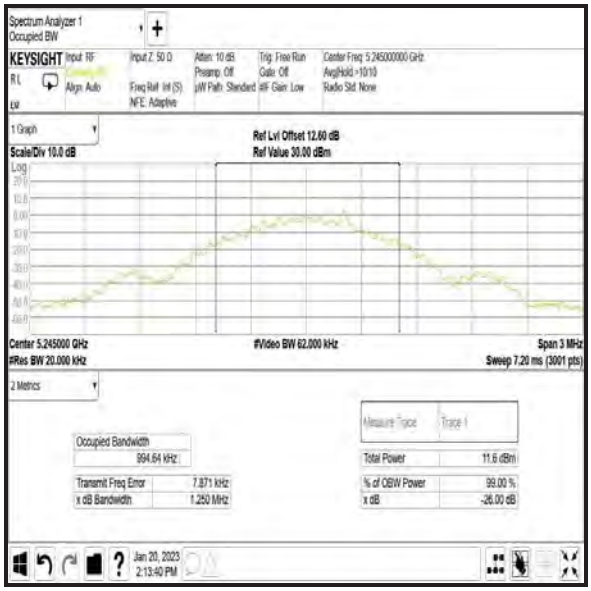
Results: Core 1



Bottom Channel



Middle Channel



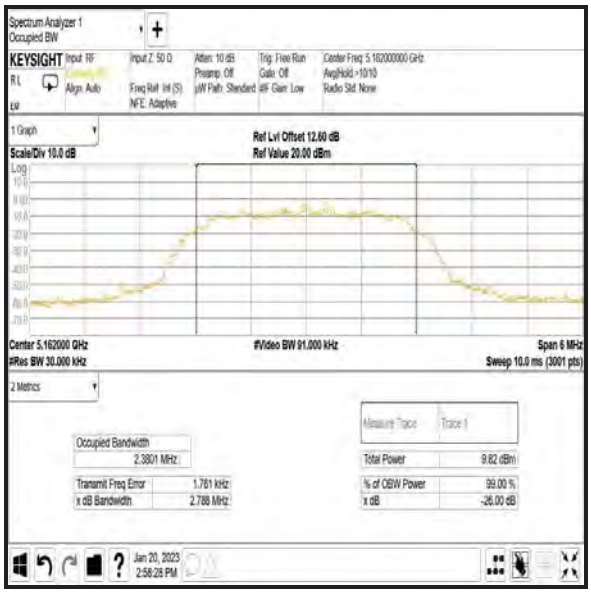
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

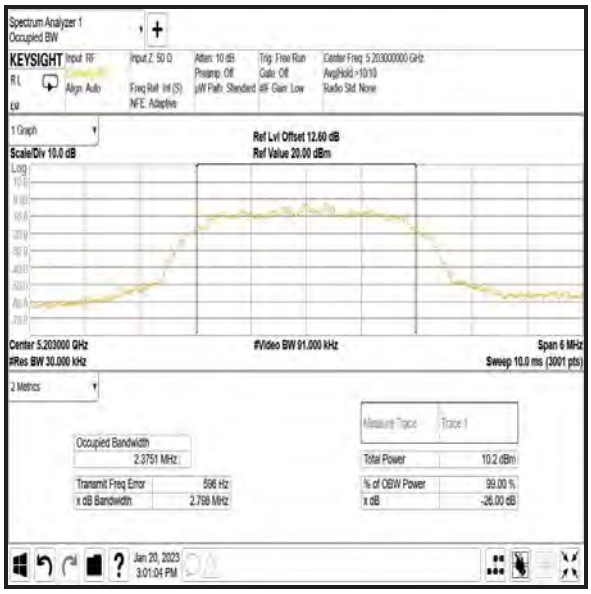
Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5162	2.788	2.788
Middle	5203	2.798	2.800
Top	5245	2.788	2.796

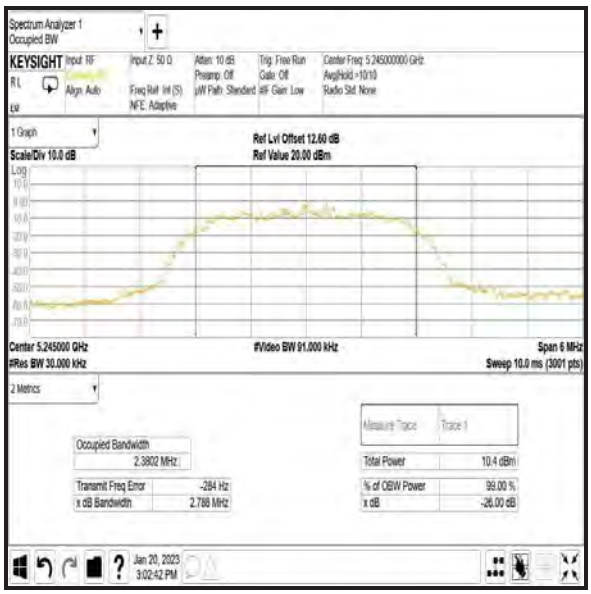
Results: Core 0



Bottom Channel



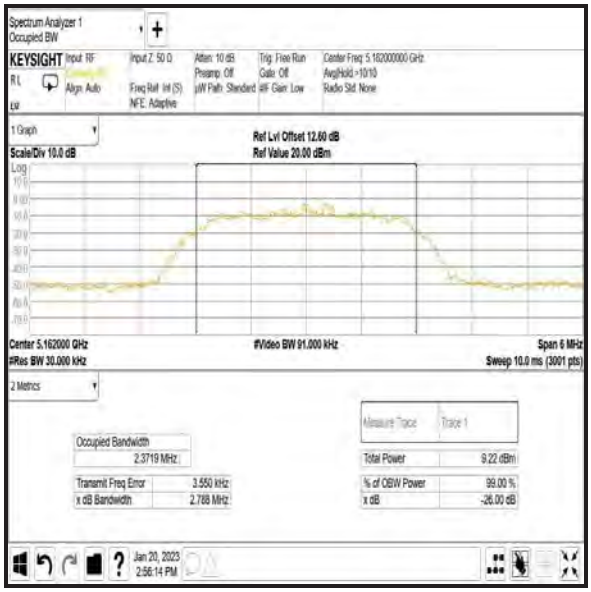
Middle Channel



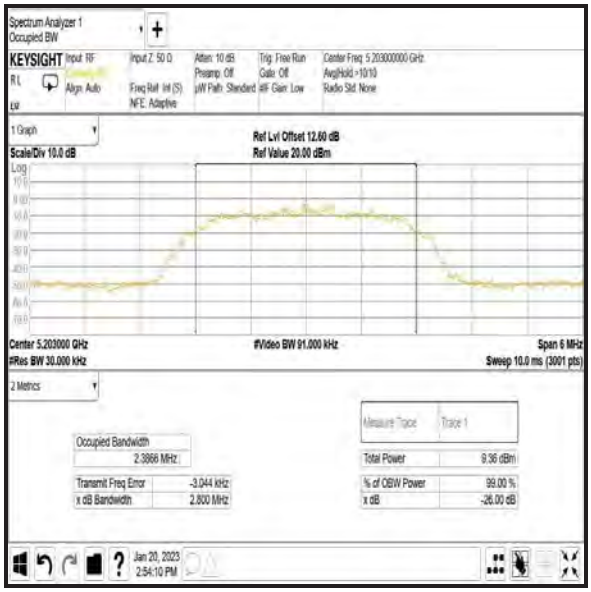
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

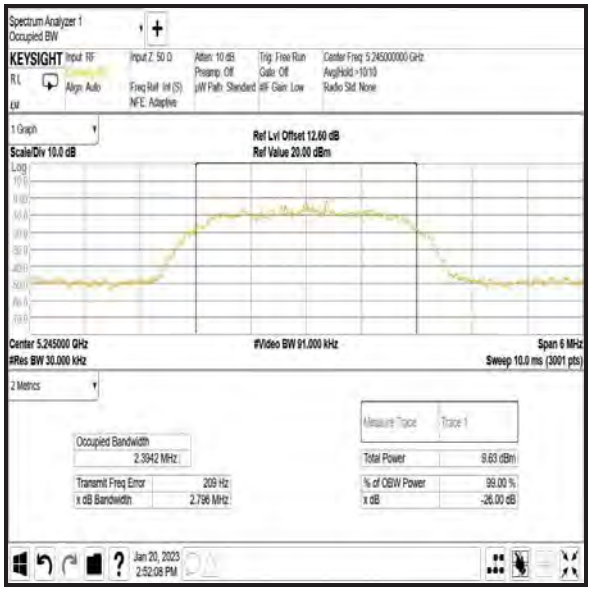
Results: Core 1



Bottom Channel



Middle Channel



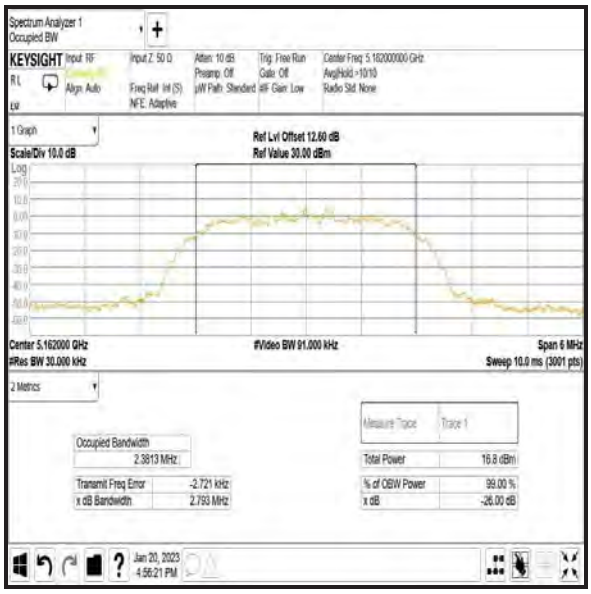
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

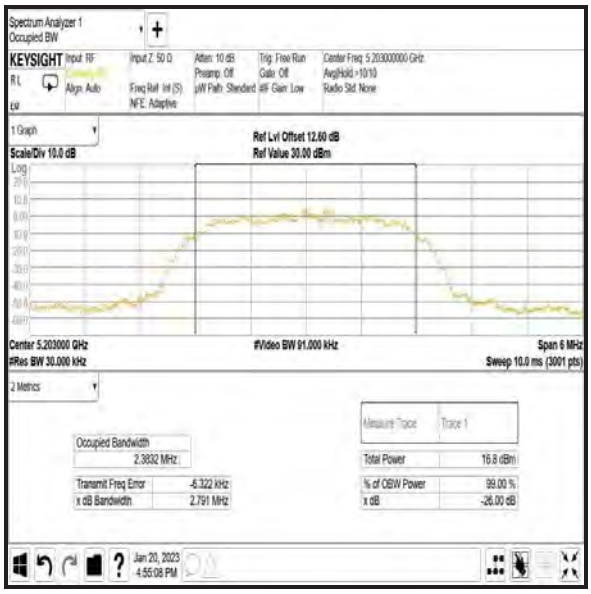
Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5162	2.793	2.790
Middle	5203	2.791	2.796
Top	5245	2.784	2.798

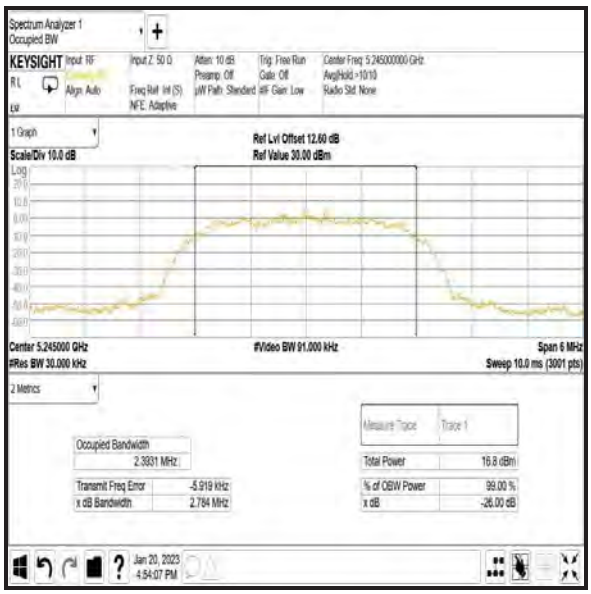
Results: Core 0



Bottom Channel



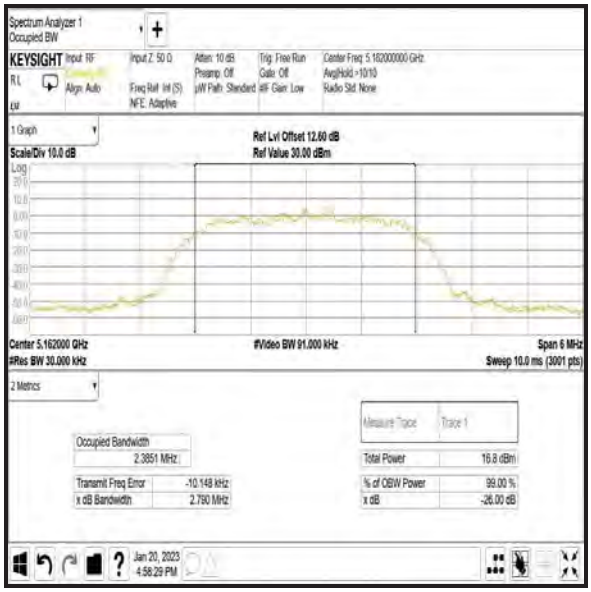
Middle Channel



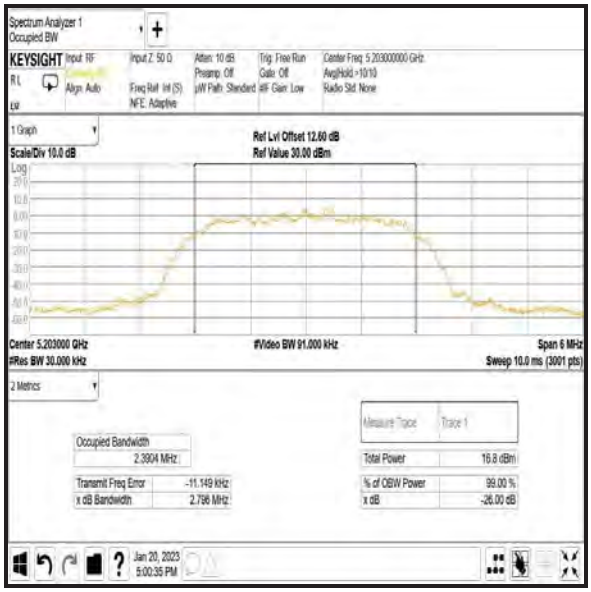
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

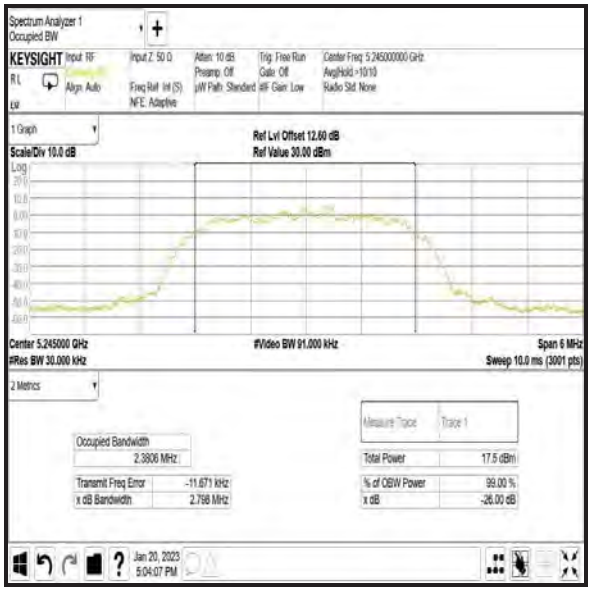
Results: Core 1



Bottom Channel



Middle Channel



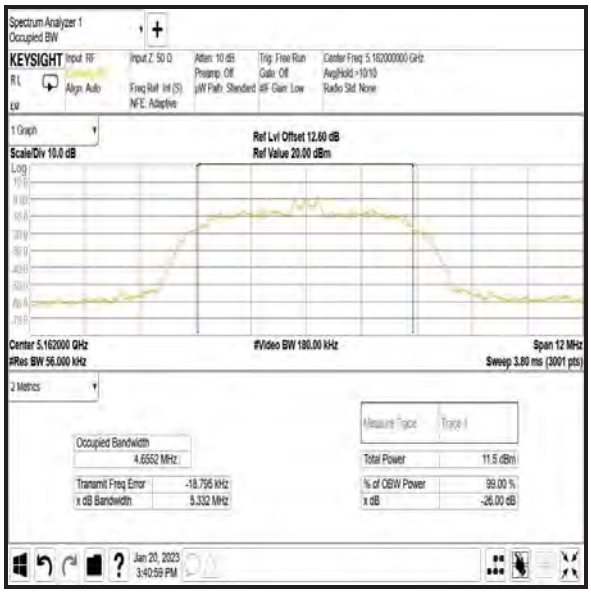
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

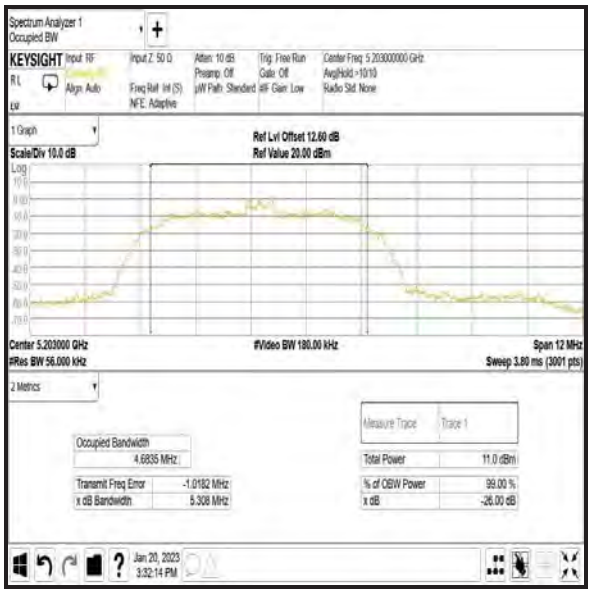
Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5162	5.332	5.336
Middle	5203	5.308	5.316
Top	5245	5.323	5.308

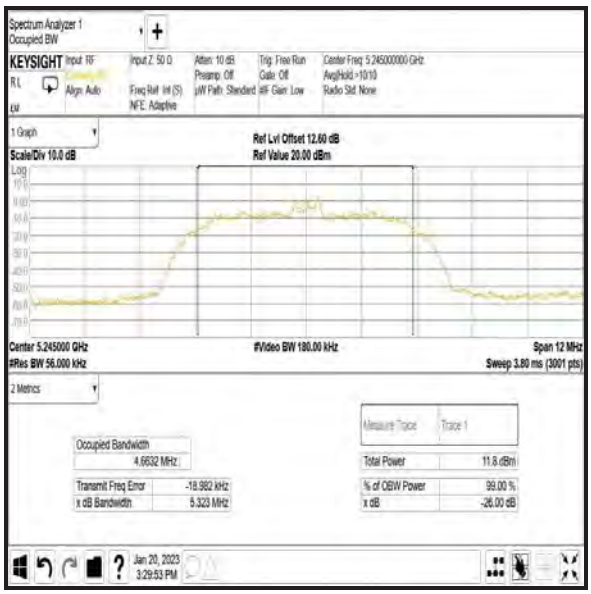
Results: Core 0



Bottom Channel



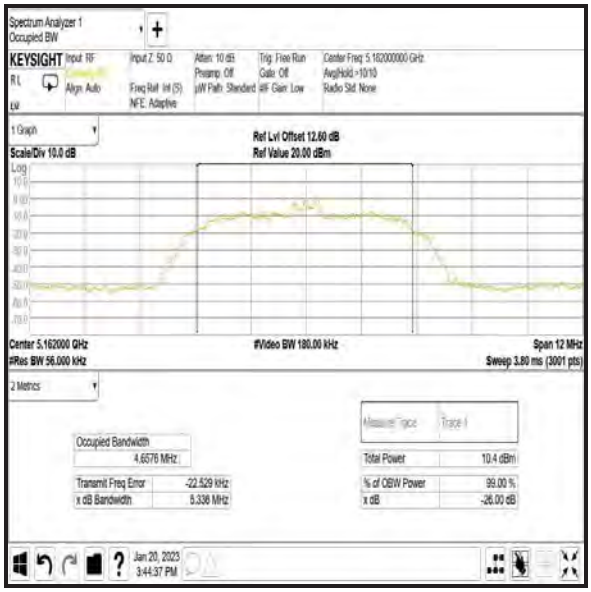
Middle Channel



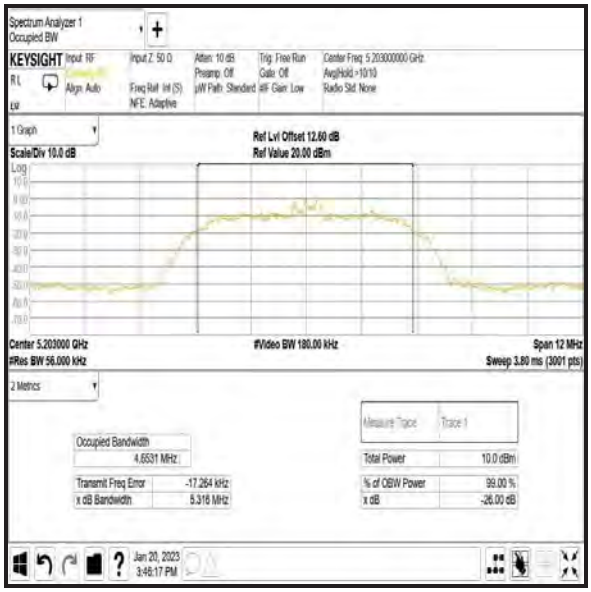
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

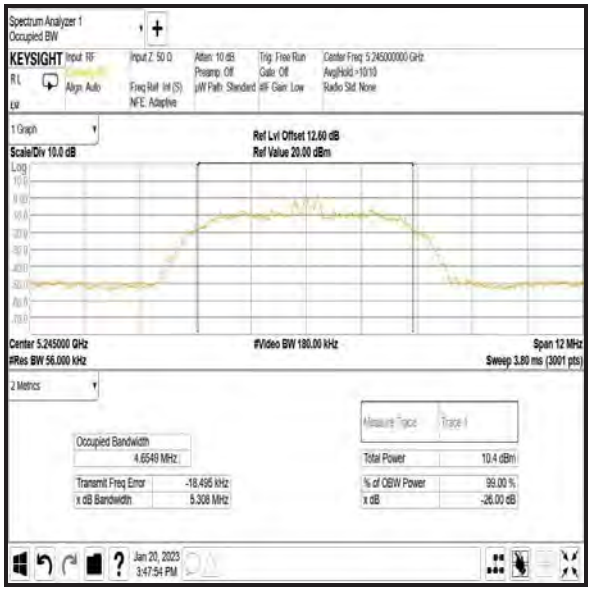
Results: Core 1



Bottom Channel



Middle Channel



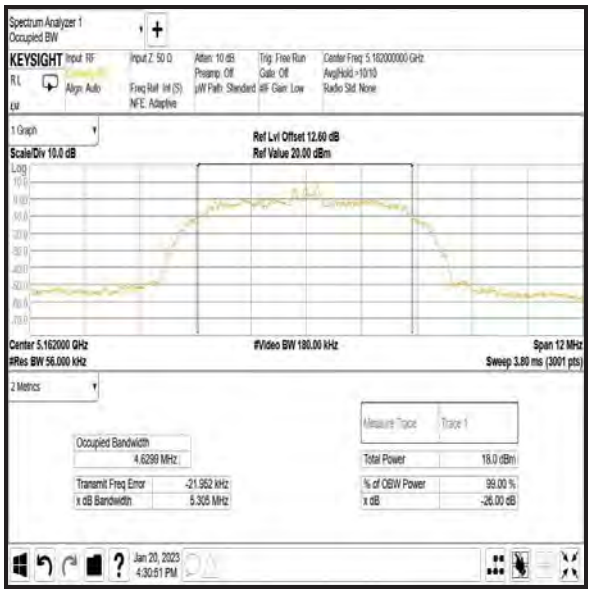
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

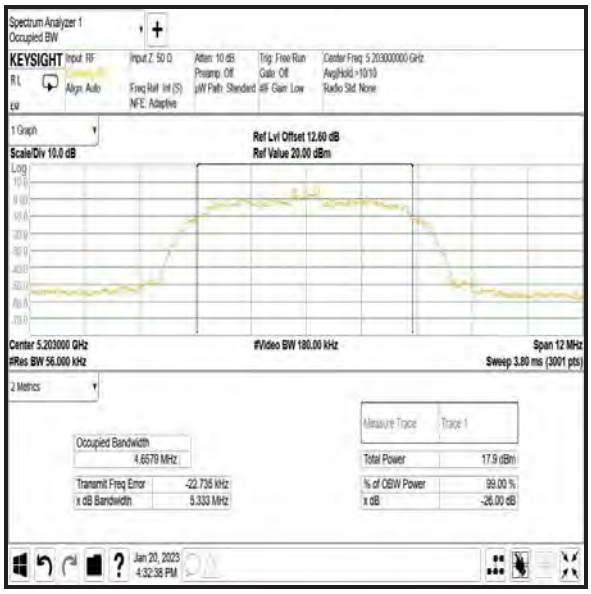
Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5162	5.305	5.313
Middle	5203	5.333	5.301
Top	5245	5.304	5.393

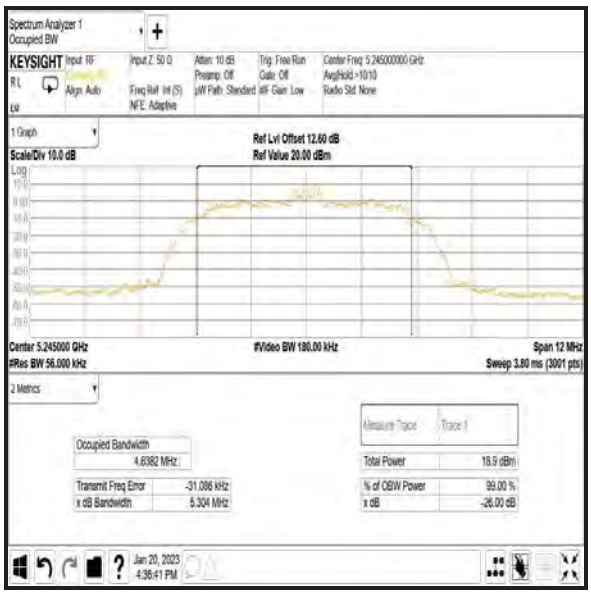
Results: Core 0



Bottom Channel



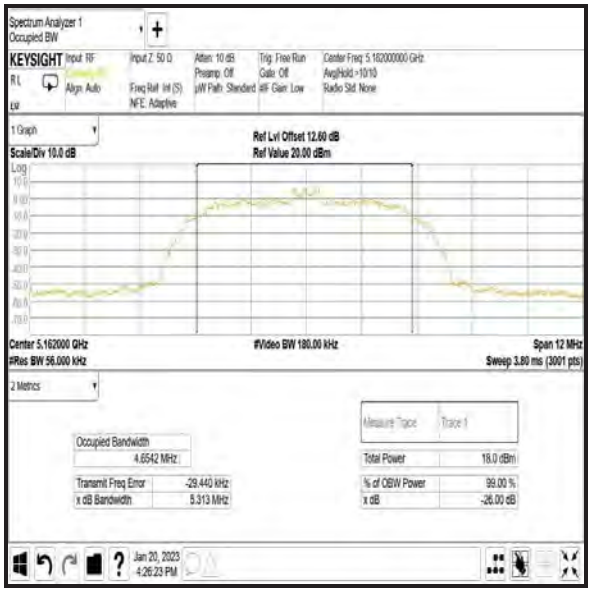
Middle Channel



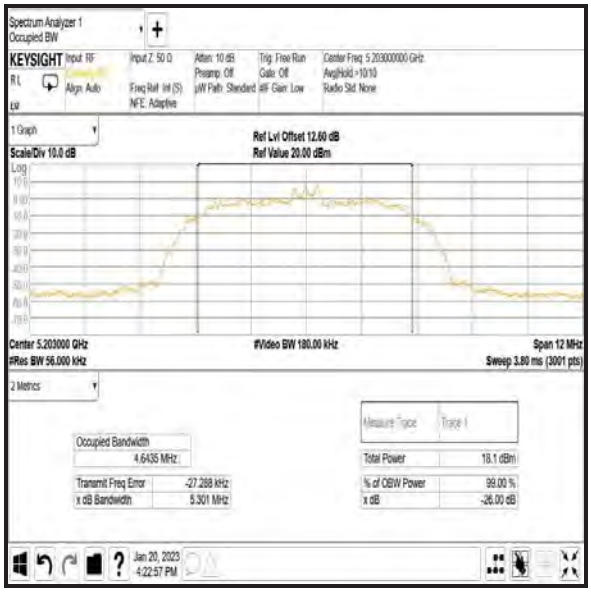
Top Channel

Transmitter 26 dB Emission Bandwidth (5.15-5.25 GHz band) (continued)

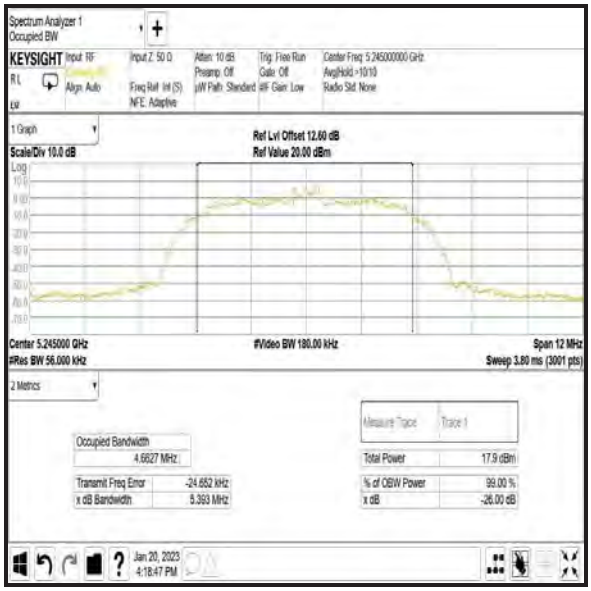
Results: Core 1



Bottom Channel



Middle Channel



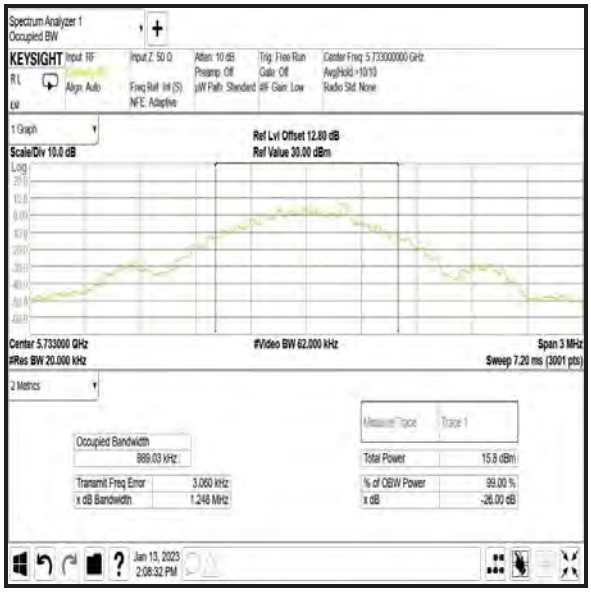
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

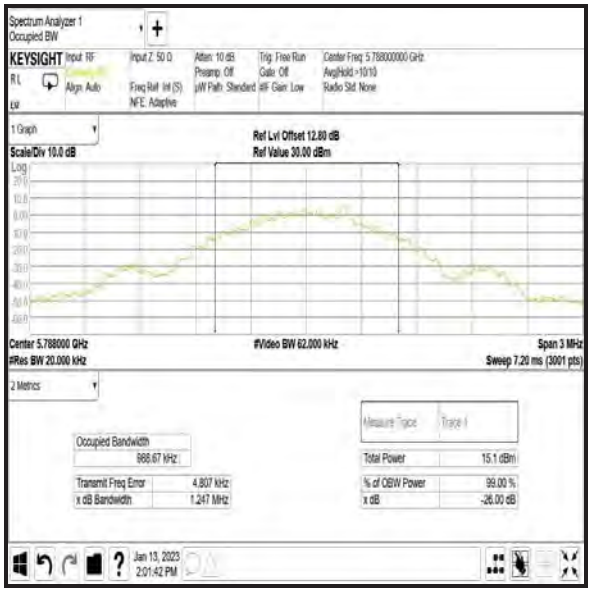
4.2.2 5.725-5.85 GHz band

Results: DH5 / SISO / Core 0 / iPA

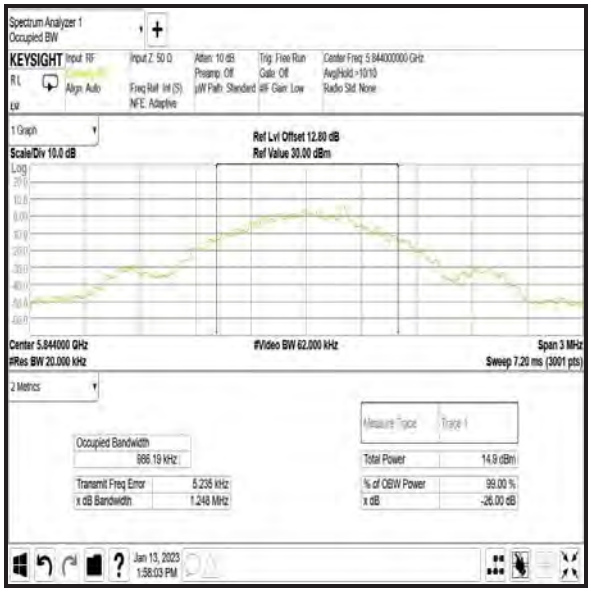
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	1.248
Middle	5788	1.247
Top	5844	1.248



Bottom Channel



Middle Channel

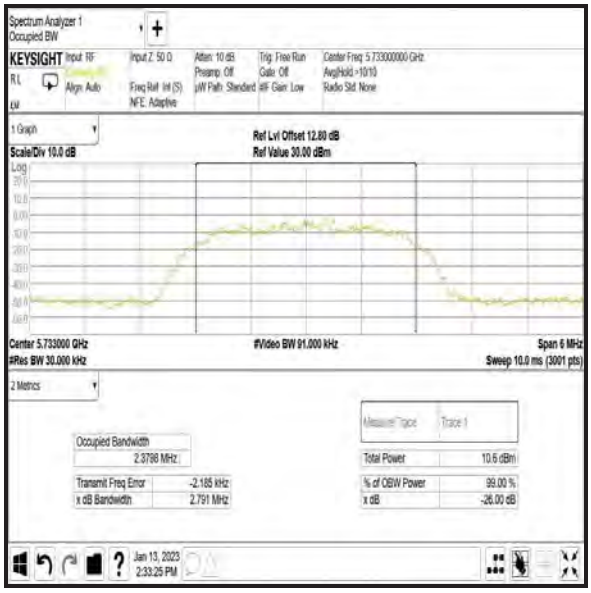


Top Channel

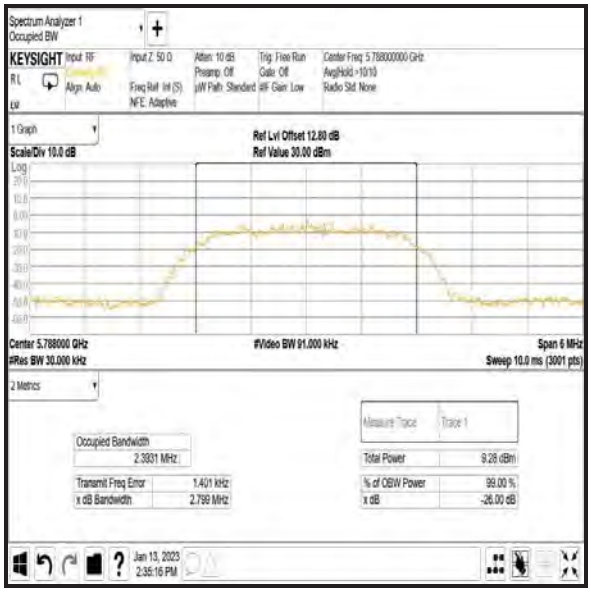
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / iPA

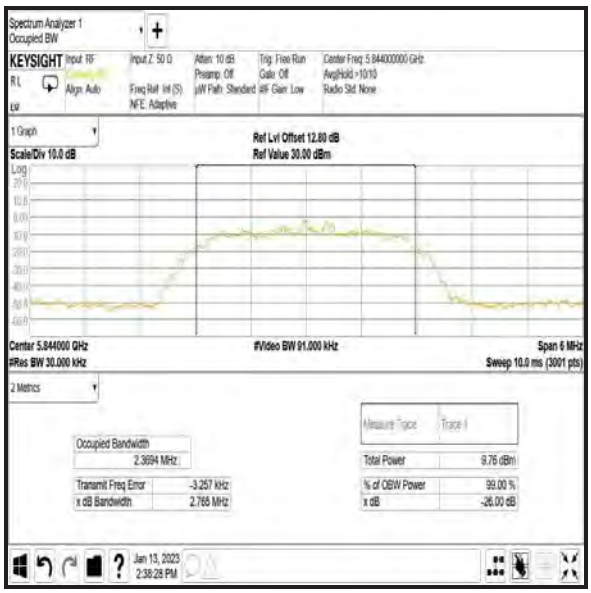
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	2.791
Middle	5788	2.799
Top	5844	2.765



Bottom Channel



Middle Channel

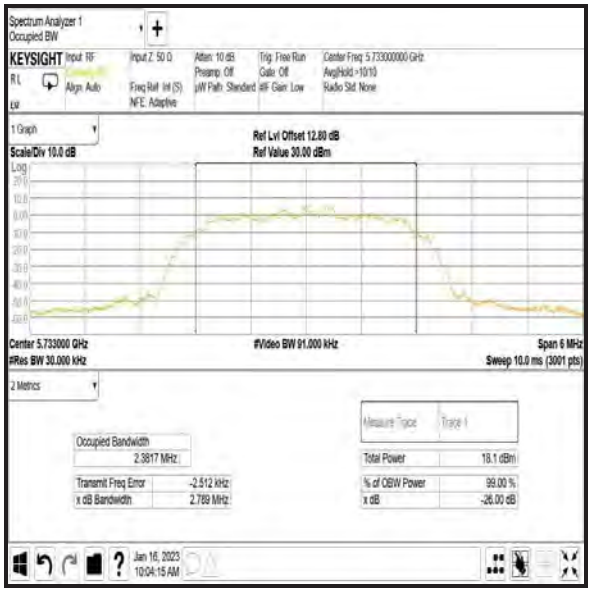


Top Channel

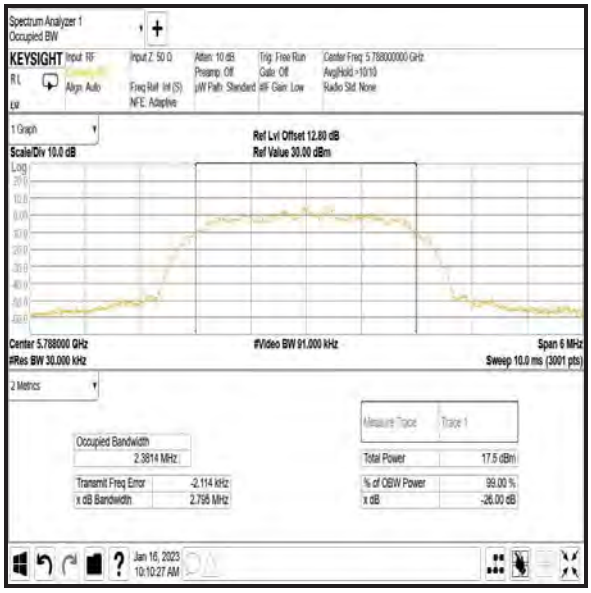
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / ePA

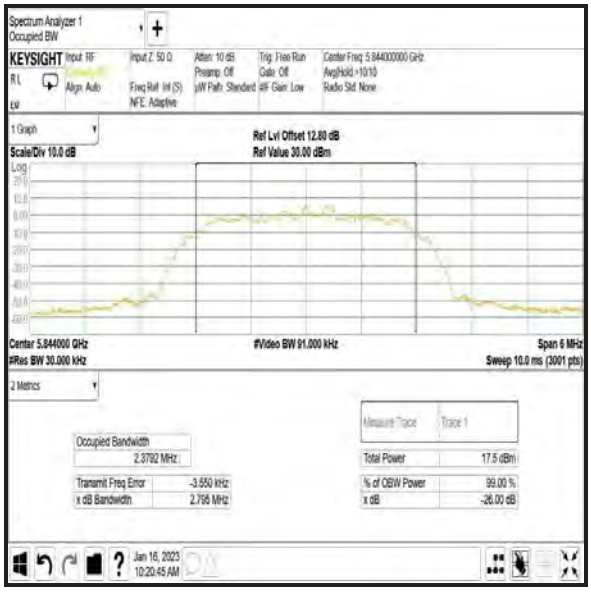
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	2.789
Middle	5788	2.795
Top	5844	2.795



Bottom Channel



Middle Channel

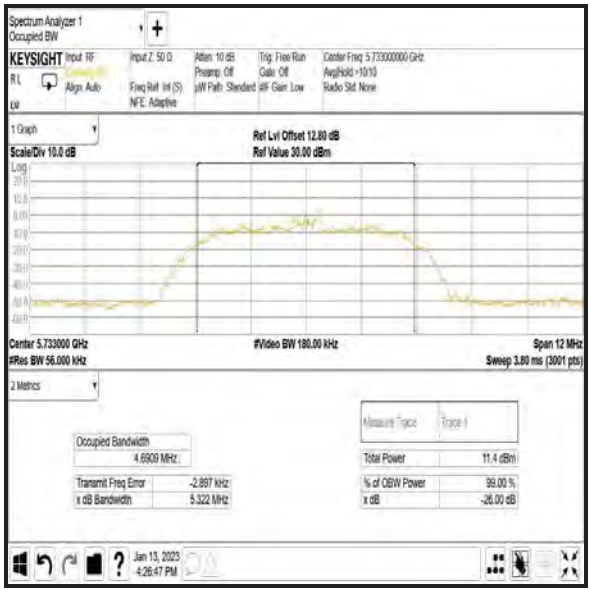


Top Channel

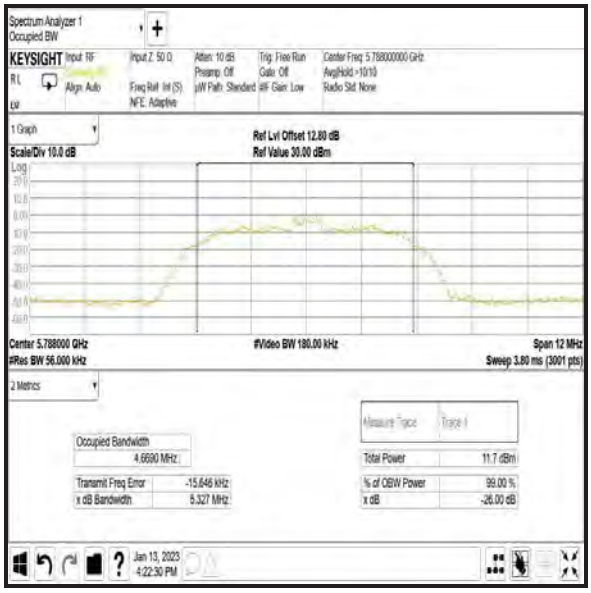
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / iPA

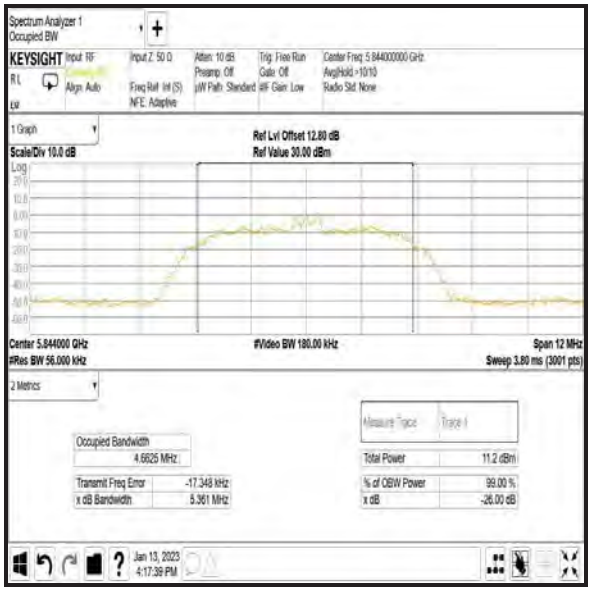
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	5.322
Middle	5788	5.327
Top	5844	5.361



Bottom Channel



Middle Channel

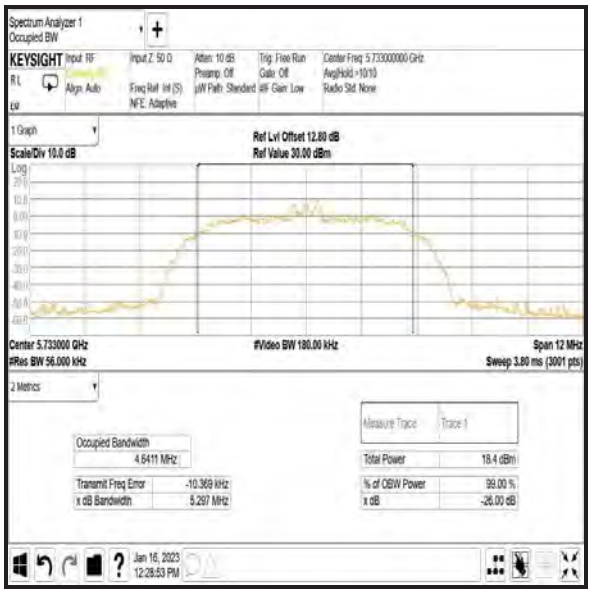


Top Channel

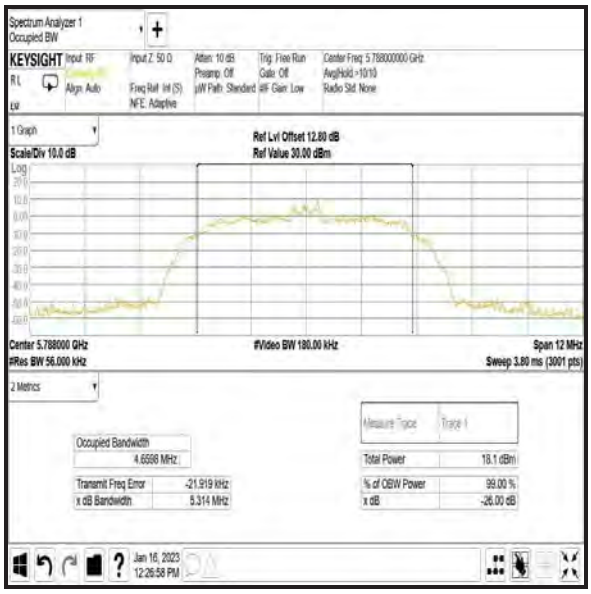
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / ePA

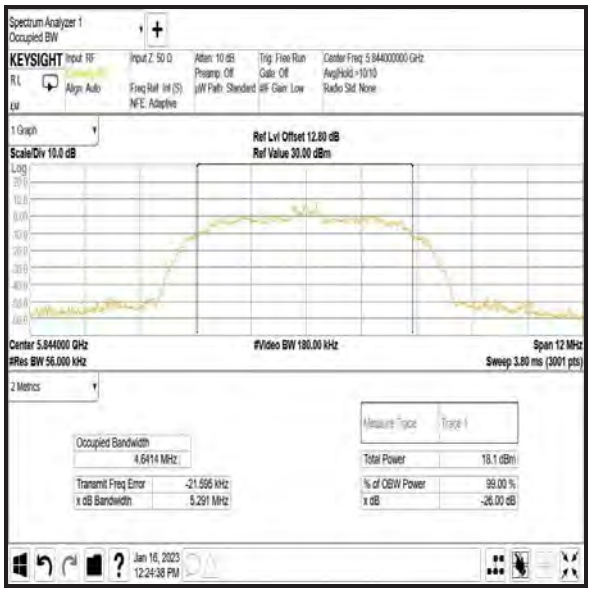
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	5.297
Middle	5788	5.314
Top	5844	5.291



Bottom Channel



Middle Channel

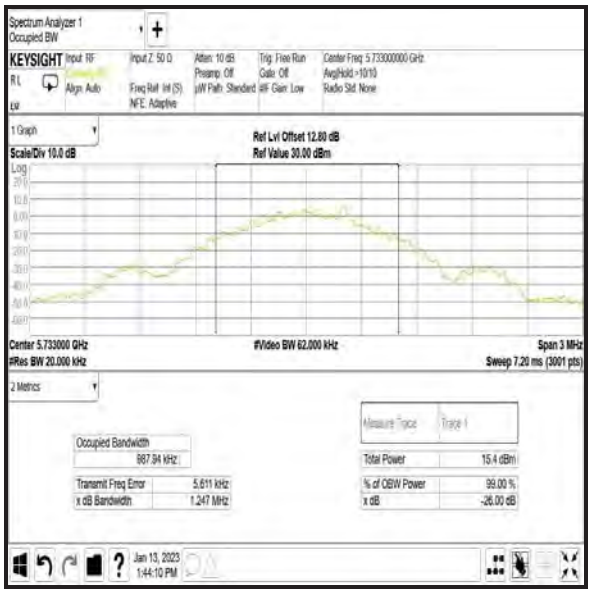


Top Channel

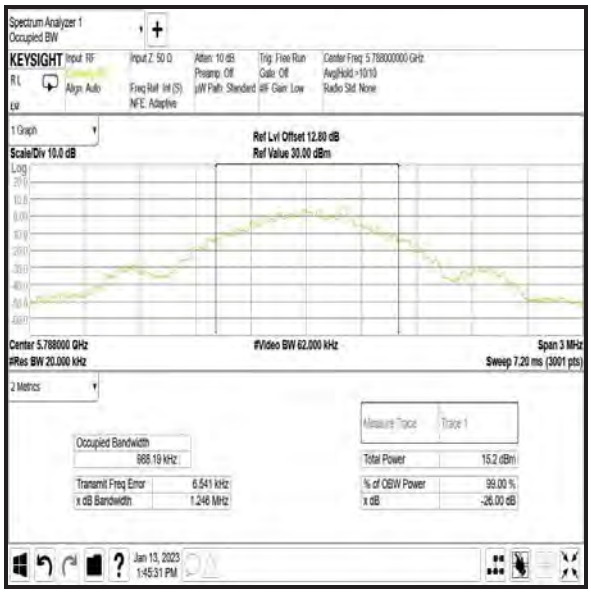
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

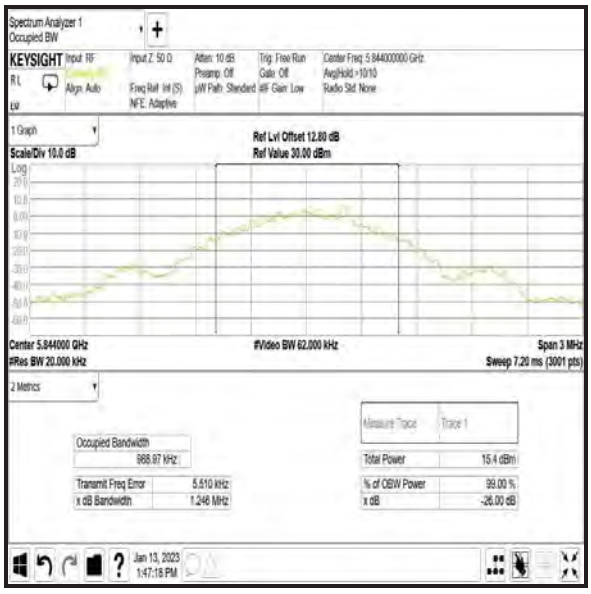
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	1.247
Middle	5788	1.246
Top	5844	1.246



Bottom Channel



Middle Channel

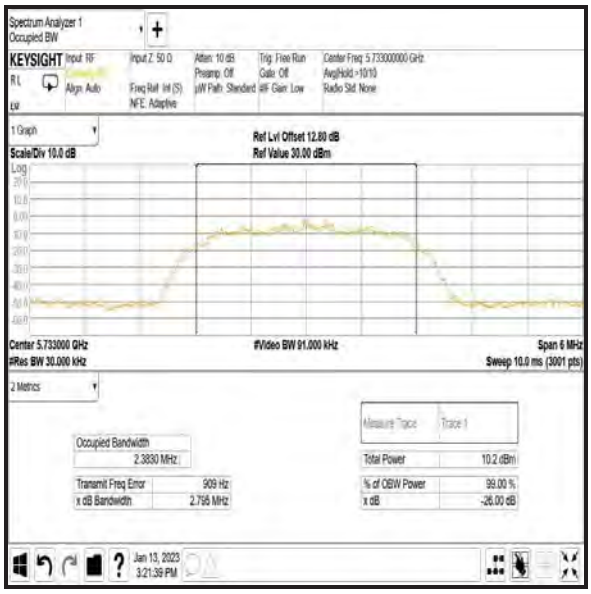


Top Channel

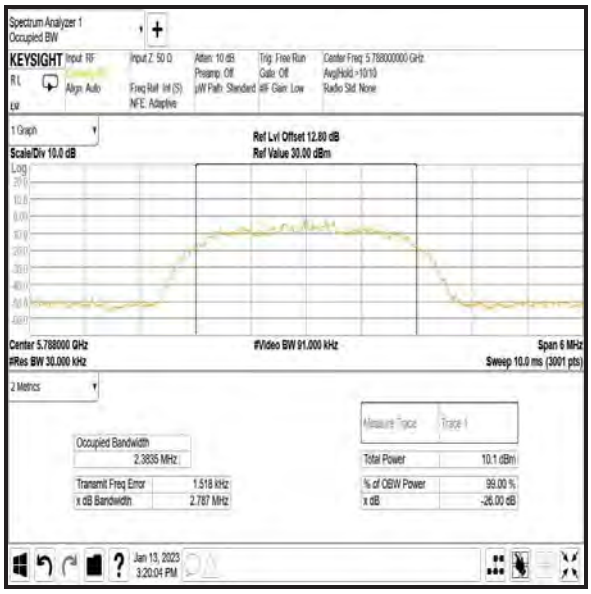
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / iPA

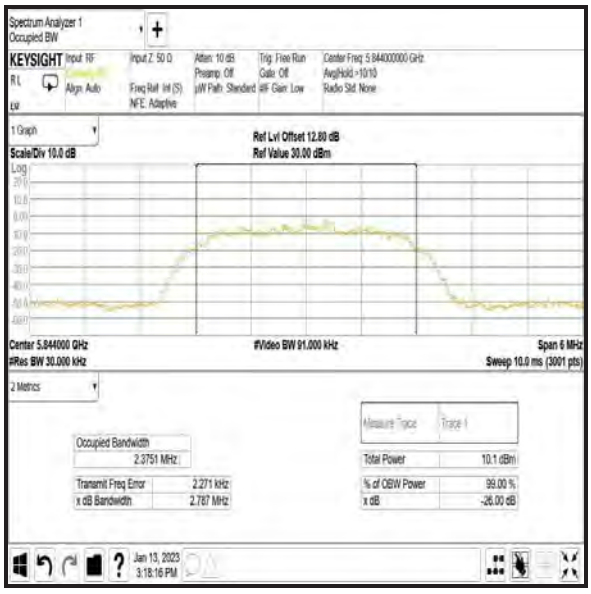
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	2.795
Middle	5788	2.787
Top	5844	2.787



Bottom Channel



Middle Channel

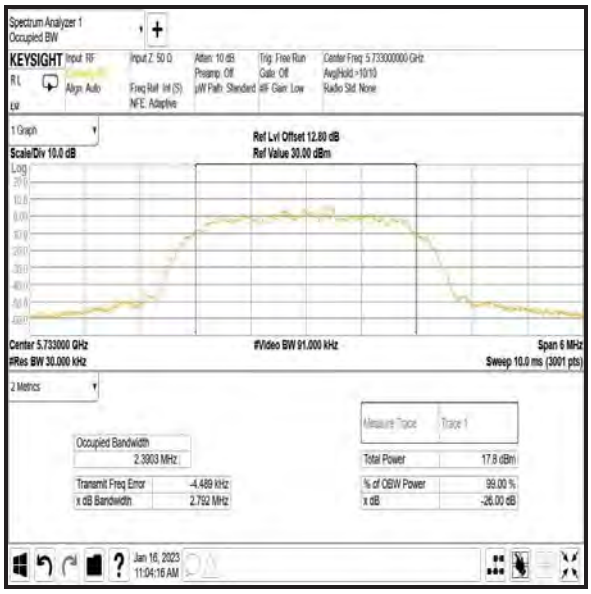


Top Channel

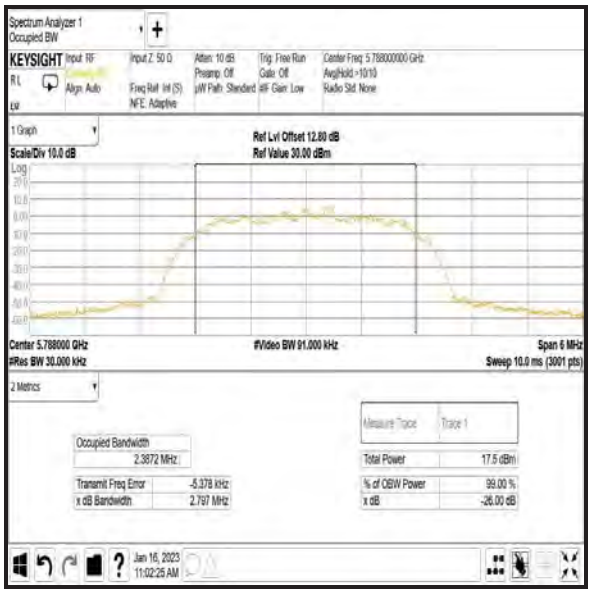
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / ePA

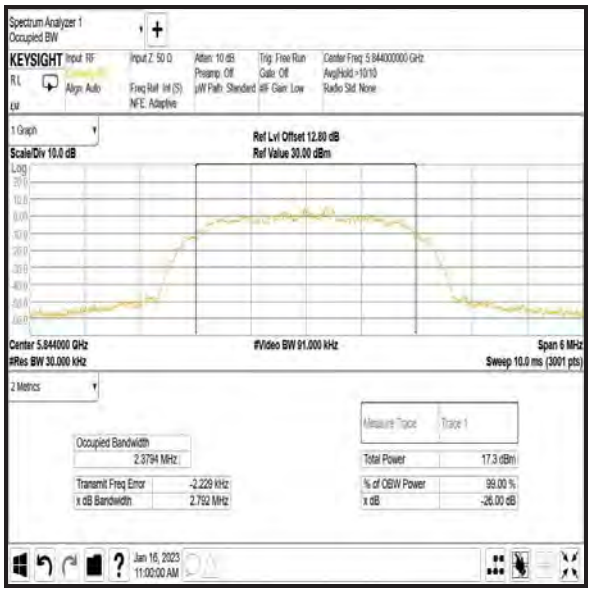
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	2.792
Middle	5788	2.797
Top	5844	2.792



Bottom Channel



Middle Channel

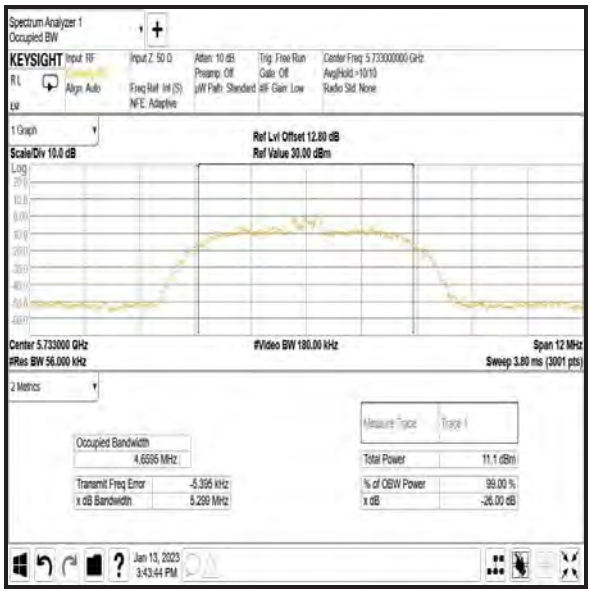


Top Channel

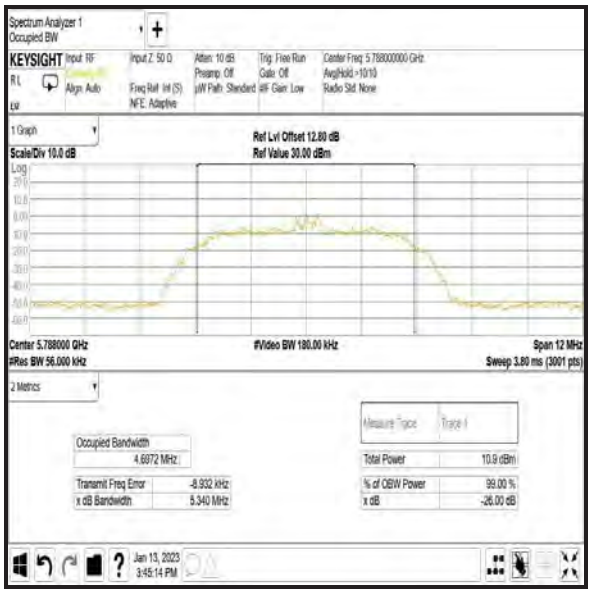
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / iPA

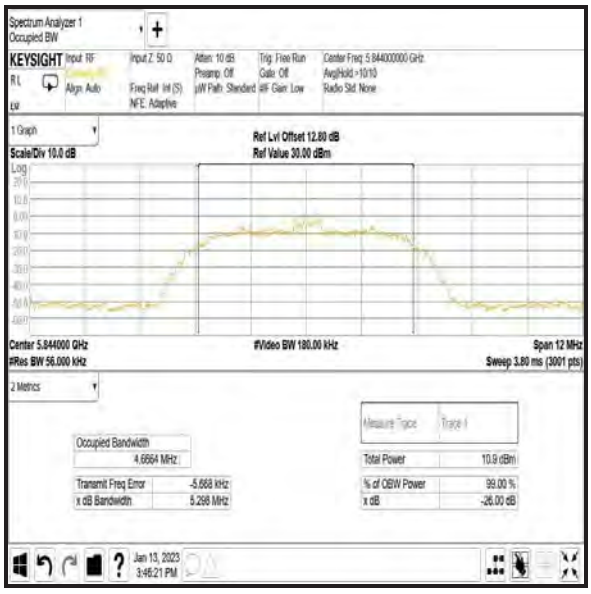
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	5.299
Middle	5788	5.340
Top	5844	5.298



Bottom Channel



Middle Channel

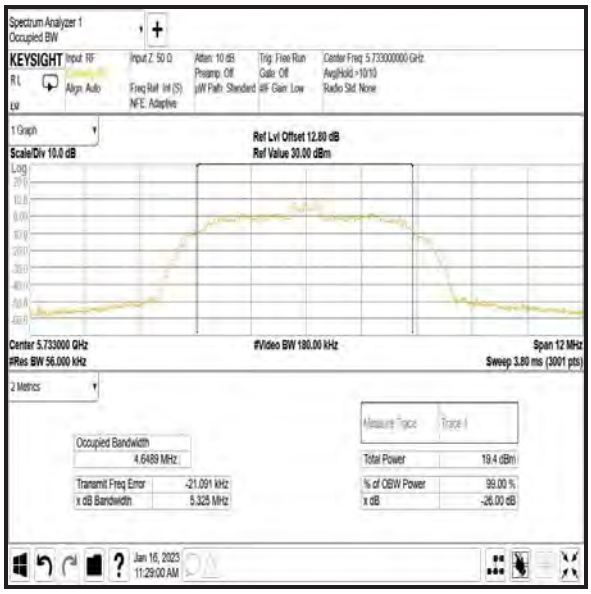


Top Channel

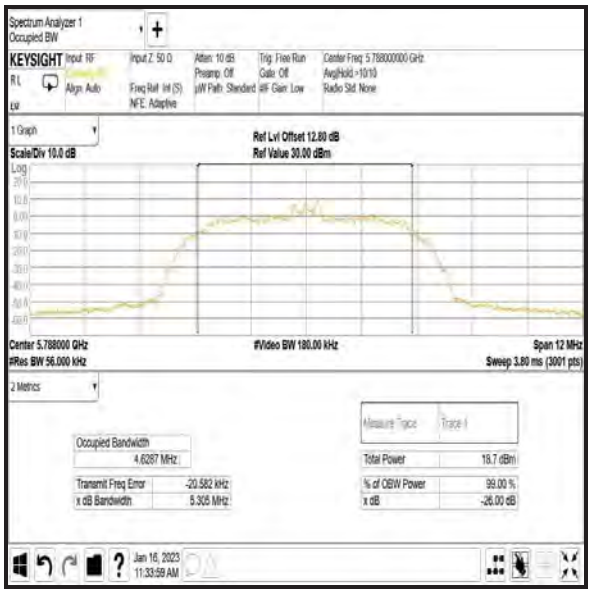
Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / ePA

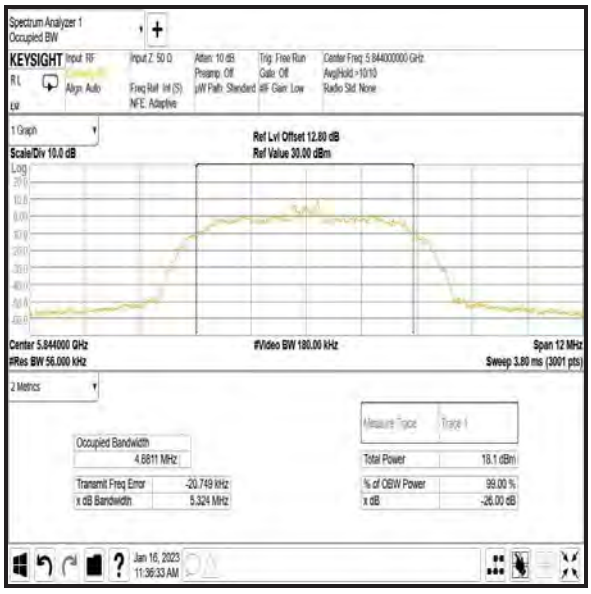
Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)
Bottom	5733	5.325
Middle	5788	5.305
Top	5844	5.324



Bottom Channel



Middle Channel



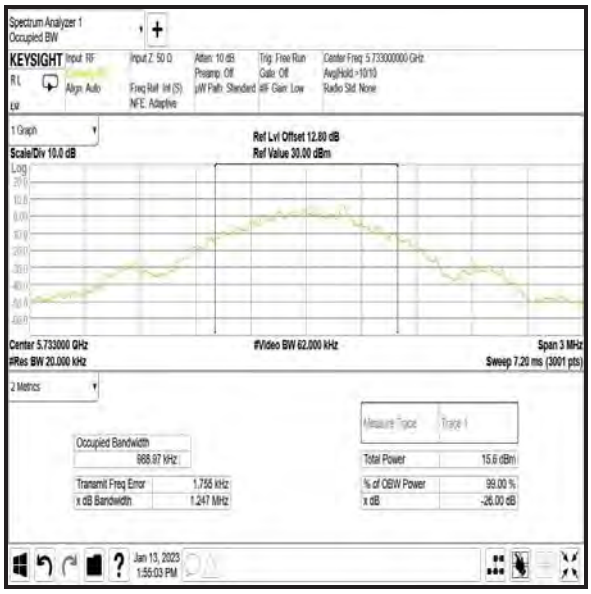
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

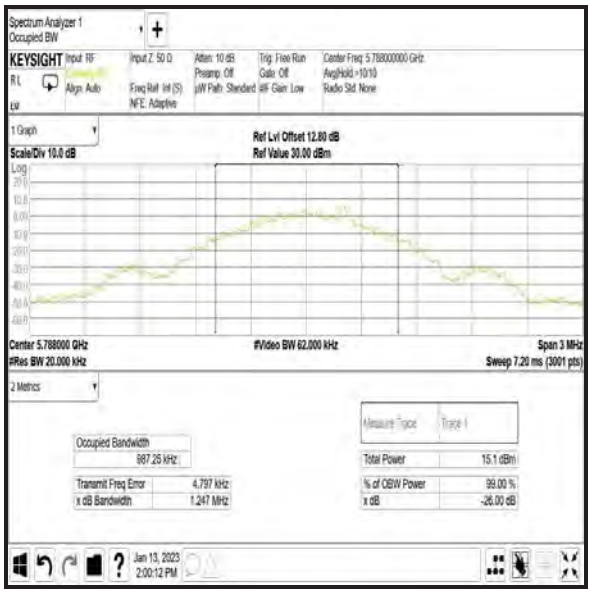
Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5733	1.247	1.247
Middle	5788	1.247	1.247
Top	5844	1.246	1.248

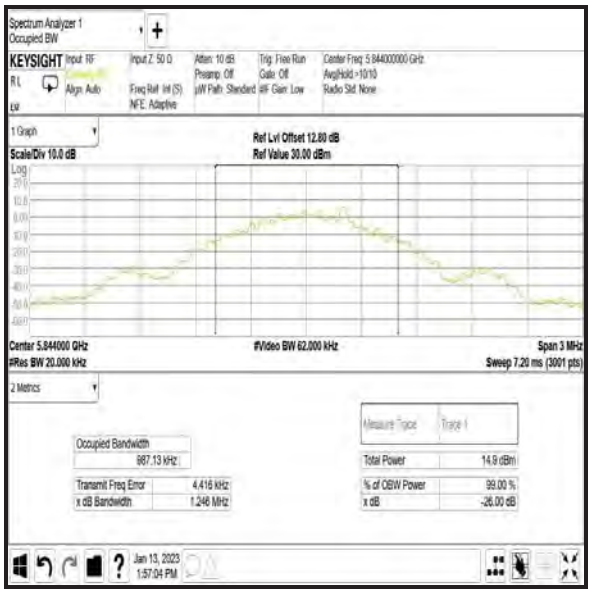
Results: Core 0



Bottom Channel



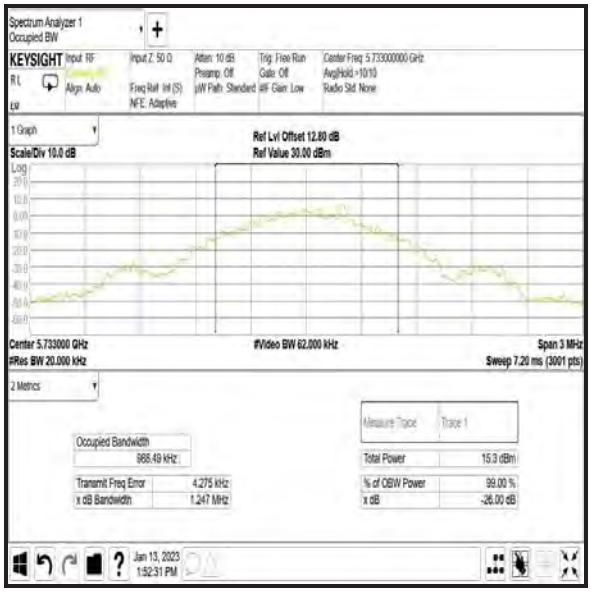
Middle Channel



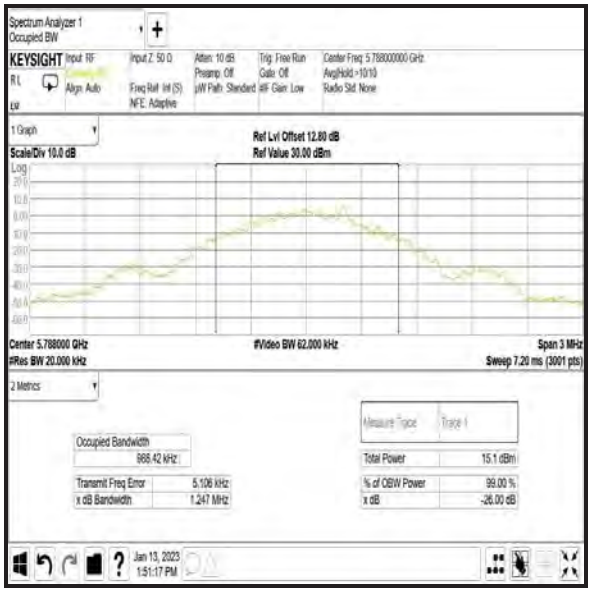
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

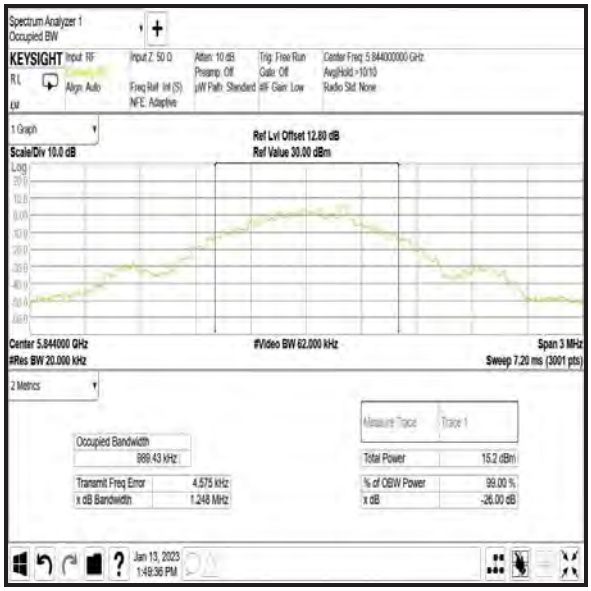
Results: Core 1



Bottom Channel



Middle Channel



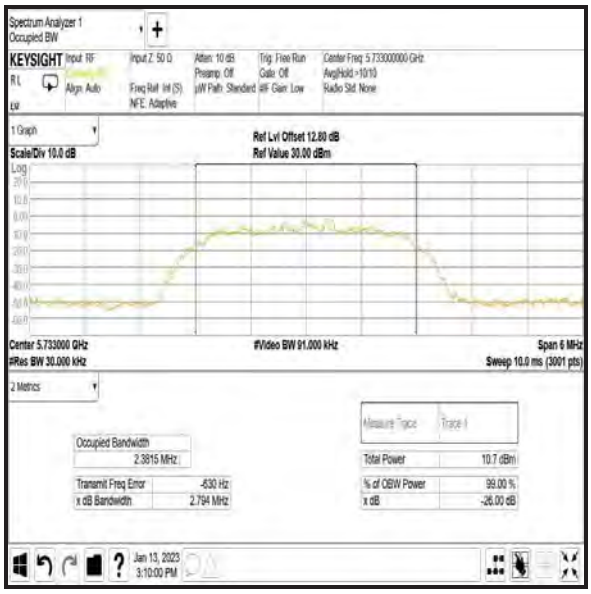
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

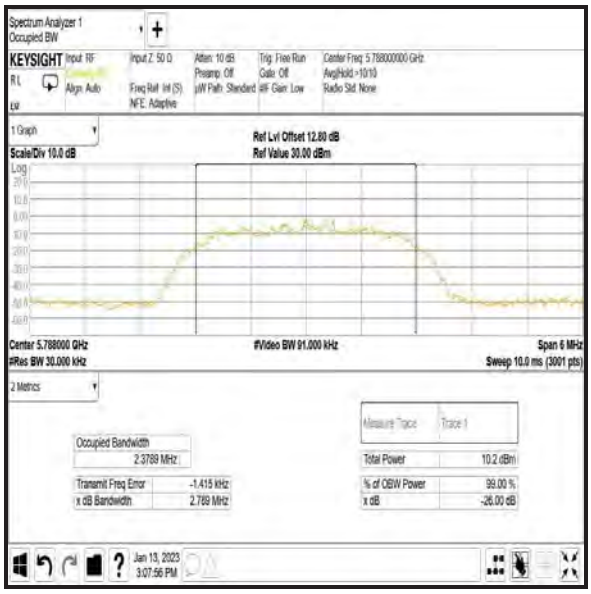
Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5733	2.794	2.782
Middle	5788	2.789	2.787
Top	5844	2.763	2.792

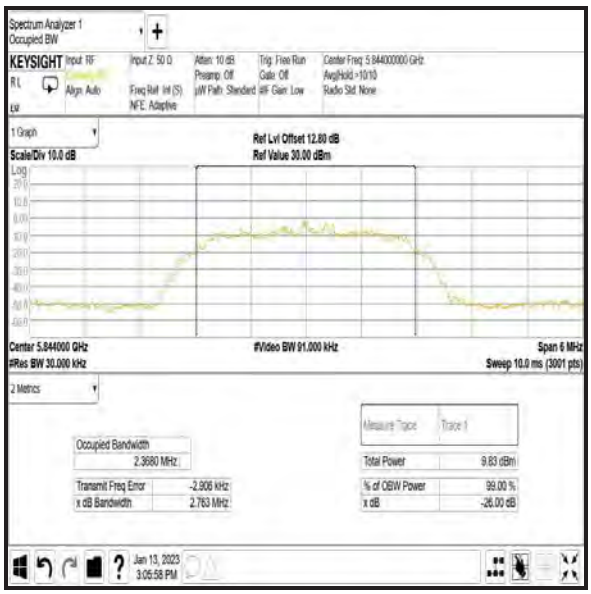
Results: Core 0



Bottom Channel



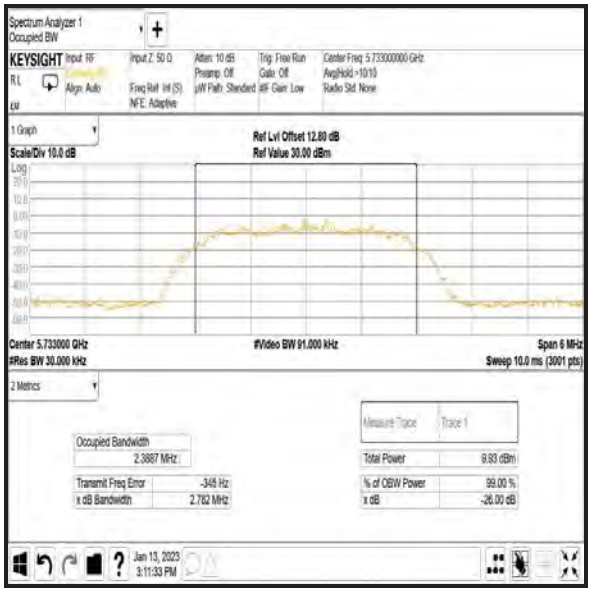
Middle Channel



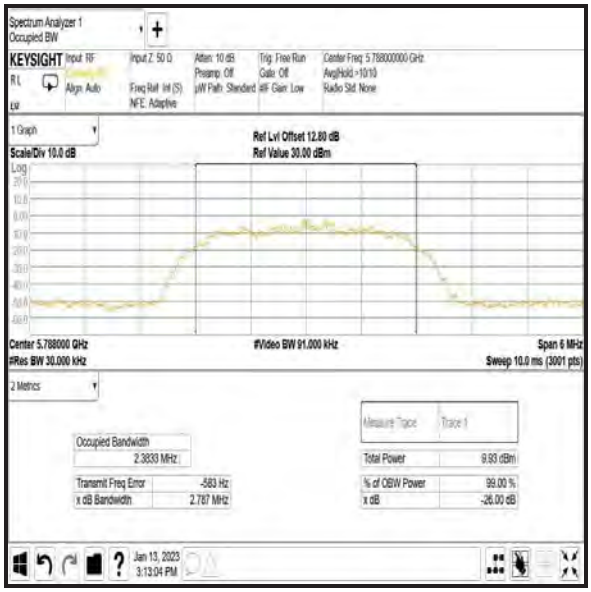
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

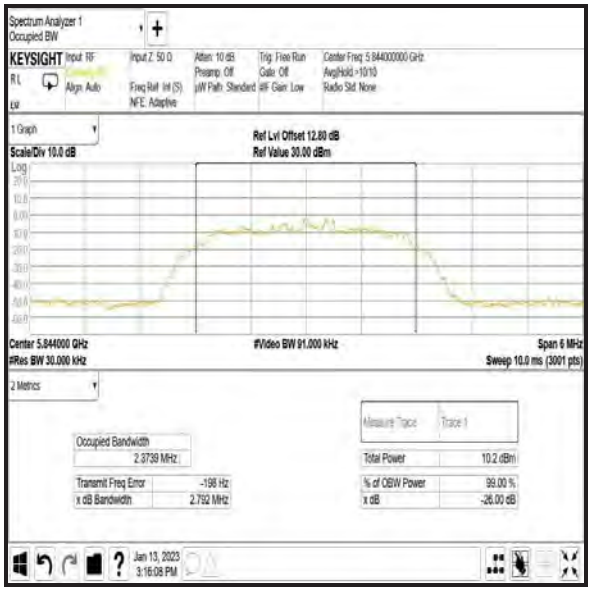
Results: Core 1



Bottom Channel



Middle Channel



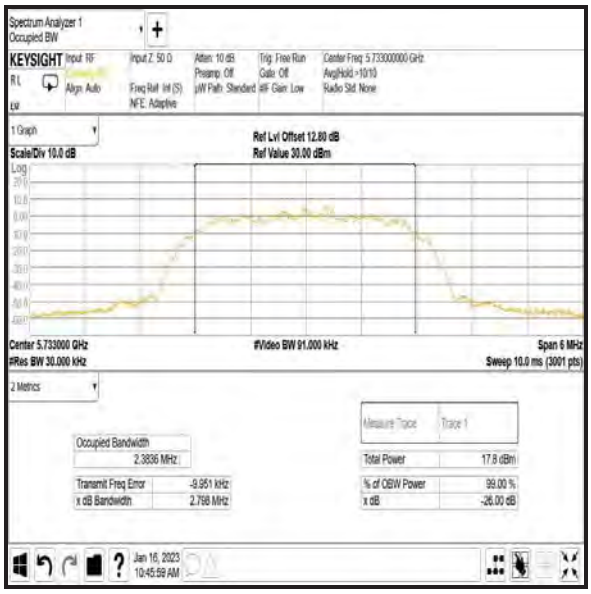
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

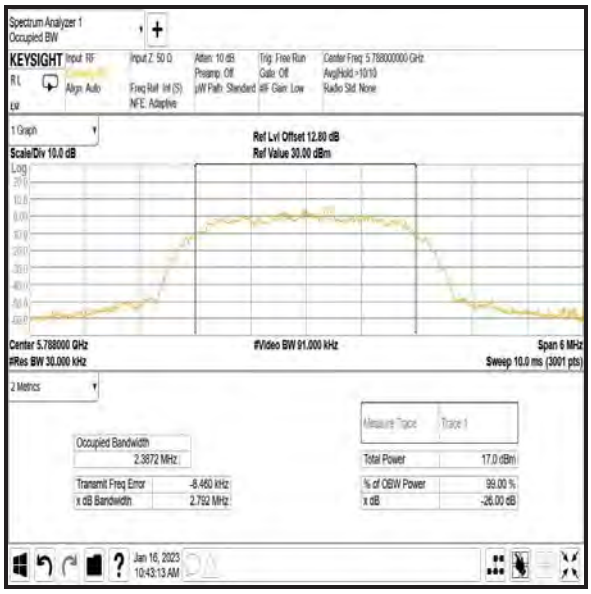
Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5733	2.798	2.793
Middle	5788	2.792	2.790
Top	5844	2.792	2.797

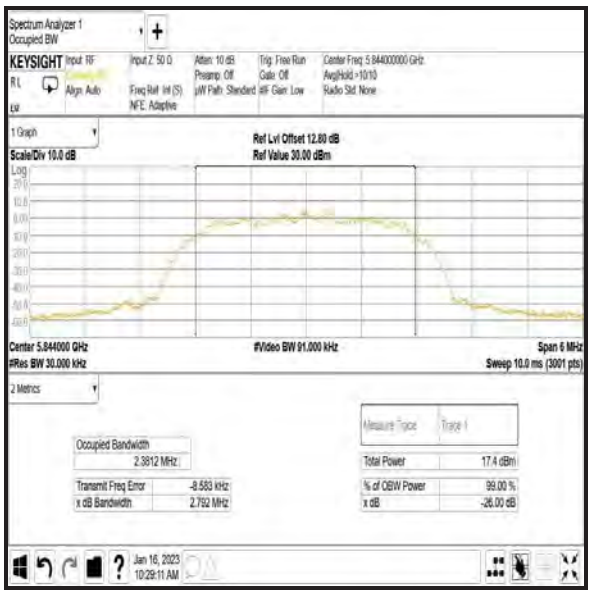
Results: Core 0



Bottom Channel



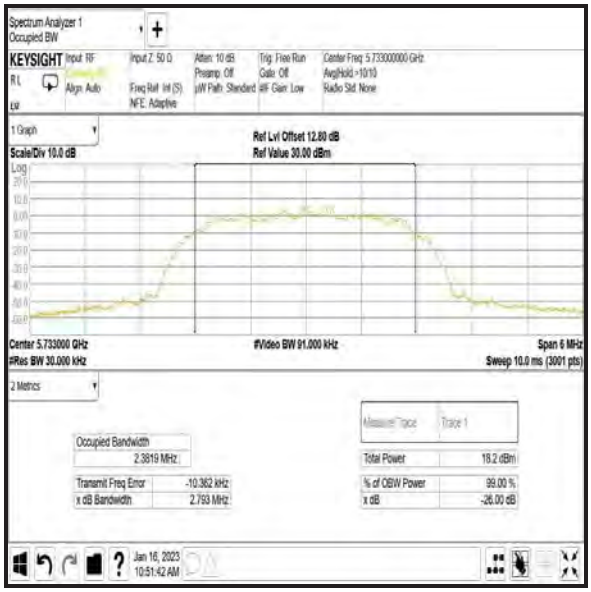
Middle Channel



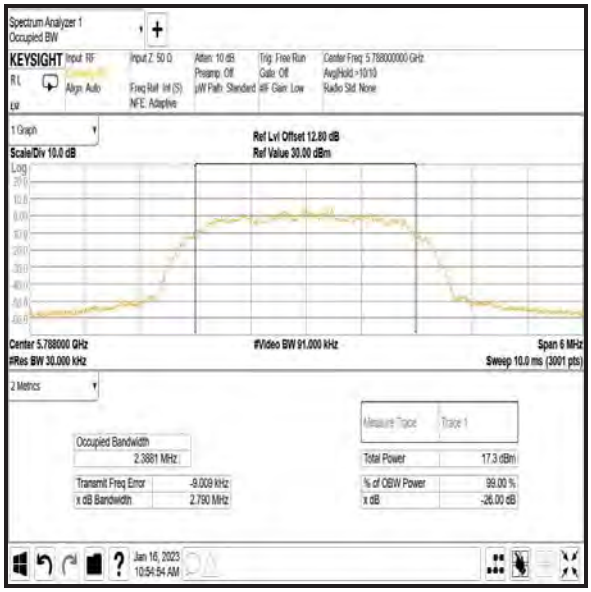
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

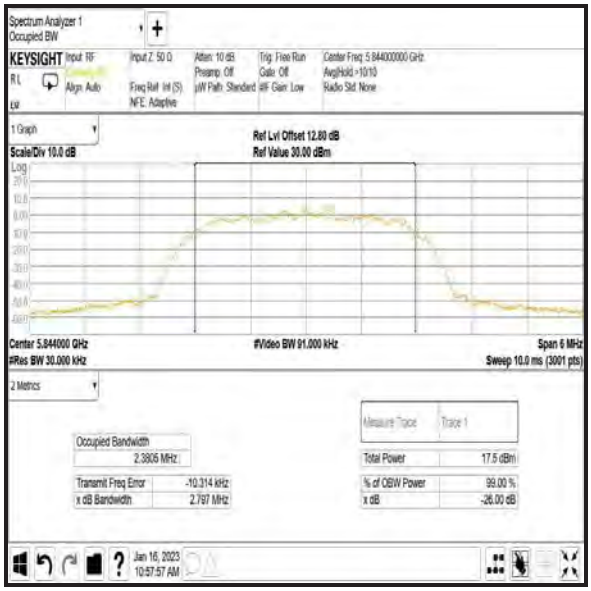
Results: Core 1



Bottom Channel



Middle Channel



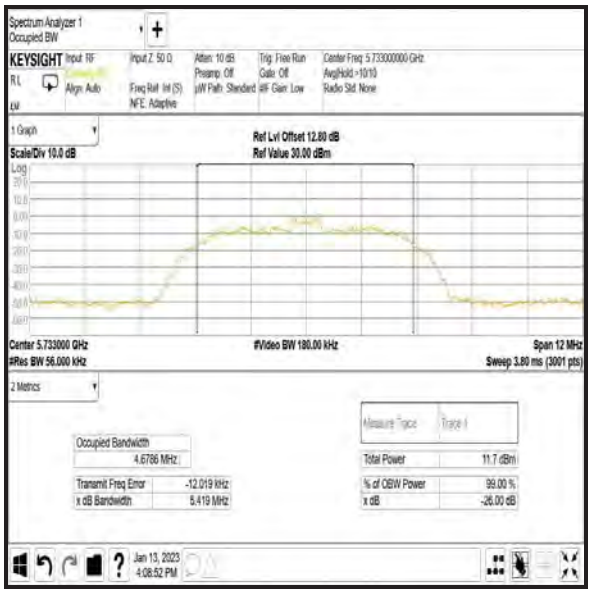
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

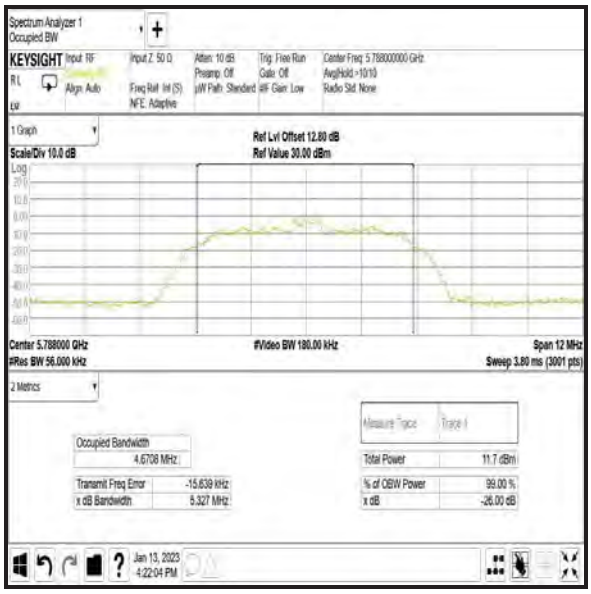
Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5733	5.419	5.320
Middle	5788	5.327	5.327
Top	5844	5.332	5.338

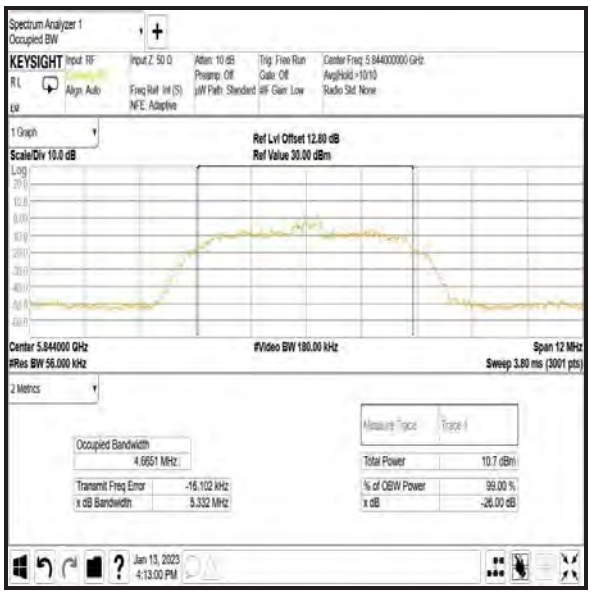
Results: Core 0



Bottom Channel



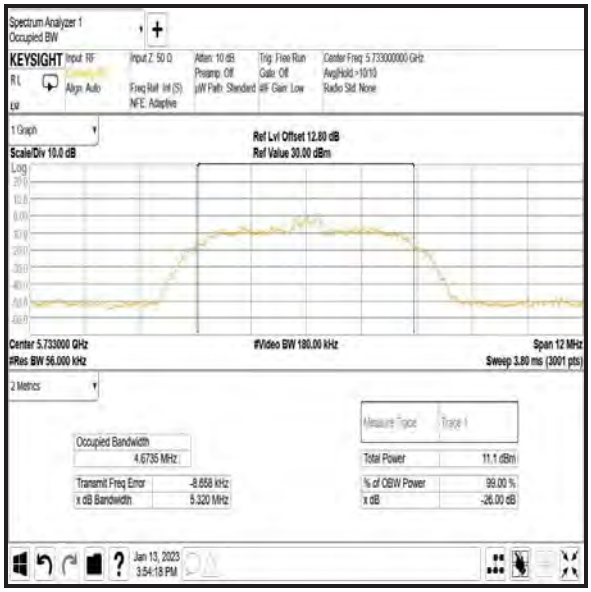
Middle Channel



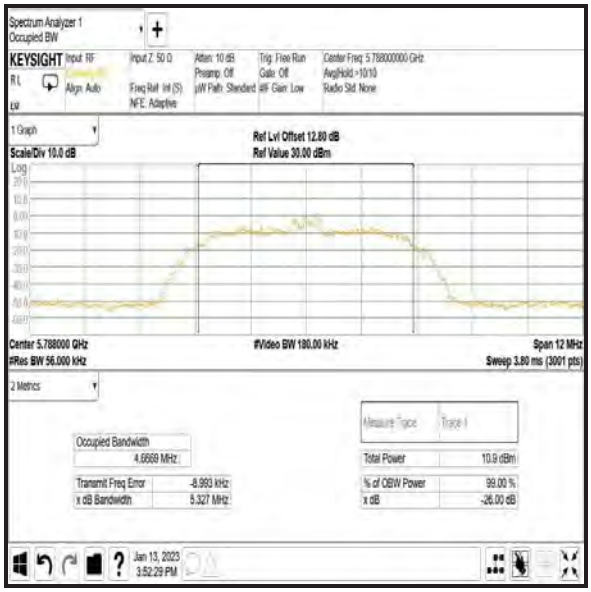
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

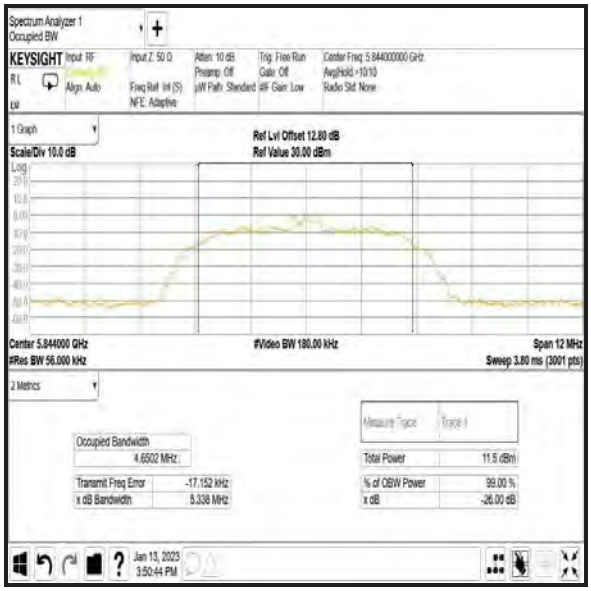
Results: Core 1



Bottom Channel



Middle Channel



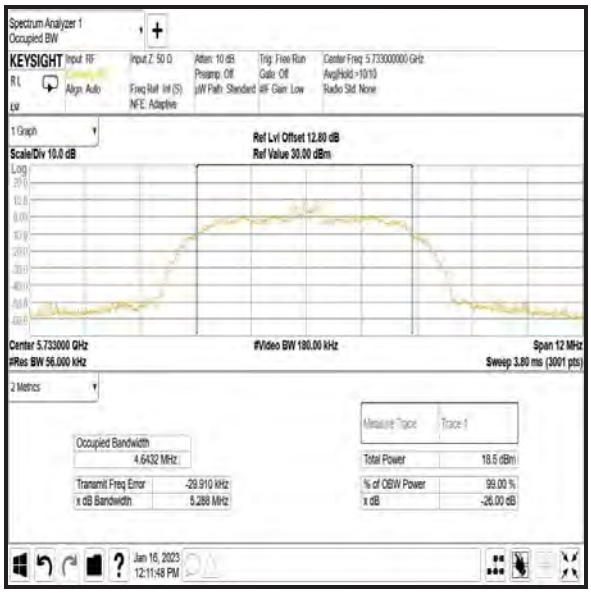
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

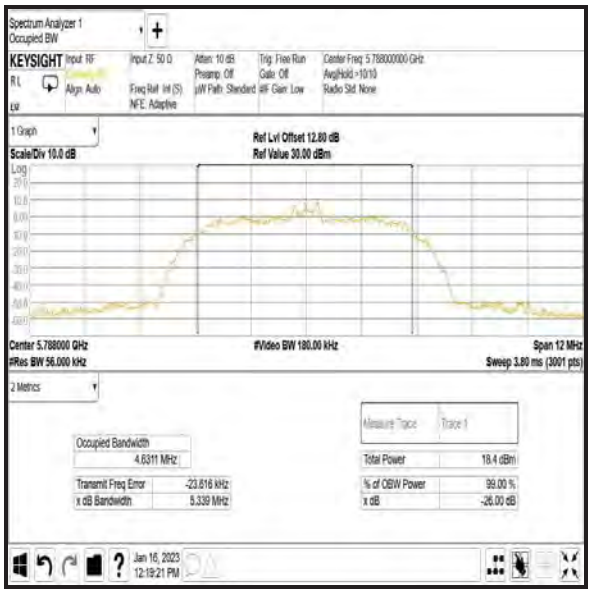
Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
		Core 0	Core 1
Bottom	5733	5.288	5.283
Middle	5788	5.339	5.327
Top	5844	5.301	5.325

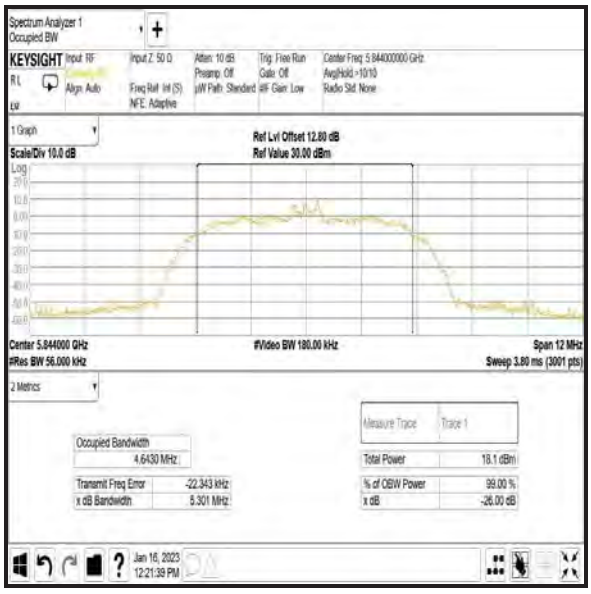
Results: Core 0



Bottom Channel



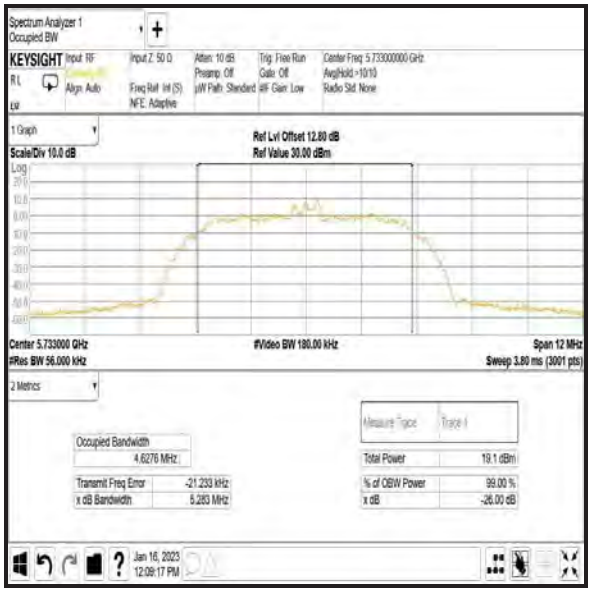
Middle Channel



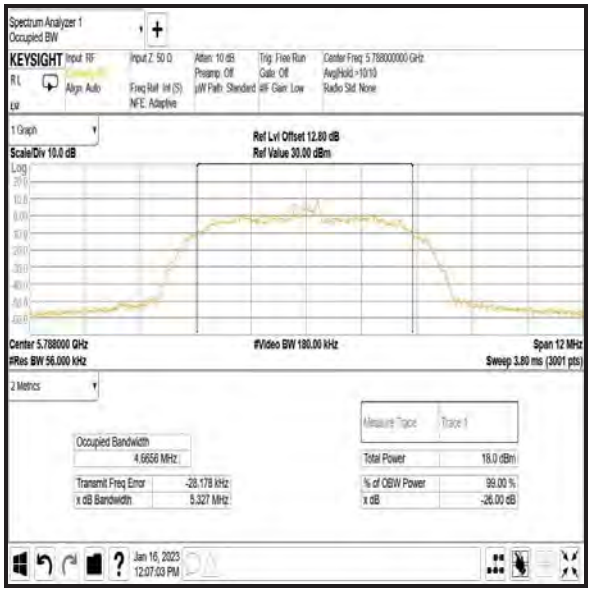
Top Channel

Transmitter 26 dB Emission Bandwidth (5.725-5.85 GHz band) (continued)

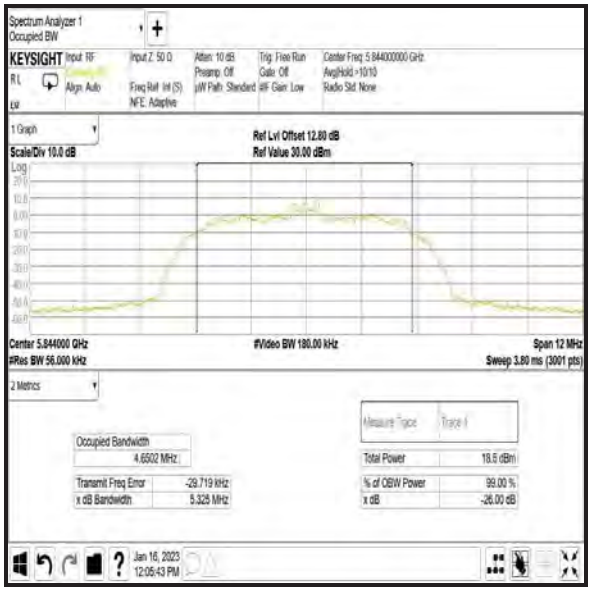
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

4.3 Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band)

Test Summary:

Test Engineers:	Jose Bayona & Luis Pazos Perez	**Test Dates:**	18 January 2023 & 19 January 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.407(e)
Test Method Used:	KDB 789033 D02 Section II.C.2.

Environmental Conditions:

Temperature (°C):	22 to 23
Relative Humidity (%):	30 to 31

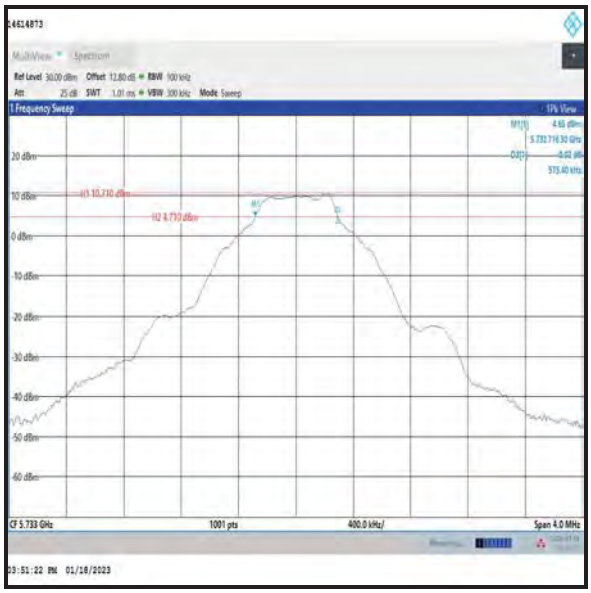
Note(s):

1. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The span was set to 4 MHz for DH5, 6 MHz for 4DH5 and 10 MHz for 8DH5. The bandwidth was measured at 6 dB down from the peak of the signal.
2. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

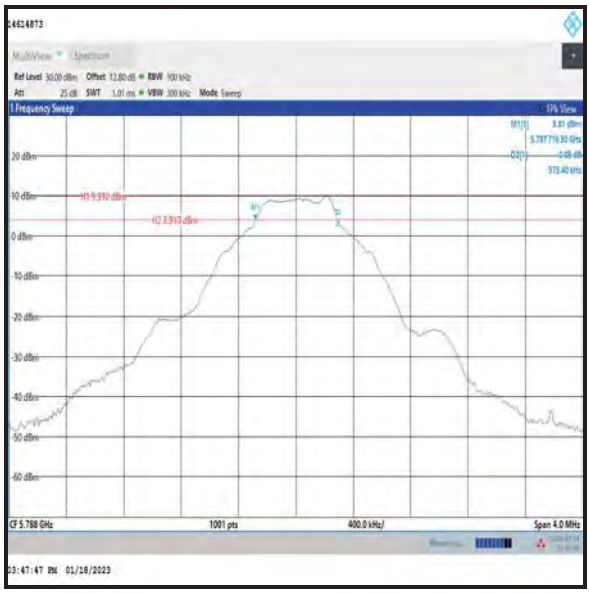
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 0 / iPA

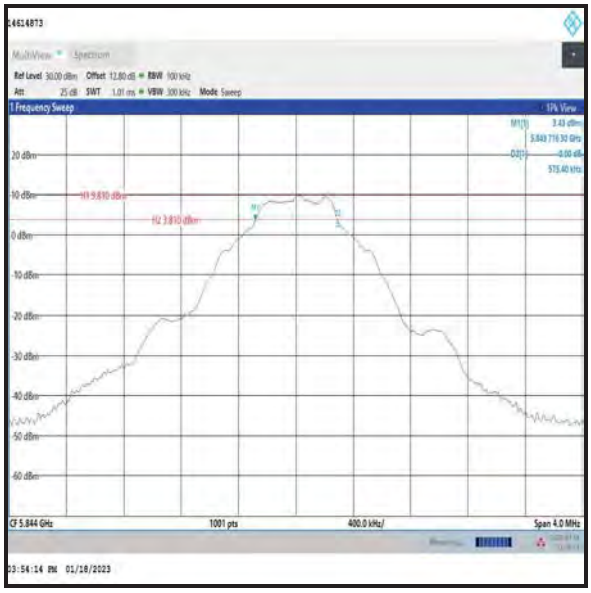
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	575.400	≥500	75.400	Complied
Middle	575.400	≥500	75.400	Complied
Top	575.400	≥500	75.400	Complied



Bottom Channel



Middle Channel

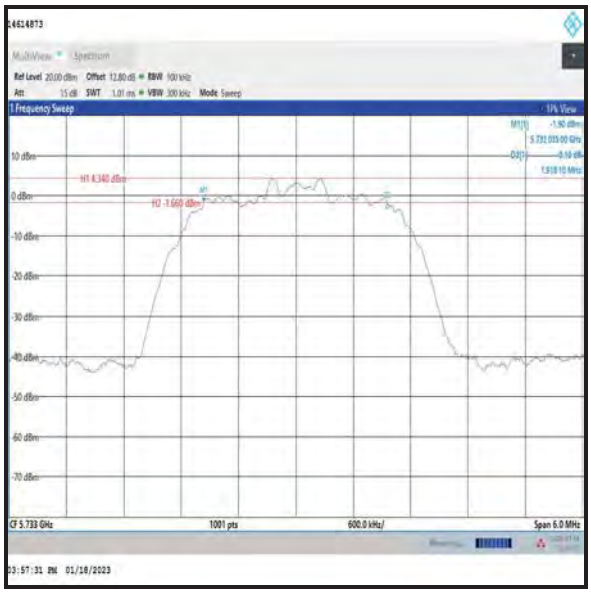


Top Channel

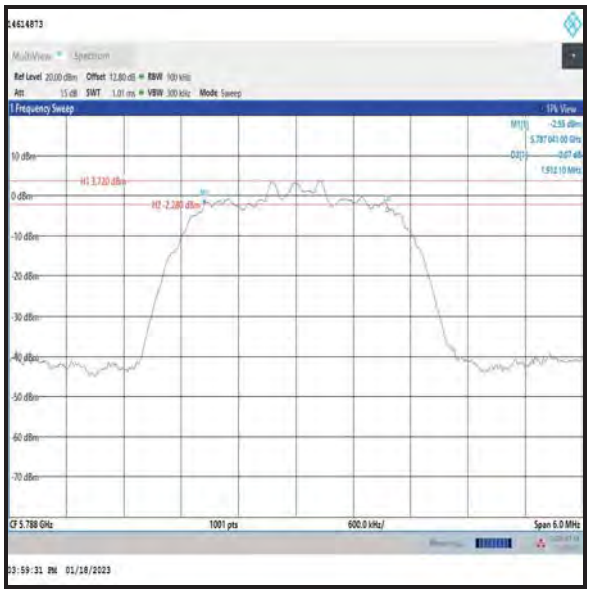
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / iPA

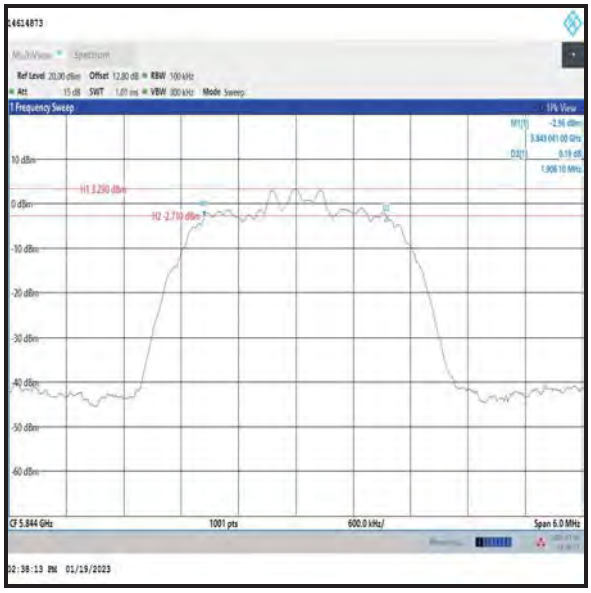
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1918.100	≥500	1418.100	Complied
Middle	1912.100	≥500	1412.100	Complied
Top	1906.100	≥500	1406.100	Complied



Bottom Channel



Middle Channel

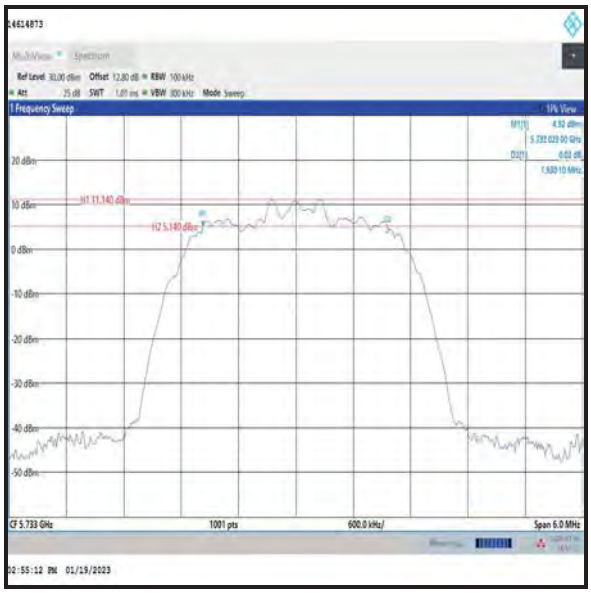


Top Channel

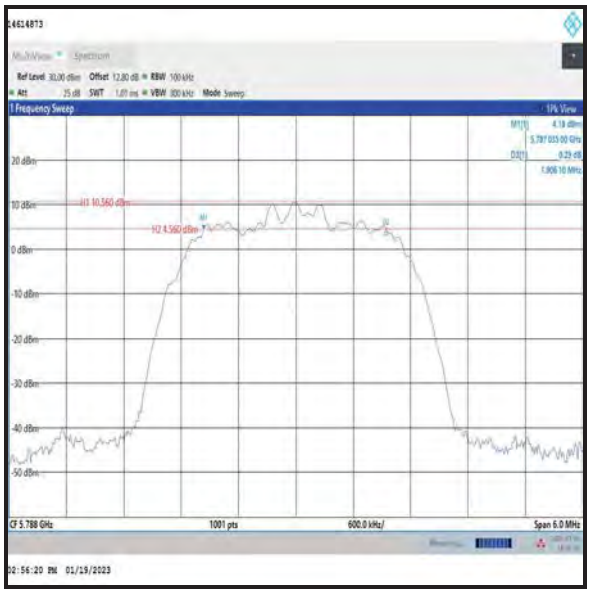
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / ePA

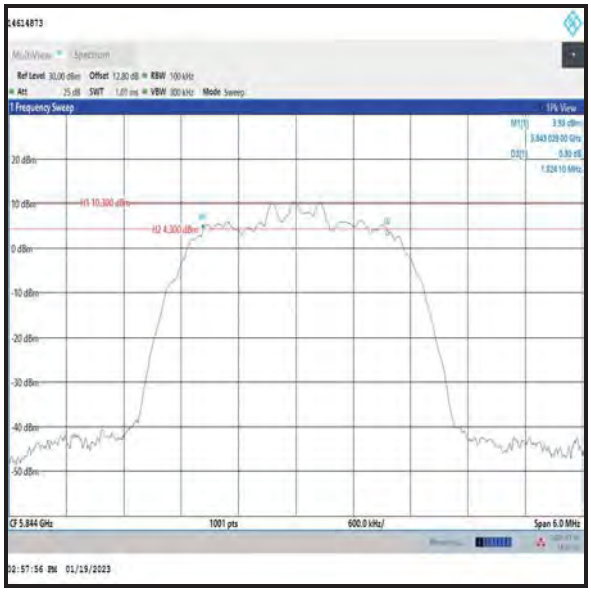
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1930.100	≥500	1430.100	Complied
Middle	1906.100	≥500	1406.100	Complied
Top	1924.100	≥500	1424.100	Complied



Bottom Channel



Middle Channel

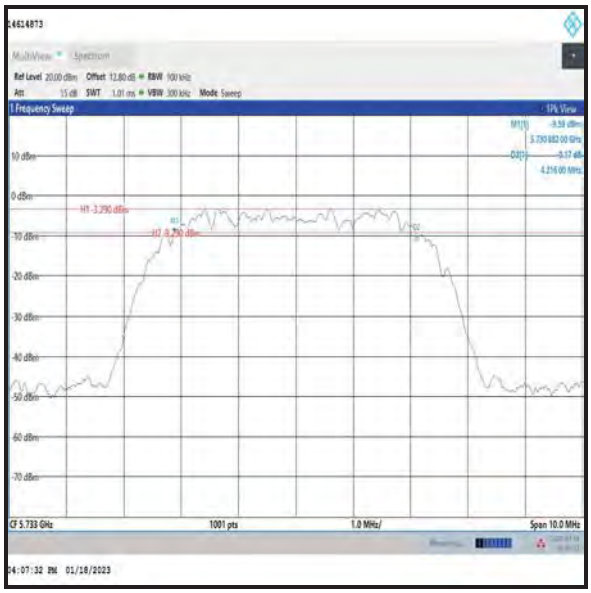


Top Channel

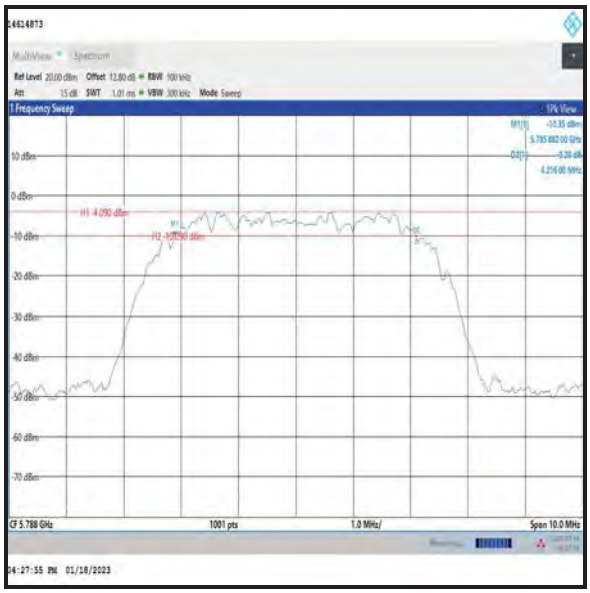
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / iPA

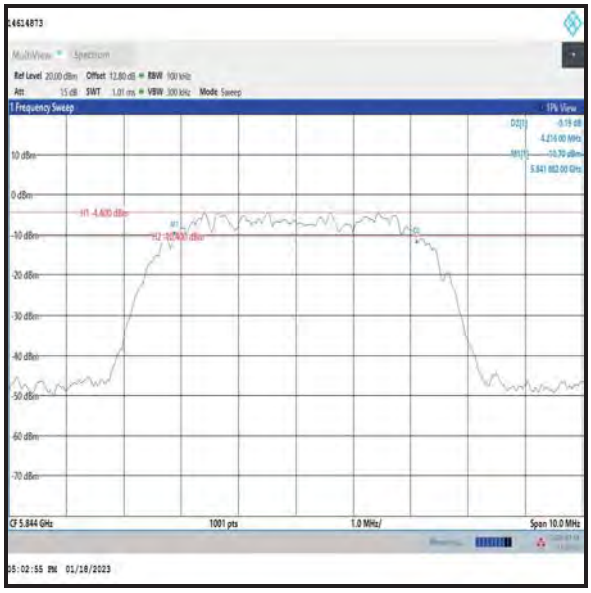
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4216.000	≥500	3716.000	Complied
Middle	4216.000	≥500	3716.000	Complied
Top	4216.000	≥500	3716.000	Complied



Bottom Channel



Middle Channel

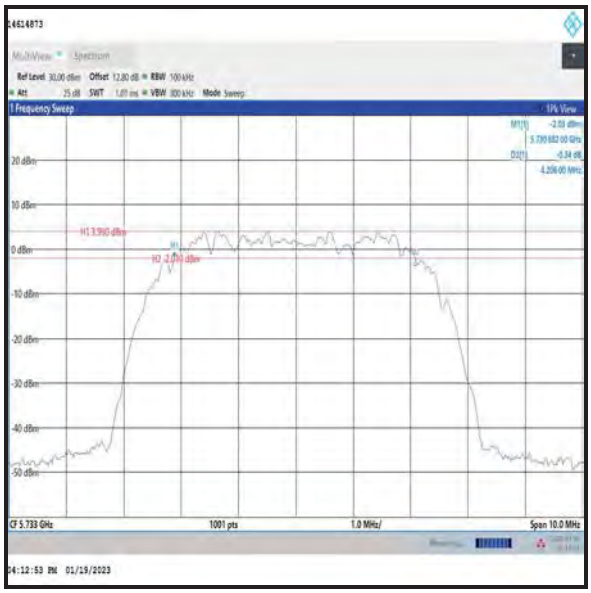


Top Channel

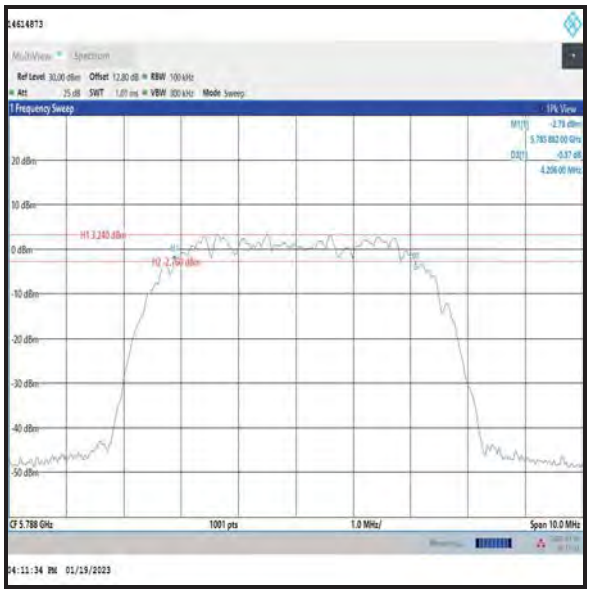
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / ePA

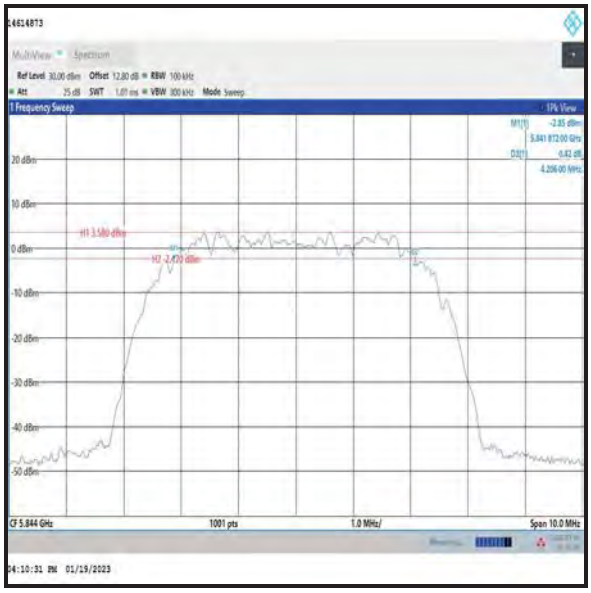
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4206.000	≥500	3706.000	Complied
Middle	4206.000	≥500	3706.000	Complied
Top	4206.000	≥500	3706.000	Complied



Bottom Channel



Middle Channel

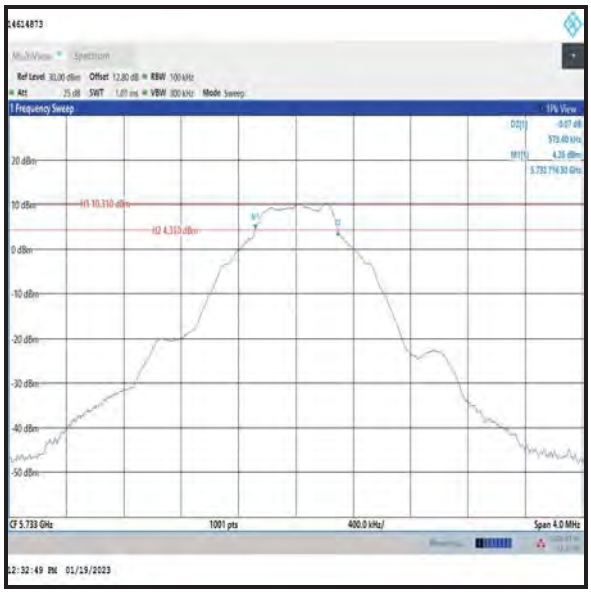


Top Channel

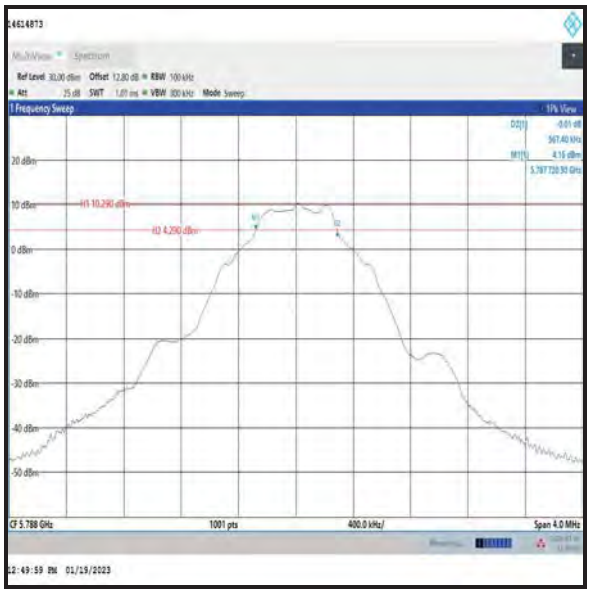
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

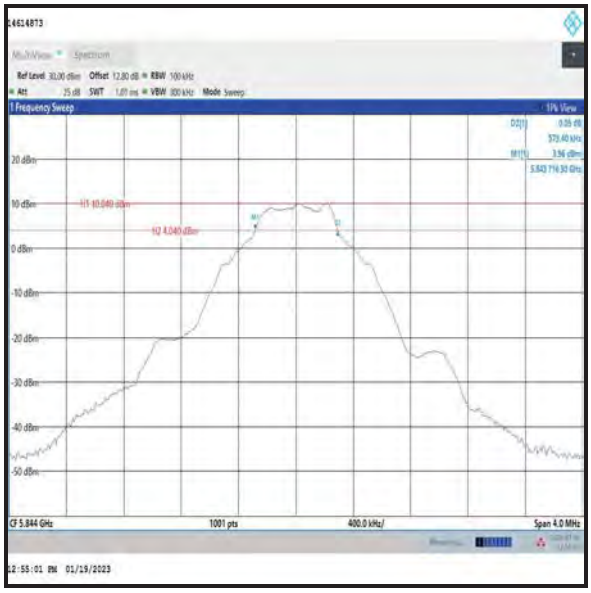
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	575.400	≥500	75.400	Complied
Middle	567.400	≥500	67.400	Complied
Top	575.400	≥500	75.400	Complied



Bottom Channel



Middle Channel

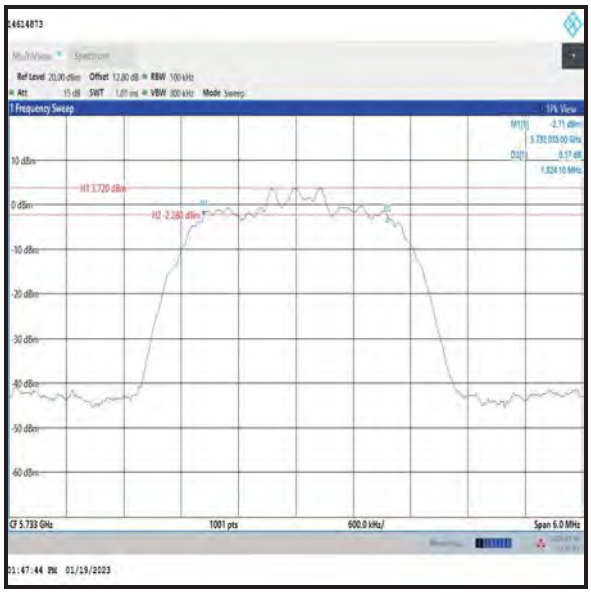


Top Channel

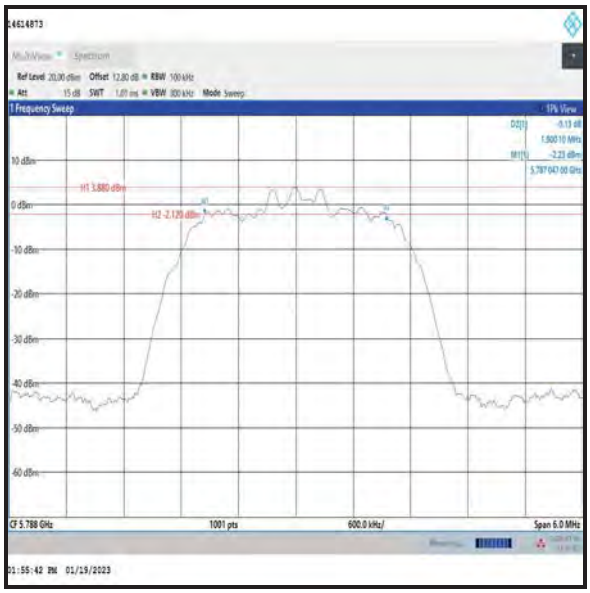
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / iPA

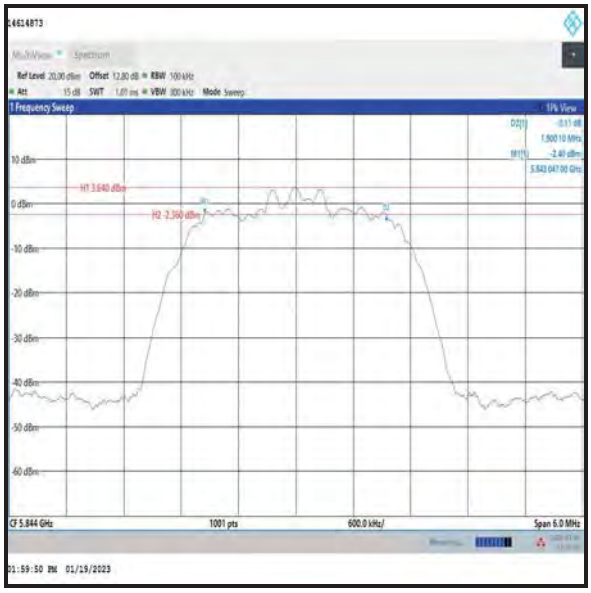
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1900.100	≥500	1400.100	Complied
Top	1900.100	≥500	1400.100	Complied



Bottom Channel



Middle Channel

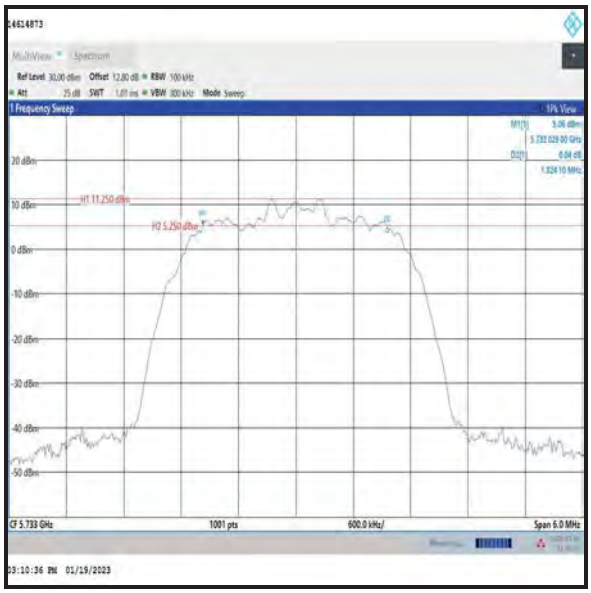


Top Channel

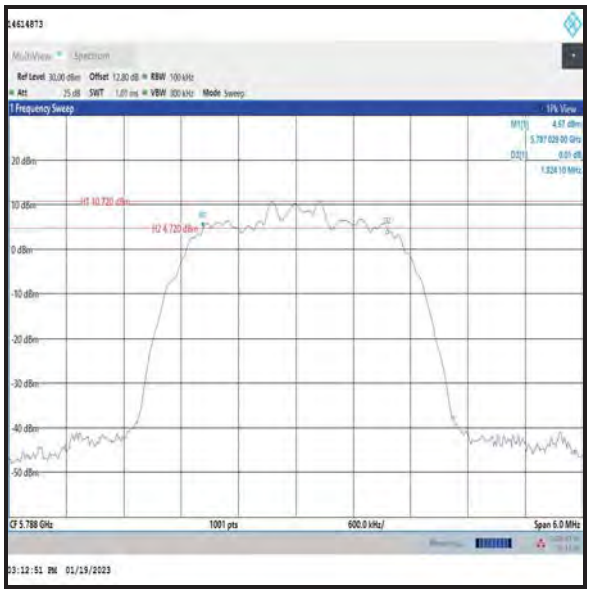
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / ePA

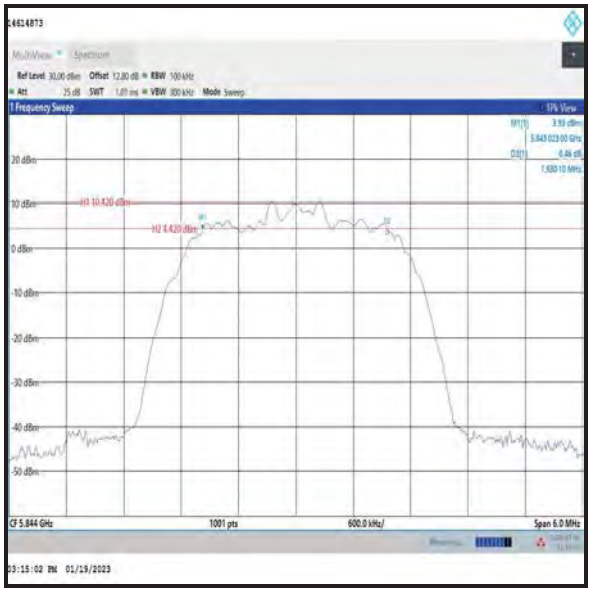
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1924.100	≥500	1424.100	Complied
Top	1930.100	≥500	1430.100	Complied



Bottom Channel



Middle Channel

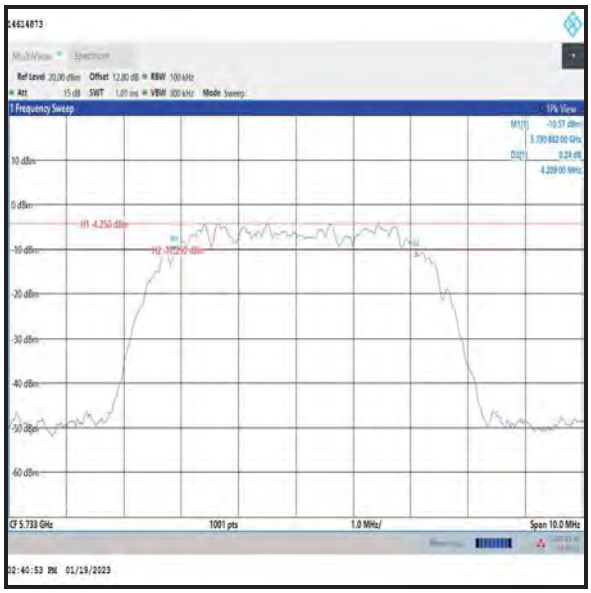


Top Channel

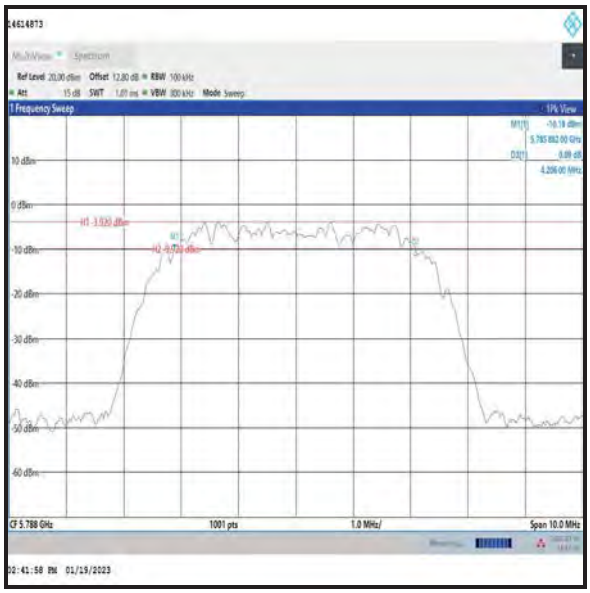
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / iPA

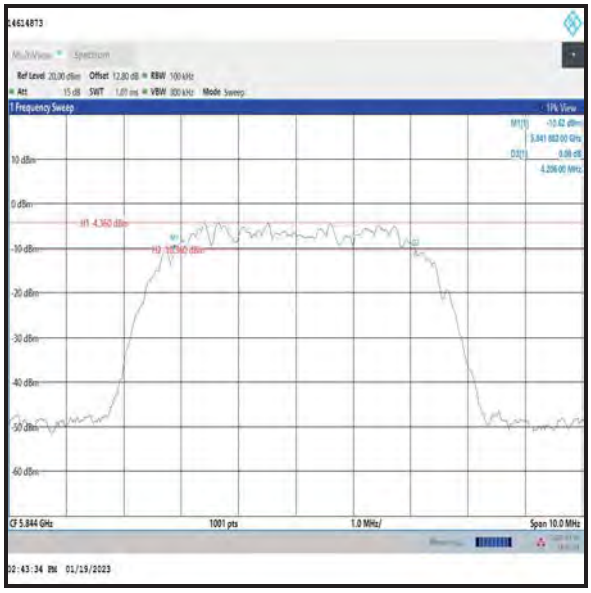
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4209.000	≥500	3709.000	Complied
Middle	4206.000	≥500	3706.000	Complied
Top	4206.000	≥500	3706.000	Complied



Bottom Channel



Middle Channel

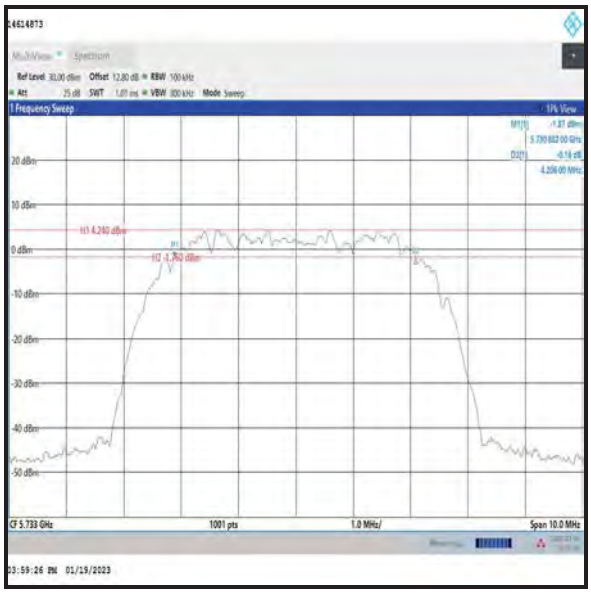


Top Channel

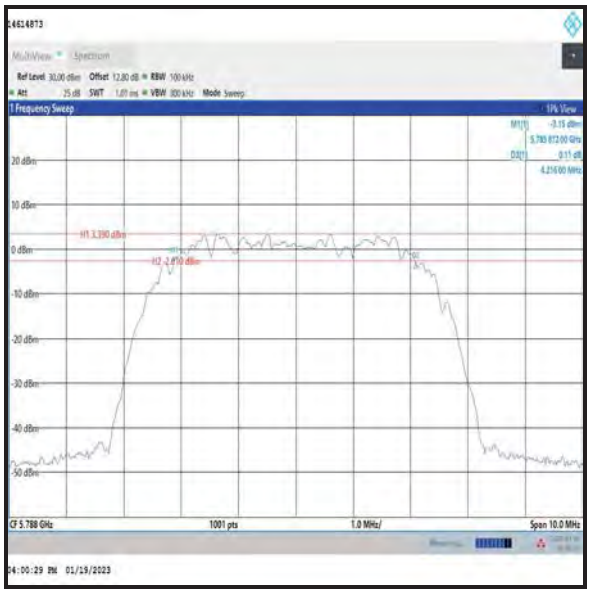
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / ePA

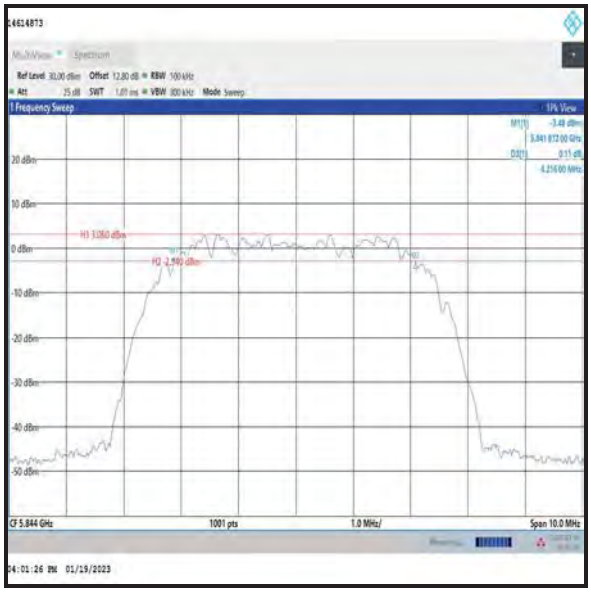
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4206.000	≥500	3706.000	Complied
Middle	4216.000	≥500	3716.000	Complied
Top	4216.000	≥500	3716.000	Complied



Bottom Channel



Middle Channel

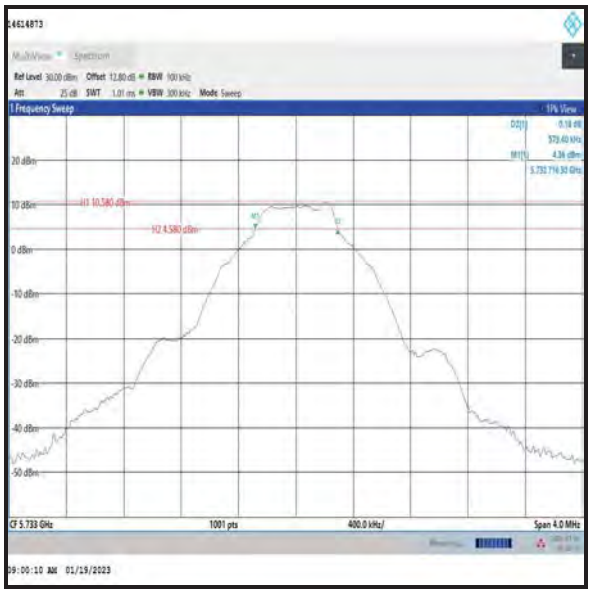


Top Channel

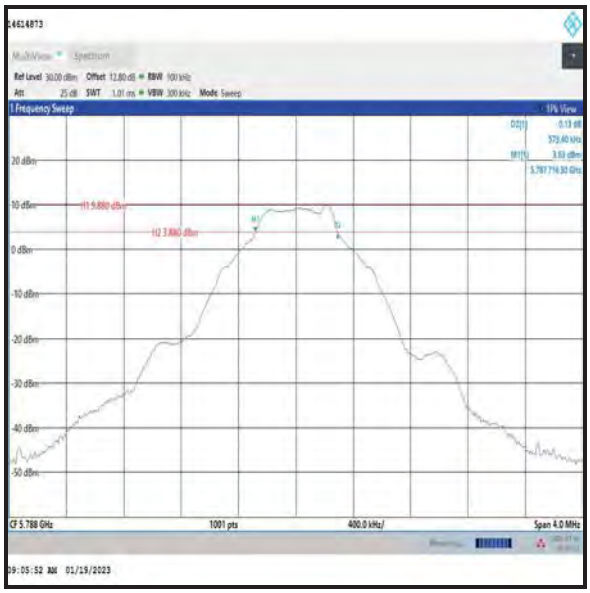
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 / iPA

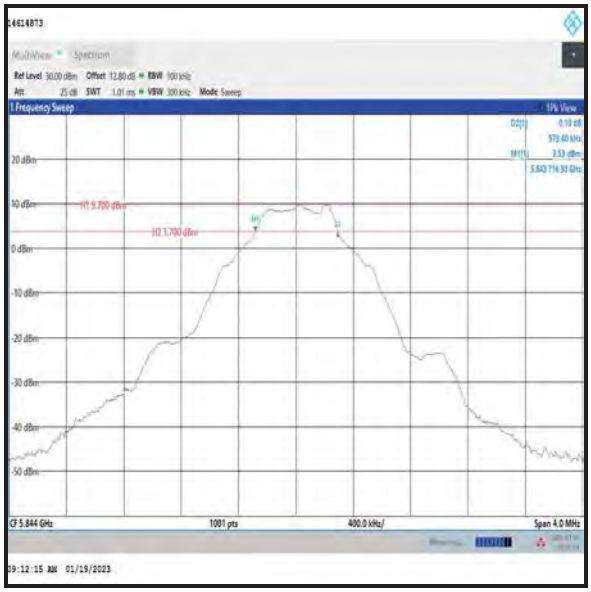
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	575.400	≥500	75.400	Complied
Middle	575.400	≥500	75.400	Complied
Top	575.400	≥500	75.400	Complied



Bottom Channel



Middle Channel

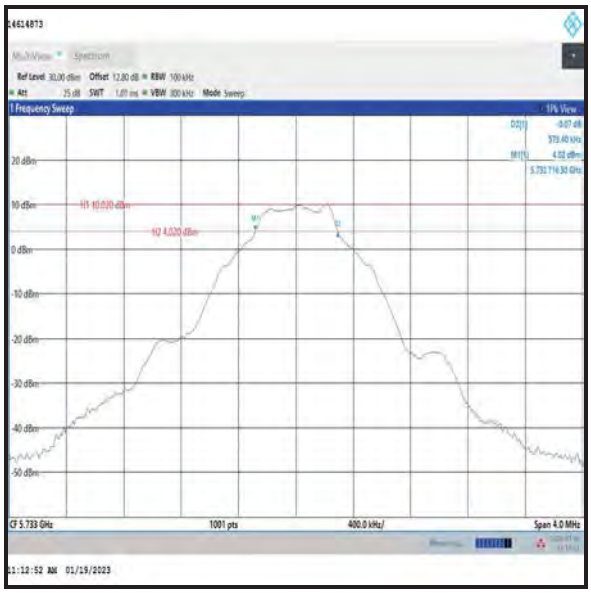


Top Channel

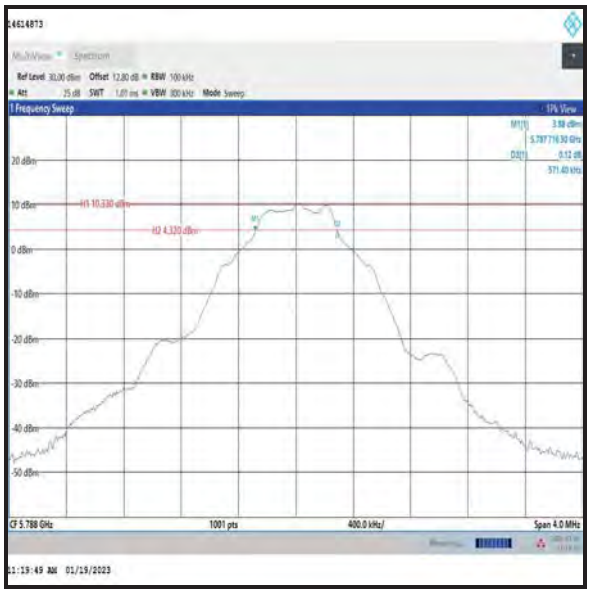
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 1 / iPA

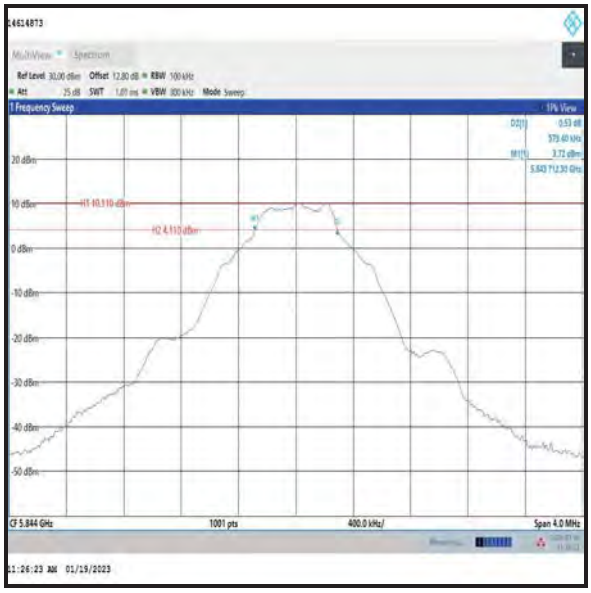
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	575.400	≥500	75.400	Complied
Middle	571.400	≥500	71.400	Complied
Top	575.400	≥500	75.400	Complied



Bottom Channel



Middle Channel

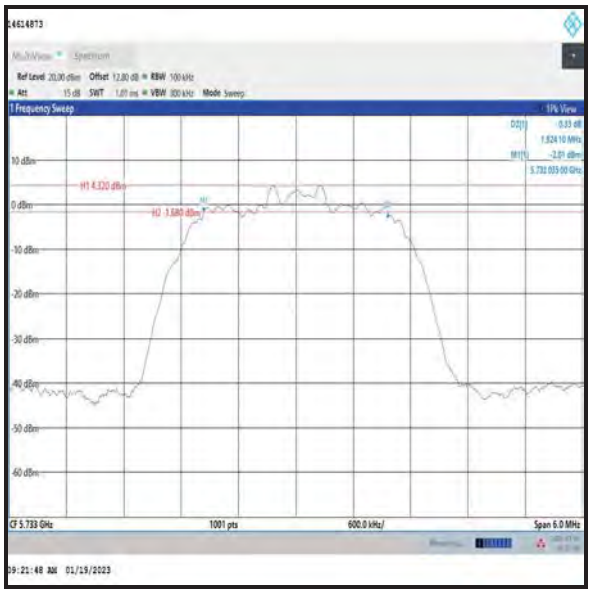


Top Channel

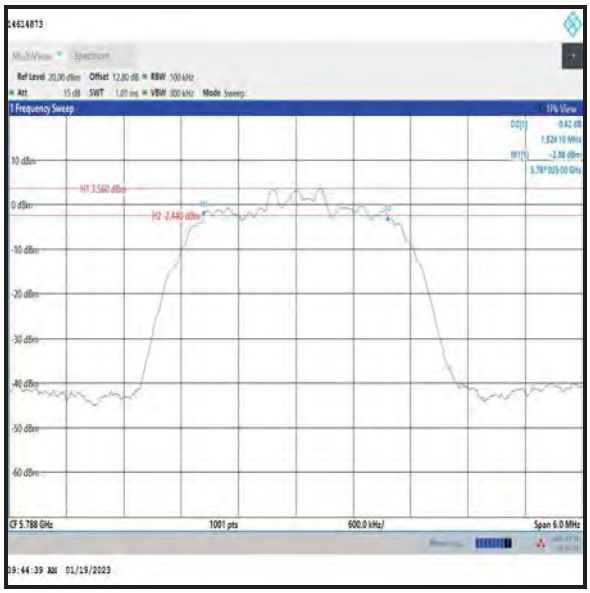
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 / iPA

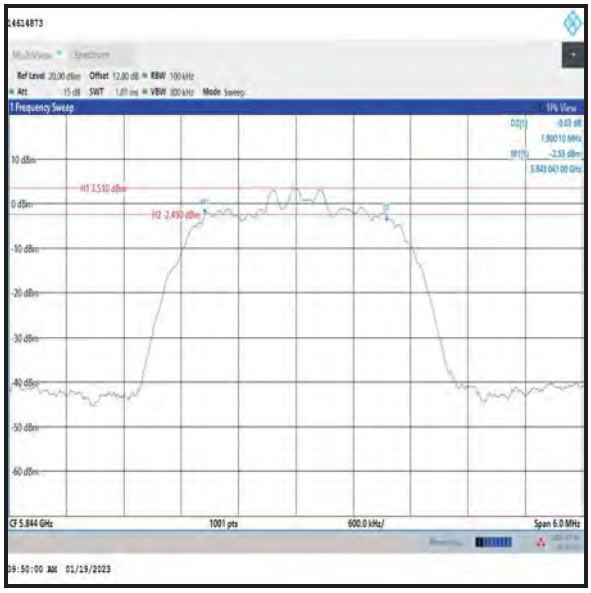
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1924.100	≥500	1424.100	Complied
Top	1900.100	≥500	1400.100	Complied



Bottom Channel



Middle Channel

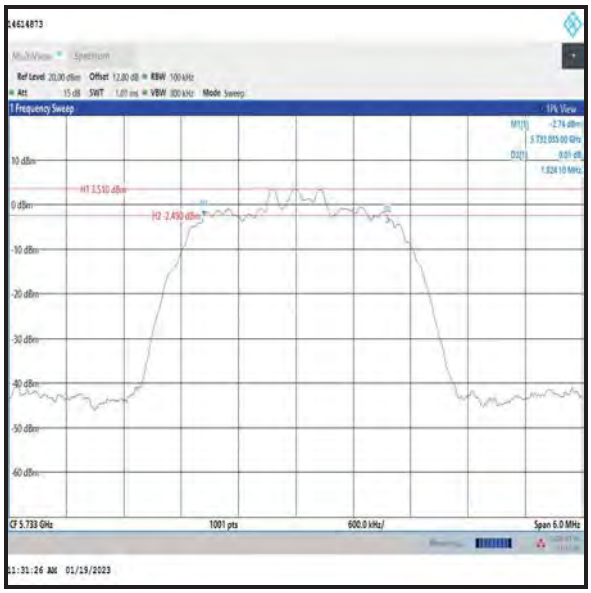


Top Channel

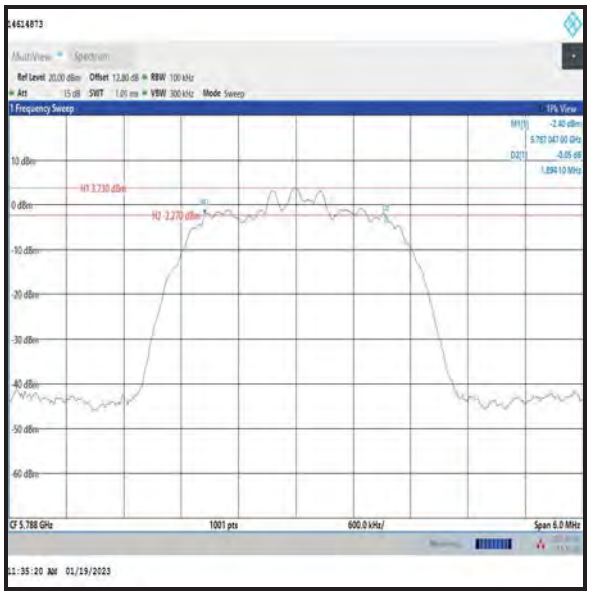
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 1 / iPA

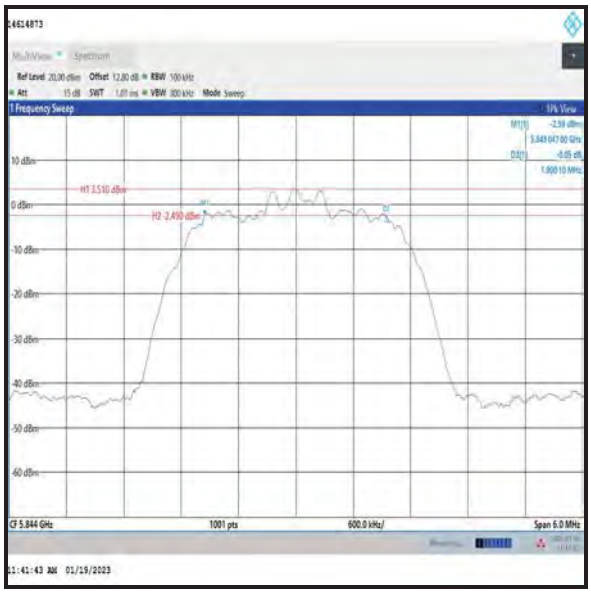
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1894.100	≥500	1394.100	Complied
Top	1900.100	≥500	1400.100	Complied



Bottom Channel



Middle Channel

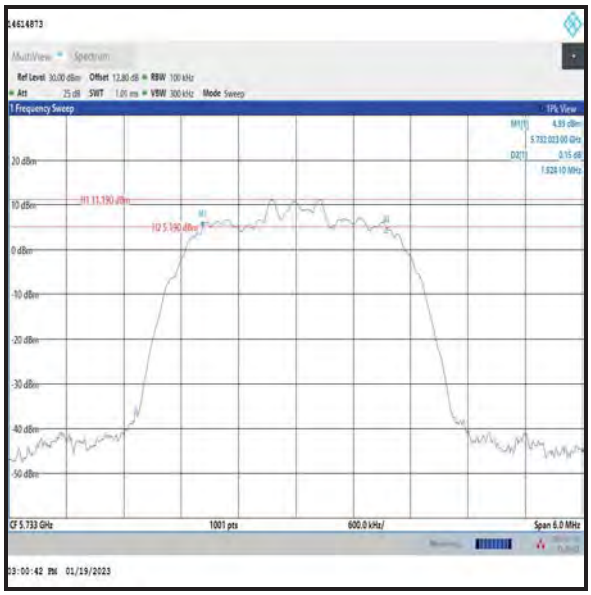


Top Channel

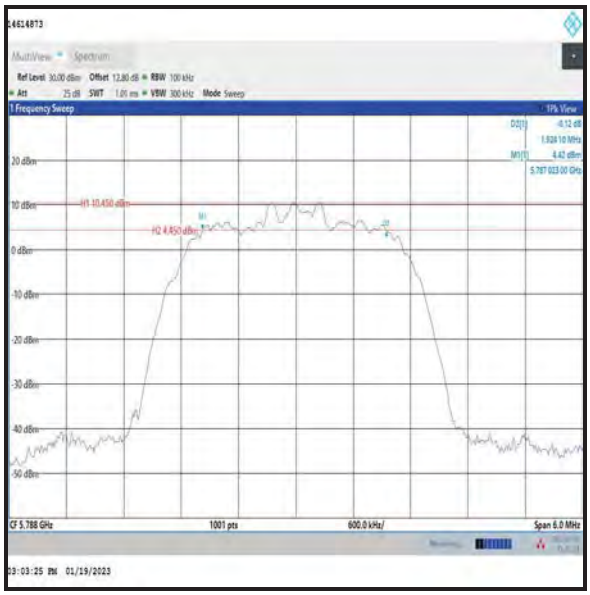
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 / ePA

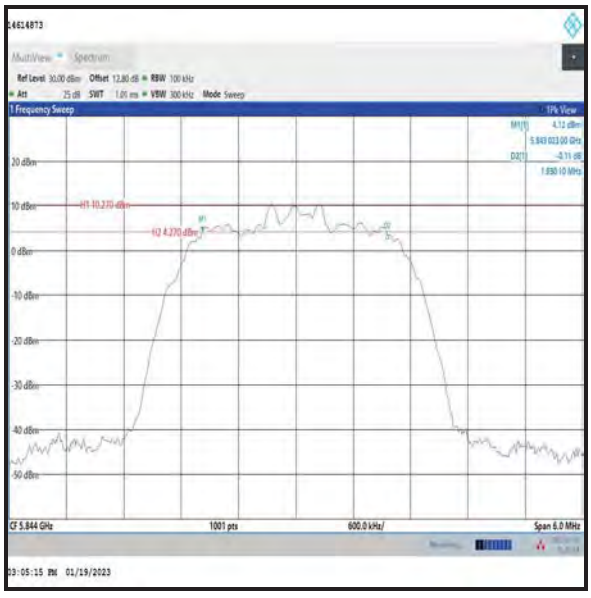
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1924.100	≥500	1424.100	Complied
Top	1930.100	≥500	1430.100	Complied



Bottom Channel



Middle Channel

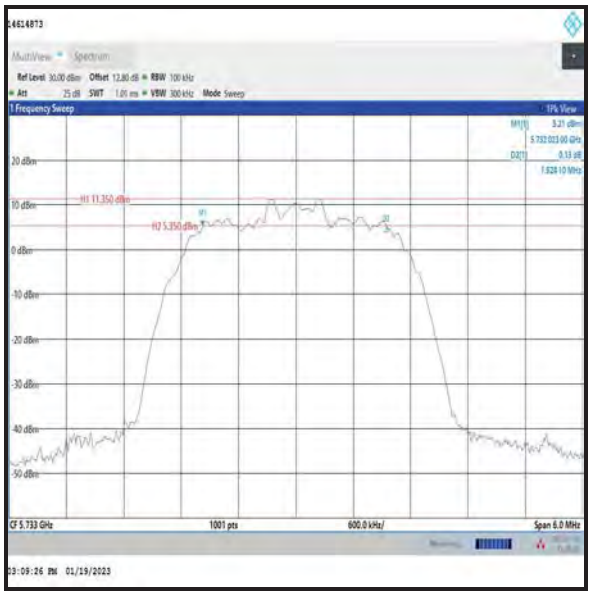


Top Channel

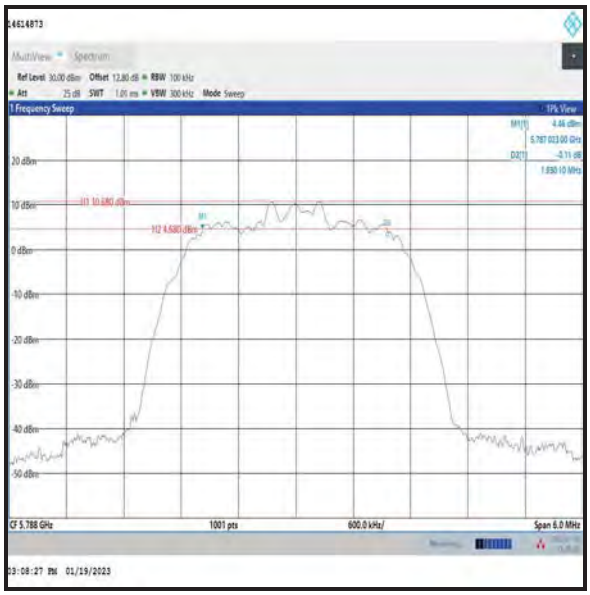
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 1 / ePA

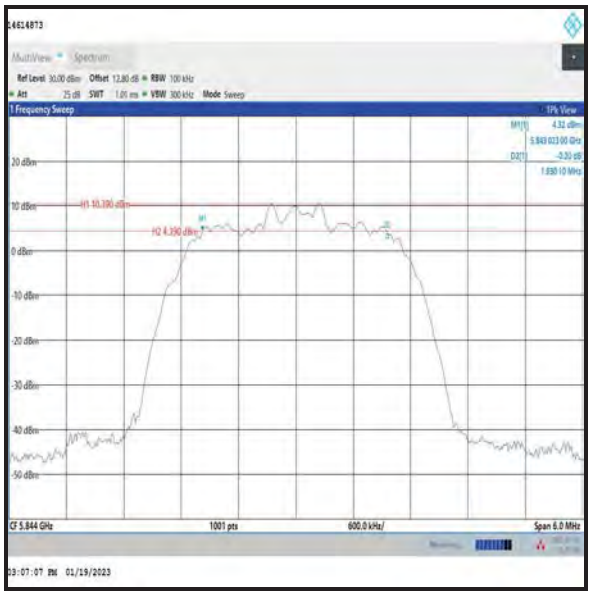
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	1924.100	≥500	1424.100	Complied
Middle	1930.100	≥500	1430.100	Complied
Top	1930.100	≥500	1430.100	Complied



Bottom Channel



Middle Channel

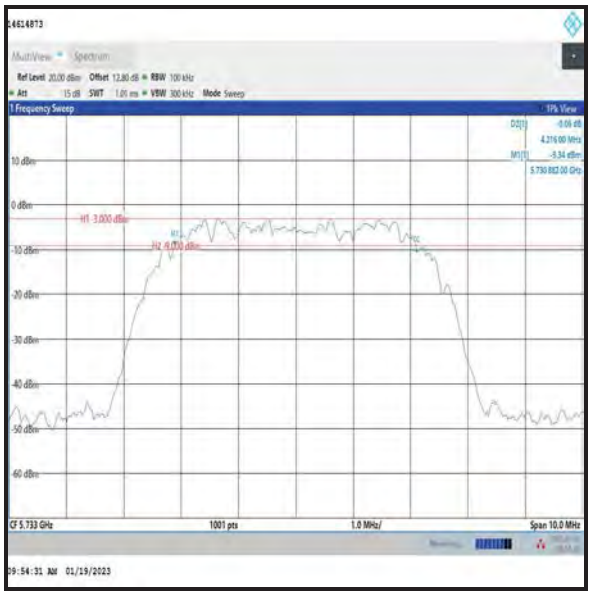


Top Channel

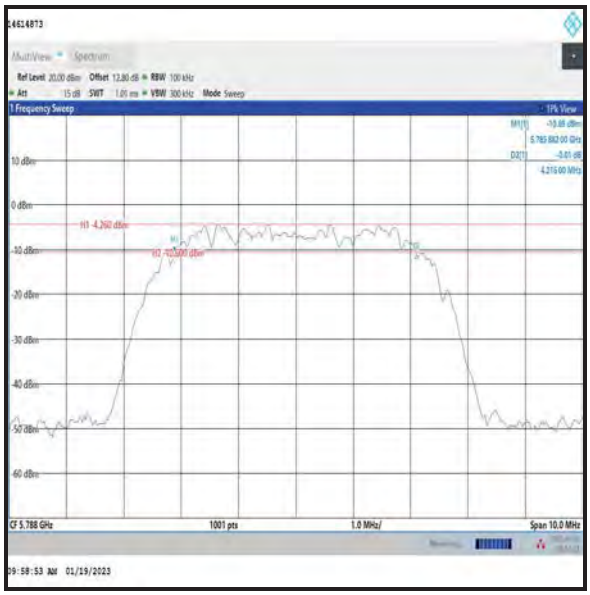
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 / iPA

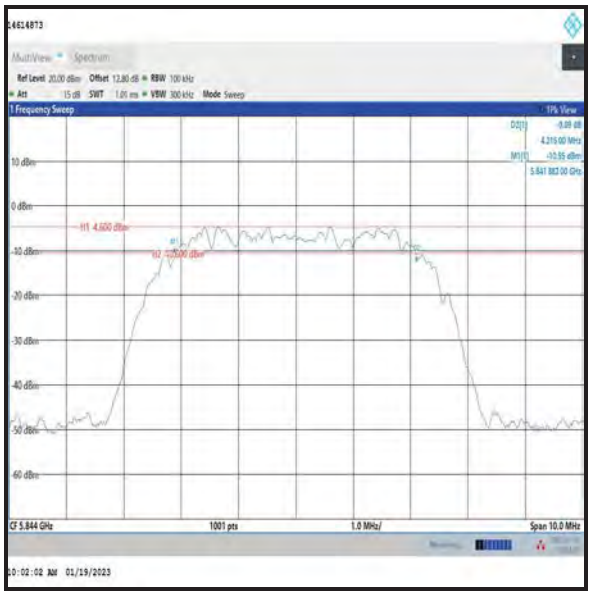
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4216.000	≥500	3716.000	Complied
Middle	4216.000	≥500	3716.000	Complied
Top	4216.000	≥500	3716.000	Complied



Bottom Channel



Middle Channel

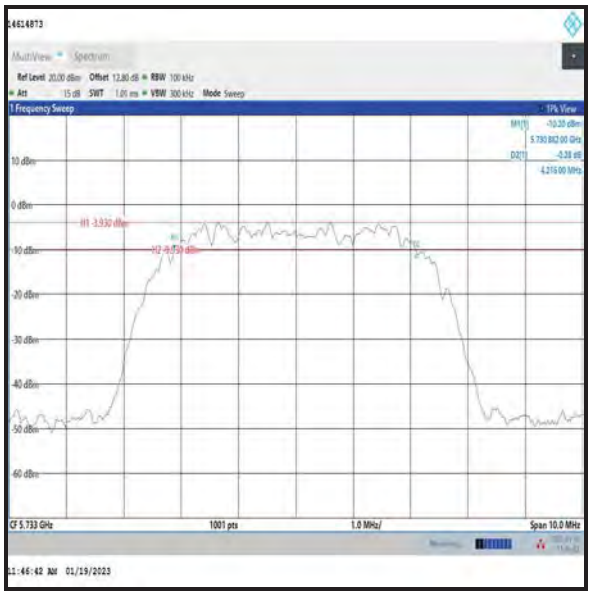


Top Channel

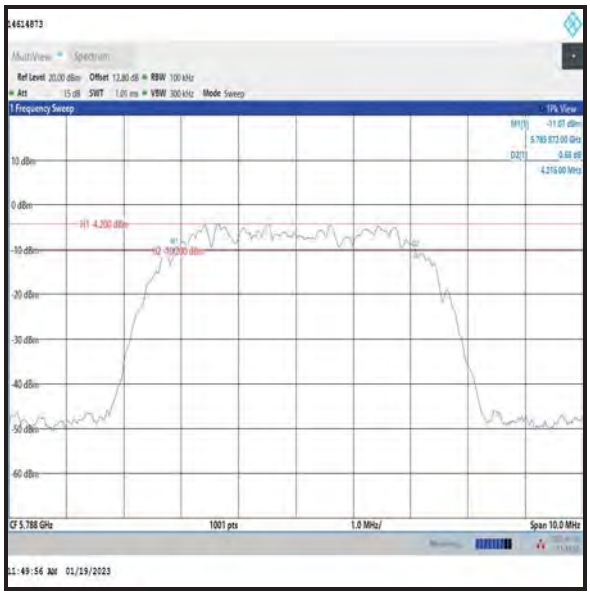
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 1 / iPA

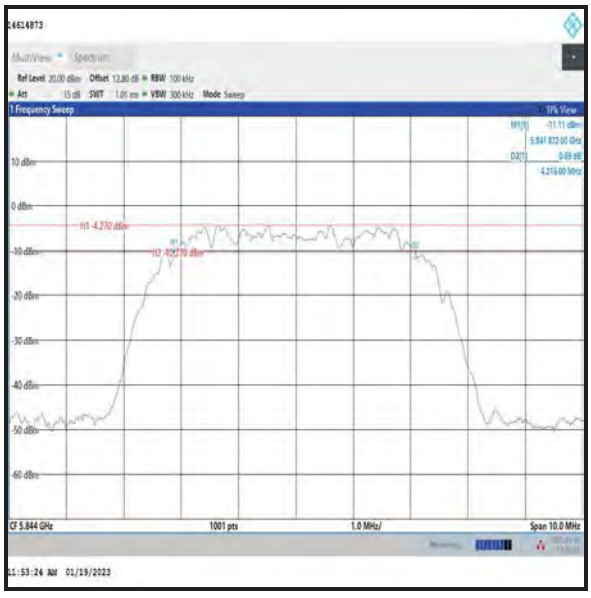
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4216.000	≥500	3716.000	Complied
Middle	4216.000	≥500	3716.000	Complied
Top	4216.000	≥500	3716.000	Complied



Bottom Channel



Middle Channel

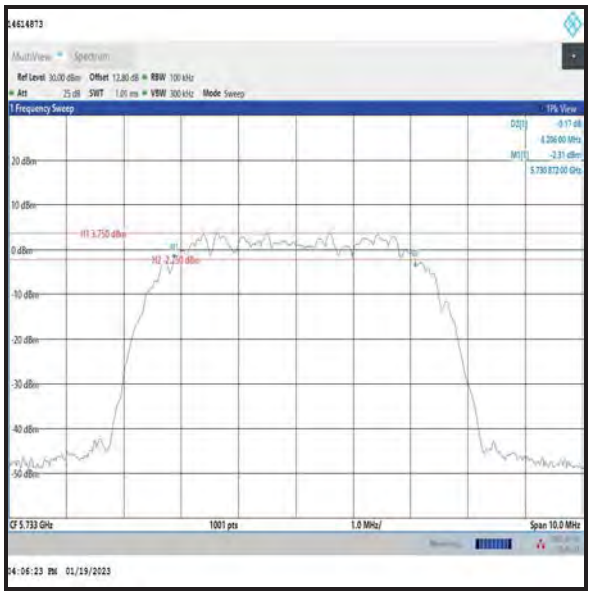


Top Channel

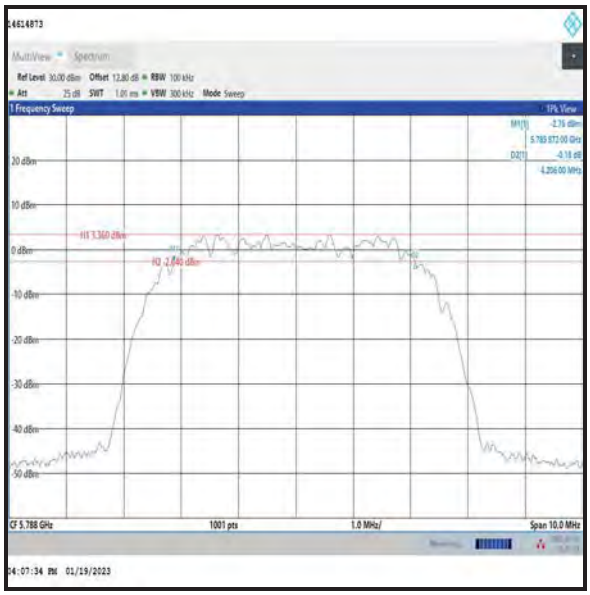
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 / ePA

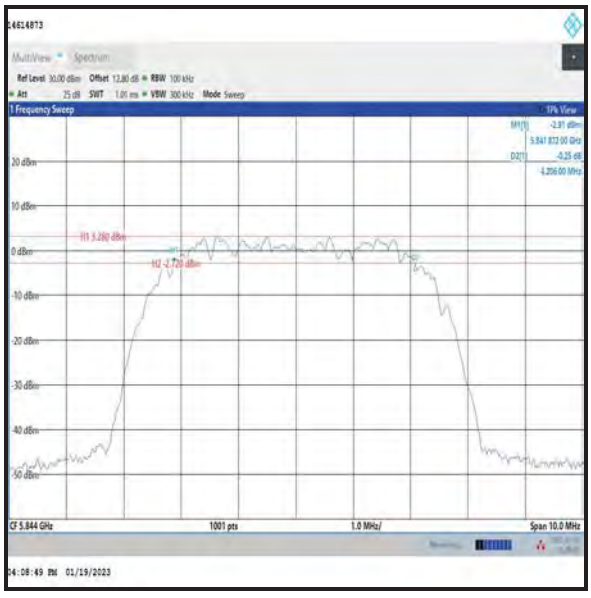
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4206.000	≥500	3706.000	Complied
Middle	4206.000	≥500	3706.000	Complied
Top	4206.000	≥500	3706.000	Complied



Bottom Channel



Middle Channel

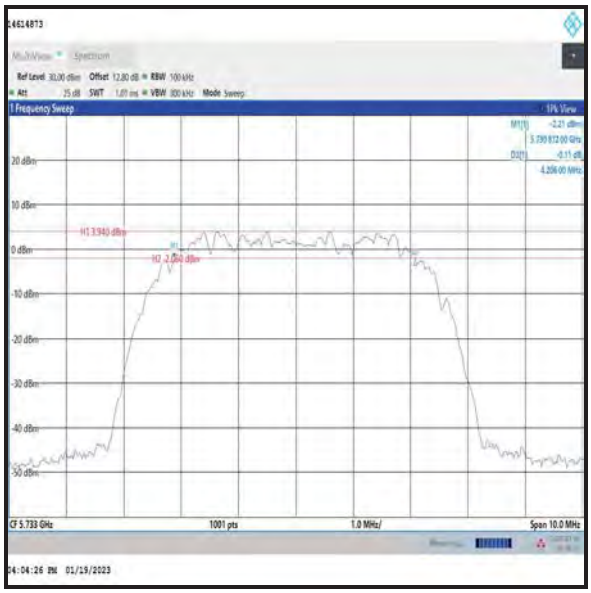


Top Channel

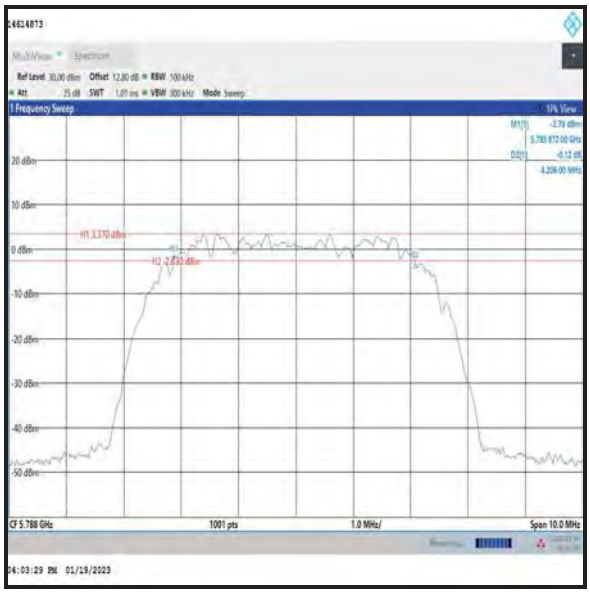
Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 1 / ePA

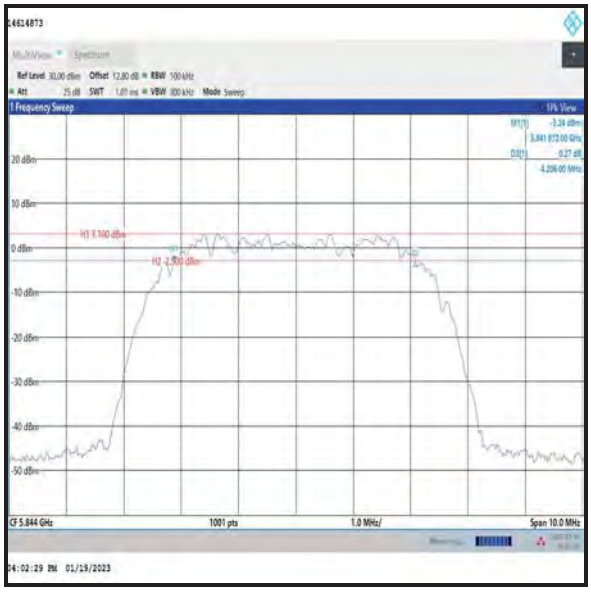
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	4206.000	≥500	3706.000	Complied
Middle	4206.000	≥500	3706.000	Complied
Top	4206.000	≥500	3706.000	Complied



Bottom Channel



Middle Channel



Top Channel

4.4 Transmitter Maximum Conducted Output Power

4.4.1 5.15-5.25 GHz band

Test Summary:

Test Engineer:	Jose Bayona	**Test Dates:**	23 January 2023 & 24 January 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.407(a)(1)(iv)
Test Method Used:	KDB 789033 D02 Section II.E.2.d)

Environmental Conditions:

Temperature (°C):	20 to 21
Relative Humidity (%):	30

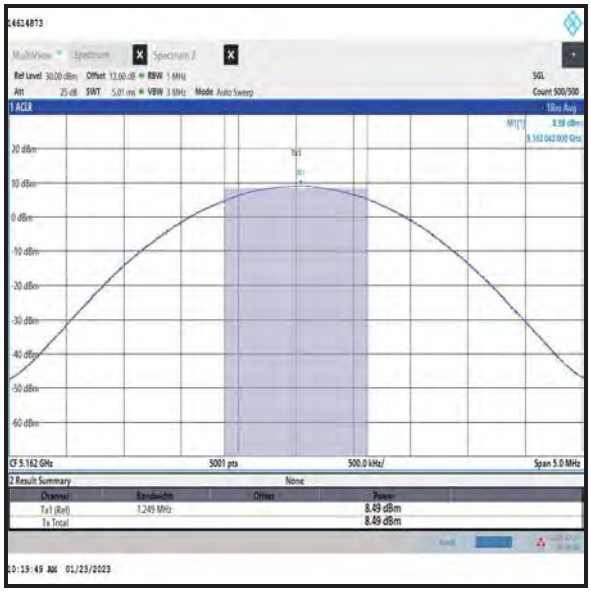
Note(s):

1. Measurements were performed in accordance with FCC KDB 789033 II.E.2.d) Method SA-2. The signal analyser's integration function was used to integrate across the 26 dB emission bandwidth. The resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. An RMS detector was used and sweep time was set to auto and 500 traces performed. The span was set to encompass the entire 26 dB emission bandwidth. The channel power results are recorded in the tables below.
2. The calculated duty cycle in Section 4.1 was added to the measured power in order to compute the average power during the actual transmission time.
3. The Part 15.407(a)(1)(iv) limit shall not exceed 250 mW (24.0 dBm).
4. For Beamforming modes, conducted power was measured on both ports and then combined using the measure-and-sum method stated in FCC KDB 662911 D01 Section E)1).
5. For details on antenna gains refer to Section 3.4 of this test report.
6. For SISO modes of operation, the antenna gain is < 6 dBi.
7. For Beamforming modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 7.5 dBi. In accordance with Part 15.407(a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 24.0 dBm has been reduced by 1.5 dB to 22.5 dBm.
8. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

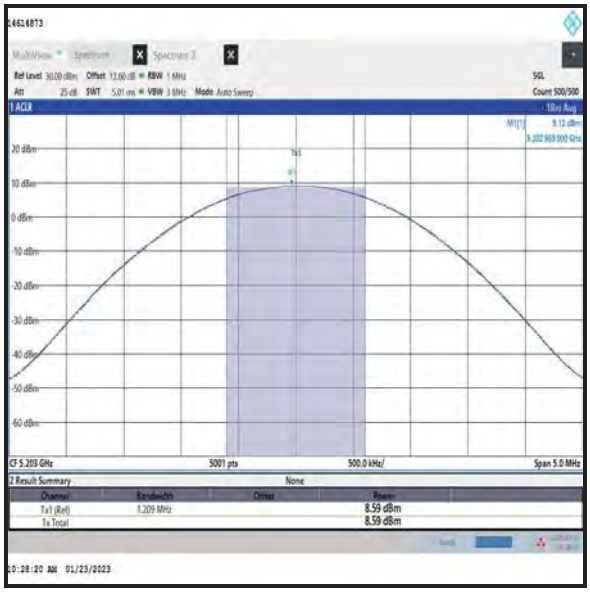
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: DH5 / SISO / Core 0 / iPA

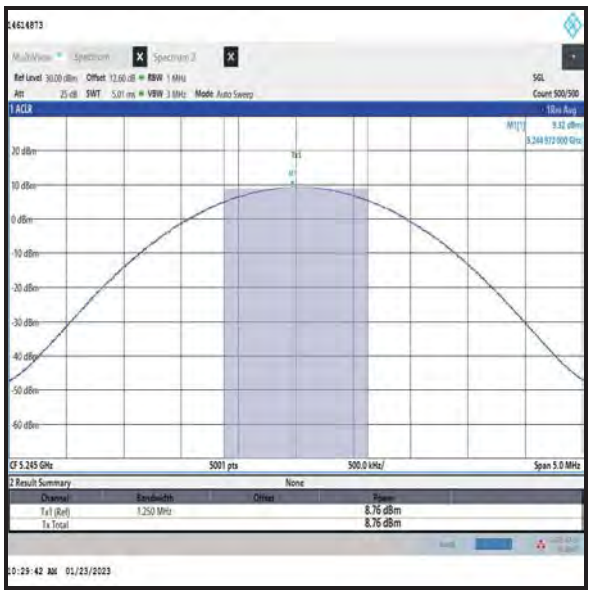
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	8.5	1.1	9.6	24.0	14.4	Complied
Middle	5203	8.6	1.1	9.7	24.0	14.3	Complied
Top	5245	8.8	1.1	9.9	24.0	14.1	Complied



Bottom Channel



Middle Channel

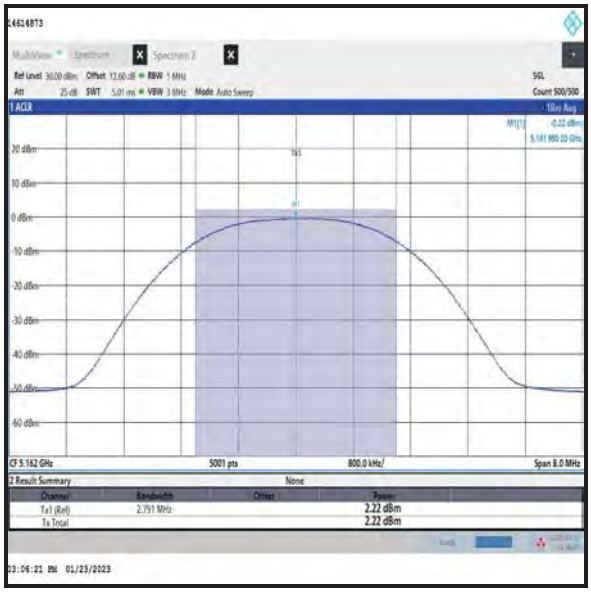


Top Channel

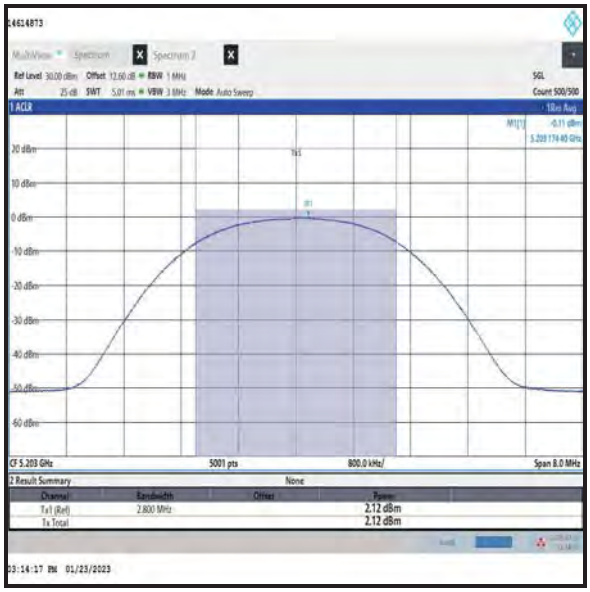
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / iPA

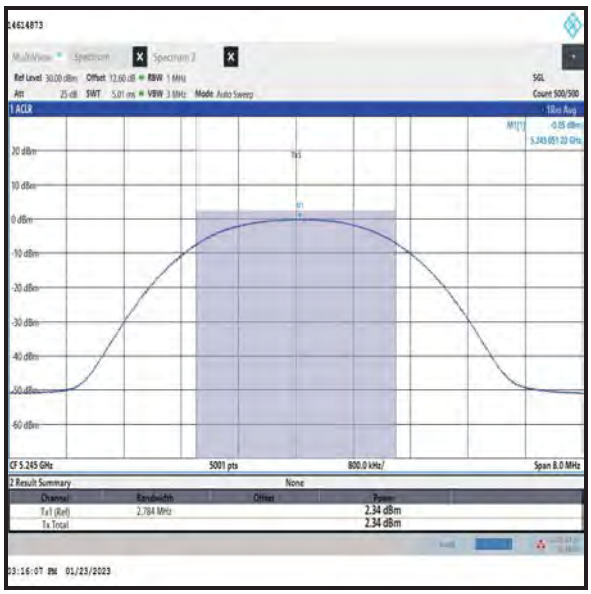
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	2.2	1.1	3.3	24.0	20.7	Complied
Middle	5203	2.1	1.1	3.2	24.0	20.8	Complied
Top	5245	2.3	1.1	3.4	24.0	20.6	Complied



Bottom Channel



Middle Channel

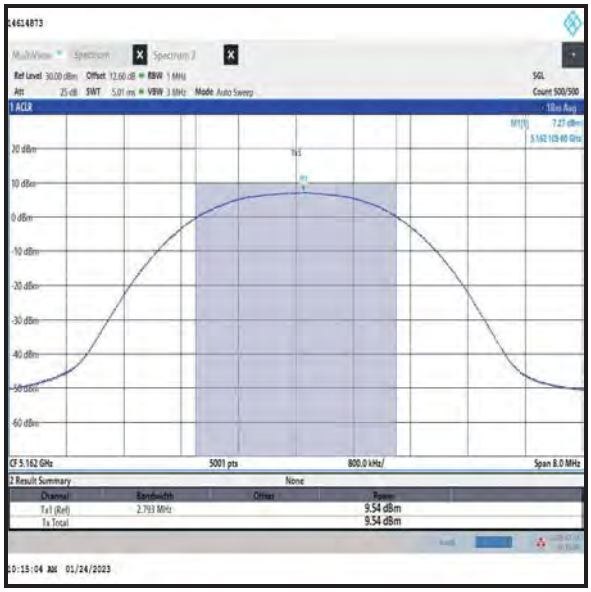


Top Channel

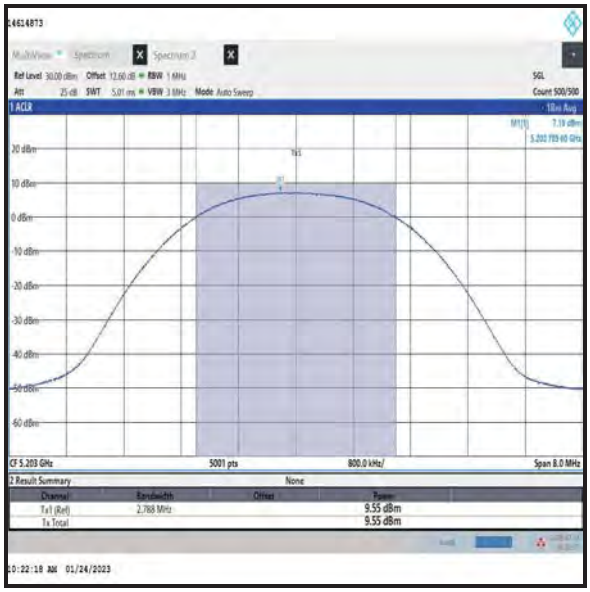
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / ePA

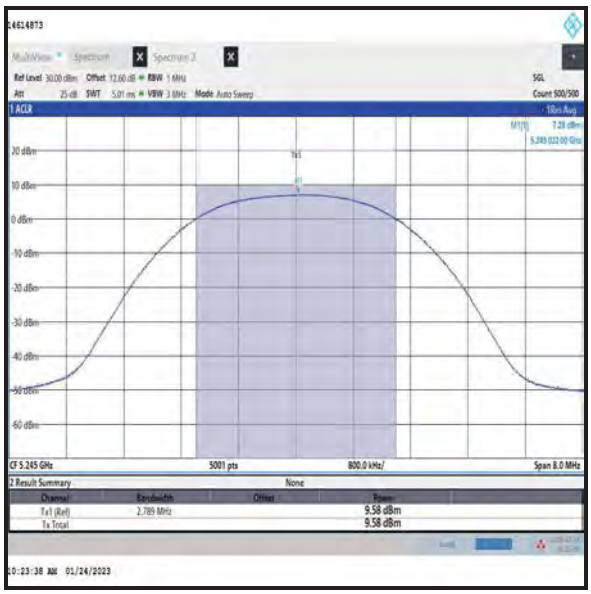
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	9.5	1.1	10.6	24.0	13.4	Complied
Middle	5203	9.6	1.1	10.7	24.0	13.3	Complied
Top	5245	9.6	1.1	10.7	24.0	13.3	Complied



Bottom Channel



Middle Channel

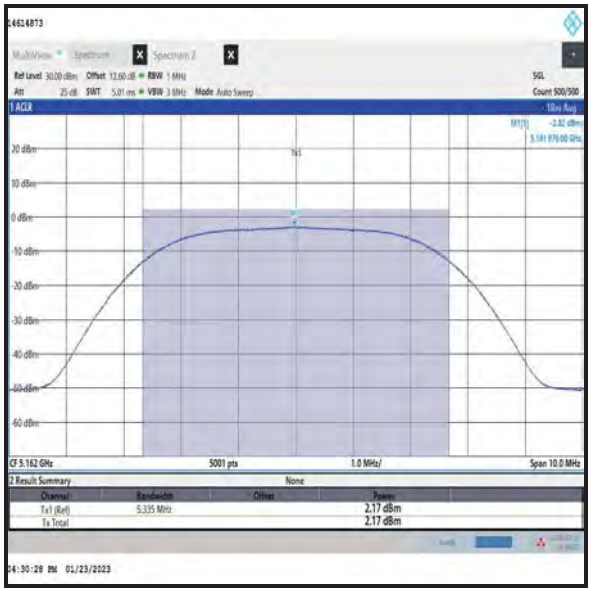


Top Channel

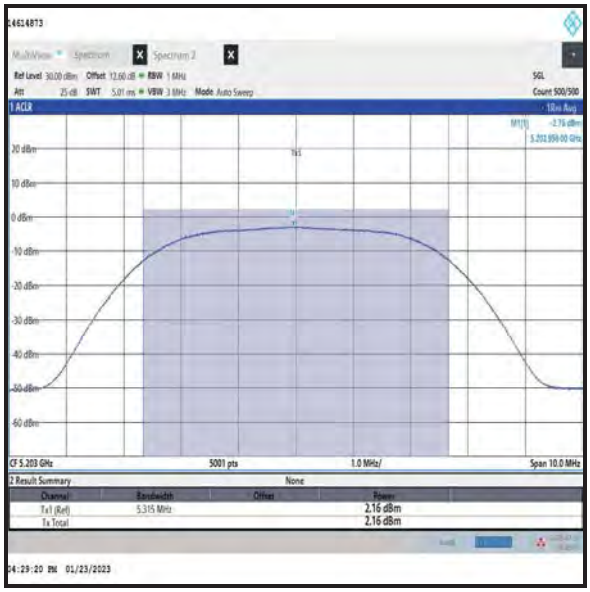
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / iPA

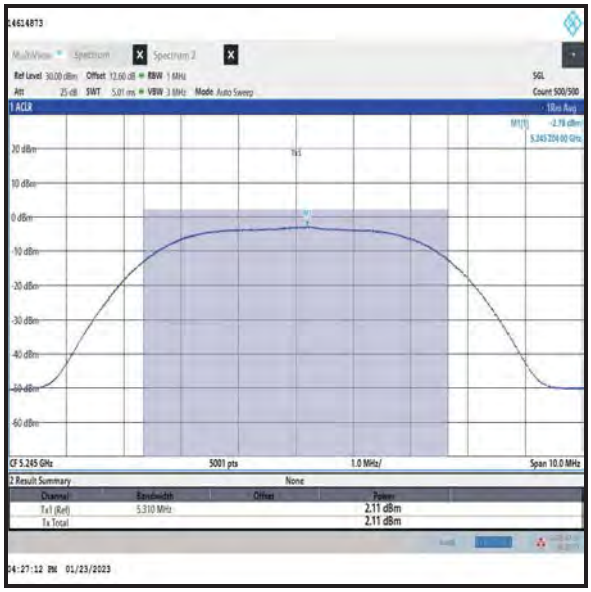
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	2.2	1.0	3.2	24.0	20.8	Complied
Middle	5203	2.2	1.0	3.2	24.0	20.8	Complied
Top	5245	2.1	1.0	3.1	24.0	20.9	Complied



Bottom Channel



Middle Channel

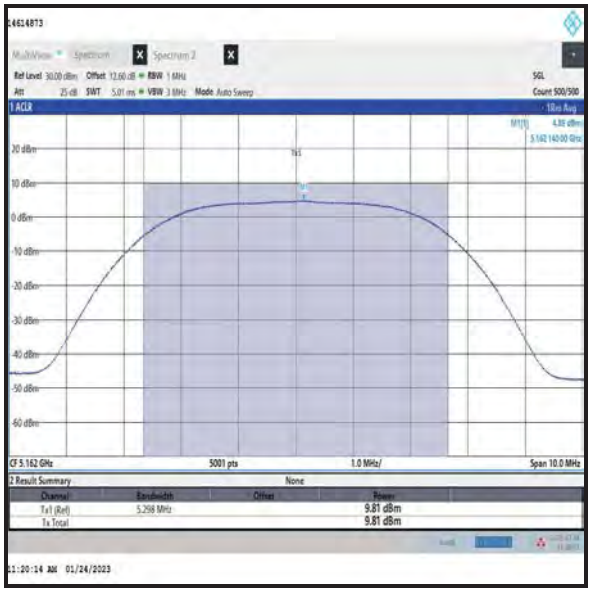


Top Channel

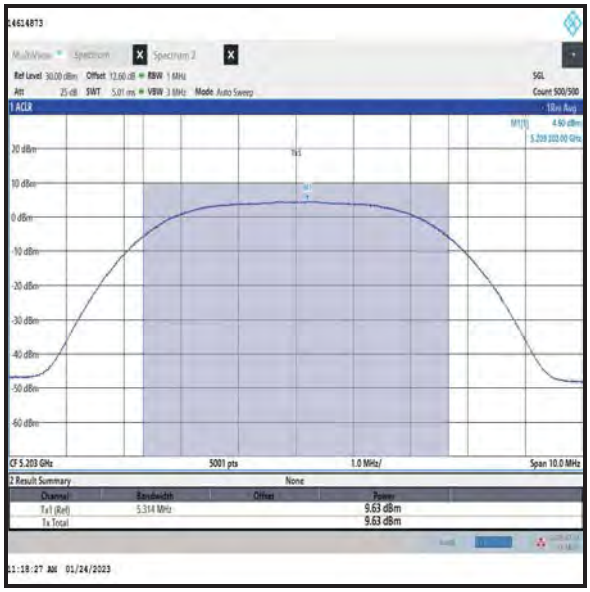
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / ePA

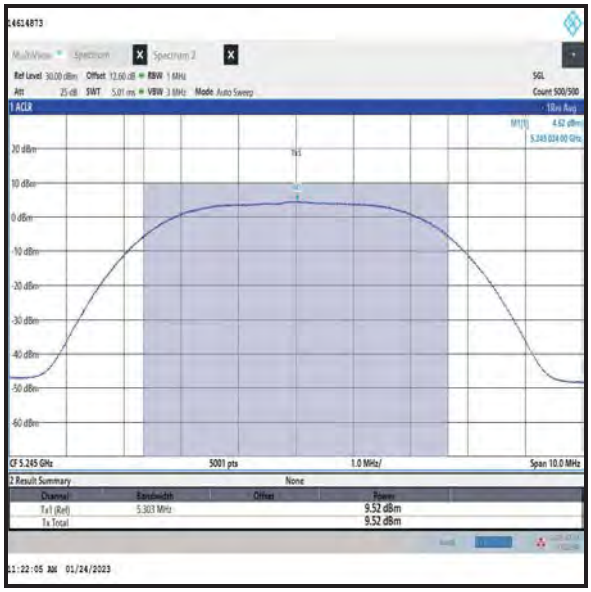
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	9.8	1.0	10.8	24.0	13.2	Complied
Middle	5203	9.6	1.0	10.6	24.0	13.4	Complied
Top	5245	9.5	1.0	10.5	24.0	13.5	Complied



Bottom Channel



Middle Channel

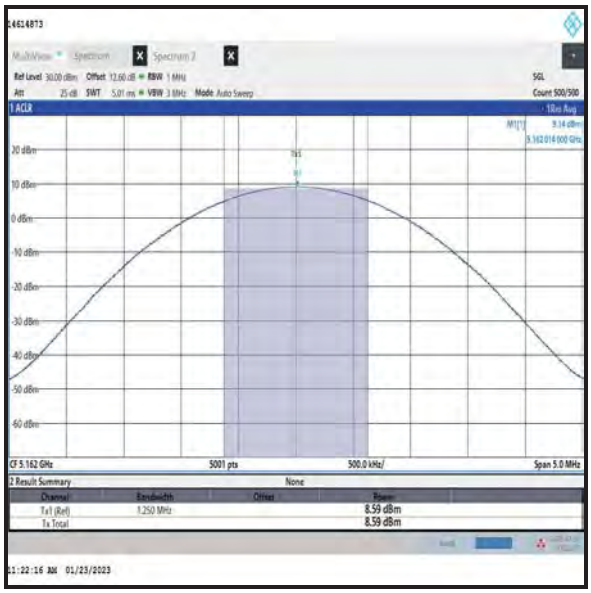


Top Channel

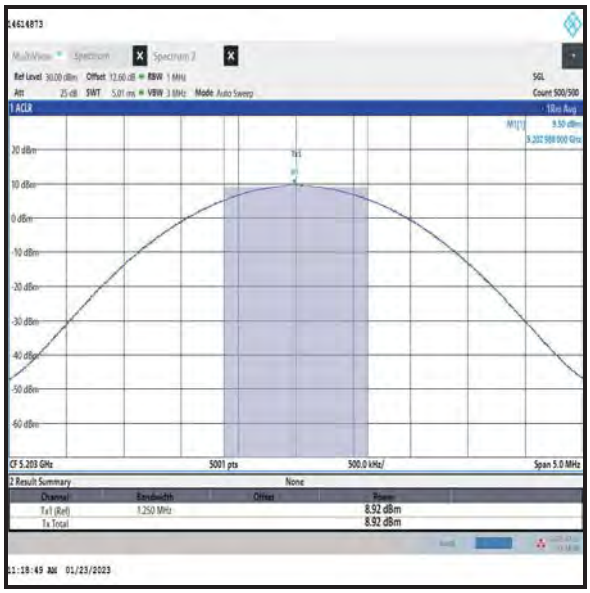
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

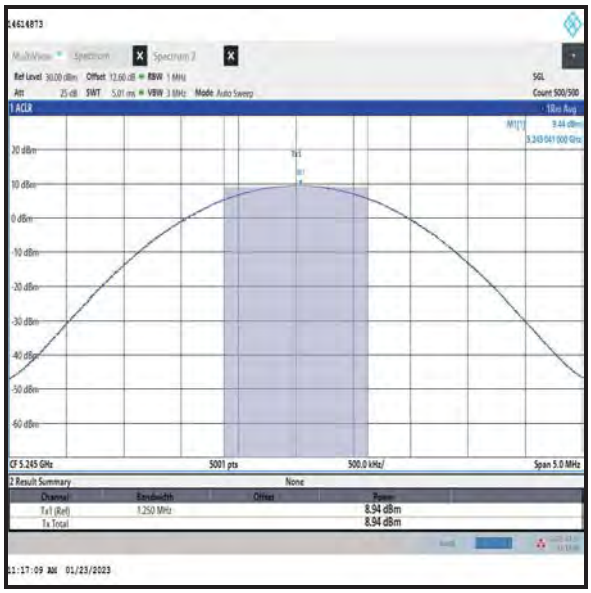
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	8.6	1.1	9.7	24.0	14.3	Complied
Middle	5203	8.9	1.1	10.0	24.0	14.0	Complied
Top	5245	8.9	1.1	10.0	24.0	14.0	Complied



Bottom Channel



Middle Channel

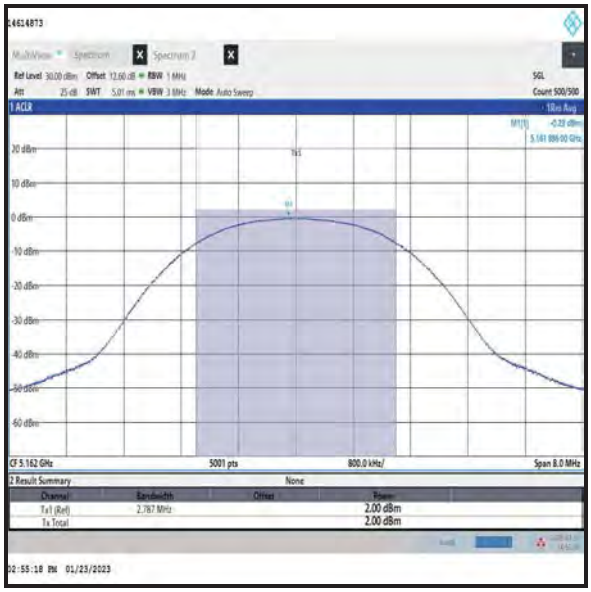


Top Channel

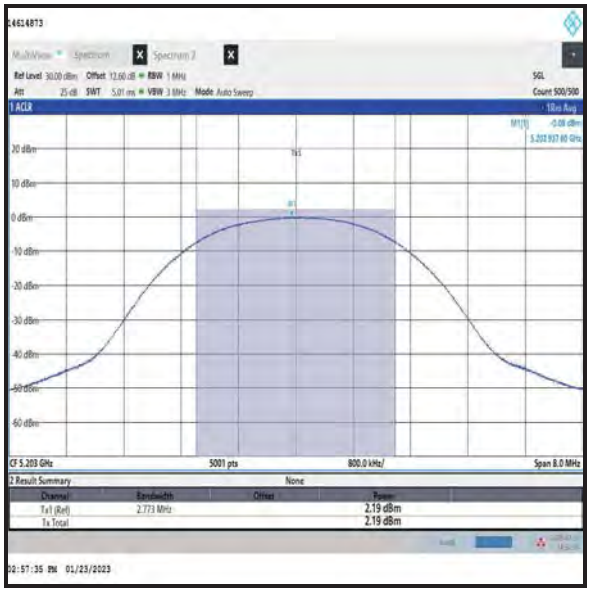
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / iPA

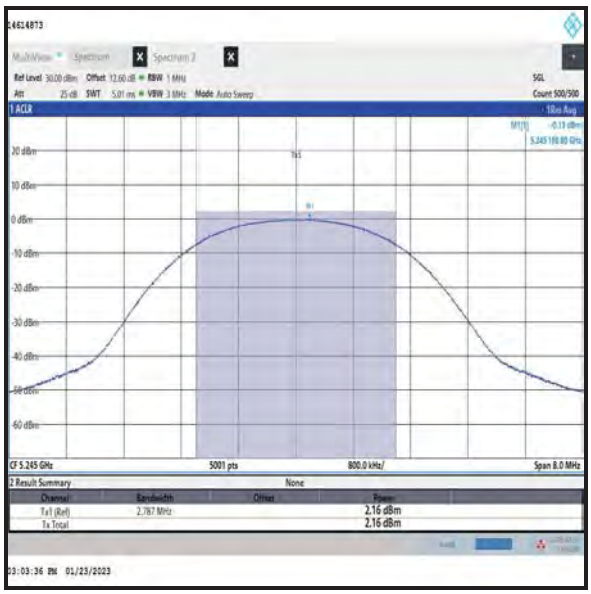
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	2.0	1.1	3.1	24.0	20.9	Complied
Middle	5203	2.2	1.1	3.3	24.0	20.7	Complied
Top	5245	2.2	1.1	3.3	24.0	20.7	Complied



Bottom Channel



Middle Channel

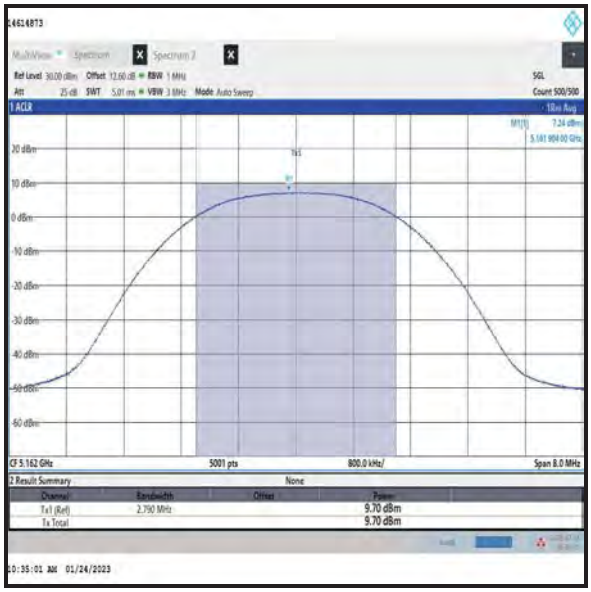


Top Channel

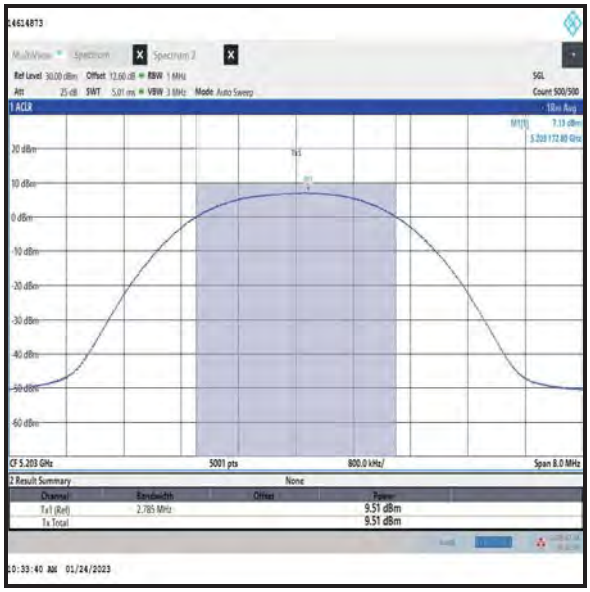
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / ePA

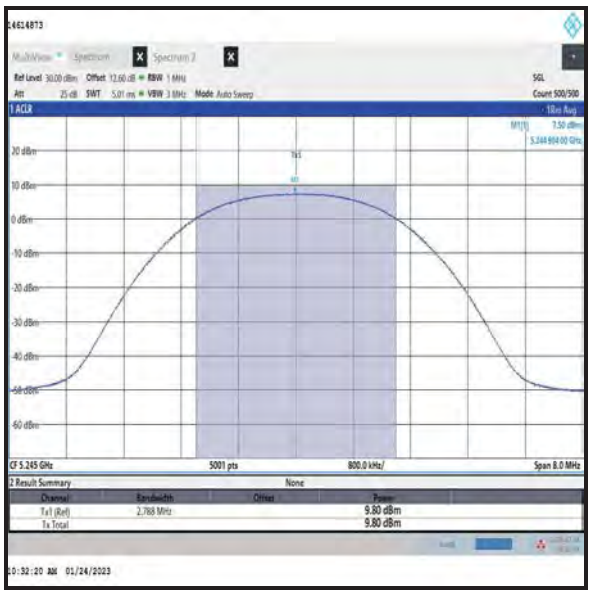
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	9.7	1.1	10.8	24.0	13.2	Complied
Middle	5203	9.5	1.1	10.6	24.0	13.4	Complied
Top	5245	9.8	1.1	10.9	24.0	13.1	Complied



Bottom Channel



Middle Channel

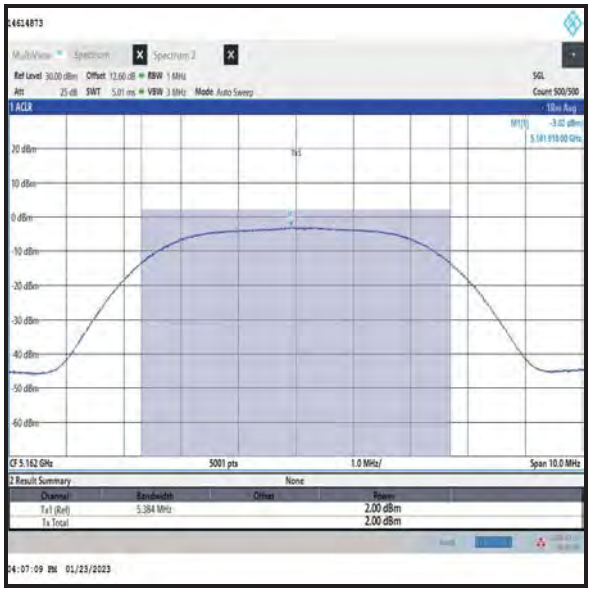


Top Channel

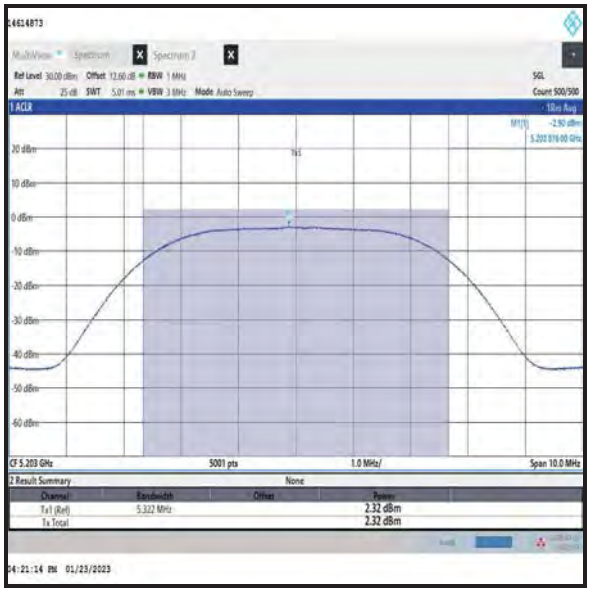
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / iPA

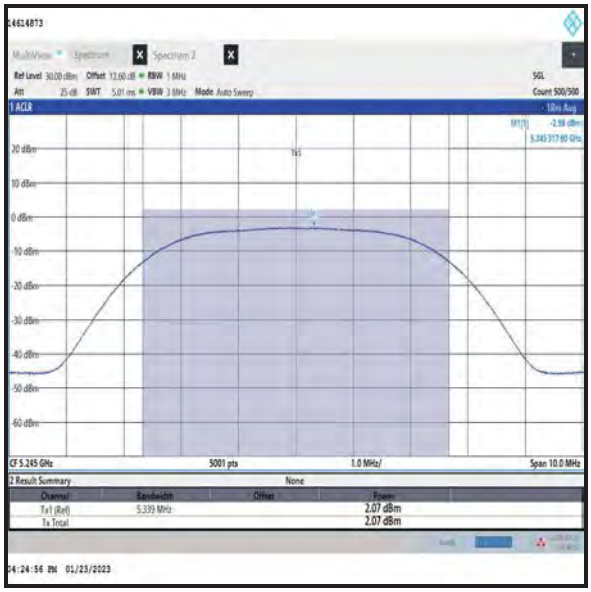
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	2.0	1.0	3.0	24.0	21.0	Complied
Middle	5203	2.3	1.0	3.3	24.0	20.7	Complied
Top	5245	2.1	1.0	3.1	24.0	20.9	Complied



Bottom Channel



Middle Channel

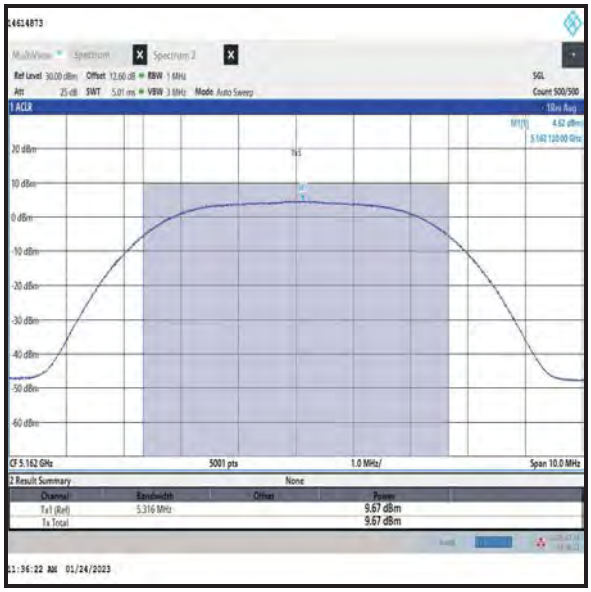


Top Channel

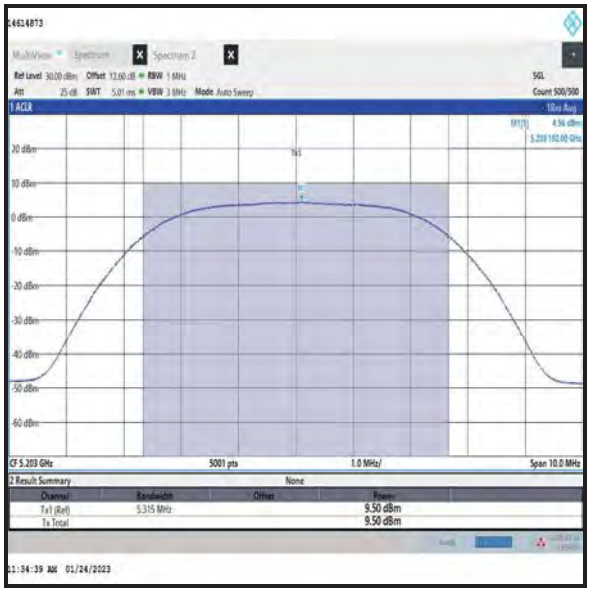
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / ePA

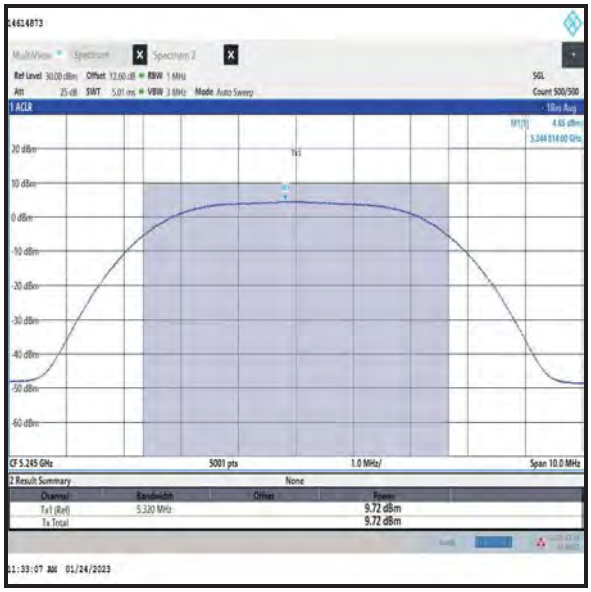
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	9.7	1.0	10.7	24.0	13.3	Complied
Middle	5203	9.5	1.0	10.5	24.0	13.5	Complied
Top	5245	9.7	1.0	10.7	24.0	13.3	Complied



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

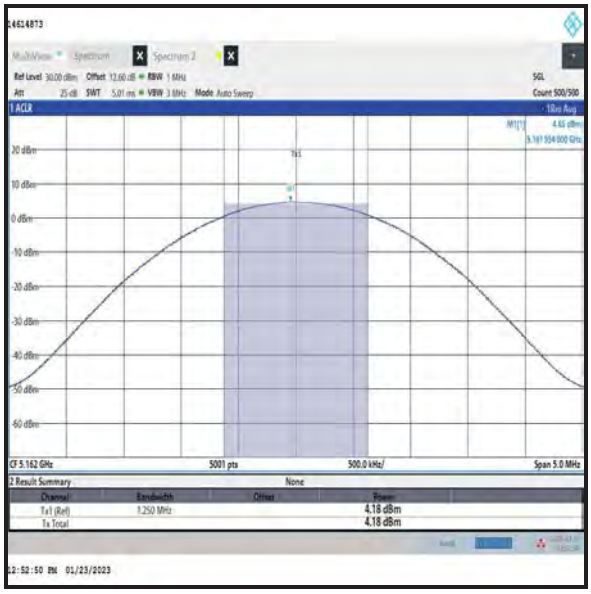
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5162	4.2	1.1	5.3	4.3	1.1	5.4
Middle	5203	4.2	1.1	5.3	4.2	1.1	5.3
Top	5245	4.4	1.1	5.5	4.3	1.1	5.4

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	5.3	5.4	8.4	22.5	14.1	Complied
Middle	5203	5.3	5.3	8.3	22.5	14.2	Complied
Top	5245	5.5	5.4	8.5	22.5	14.0	Complied

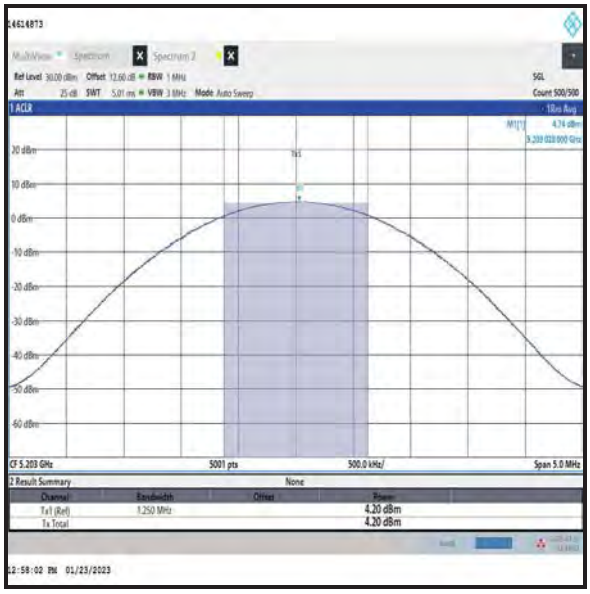
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

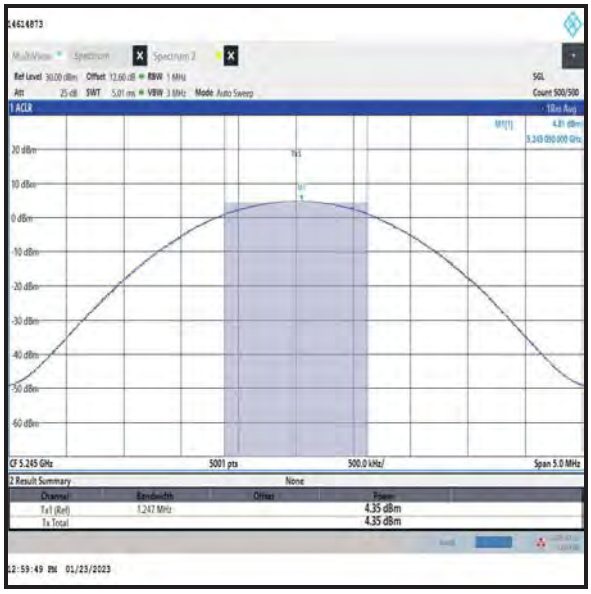
Results: Core 0



Bottom Channel



Middle Channel

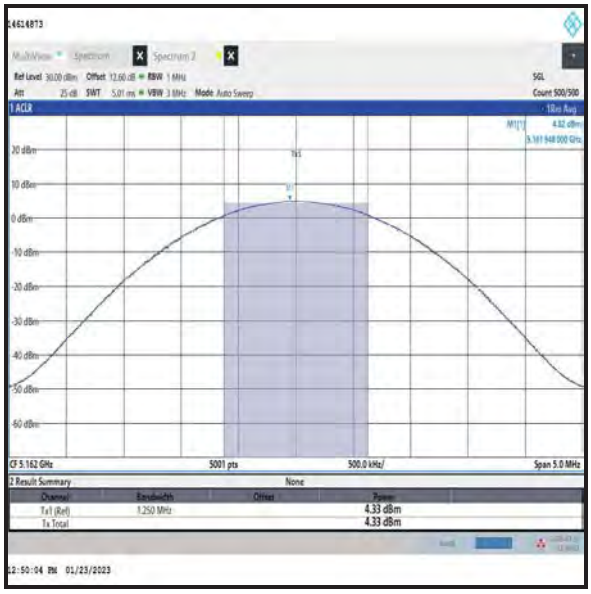


Top Channel

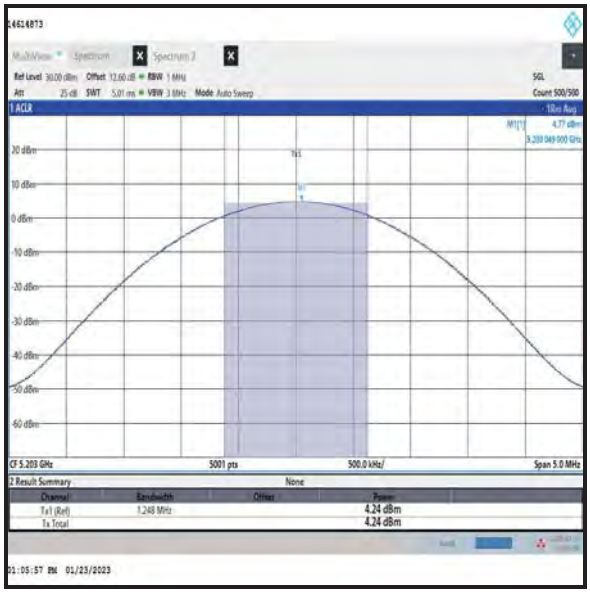
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

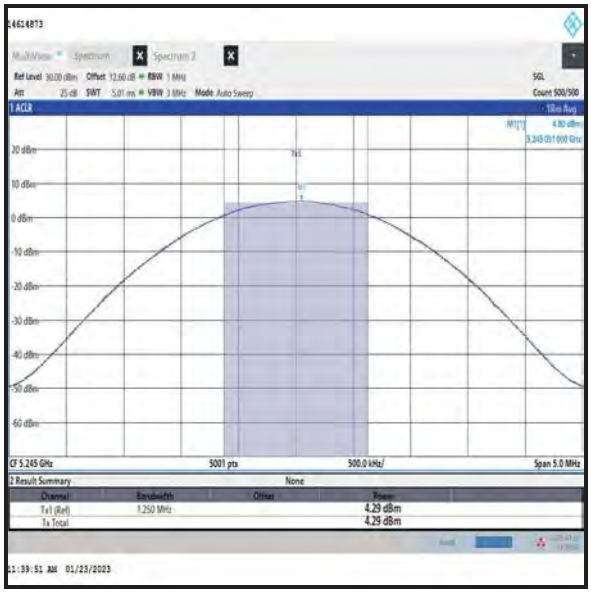
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

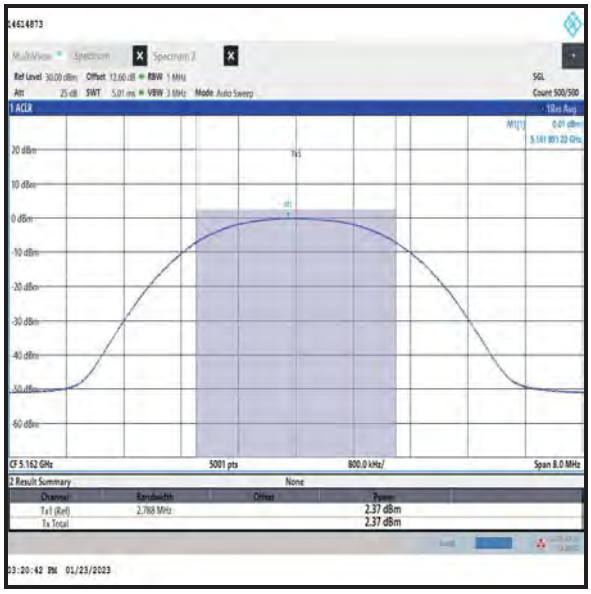
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5162	2.4	1.1	3.5	2.1	1.1	3.2
Middle	5203	2.0	1.1	3.1	2.1	1.1	3.2
Top	5245	2.3	1.1	3.4	2.1	1.1	3.2

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	3.5	3.2	6.4	22.5	16.1	Complied
Middle	5203	3.1	3.2	6.1	22.5	16.4	Complied
Top	5245	3.4	3.2	6.3	22.5	16.2	Complied

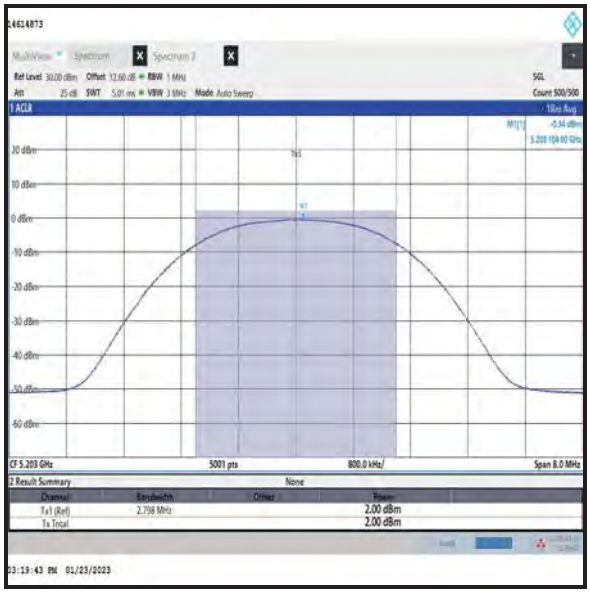
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

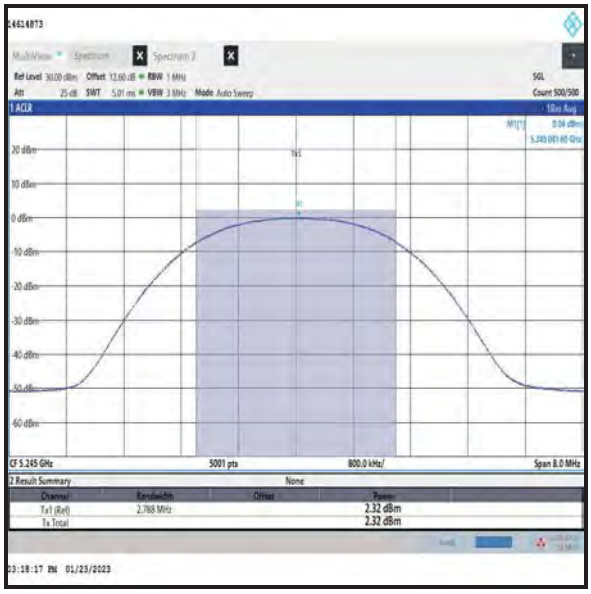
Results: Core 0



Bottom Channel



Middle Channel

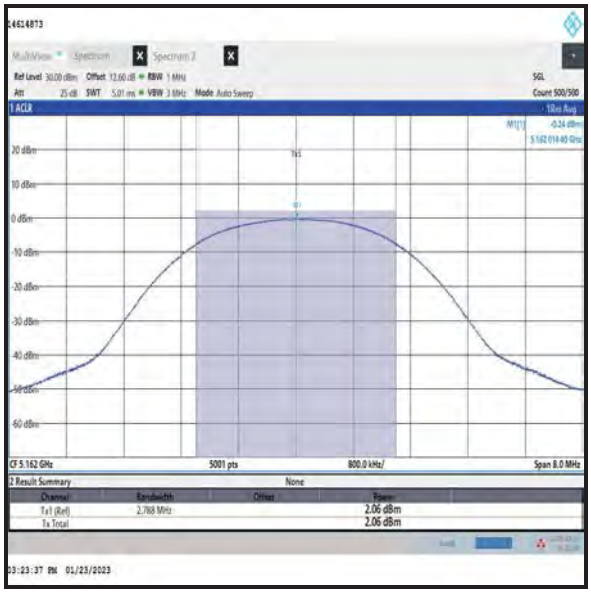


Top Channel

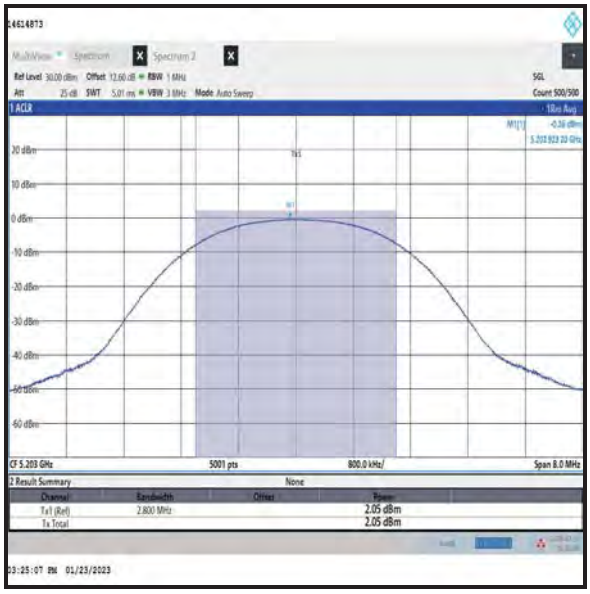
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

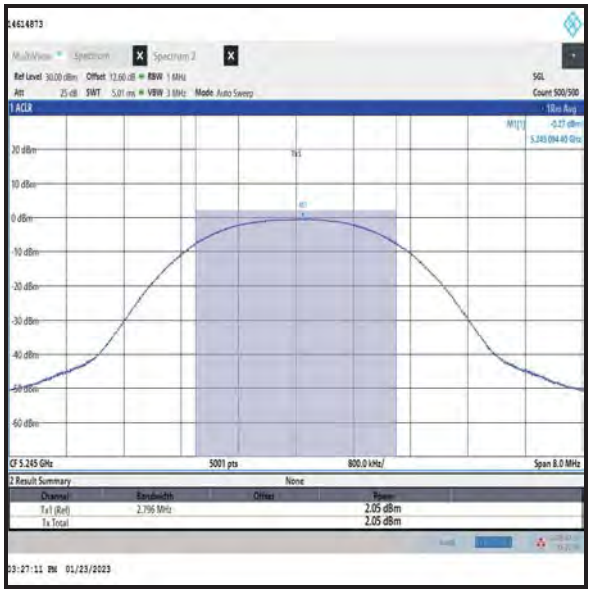
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

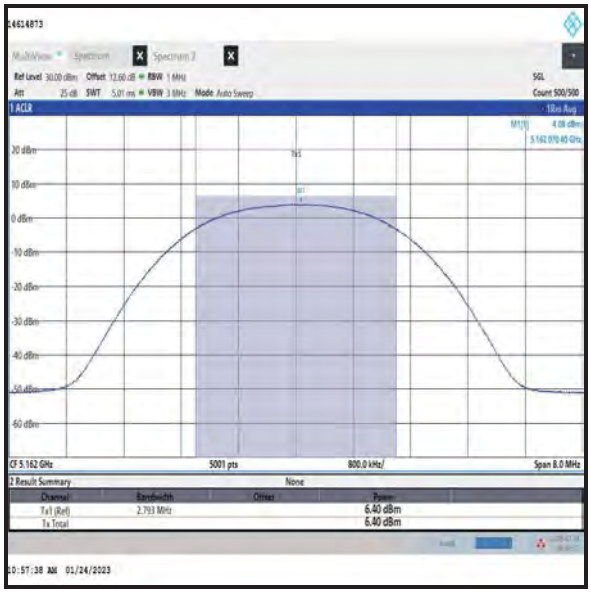
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5162	6.4	1.1	7.5	6.1	1.1	7.2
Middle	5203	6.0	1.1	7.1	6.4	1.1	7.5
Top	5245	6.2	1.1	7.3	6.3	1.1	7.4

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	7.5	7.2	10.4	22.5	12.1	Complied
Middle	5203	7.1	7.5	10.3	22.5	12.2	Complied
Top	5245	7.3	7.4	10.4	22.5	12.1	Complied

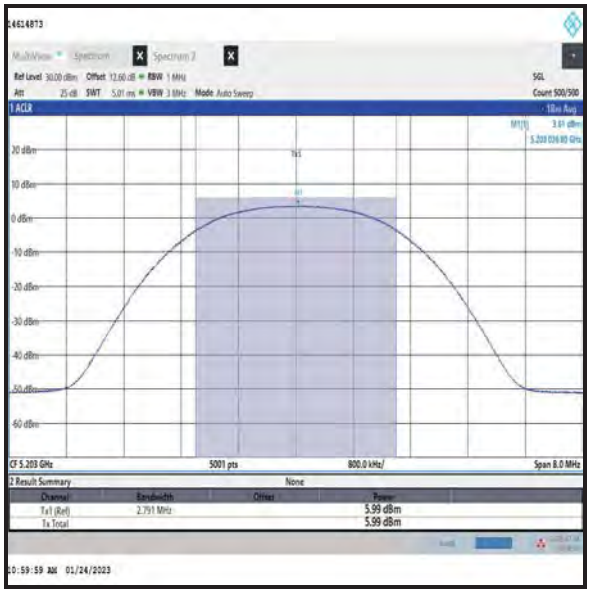
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

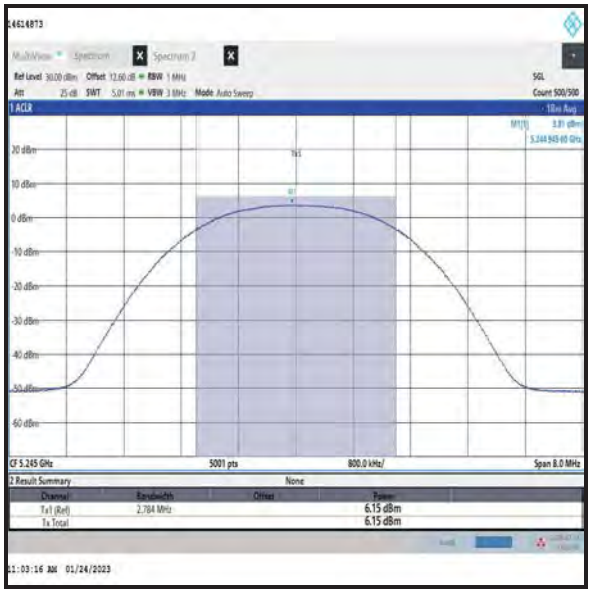
Results: Core 0



Bottom Channel



Middle Channel

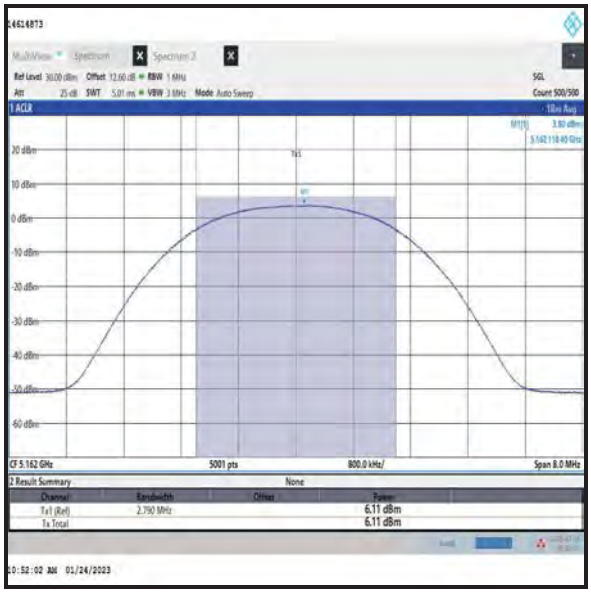


Top Channel

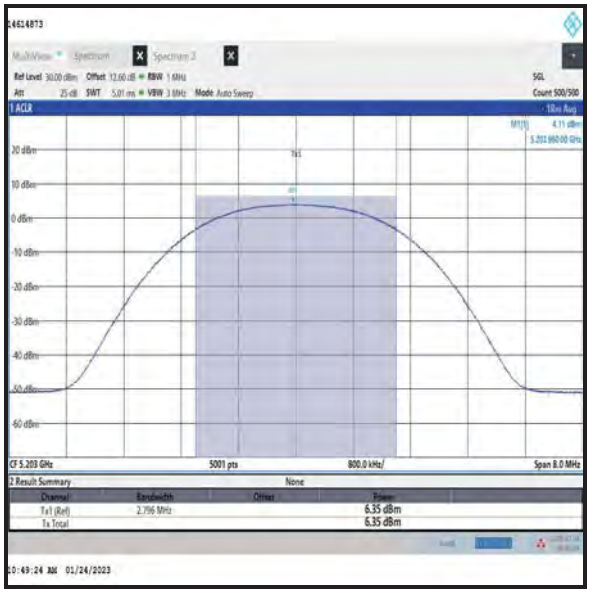
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

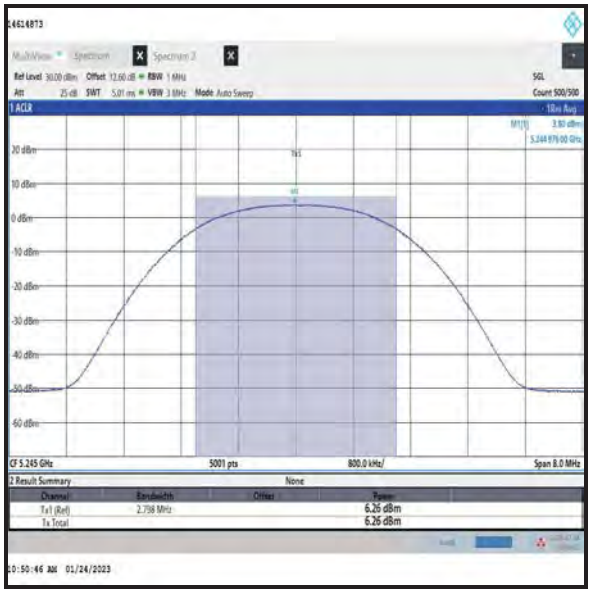
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

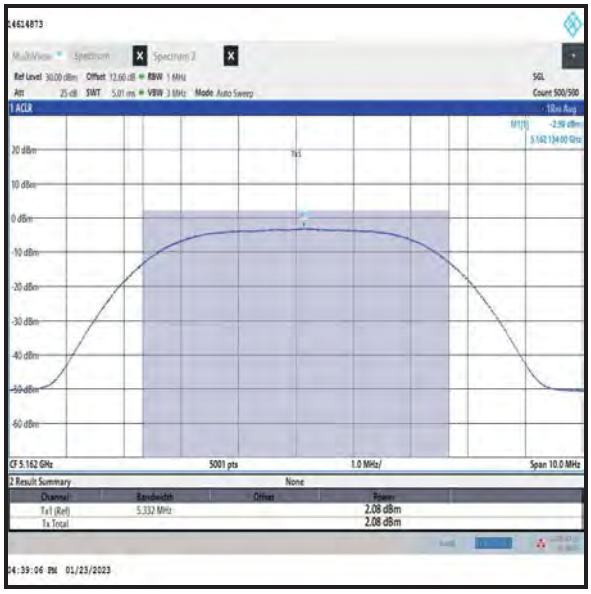
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5162	2.1	1.0	3.1	2.0	1.0	3.0
Middle	5203	2.3	1.0	3.3	2.3	1.0	3.3
Top	5245	2.1	1.0	3.1	2.0	1.0	3.0

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	3.1	3.0	6.1	22.5	16.4	Complied
Middle	5203	3.3	3.3	6.3	22.5	16.2	Complied
Top	5245	3.1	3.0	6.1	22.5	16.4	Complied

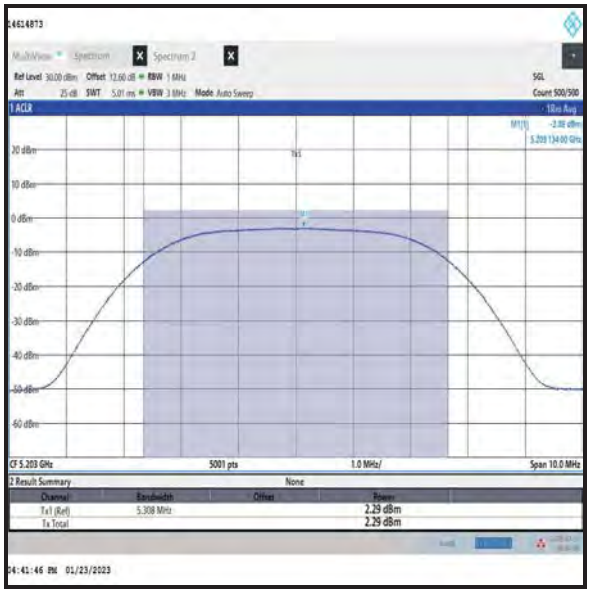
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

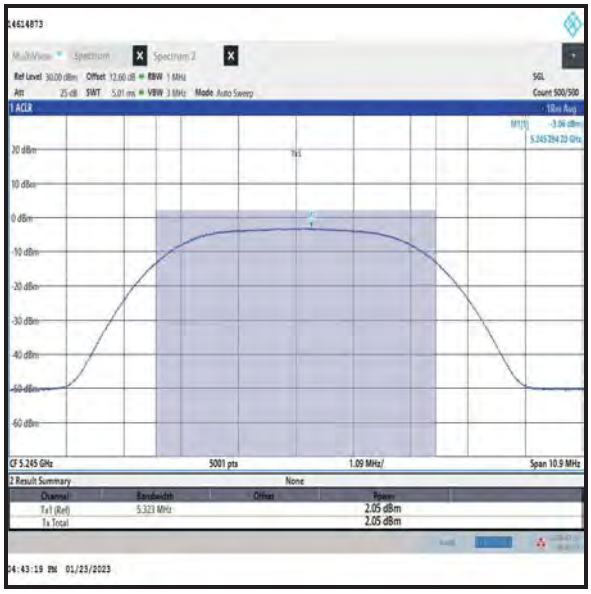
Results: Core 0



Bottom Channel



Middle Channel

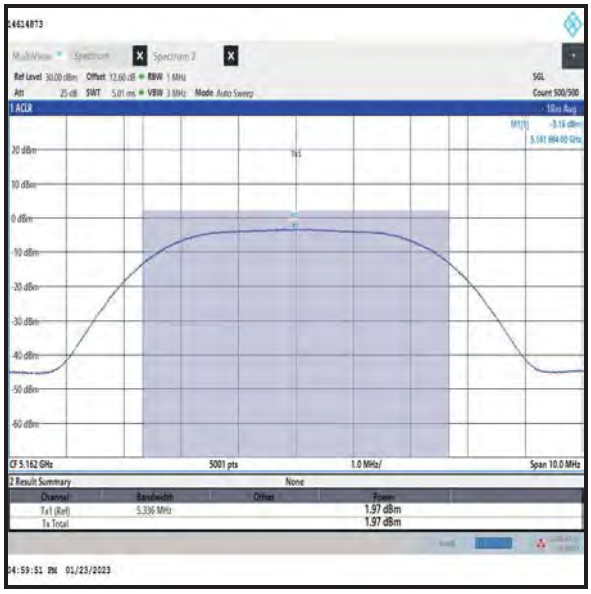


Top Channel

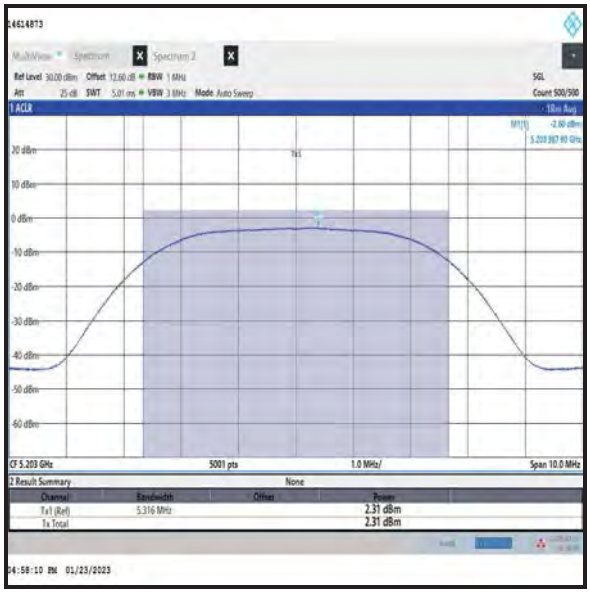
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

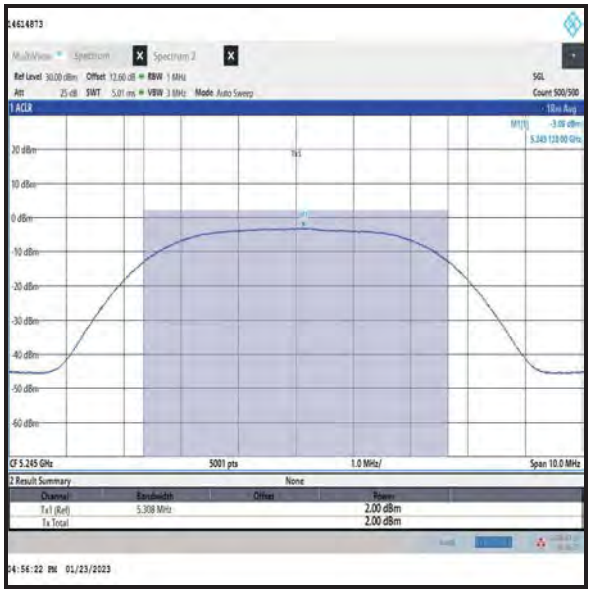
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

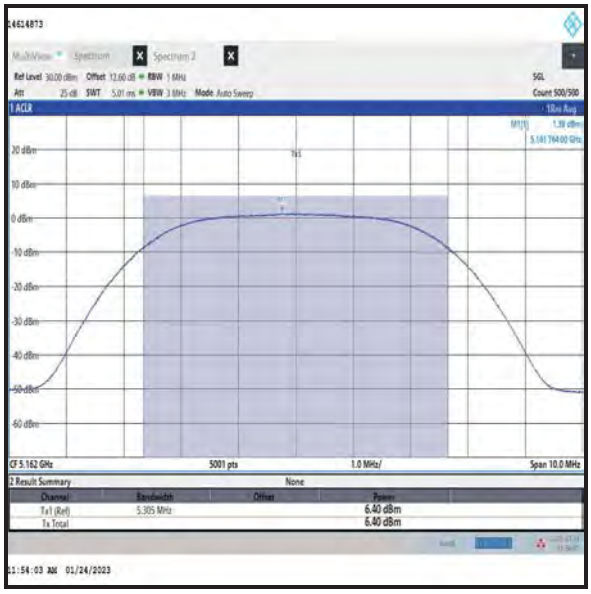
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5162	6.4	1.0	7.4	6.2	1.0	7.2
Middle	5203	6.0	1.0	7.0	6.1	1.0	7.1
Top	5245	6.1	1.0	7.1	6.3	1.0	7.3

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5162	7.4	7.2	10.3	22.5	12.2	Complied
Middle	5203	7.0	7.1	10.1	22.5	12.4	Complied
Top	5245	7.1	7.3	10.2	22.5	12.3	Complied

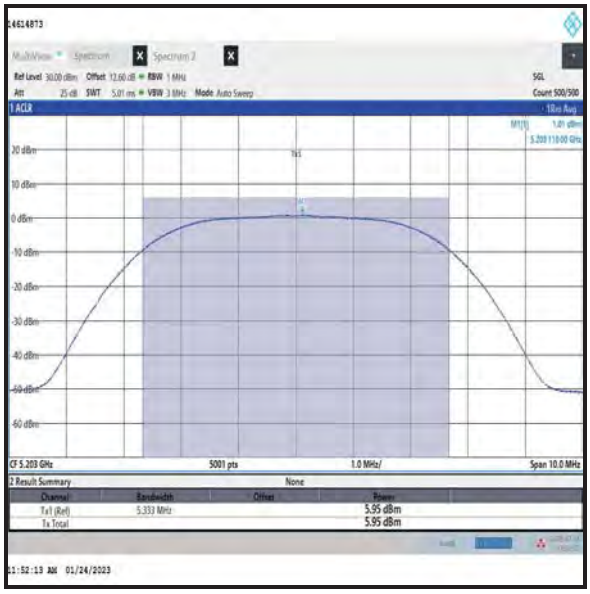
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

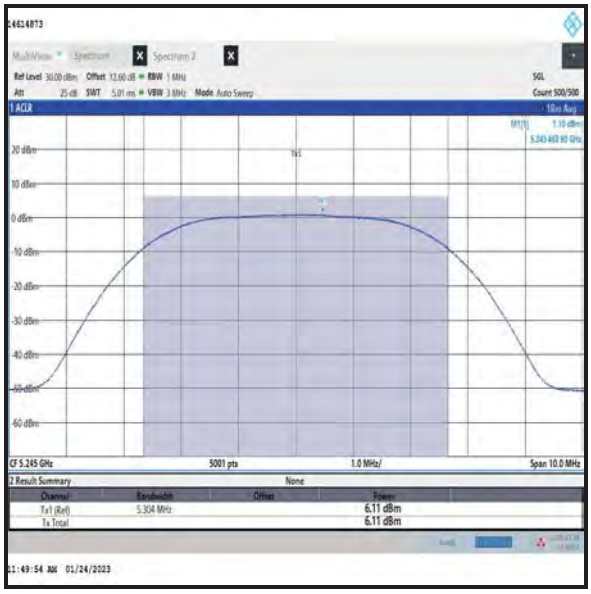
Results: Core 0



Bottom Channel



Middle Channel

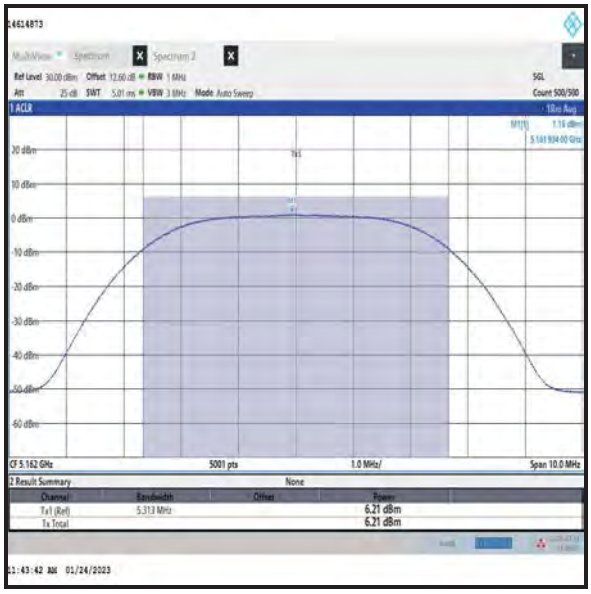


Top Channel

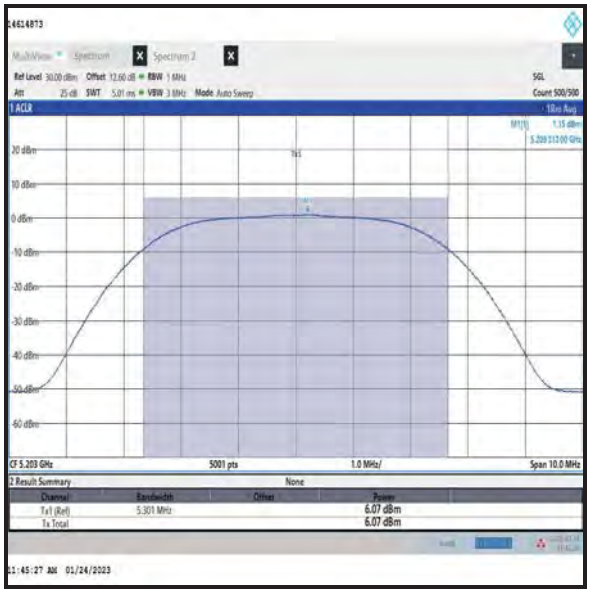
Transmitter Maximum Conducted Output Power (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

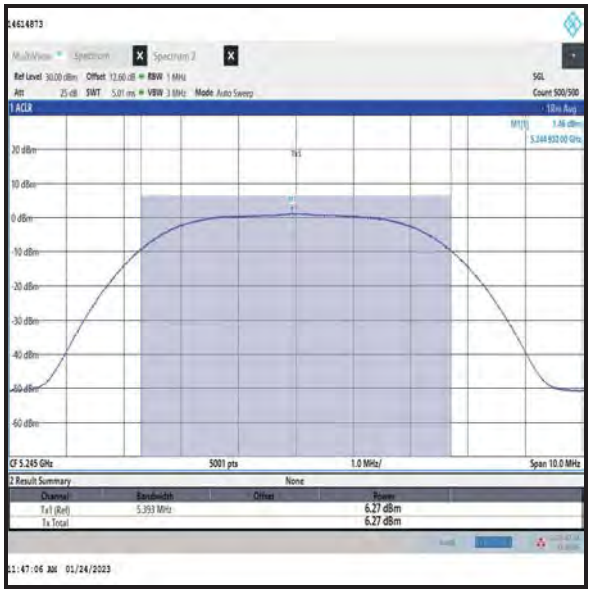
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band)

4.4.2 5.725-5.85 GHz band

Test Summary:

Test Engineers:	Jose Bayona & Luis Pazos Perez	**Test Dates:**	16 January 2023 to 08 February 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.407(a)(3)(i)
Test Method Used:	KDB 789033 D02 Section II.E.2.d)

Environmental Conditions:

Temperature (°C):	20 to 23
Relative Humidity (%):	30 to 32

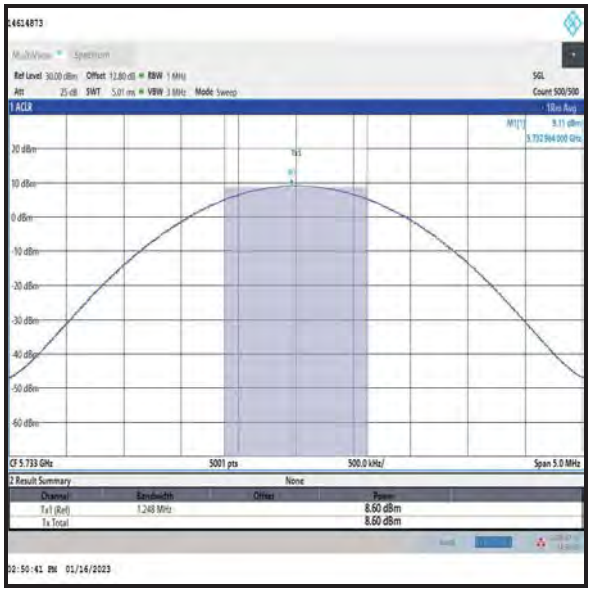
Note(s):

1. Measurements were performed in accordance with FCC KDB 789033 II.E.2.d) Method SA-2. The signal analyser's integration function was used to integrate across the 26 dB emission bandwidth. The resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. An RMS detector was used and sweep time was set to auto and 500 traces performed. The span was set to encompass the entire 26 dB emission bandwidth. The channel power results are recorded in the tables below.
2. The calculated duty cycle in Section 4.1 was added to the measured power in order to compute the average power during the actual transmission time.
3. The FCC Part 15.407(a)(3)(i) limit shall not exceed 1 W (30.0 dBm).
4. For Beamforming modes, conducted power was measured on both ports and then combined using the measure-and-sum method stated in FCC KDB 662911 D01 Section E)1).
5. For details on antenna gains refer to Section 3.4 of this test report.
6. For SISO modes of operation, the antenna gain is < 6 dBi.
7. For Beamforming modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 8.7 dBi. In accordance with Part 15.407(a)(3), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm has been reduced by 2.7 dB to 27.3 dBm.
8. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

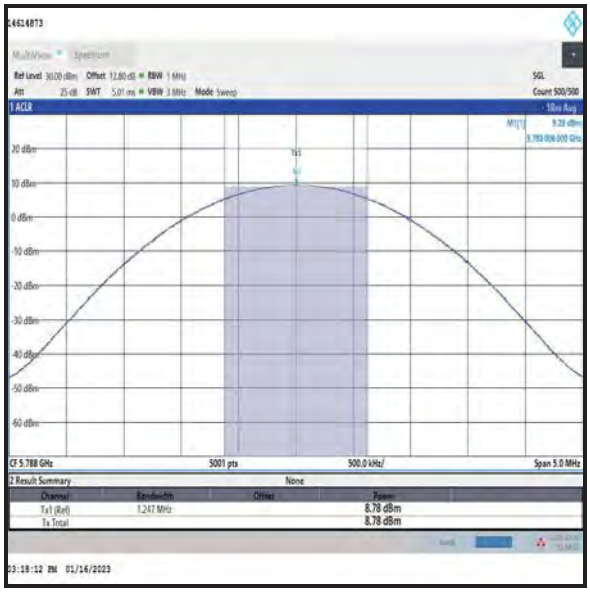
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 0 / iPA

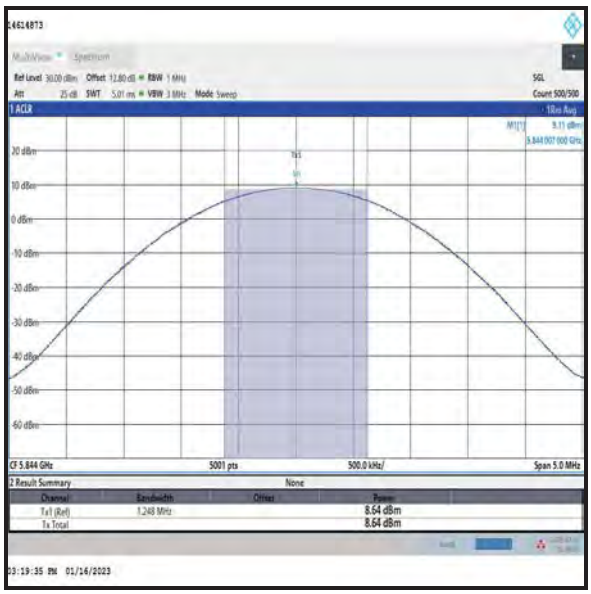
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	8.6	1.1	9.7	30.0	20.3	Complied
Middle	5788	8.8	1.1	9.9	30.0	20.1	Complied
Top	5844	8.6	1.1	9.7	30.0	20.3	Complied



Bottom Channel



Middle Channel

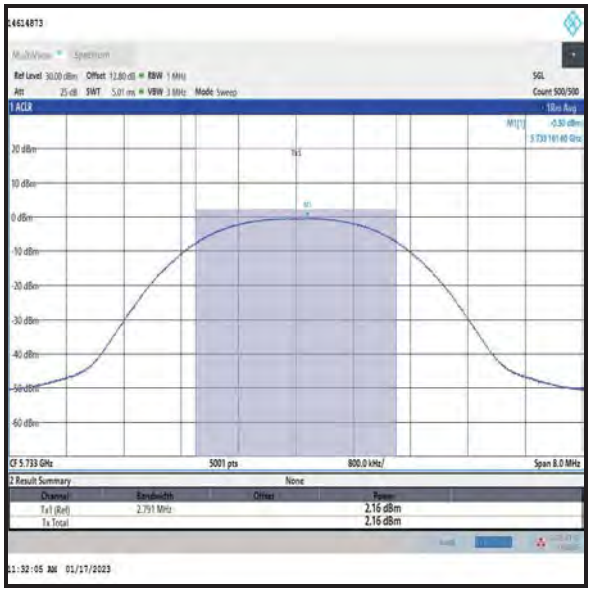


Top Channel

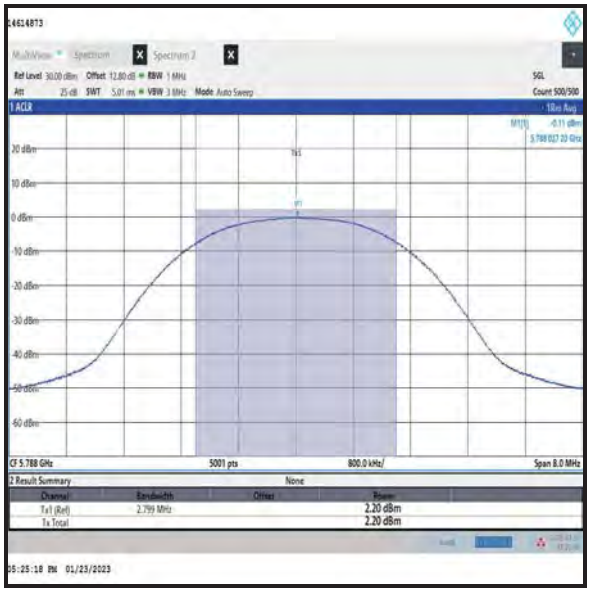
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / iPA

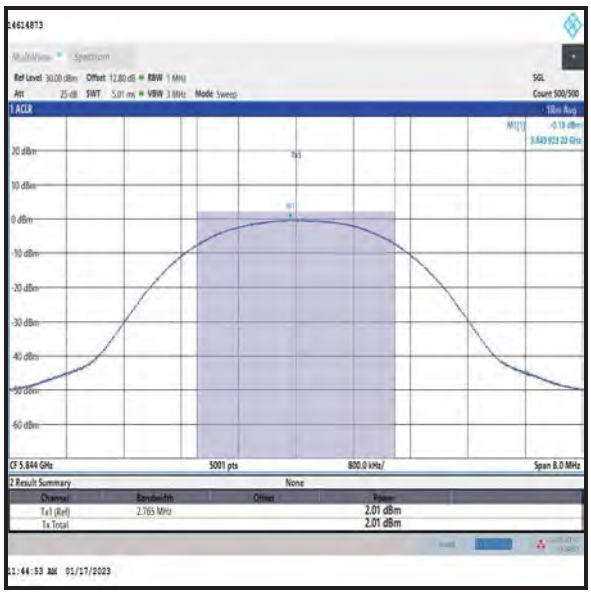
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	2.2	1.1	3.3	30.0	26.7	Complied
Middle	5788	2.2	1.1	3.3	30.0	26.7	Complied
Top	5844	2.0	1.1	3.1	30.0	26.9	Complied



Bottom Channel



Middle Channel

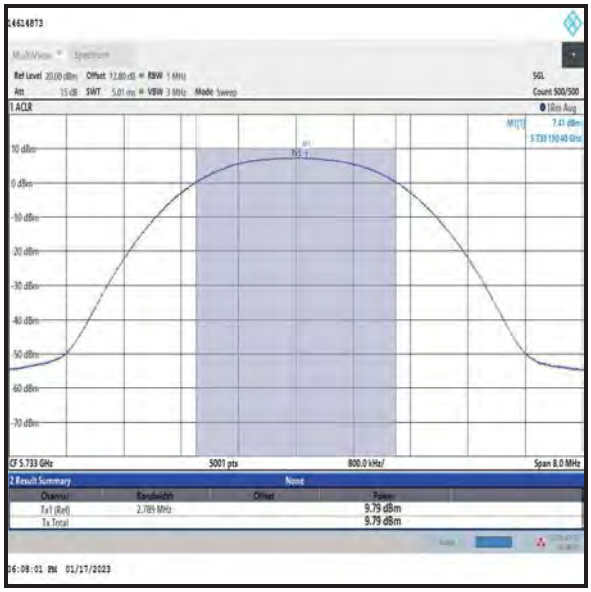


Top Channel

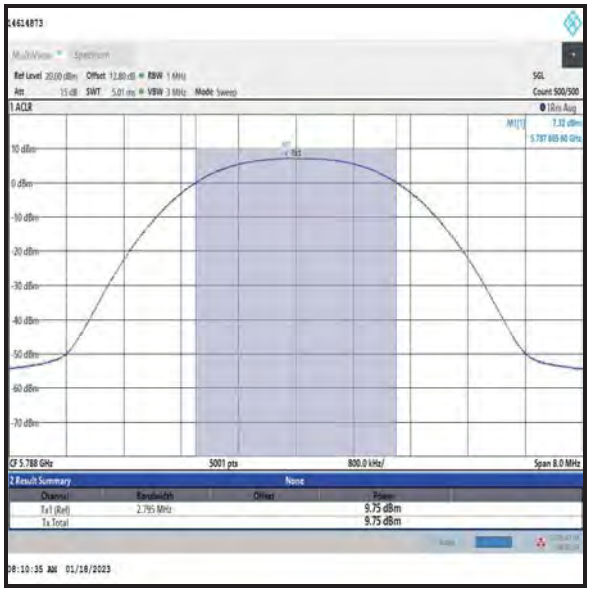
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 0 / ePA

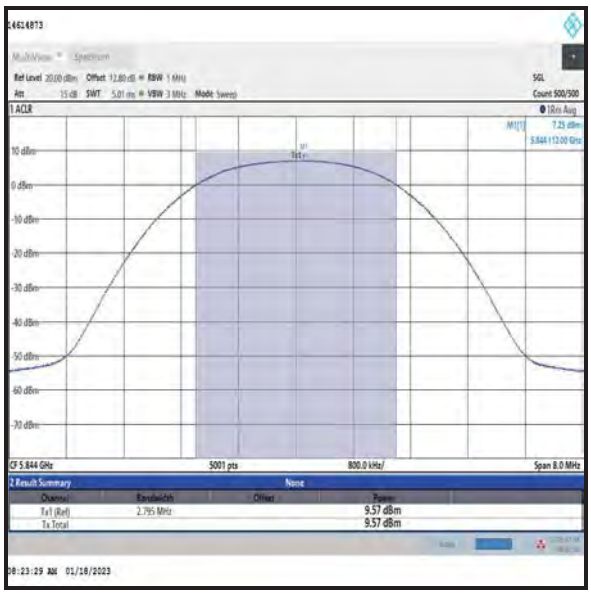
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	9.8	1.1	10.9	30.0	19.1	Complied
Middle	5788	9.8	1.1	10.9	30.0	19.1	Complied
Top	5844	9.6	1.1	10.7	30.0	19.3	Complied



Bottom Channel



Middle Channel

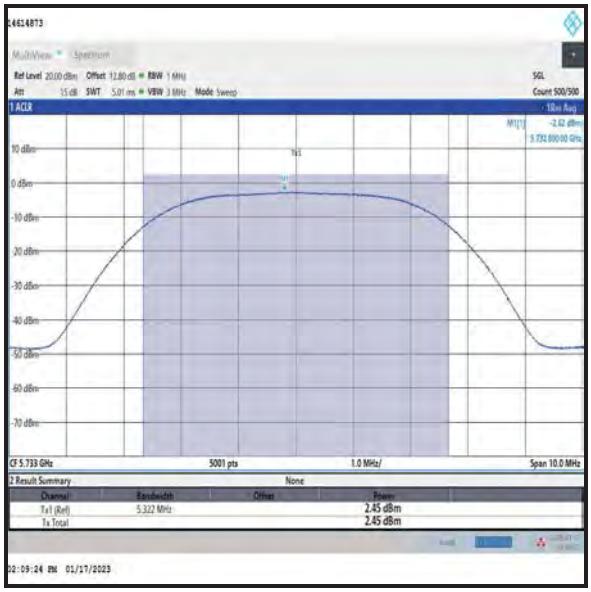


Top Channel

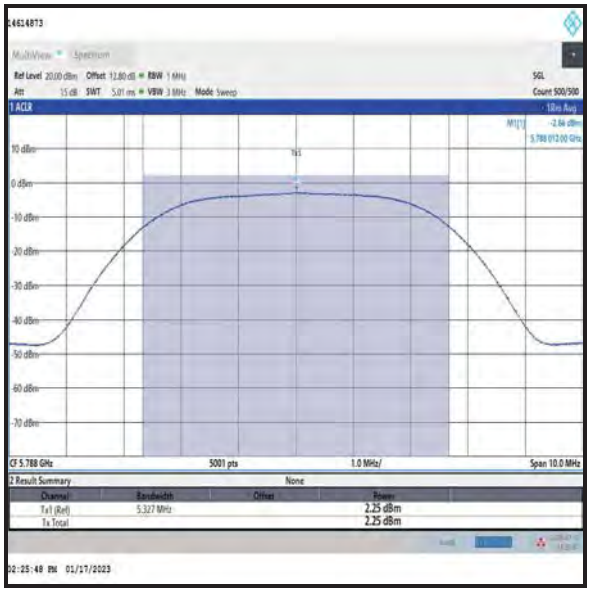
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / iPA

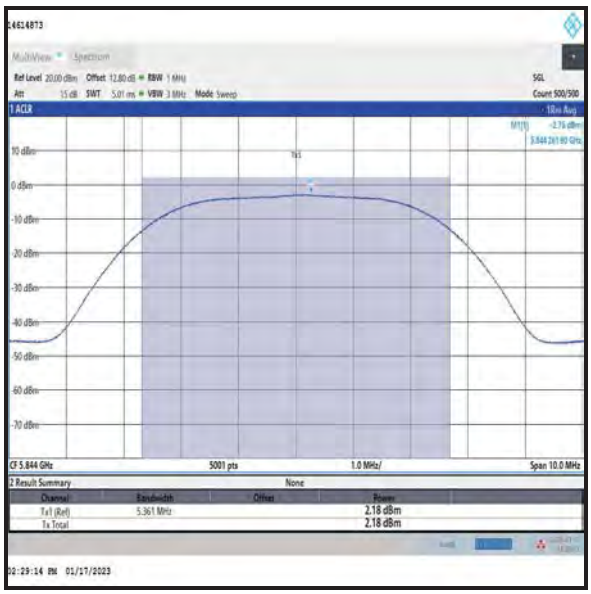
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	2.5	1.0	3.5	30.0	26.5	Complied
Middle	5788	2.3	1.0	3.3	30.0	26.7	Complied
Top	5844	2.2	1.0	3.2	30.0	26.8	Complied



Bottom Channel



Middle Channel

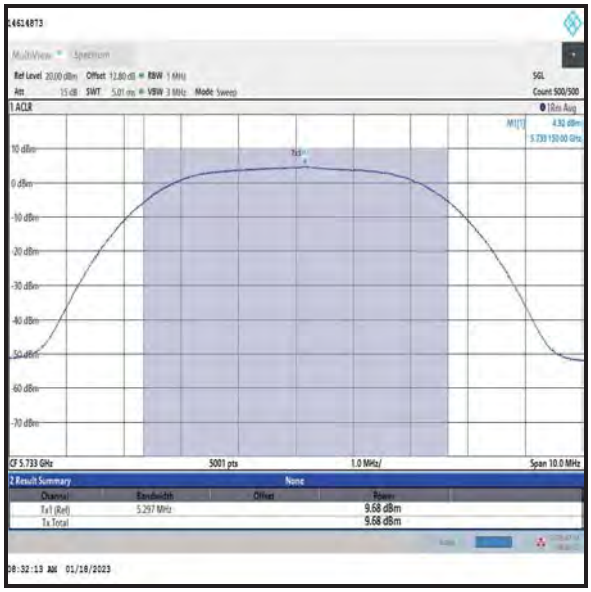


Top Channel

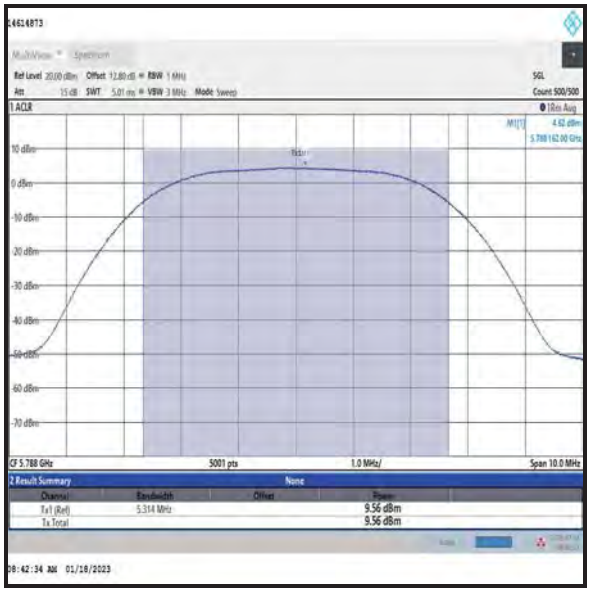
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 0 / ePA

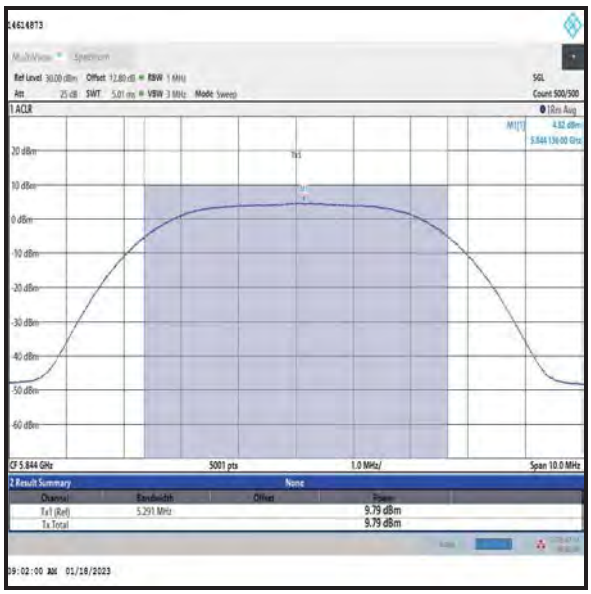
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	9.7	1.0	10.7	30.0	19.3	Complied
Middle	5788	9.6	1.0	10.6	30.0	19.4	Complied
Top	5844	9.8	1.0	10.8	30.0	19.2	Complied



Bottom Channel



Middle Channel

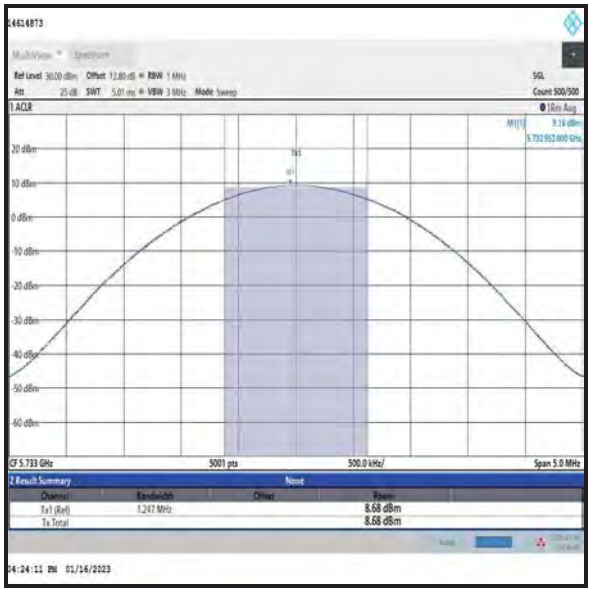


Top Channel

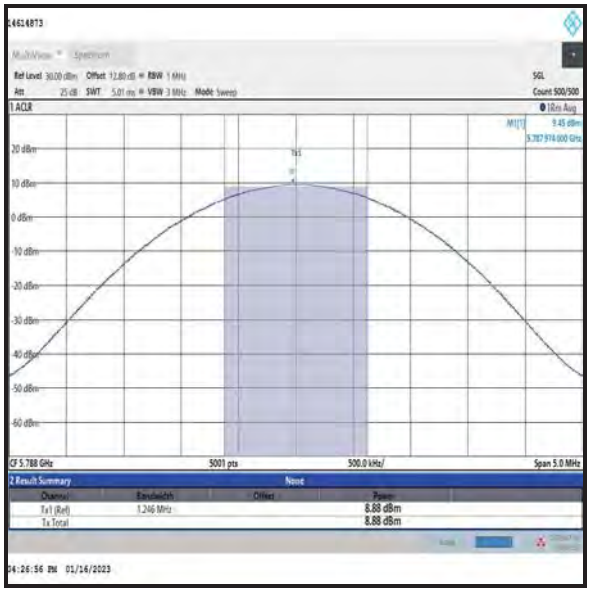
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

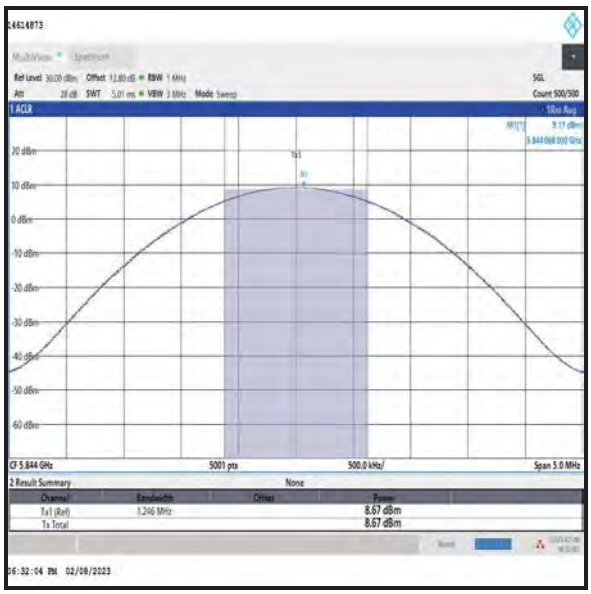
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	8.7	1.1	9.8	30.0	20.2	Complied
Middle	5788	8.9	1.1	10.0	30.0	20.0	Complied
Top	5844	8.7	1.1	9.8	30.0	20.2	Complied



Bottom Channel



Middle Channel

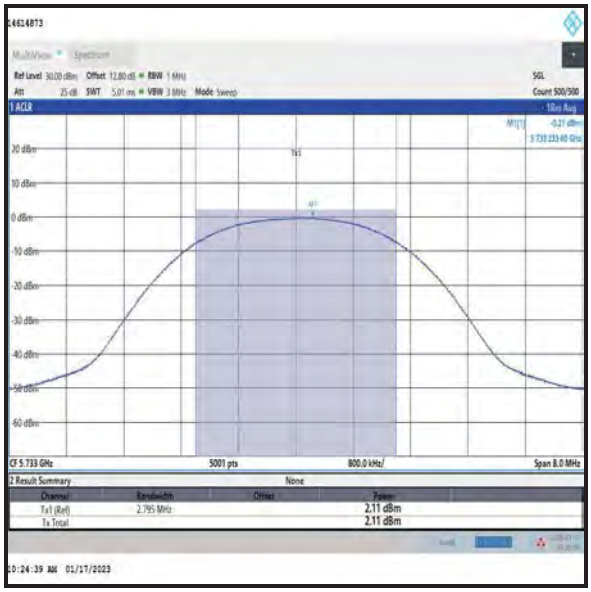


Top Channel

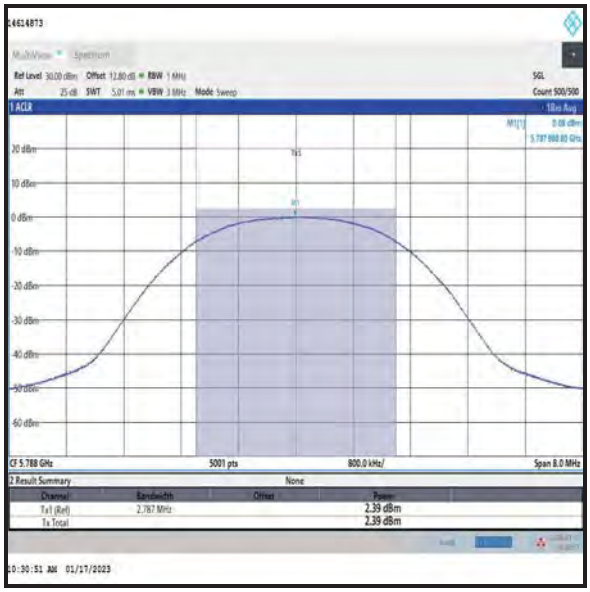
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / iPA

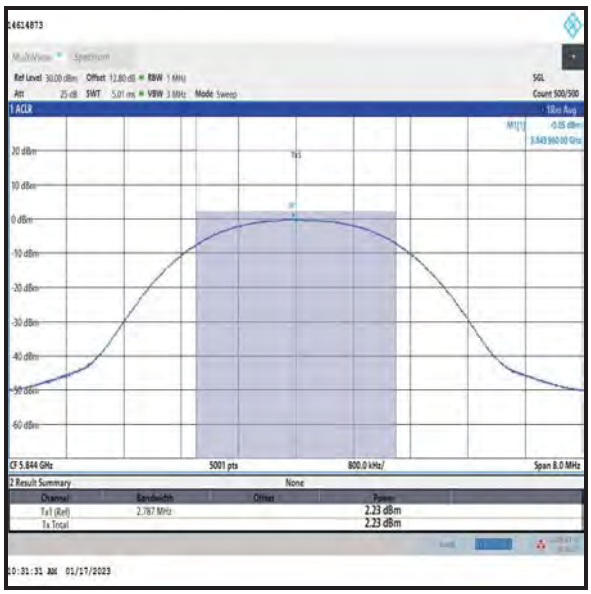
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	2.1	1.1	3.2	30.0	26.8	Complied
Middle	5788	2.4	1.1	3.5	30.0	26.5	Complied
Top	5844	2.2	1.1	3.3	30.0	26.7	Complied



Bottom Channel



Middle Channel

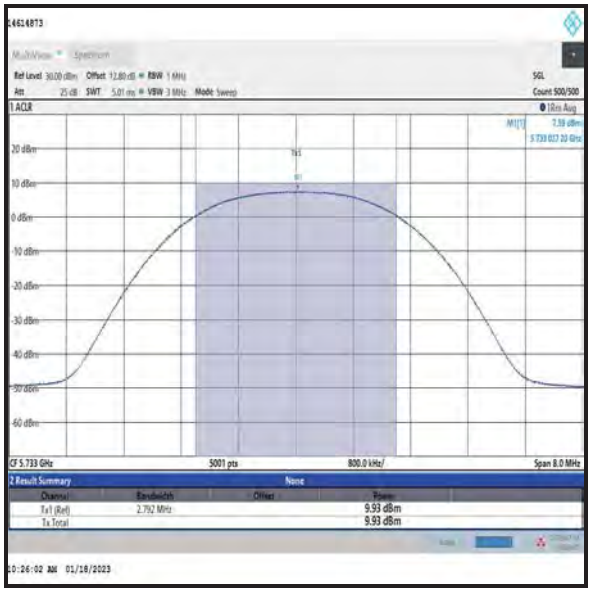


Top Channel

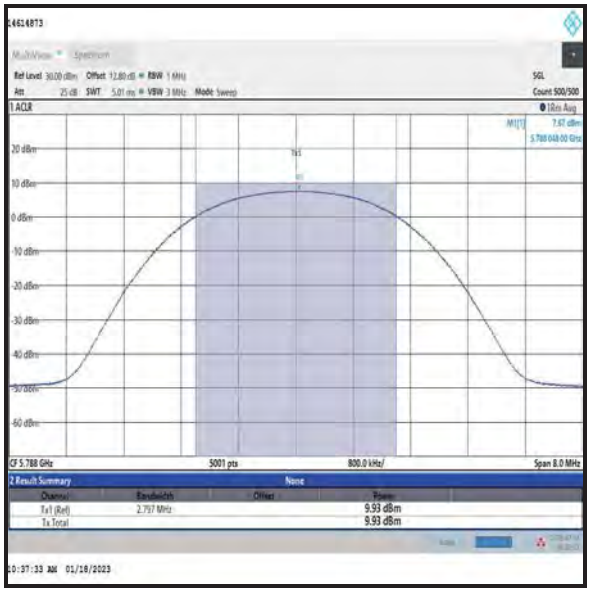
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / SISO / Core 1 / ePA

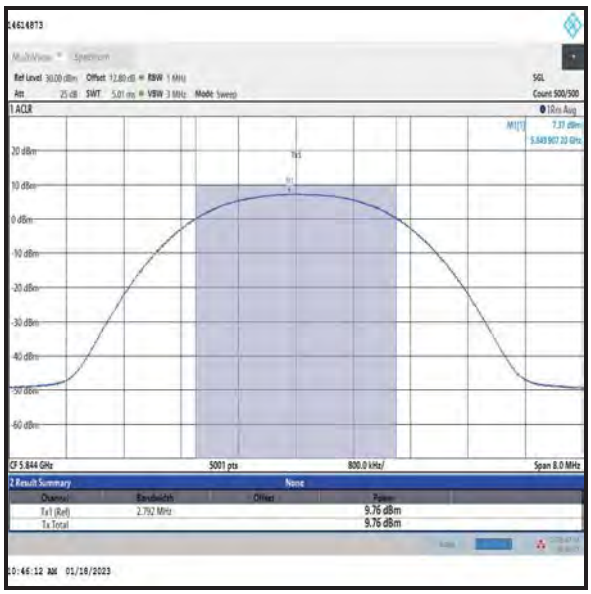
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	9.9	1.1	11.0	30.0	19.0	Complied
Middle	5788	9.9	1.1	11.0	30.0	19.0	Complied
Top	5844	9.8	1.1	10.9	30.0	19.1	Complied



Bottom Channel



Middle Channel

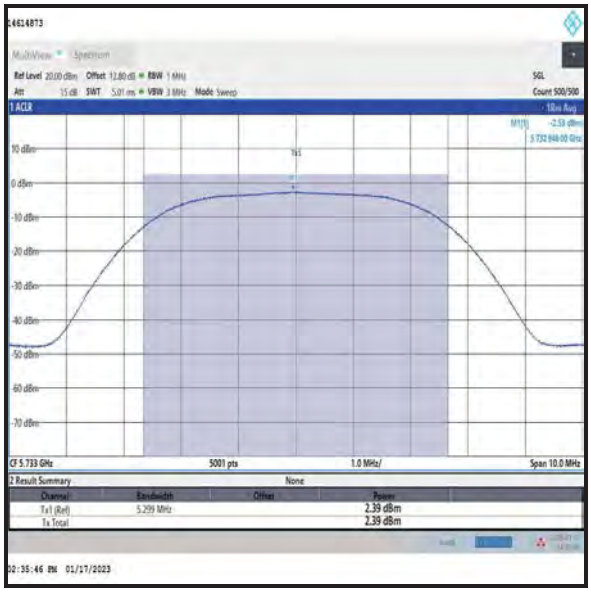


Top Channel

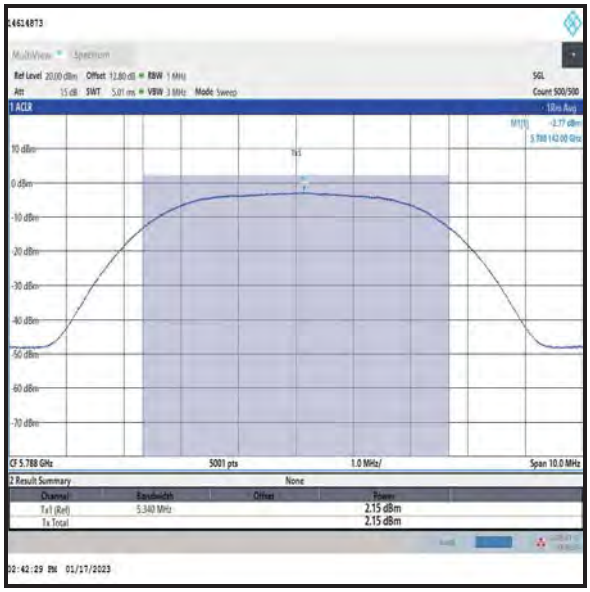
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / iPA

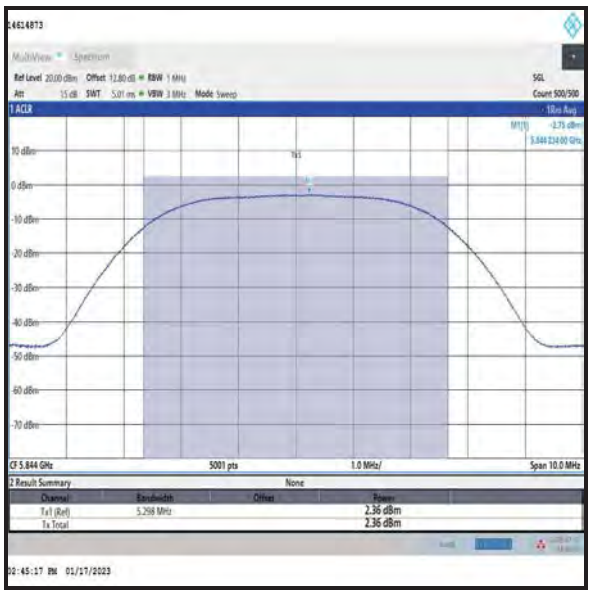
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	2.4	1.0	3.4	30.0	26.6	Complied
Middle	5788	2.2	1.0	3.2	30.0	26.8	Complied
Top	5844	2.4	1.0	3.4	30.0	26.6	Complied



Bottom Channel



Middle Channel

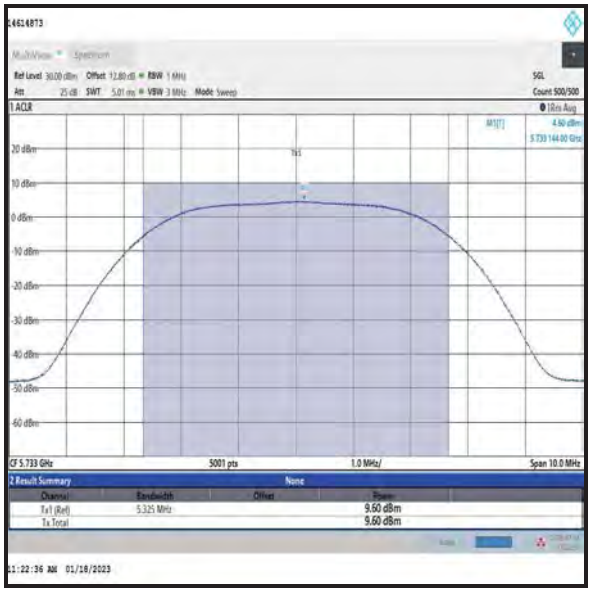


Top Channel

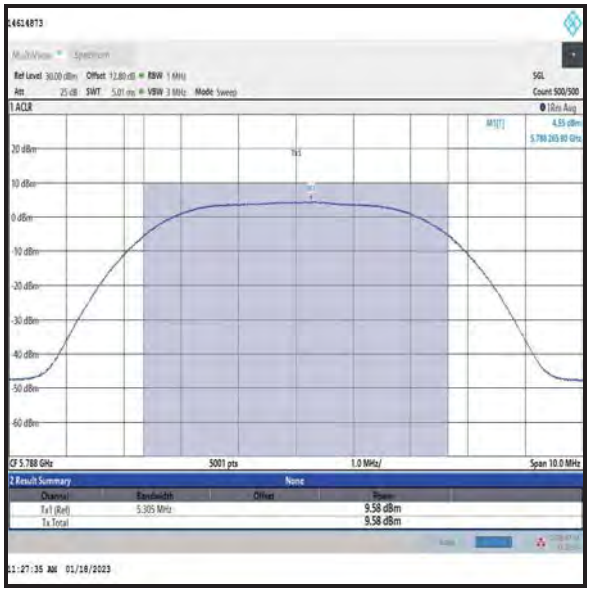
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / SISO / Core 1 / ePA

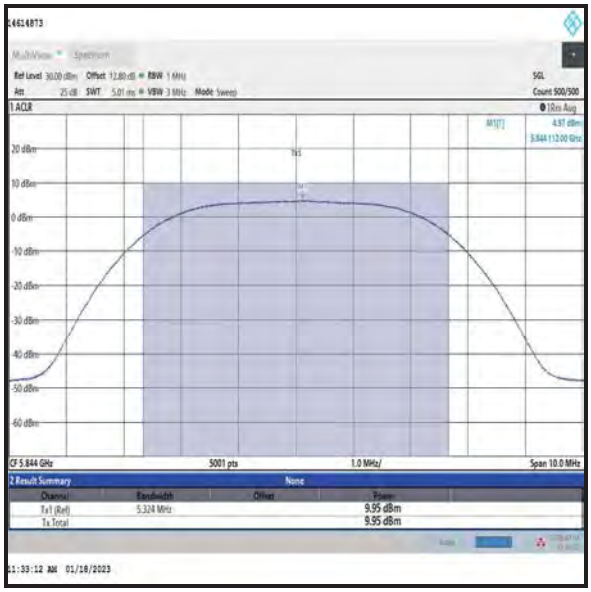
Channel	Frequency (MHz)	Conducted Power (dBm)	Duty cycle correction factor (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	9.6	1.0	10.6	30.0	19.4	Complied
Middle	5788	9.6	1.0	10.6	30.0	19.4	Complied
Top	5844	10.0	1.0	11.0	30.0	19.0	Complied



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

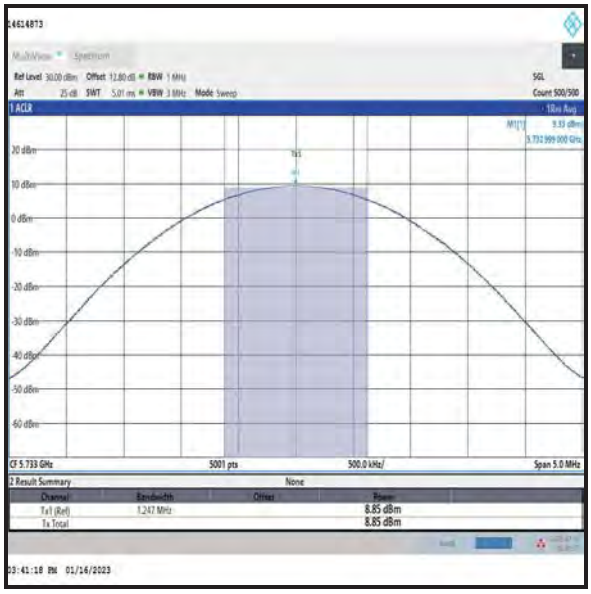
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5733	8.9	1.1	10.0	8.5	1.1	9.6
Middle	5788	8.6	1.1	9.7	8.7	1.1	9.8
Top	5844	8.7	1.1	9.8	8.9	1.1	10.0

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	10.0	9.6	12.8	27.3	14.5	Complied
Middle	5788	9.7	9.8	12.8	27.3	14.5	Complied
Top	5844	9.8	10.0	12.9	27.3	14.4	Complied

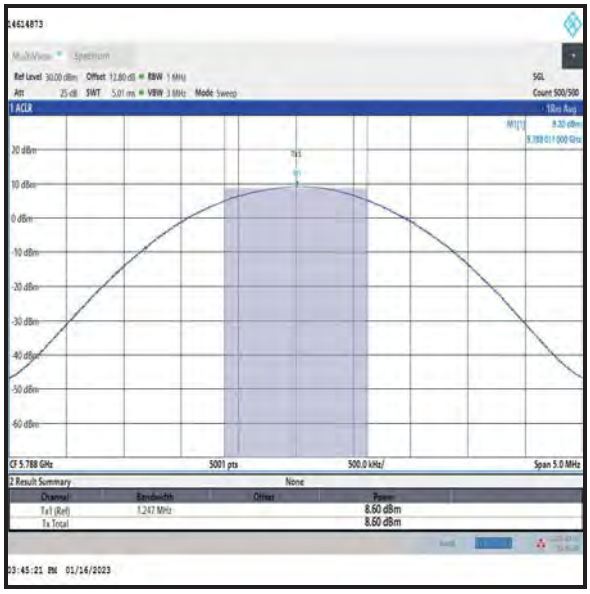
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

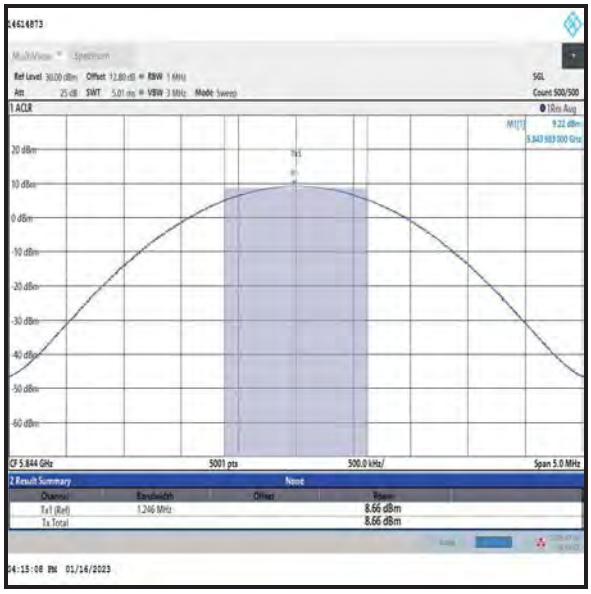
Results: Core 0



Bottom Channel



Middle Channel

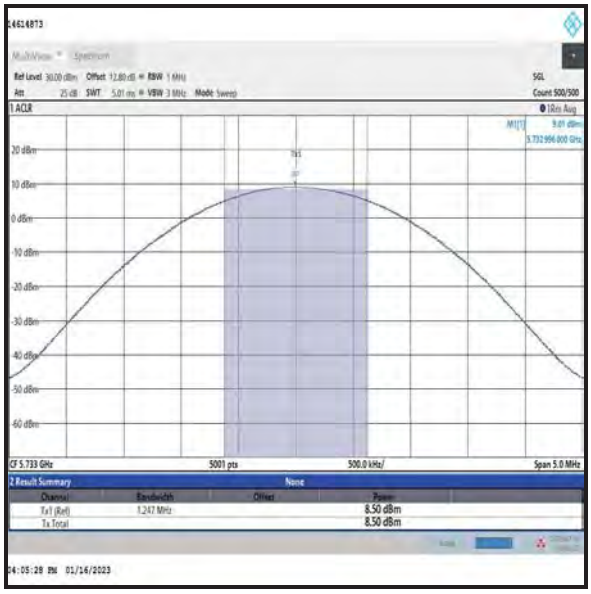


Top Channel

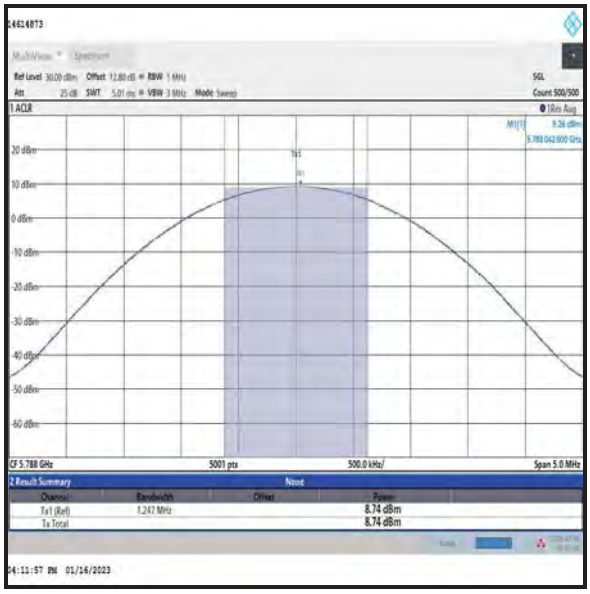
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

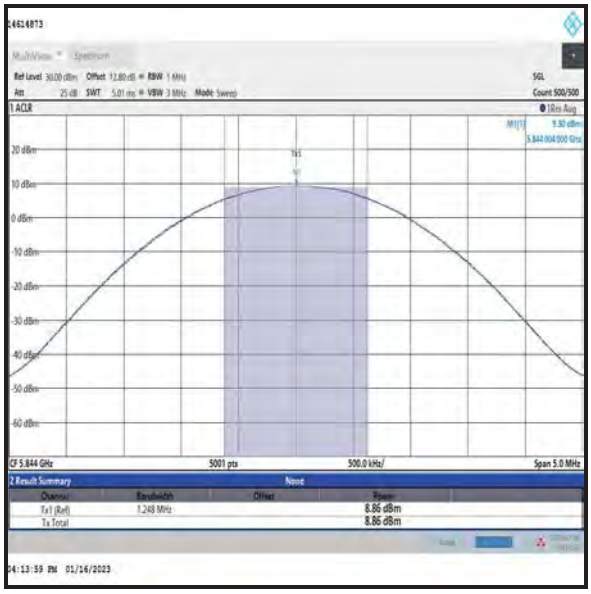
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

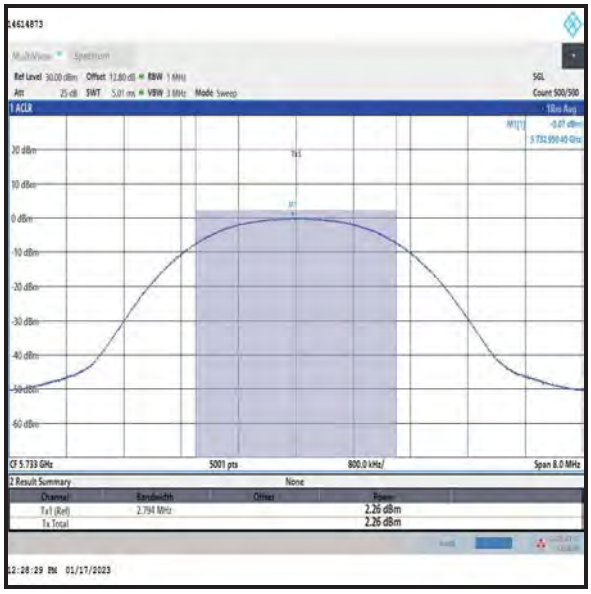
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5733	2.3	1.1	3.4	2.1	1.1	3.2
Middle	5788	2.1	1.1	3.2	2.4	1.1	3.5
Top	5844	2.1	1.1	3.2	2.2	1.1	3.3

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	3.4	3.2	6.3	27.3	21.0	Complied
Middle	5788	3.2	3.5	6.4	27.3	20.9	Complied
Top	5844	3.2	3.3	6.3	27.3	21.0	Complied

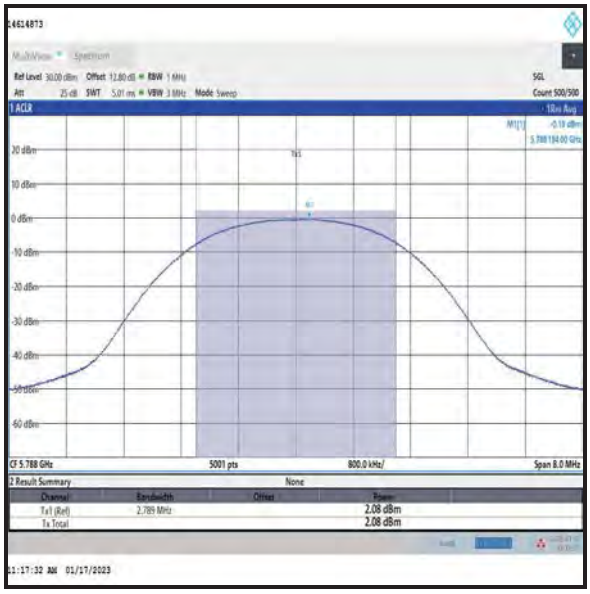
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

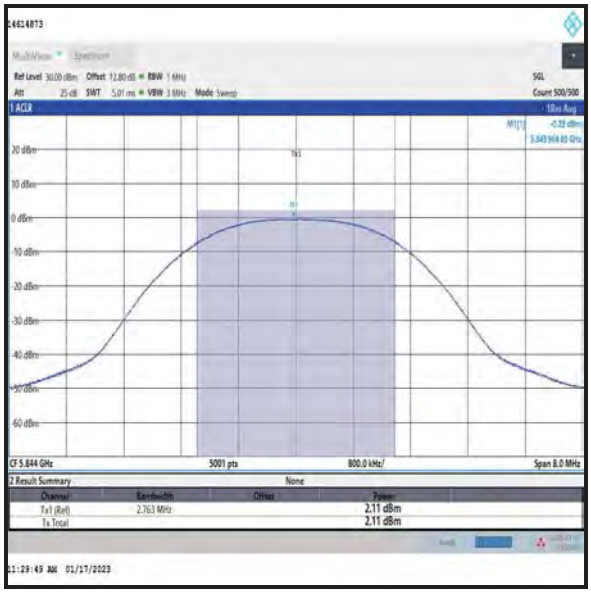
Results: Core 0



Bottom Channel



Middle Channel

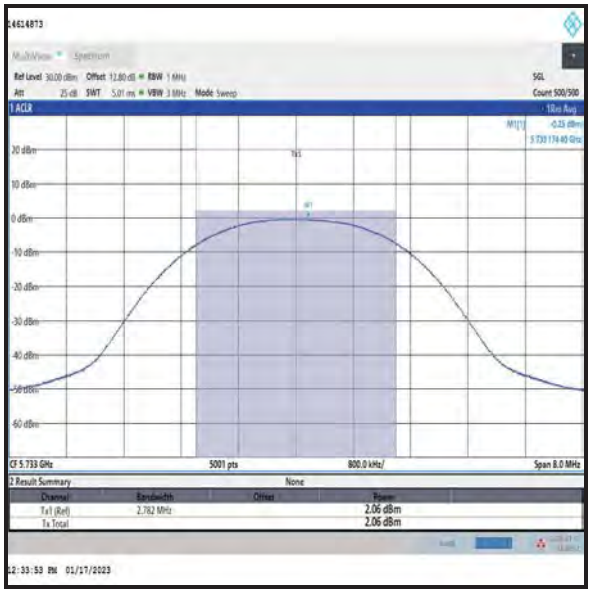


Top Channel

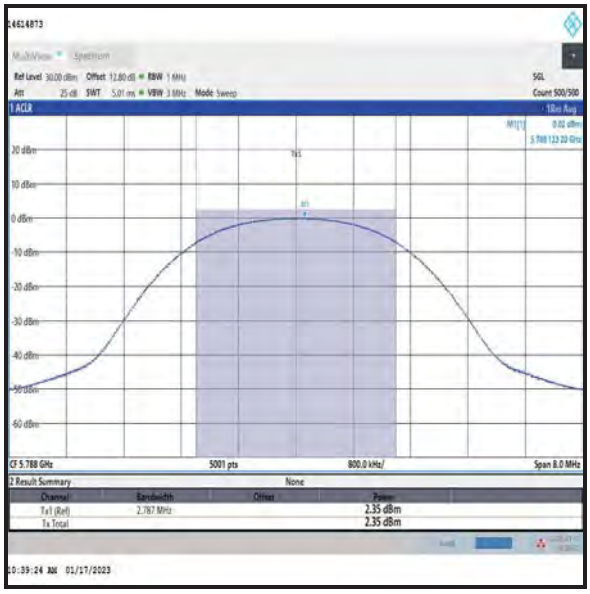
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

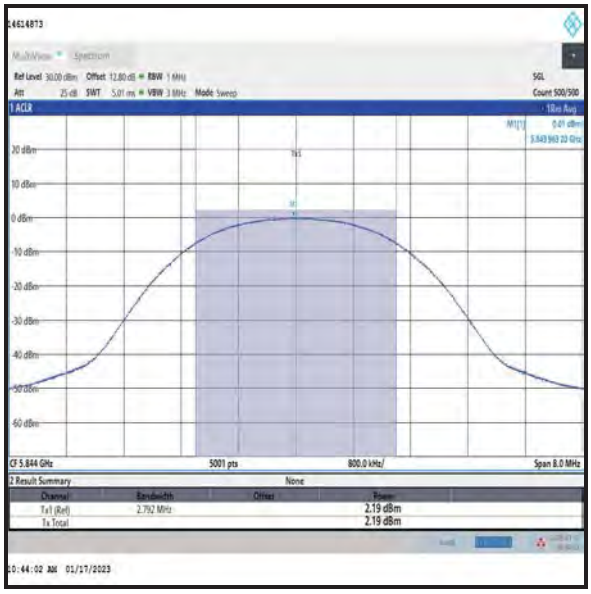
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

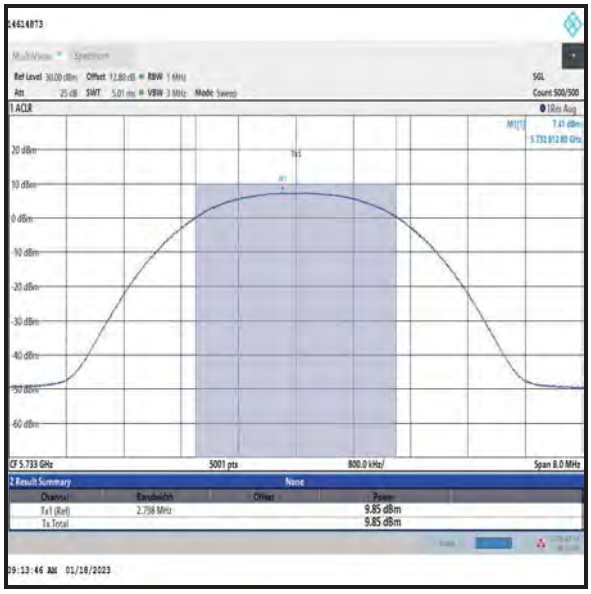
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5733	9.9	1.1	11.0	9.8	1.1	10.9
Middle	5788	9.6	1.1	10.7	9.9	1.1	11.0
Top	5844	9.7	1.1	10.8	9.9	1.1	11.0

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	11.0	10.9	14.0	27.3	13.3	Complied
Middle	5788	10.7	11.0	13.9	27.3	13.4	Complied
Top	5844	10.8	11.0	13.9	27.3	13.4	Complied

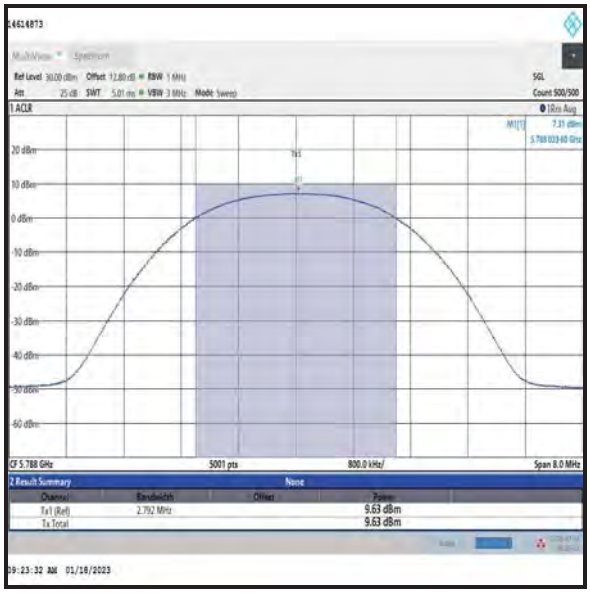
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

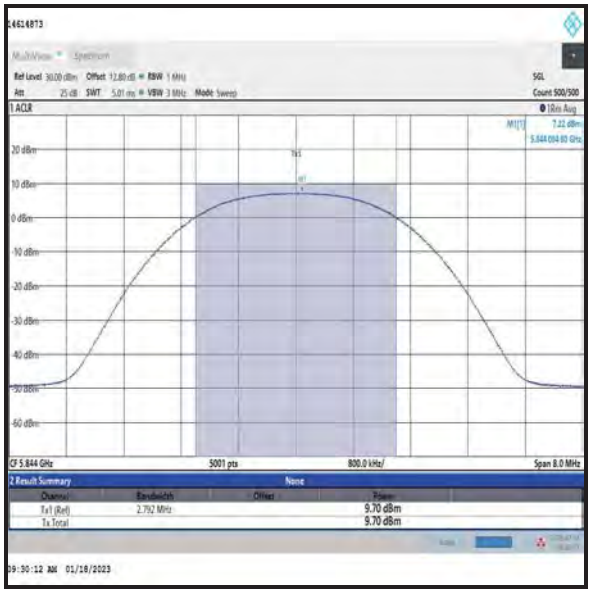
Results: Core 0



Bottom Channel



Middle Channel

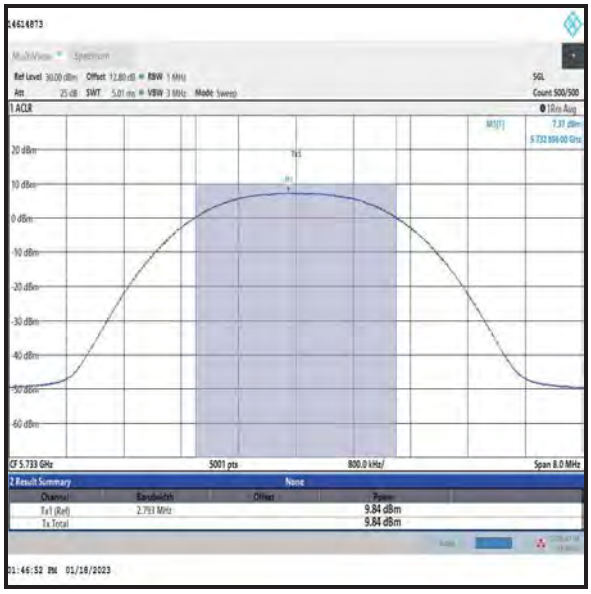


Top Channel

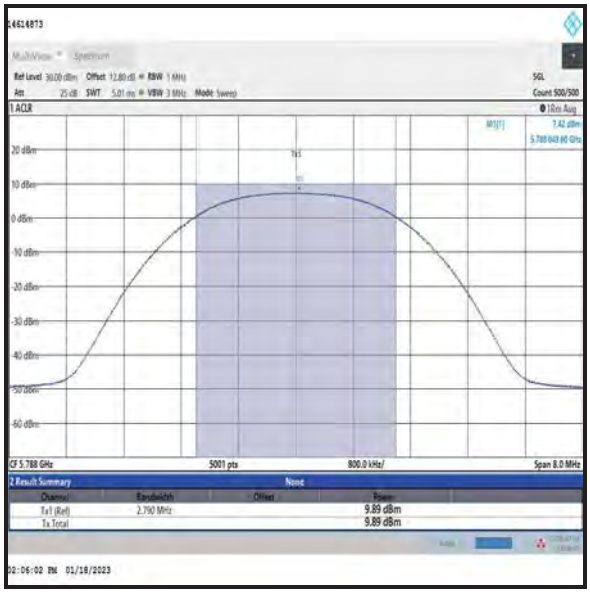
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

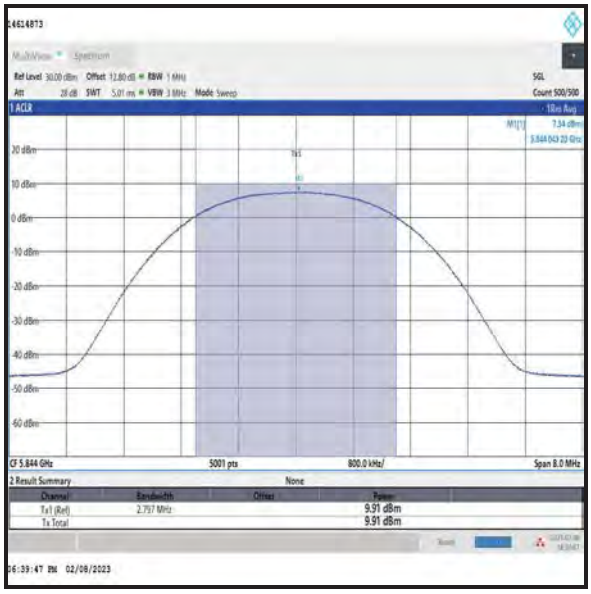
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

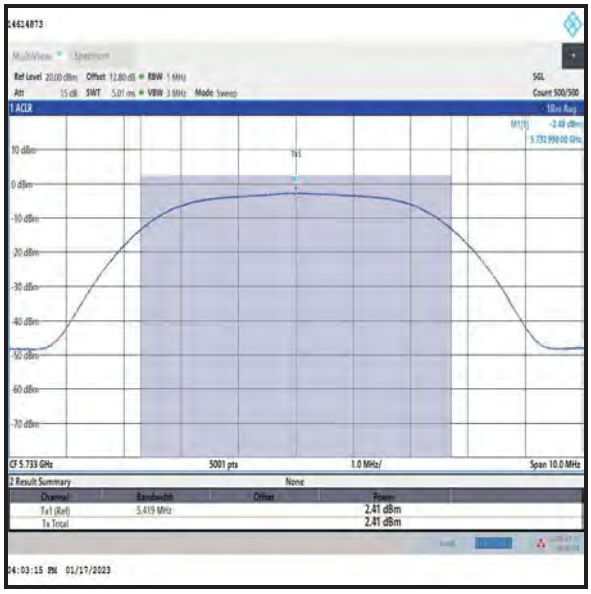
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5733	2.4	1.0	3.4	2.3	1.0	3.3
Middle	5788	2.3	1.0	3.3	2.1	1.0	3.1
Top	5844	2.3	1.0	3.3	2.3	1.0	3.3

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	3.4	3.3	6.4	27.3	20.9	Complied
Middle	5788	3.3	3.1	6.2	27.3	21.1	Complied
Top	5844	3.3	3.3	6.3	27.3	21.0	Complied

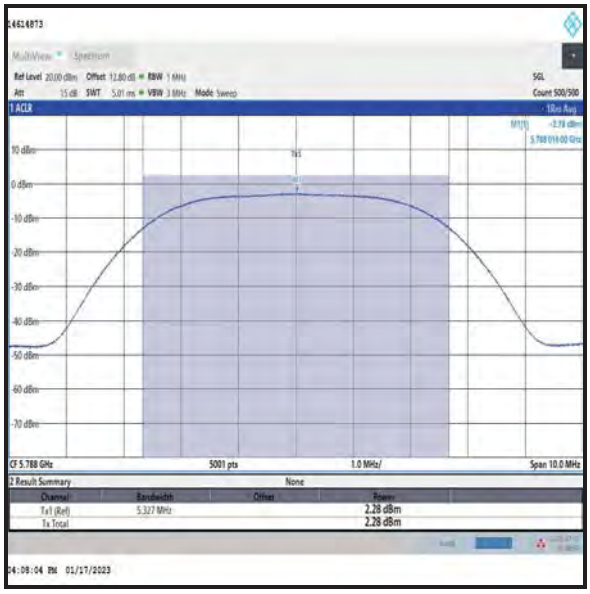
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

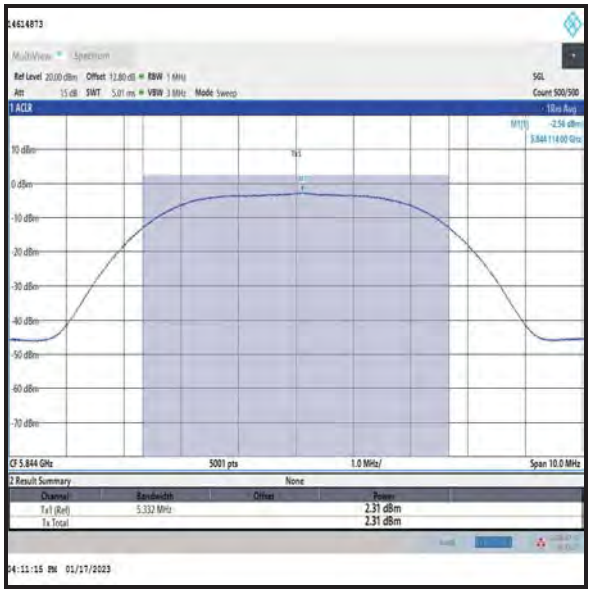
Results: Core 0



Bottom Channel



Middle Channel

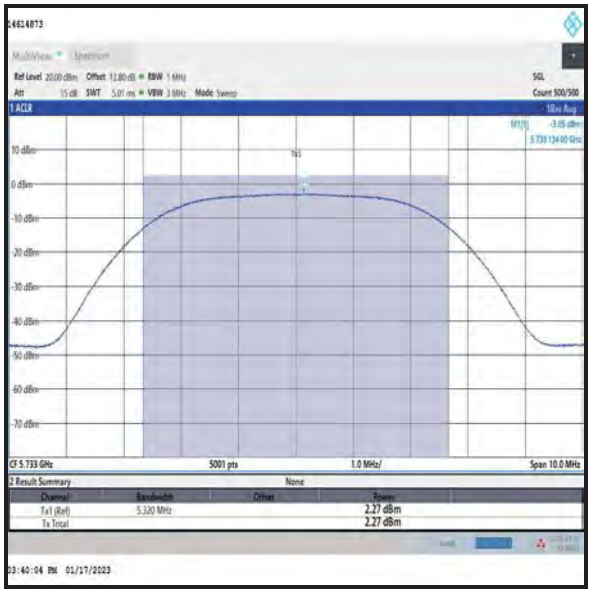


Top Channel

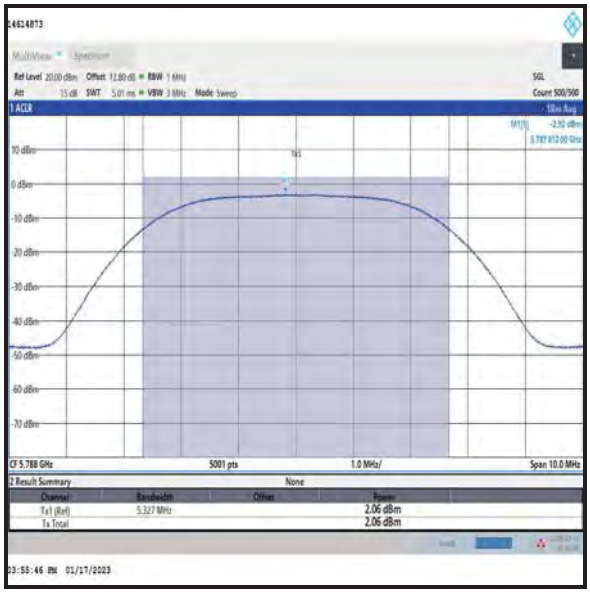
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

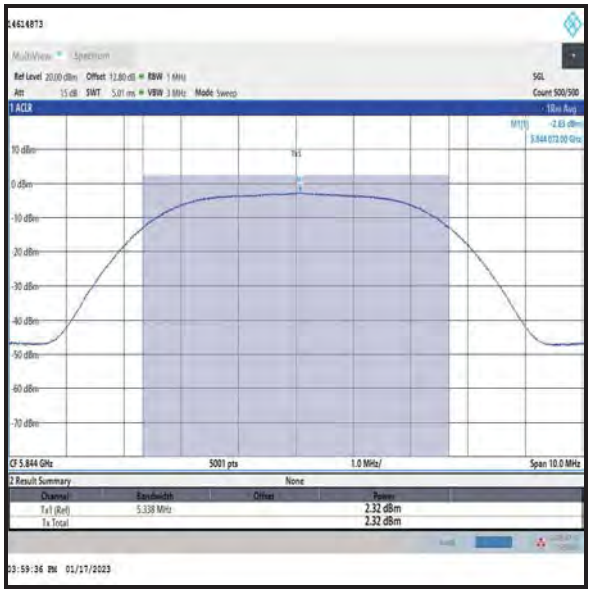
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

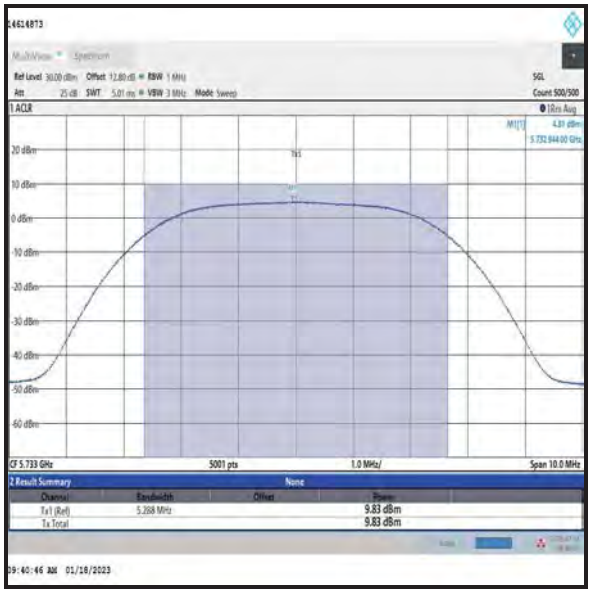
Channel	Frequency (MHz)	Core 0			Core 1		
		Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction factor (dB)	Corrected Conducted Power (dBm)
Bottom	5733	9.8	1.0	10.8	9.9	1.0	10.9
Middle	5788	9.7	1.0	10.7	9.5	1.0	10.5
Top	5844	9.7	1.0	10.7	9.9	1.0	10.9

Channel	Frequency (MHz)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 1 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5733	10.8	10.9	13.9	27.3	13.4	Complied
Middle	5788	10.7	10.5	13.6	27.3	13.7	Complied
Top	5844	10.7	10.9	13.8	27.3	13.5	Complied

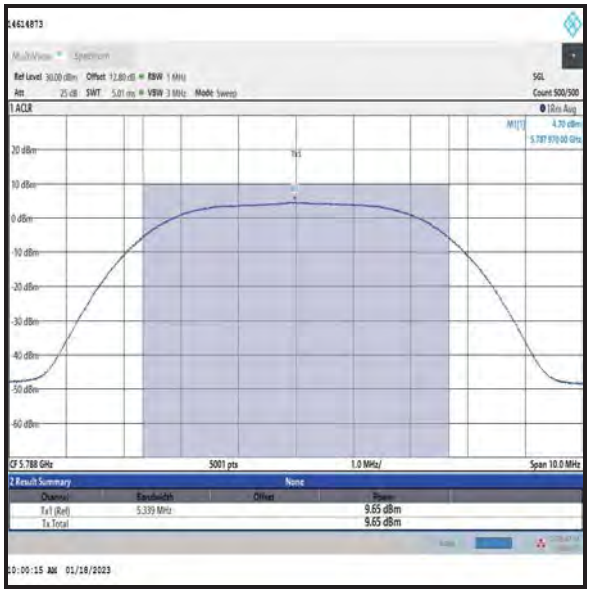
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

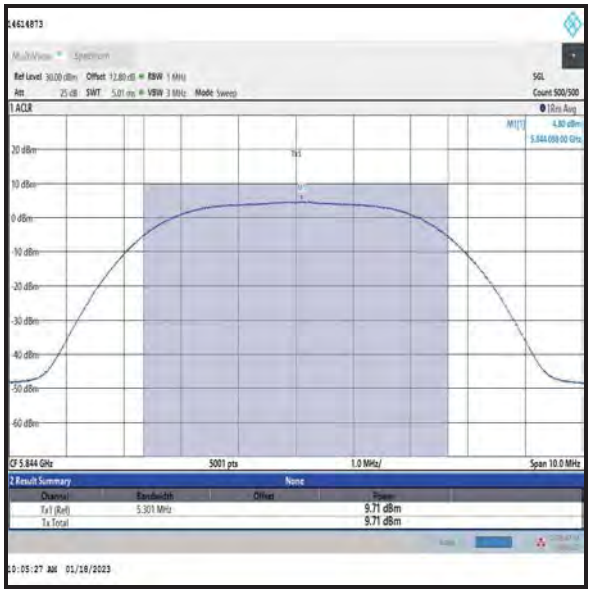
Results: Core 0



Bottom Channel



Middle Channel

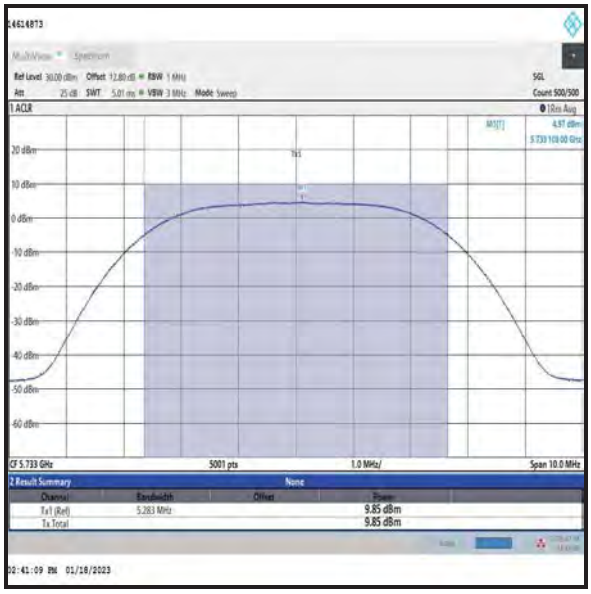


Top Channel

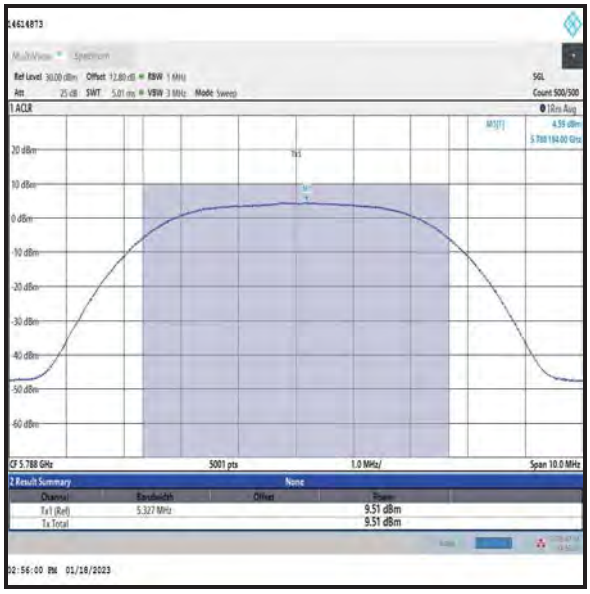
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

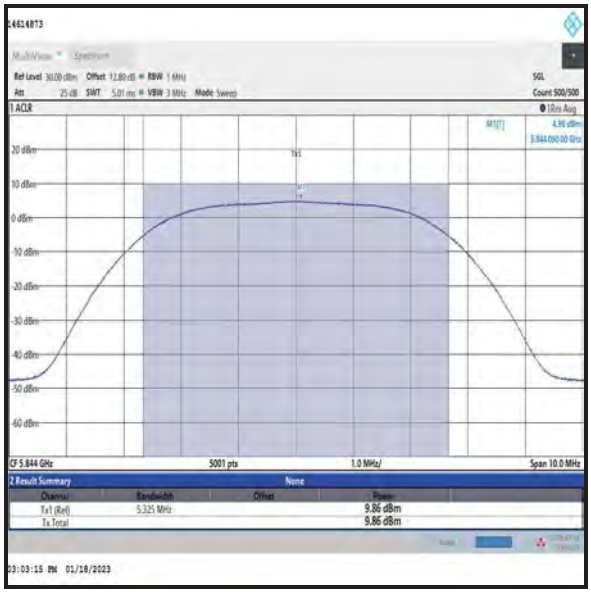
Results: Core 1



Bottom Channel



Middle Channel



Top Channel

4.5 Transmitter Maximum Power Spectral Density

4.5.1 5.15-5.25 GHz band

Test Summary:

Test Engineer:	Jose Bayona	**Test Dates:**	23 January 2023 & 24 January 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.407(a)(1)(iv)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.d)

Environmental Conditions:

Temperature (°C):	20 to 21
Relative Humidity (%):	30

Note(s):

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser in accordance with KDB 789033 II. F referencing II.E.2.d) Method SA-2.
2. The calculated duty cycle in Section 4.1 was added to the measured maximum power spectral density in order to compute the average maximum power spectral density during the actual transmission time.
3. FCC Part 15.407(a)(1)(iv) limit for PSD is <11 dBm/MHz.
4. For Beamforming modes, PSD was measured on both ports and then combined using the *measure and sum the spectra across the outputs* technique, stated in FCC KDB 662911 D01 Section E)2)b).
5. For details on antenna gains refer to Section 3.4 of this test report.
6. For SISO modes of operation, the antenna gain is < 6 dBi.
7. For Beamforming modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 7.5 dBi. In accordance with Part 15.407(a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 1.5 dB to 9.5 dBm.
8. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
9. As the power spectral density test uses the same test method as the output power test, before the power is integrated across the 26 dB bandwidth, the conducted power spectral density plots are located in the conducted output power section 4.4 of this test report. The peak spectral density was measured by placing a marker on the peak of the signal and the results entered in the tables below.

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	9.0	1.1	10.1	11.0	0.9	Complied
Middle	5203	9.1	1.1	10.2	11.0	0.8	Complied
Top	5245	9.3	1.1	10.4	11.0	0.6	Complied

Results: 4DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	-0.2	1.1	0.9	11.0	10.1	Complied
Middle	5203	-0.1	1.1	1.0	11.0	10.0	Complied
Top	5245	0.0	1.1	1.1	11.0	9.9	Complied

Results: 4DH5 / SISO / Core 0 / ePA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	7.3	1.1	8.4	11.0	2.6	Complied
Middle	5203	7.2	1.1	8.3	11.0	2.7	Complied
Top	5245	7.3	1.1	8.4	11.0	2.6	Complied

Results: 8DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	-2.8	1.0	-1.8	11.0	12.8	Complied
Middle	5203	-2.8	1.0	-1.8	11.0	12.8	Complied
Top	5245	-2.8	1.0	-1.8	11.0	12.8	Complied

Results: 8DH5 / SISO / Core 0 / ePA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	4.9	1.0	5.9	11.0	5.1	Complied
Middle	5203	4.6	1.0	5.6	11.0	5.4	Complied
Top	5245	4.5	1.0	5.5	11.0	5.5	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	9.1	1.1	10.2	11.0	0.8	Complied
Middle	5203	9.5	1.1	10.6	11.0	0.4	Complied
Top	5245	9.4	1.1	10.5	11.0	0.5	Complied

Results: 4DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	-0.3	1.1	0.8	11.0	10.2	Complied
Middle	5203	-0.1	1.1	1.0	11.0	10.0	Complied
Top	5245	-0.1	1.1	1.0	11.0	10.0	Complied

Results: 4DH5 / SISO / Core 1 / ePA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	7.2	1.1	8.3	11.0	2.7	Complied
Middle	5203	7.1	1.1	8.2	11.0	2.8	Complied
Top	5245	7.5	1.1	8.6	11.0	2.4	Complied

Results: 8DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	-3.0	1.0	-2.0	11.0	13.0	Complied
Middle	5203	-2.9	1.0	-1.9	11.0	12.9	Complied
Top	5245	-3.0	1.0	-2.0	11.0	13.0	Complied

Results: 8DH5 / SISO / Core 1 / ePA

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5162	4.6	1.0	5.6	11.0	5.4	Complied
Middle	5203	4.6	1.0	5.6	11.0	5.4	Complied
Top	5245	4.7	1.0	5.7	11.0	5.3	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5162	4.7	1.1	5.8	4.8	1.1	5.9
Middle	5203	4.7	1.1	5.8	4.8	1.1	5.9
Top	5245	4.8	1.1	5.9	4.8	1.1	5.9

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Combined PSD (dBm /MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5162	5.8	5.9	8.9	9.5	0.6	Complied
Middle	5203	5.8	5.9	8.9	9.5	0.6	Complied
Top	5245	5.9	5.9	8.9	9.5	0.6	Complied

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5162	0.0	1.1	1.1	-0.2	1.1	0.9
Middle	5203	-0.3	1.1	0.8	-0.3	1.1	0.8
Top	5245	0.0	1.1	1.1	-0.3	1.1	0.8

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Combined PSD (dBm /MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5162	1.1	0.9	4.0	9.5	5.5	Complied
Middle	5203	0.8	0.8	3.8	9.5	5.7	Complied
Top	5245	1.1	0.8	4.0	9.5	5.5	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5162	4.1	1.1	5.2	3.8	1.1	4.9
Middle	5203	3.6	1.1	4.7	4.1	1.1	5.2
Top	5245	3.8	1.1	4.9	3.8	1.1	4.9

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Combined PSD (dBm /MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5162	5.2	4.9	8.1	9.5	1.4	Complied
Middle	5203	4.7	5.2	8.0	9.5	1.5	Complied
Top	5245	4.9	4.9	7.9	9.5	1.6	Complied

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5162	-3.0	1.0	-2.0	-3.2	1.0	-2.2
Middle	5203	-2.9	1.0	-1.9	-2.6	1.0	-1.6
Top	5245	-3.1	1.0	-2.1	-3.1	1.0	-2.1

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Combined PSD (dBm /MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5162	-2.0	-2.2	0.9	9.5	8.6	Complied
Middle	5203	-1.9	-1.6	1.3	9.5	8.2	Complied
Top	5245	-2.1	-2.1	0.9	9.5	8.6	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm /MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5162	1.4	1.0	2.4	1.2	1.0	2.2
Middle	5203	1.0	1.0	2.0	1.2	1.0	2.2
Top	5245	1.1	1.0	2.1	1.5	1.0	1.6

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Combined PSD (dBm /MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5162	2.4	2.2	5.3	9.5	4.2	Complied
Middle	5203	2.0	2.2	5.1	9.5	4.4	Complied
Top	5245	2.1	1.6	4.9	9.5	4.6	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band)

4.5.2 5.725-5.85 GHz band

Test Summary:

Test Engineers:	Jose Bayona & Luis Pazos Perez	**Test Dates:**	16 January 2023 to 08 February 2023
Test Sample Serial Number:	CG66NP726G		

FCC Reference:	Part 15.407(a)(3)(i)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.d)

Environmental Conditions:

Temperature (°C):	20 to 23
Relative Humidity (%):	30 to 32

Note(s):

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser in accordance with KDB 789033 II. F referencing II.E.2.d) Method SA-2.
2. The calculated duty cycle in Section 4.1 was added to the measured maximum power spectral density in order to compute the average maximum power spectral density during the actual transmission time.
3. FCC Part 15.407(a)(3)(i) limit for PSD is <30 dBm/500 kHz.
4. In accordance with ANSI C63.10 Section 4.1.4.1, use of bandwidths greater than those specified can produce higher readings. Compliance against the applicable limits is shown using a 1 MHz resolution bandwidth. This was deemed worst case.
5. For Beamforming modes, PSD was measured on both ports and then combined using the *measure and sum the spectra across the outputs* technique, stated in FCC KDB 662911 D01 Section E)2)b).
6. For details on antenna gains refer to Section 3.4 of this test report.
7. For SISO modes of operation, the antenna gain is < 6 dBi.
8. For Beamforming modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 8.7 dBi. In accordance with Part 15.407(a)(3)(i), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm/500 kHz has been reduced by 2.7 dB to 27.3 dBm.
9. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
10. As the power spectral density test uses the same test method as the output power test, before the power is integrated across the 26 dB bandwidth, the conducted power spectral density plots are located in the conducted output power section 4.4 of this test report. The peak spectral density was measured by placing a marker on the peak of the signal and the results entered in the tables below.

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	9.1	1.1	10.2	30.0	19.8	Complied
Middle	5788	9.3	1.1	10.4	30.0	19.6	Complied
Top	5844	9.1	1.1	10.2	30.0	19.8	Complied

Results: 4DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	-0.3	1.1	0.8	30.0	29.2	Complied
Middle	5788	-0.1	1.1	1.0	30.0	29.0	Complied
Top	5844	-0.2	1.1	0.9	30.0	29.1	Complied

Results: 4DH5 / SISO / Core 0 / ePA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	7.4	1.1	8.5	30.0	21.5	Complied
Middle	5788	7.3	1.1	8.4	30.0	21.6	Complied
Top	5844	7.3	1.1	8.4	30.0	21.6	Complied

Results: 8DH5 / SISO / Core 0 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	-2.6	1.0	-1.6	30.0	31.6	Complied
Middle	5788	-2.7	1.0	-1.7	30.0	31.7	Complied
Top	5844	-2.8	1.0	-1.8	30.0	31.8	Complied

Results: 8DH5 / SISO / Core 0 / ePA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	4.9	1.0	5.9	30.0	24.1	Complied
Middle	5788	4.6	1.0	5.6	30.0	24.4	Complied
Top	5844	4.8	1.0	5.8	30.0	24.2	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Results: DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	9.2	1.1	10.3	30.0	19.7	Complied
Middle	5788	9.5	1.1	10.6	30.0	19.4	Complied
Top	5844	9.2	1.1	10.3	30.0	19.7	Complied

Results: 4DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	-0.2	1.1	0.9	30.0	29.1	Complied
Middle	5788	0.1	1.1	1.2	30.0	28.8	Complied
Top	5844	0.0	1.1	1.1	30.0	28.9	Complied

Results: 4DH5 / SISO / Core 1 / ePA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	7.6	1.1	8.7	30.0	21.3	Complied
Middle	5788	7.7	1.1	8.8	30.0	21.2	Complied
Top	5844	7.4	1.1	8.5	30.0	21.5	Complied

Results: 8DH5 / SISO / Core 1 / iPA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	-2.5	1.0	-1.5	30.0	31.5	Complied
Middle	5788	-2.8	1.0	-1.8	30.0	31.8	Complied
Top	5844	-2.7	1.0	-1.7	30.0	31.7	Complied

Results: 8DH5 / SISO / Core 1 / ePA

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	4.6	1.0	5.6	30.0	24.4	Complied
Middle	5788	4.6	1.0	5.6	30.0	24.4	Complied
Top	5844	5.0	1.0	6.0	30.0	24.0	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Results: DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5733	9.3	1.1	10.4	9.0	1.1	10.1
Middle	5788	9.2	1.1	10.3	9.3	1.1	10.4
Top	5844	9.2	1.1	10.3	9.3	1.1	10.4

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	10.4	10.1	13.3	27.3	14.0	Complied
Middle	5788	10.3	10.4	13.4	27.3	13.9	Complied
Top	5844	10.3	10.4	13.4	27.3	13.9	Complied

Results: 4DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5733	-0.1	1.1	1.0	-0.3	1.1	0.8
Middle	5788	-0.2	1.1	0.9	0.0	1.1	1.1
Top	5844	-0.3	1.1	0.8	0.0	1.1	1.1

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	1.0	0.8	3.9	27.3	23.4	Complied
Middle	5788	0.9	1.1	4.0	27.3	23.3	Complied
Top	5844	0.8	1.1	4.0	27.3	23.3	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Results: 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5733	7.4	1.1	8.5	7.4	1.1	8.5
Middle	5788	7.3	1.1	8.4	7.4	1.1	8.5
Top	5844	7.2	1.1	8.3	7.5	1.1	8.6

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	8.5	8.5	11.5	27.3	15.8	Complied
Middle	5788	8.4	8.5	11.5	27.3	15.8	Complied
Top	5844	8.3	8.6	11.5	27.3	15.8	Complied

Results: 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5733	-2.5	1.0	-1.5	-3.0	1.0	-2.0
Middle	5788	-2.8	1.0	-1.8	-2.9	1.0	-1.9
Top	5844	-2.6	1.0	-1.6	-2.6	1.0	-1.6

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	-1.5	-2.0	1.3	27.3	26.0	Complied
Middle	5788	-1.8	-1.9	1.2	27.3	26.1	Complied
Top	5844	-1.6	-1.6	1.4	27.3	25.9	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)

Results: 8DH5 / Beamforming / Core 0 + Core 1 / ePA

Channel	Frequency (MHz)	Core 0			Core 1		
		PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty Cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5733	4.8	1.0	5.8	5.0	1.0	6.0
Middle	5788	4.7	1.0	5.7	4.6	1.0	5.6
Top	5844	4.8	1.0	5.8	5.0	1.0	6.0

Channel	Frequency (MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5733	5.8	6.0	8.9	27.3	18.4	Complied
Middle	5788	5.7	5.6	8.7	27.3	18.6	Complied
Top	5844	5.8	6.0	8.9	27.3	18.4	Complied

5 Radiated Test Results

5.1 Transmitter Out of Band Radiated Emissions <1 GHz

Test Summary:

Test Engineers:	Robert English & Nick Steele	**Test Date:**	12 January 2023
Test Sample Serial Number:	HP4WQ0NY7K		

FCC Reference:	Parts 15.407(b)(1),(9),(10) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3, 6.4 and 6.5
Frequency Range:	9 kHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	43

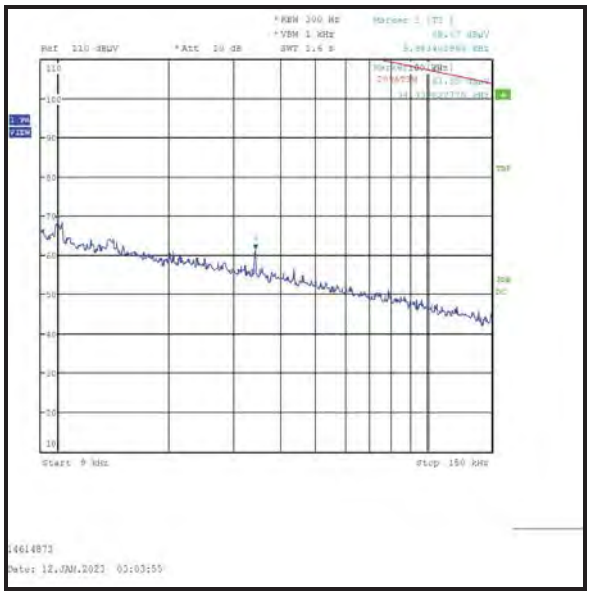
Note(s):

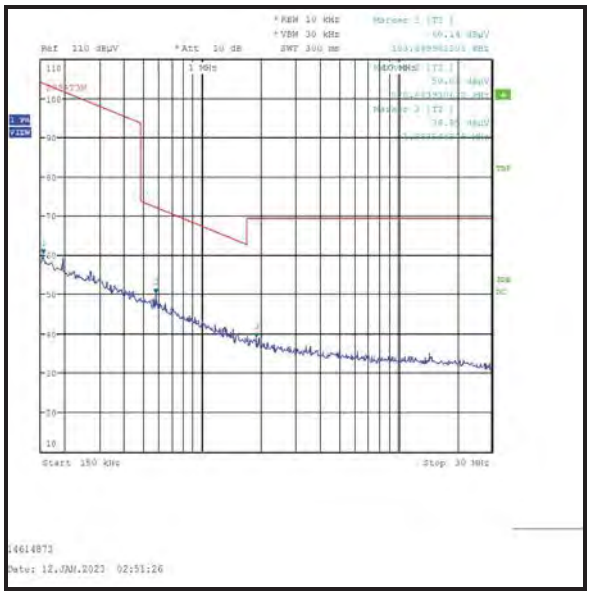
1. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
2. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 4DH5 / Beamforming / Core 0 + Core 1 / ePA on middle channel in this band as it produced the highest output power and was therefore deemed worst case.
3. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the middle channel only.
4. All emissions shown on the pre-scan plots were investigated and found to be ambient, or >20 dB below the applicable limit or below the measurement system noise floor. Therefore the highest peak noise floor reading of the measuring receiver was recorded in the table below.
5. Measurements below 30 MHz were performed in a semi-anechoic chamber (Asset Number K0001) at 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. The limit was extrapolated to 3 metres in accordance with ANSI C63.10 clause 6.4.3 using the method described in clause 6.4.4.2. ANSI C63.10 clause 5.2 states an alternative test site that can demonstrate equivalence to an open area test site may be used for measurements below 30 MHz. Therefore, measurements were performed in a semi-anechoic chamber. The correlation data between semi-anechoic chamber and an open field test site is available upon request.
6. Measurements below 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
7. Pre-scans were performed and markers placed on the highest measured levels. The test receiver was configured as follows: For 9 kHz to 150 kHz, the resolution bandwidth was set to 300 Hz and video bandwidth 1 kHz. A peak detector was used and trace mode was Max Hold. For 150 kHz to 30 MHz, the resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz, trace mode was Max Hold. For 30 MHz to 1 GHz, the resolution bandwidth was set to 120 kHz and video bandwidth 500 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold.

Transmitter Out of Band Radiated Emissions <1 GHz (continued)

Results: Peak / Middle Channel / 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
948.801	Vertical	37.6	46.0	8.4	Complied





5.2 Transmitter Out of Band Radiated Emissions >1 GHz

5.2.1 5.15-5.25 GHz band

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation)

Test Summary:

Test Engineers:	Rob English, Vi Van & John Ferdinand	**Test Dates:**	04 January 2023 to 14 January 2023
Test Sample Serial Numbers:	HP4WQ0NY7K & D07J73TQJY		

FCC Reference:	Part 15.407(b)(1),(10) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	21 to 22
Relative Humidity (%):	40 to 44

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Note(s):

1. FCC Part 15.407(b)(1) states for transmitters operating in the band 5.15 to 5.25 GHz: all emissions outside of the 5.15 to 5.35 GHz band will not exceed -27 dBm/MHz. Part(b)(10) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Pre-scans were performed with the EUT transmitting in the band 5.15 to 5.25 GHz band with a data rate of 4DH5 / Beamforming / Core 0 + Core 1 / ePA on middle channel in this band as it produced the highest output power and was therefore deemed worst case.
3. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
4. All other emissions shown on the pre-scan plots were investigated and found to be ambient, or 20 dB below the applicable limit or below the measurement system noise floor.
5. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
6. The emission shown on the 1 GHz to 6 GHz plot at approximately 5203 MHz is the EUT fundamental.
7. *In accordance with KDB 789033 Section II.G.1.c) if the peak measurement is below the average limit, it is not necessary to perform a separate average measurement.
8. Measurements were performed across the two restricted bands (4.5 to 5.15 GHz & 5.35 to 5.46 GHz) closest to the band of operation with the EUT transmitting on the bottom channel in the 5.15 to 5.25 GHz band. The 4.5 to 5.15 GHz plot is included in this section of the test report. For the EUT transmitting on the top channel in the 5.15 to 5.25 GHz band, these plots were included as part of upper band edge measurements and can be found in section 5.3.1 of this test report.
9. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001/K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
10. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto. Peak and average measurements were performed with their own appropriate detectors during the pre-scan measurements.
11. Final measurements were performed on the marker frequencies and the results entered into the table below. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto, with and span wide enough to see the whole emission. Peak measurement were performed a with a peak detector and max hold enable. Average measurements were performed a with a RMS detector and trace average over 300 sweeps.

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Bottom Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5592.290	Horizontal	-37.7	-27.0	10.7	Complied

Results: Bottom Channel / Field Strength / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4730.823	Horizontal	55.2	74.0	18.8	Complied
22769.217	Horizontal	42.7	54.0*	11.3	Complied

Results: Bottom Channel / Field Strength / Average

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4731.662	Horizontal	42.6	54.0	11.4	Complied

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5636.760	Horizontal	-37.8	-27.0	10.8	Complied

Results: Middle Channel / Field Strength / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4770.332	Horizontal	55.9	74.0	18.1	Complied
22769.217	Horizontal	42.7	54.0*	11.3	Complied

Results: Middle Channel / Field Strength / Average

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4770.332	Horizontal	45.0	54.0	9.0	Complied

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5682.140	Horizontal	-37.8	-27.0	10.8	Complied

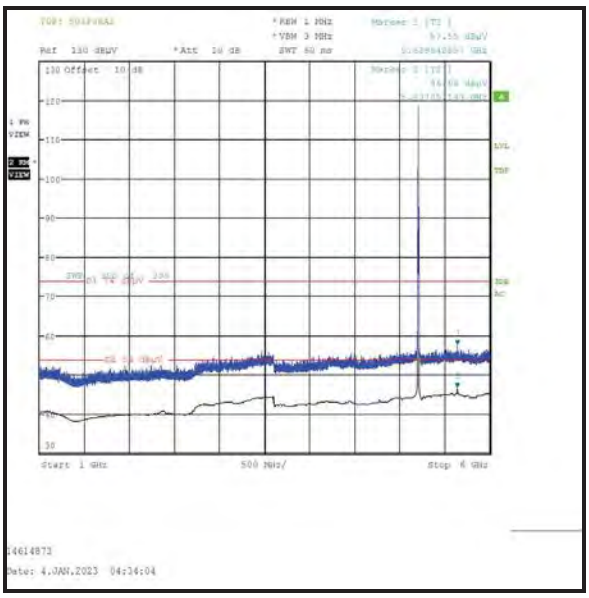
Results: Top Channel / Field Strength / Peak

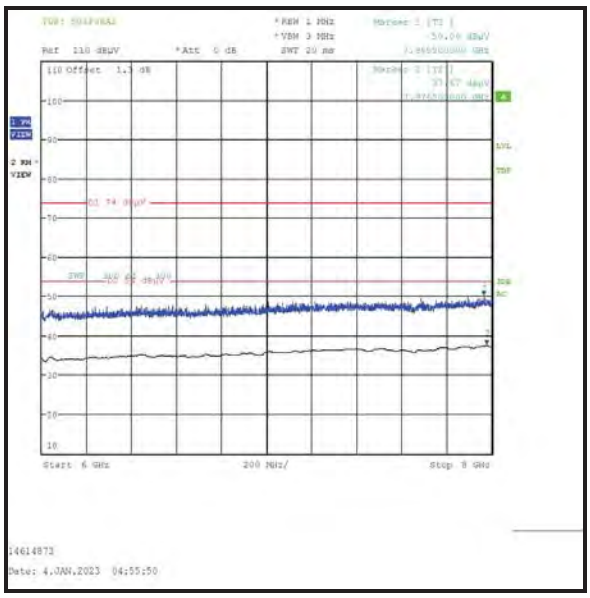
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4807.654	Horizontal	54.7	74.0	19.3	Complied
22769.217	Horizontal	42.7	54.0*	11.3	Complied

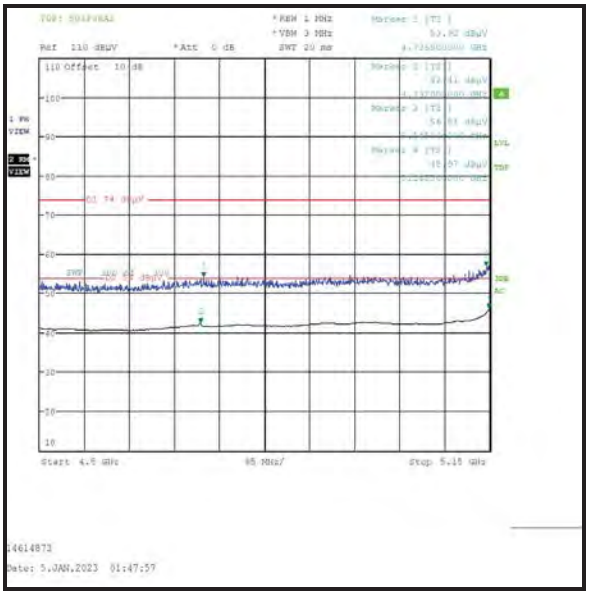
Results: Top Channel / Field Strength / Average

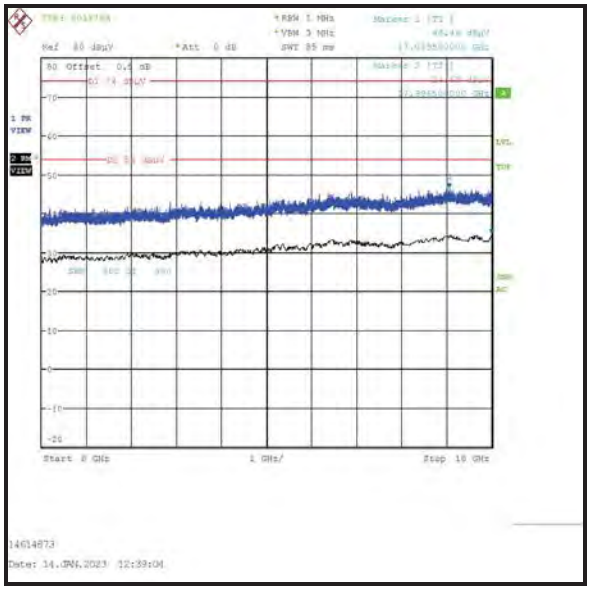
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
4807.723	Horizontal	42.6	54.0	11.4	Complied

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)



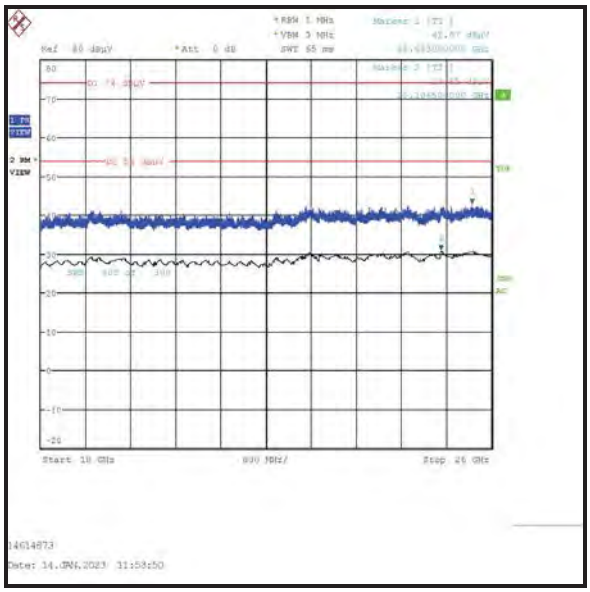


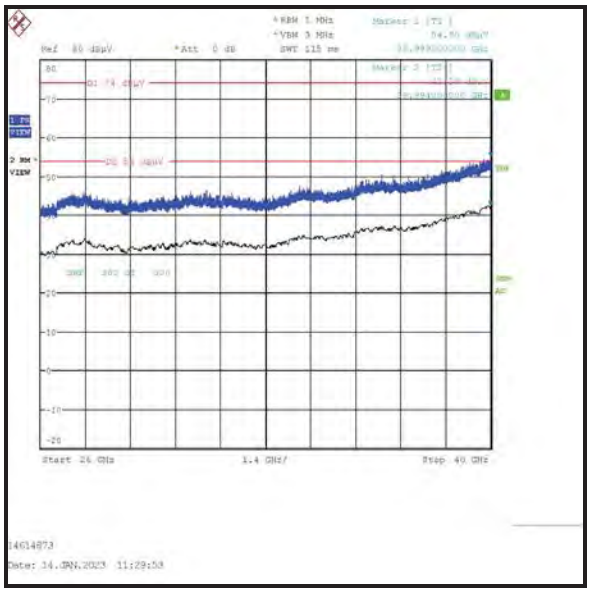




Restricted Band 4.5 GHz to 5.15 GHz

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)





Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

5.2.2 5.725-5.85 GHz band

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation)

Test Summary:

Test Engineers:	Rob English, Vi Van & John Ferdinand	**Test Dates:**	04 January 2023 to 14 January 2023
Test Sample Serial Numbers:	HP4WQ0NY7K & D07J73TQJY		

FCC Reference:	Part 15.407(b)(4)(i),(10) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	21 to 22
Relative Humidity (%):	40 to 45

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)

Note(s):

1. FCC Part 15.407(b)(4)(i) states for transmitters operating in the band 5.725 to 5.85 GHz: 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. Part(b)(10) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 4DH5 / Beamforming / Core 0 + Core 1 / ePA on middle channel in this band as it produced the highest output power and was therefore deemed worst case.
3. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
4. All other emissions shown on the pre-scan plots were investigated and found to be ambient, or 20 dB below the applicable limit or below the measurement system noise floor.
5. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
6. The emission shown on the 1 GHz to 6 GHz plot at approximately 5788 MHz is the EUT fundamental.
7. *In accordance with KDB 789033 Section II.G.1.c) if the peak measurement is below the average limit, it is not necessary to perform a separate average measurement.
8. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001/K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
9. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto. Peak and average measurements were performed with their own appropriate detectors during the pre-scan measurements.
10. Final measurements were performed on the marker frequencies and the results entered into the table below. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto, with and span wide enough to see the whole emission. Peak measurement were performed a with a peak detector and max hold enable. Average measurements were performed a with a RMS detector and trace average over 300 sweeps.

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)

Results: Bottom Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5323.720	Horizontal	-36.7	-27.0	9.7	Complied
6143.450	Horizontal	-42.8	-27.0	15.8	Complied

Results: Bottom Channel / Field Strength

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)	Result
22769.217	Horizontal	42.7	54.0*	11.3	Complied

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
6201.723	Horizontal	-40.6	-27.0	13.6	Complied

Results: Middle Channel / Field Strength / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5374.754	Horizontal	59.0	74.0	15.0	Complied
22769.217	Horizontal	42.7	54.0*	11.3	Complied

Results: Middle Channel / Field Strength / Average

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5374.754	Horizontal	48.1	54.0	5.9	Complied

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
6201.723	Horizontal	-40.6	-27.0	13.6	Complied

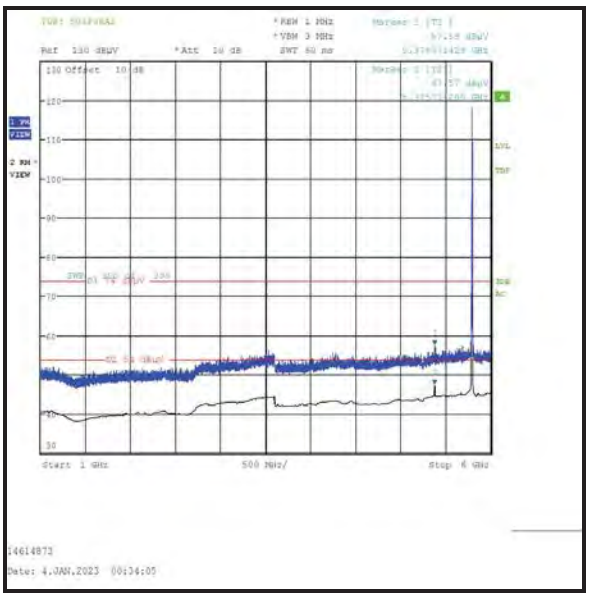
Results: Top Channel / Field Strength / Peak

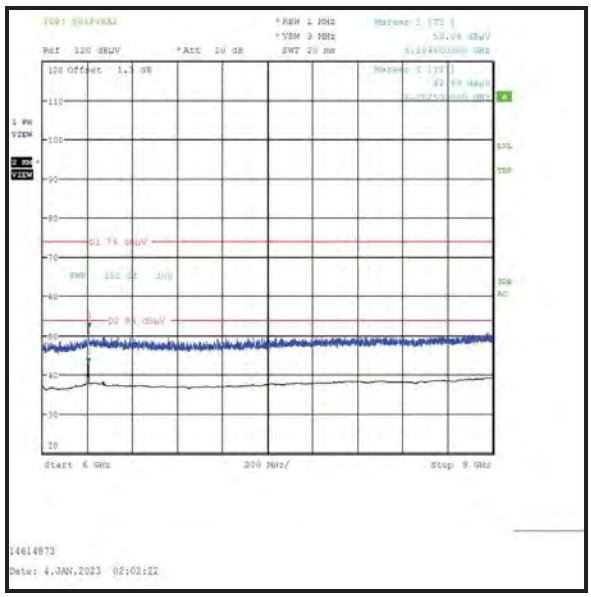
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5426.497	Horizontal	58.6	74.0	15.4	Complied
22769.217	Horizontal	42.7	54.0*	11.3	Complied

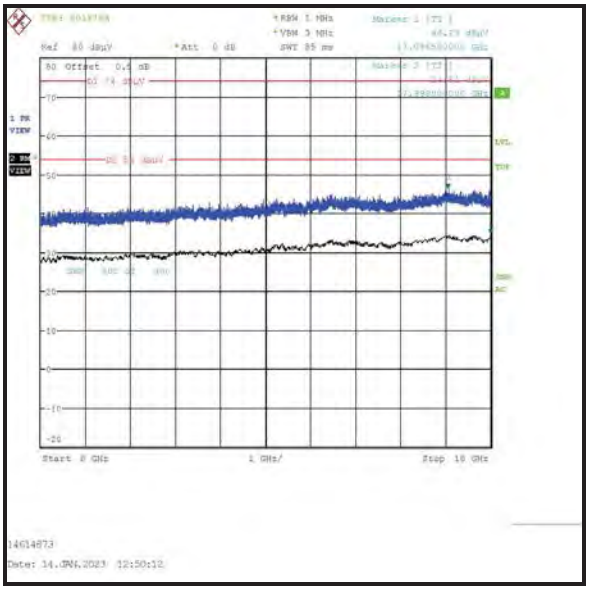
Results: Top Channel / Field Strength / Average

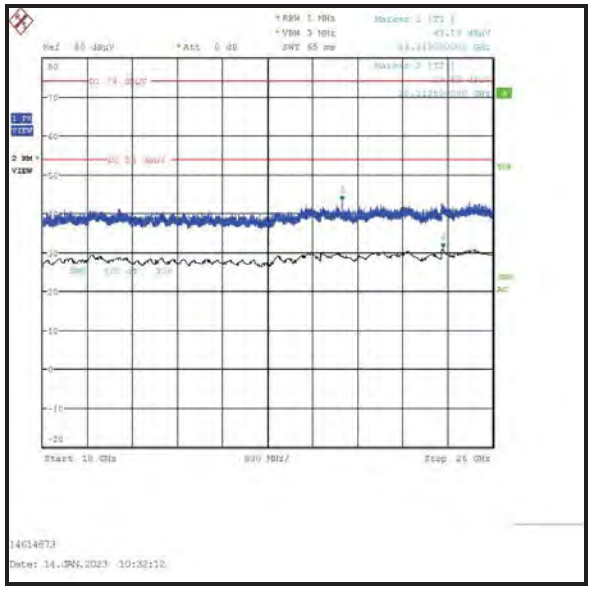
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5426.497	Horizontal	46.5	54.0	7.5	Complied

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)

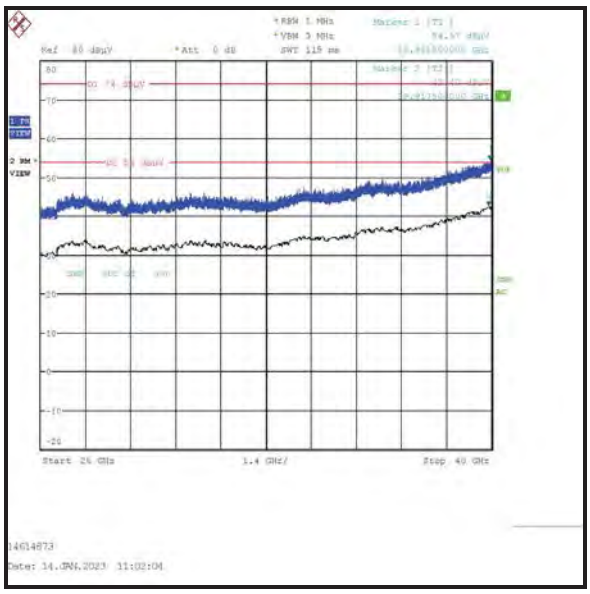








Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

5.3 Transmitter Band Edge Radiated Emissions

5.3.1 5.15-5.25 GHz band

Test Summary:

Test Engineers:	Nick Steele & Vi Van	**Test Dates:**	22 November 2022 & 23 November 2022
Test Sample Serial Number:	HP4WQ0NY7K		

FCC Reference:	Parts 15.407(b)(1),(10), 15.205 & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

Environmental Conditions:

Temperature (°C):	22 to 23
Relative Humidity (%):	43 to 44

Note(s):

1. Lower band edge measurements were performed with the EUT transmitting on the bottom channel. Upper band edge measurements were performed with the EUT transmitting on the top channel.
2. In addition, the lower and upper band edges were performed with the EUT configured in hopping mode. It was set to hop across the 79 channels closest to the applicable band edge. These plots are archived on the UL IT server and available for inspection if required.
3. 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 EIRP of -27 dBm/MHz. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also above the upper band edge at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply. Tests for at 4.5-5.15 GHz restricted band were performed and are included in section 5.2.1 of this test report.
4. Field strength measurements using peak and average detectors were performed in the restricted bands below 5.15 GHz and above 5.35 GHz. Field strength and EIRP results were found to be compliant with the restricted band limits and Part 15.407 out-of-band limits.

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / DH5 / SISO / Core 0 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5130.450	56.3	74.0	17.7	Complied
5150	55.1	74.0	18.9	Complied

Results: Upper Band Edge / Peak

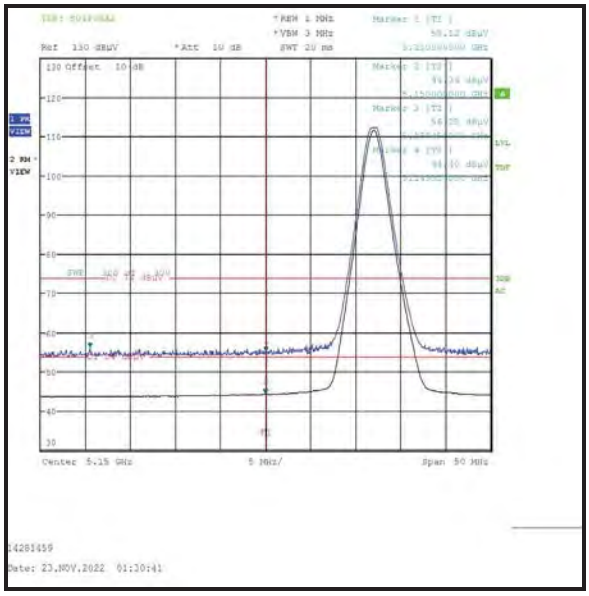
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.8	74.0	18.2	Complied
5366.940	56.6	74.0	17.4	Complied

Results: Lower Band Edge / Average

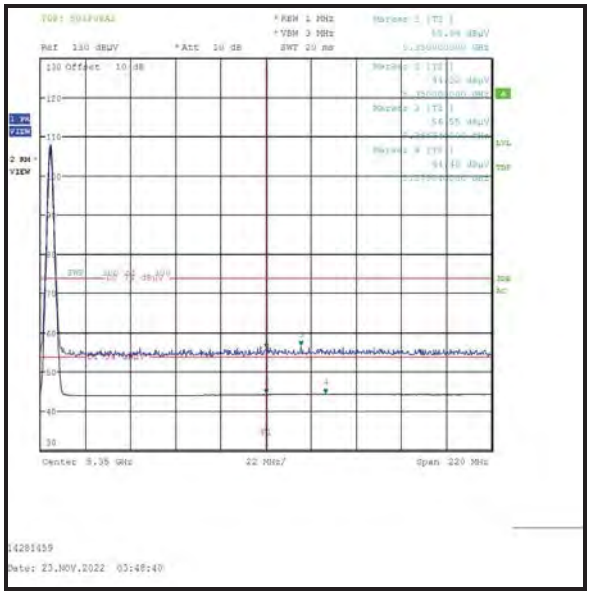
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5149.950	44.4	54.0	9.6	Complied
5150	44.3	54.0	9.7	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.3	54.0	9.7	Complied
5379.040	44.5	54.0	9.5	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / SISO / Core 0 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5142.800	56.0	74.0	18.0	Complied
5150	54.9	74.0	19.1	Complied

Results: Upper Band Edge / Peak

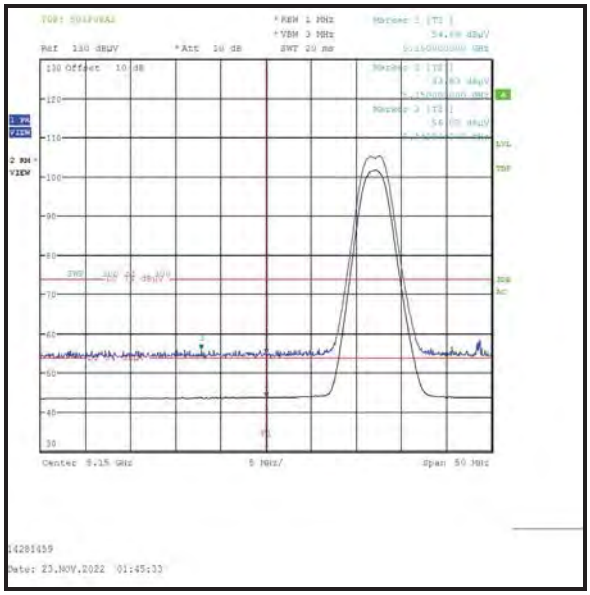
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	54.5	74.0	19.5	Complied
5361.880	56.7	74.0	17.3	Complied

Results: Lower Band Edge / Average

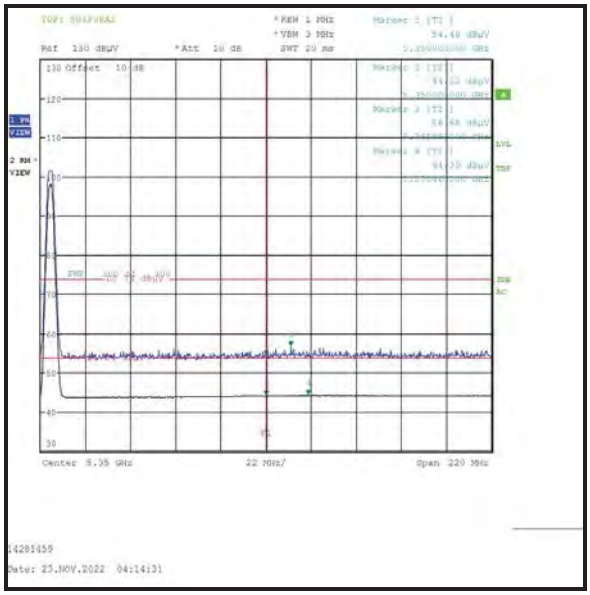
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	43.8	54.0	10.2	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.1	54.0	9.9	Complied
5370.460	44.4	54.0	9.6	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / SISO / Core 0 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5149.450	57.5	74.0	16.5	Complied
5150	56.5	74.0	17.5	Complied

Results: Upper Band Edge / Peak

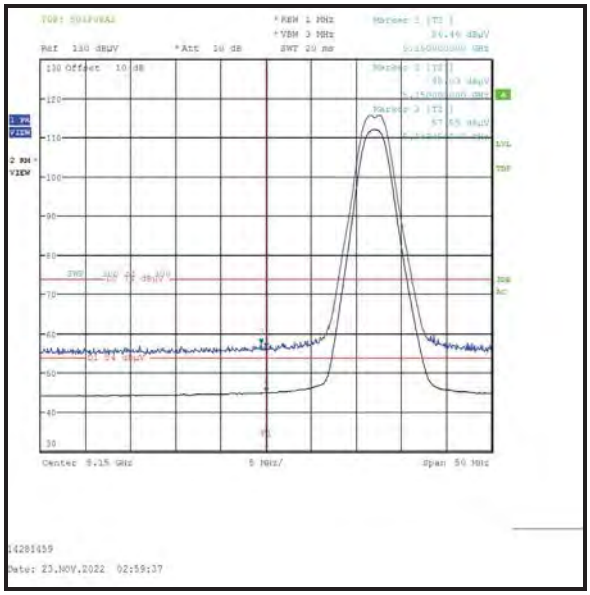
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.1	74.0	18.9	Complied
5394.880	57.8	74.0	16.2	Complied

Results: Lower Band Edge / Average

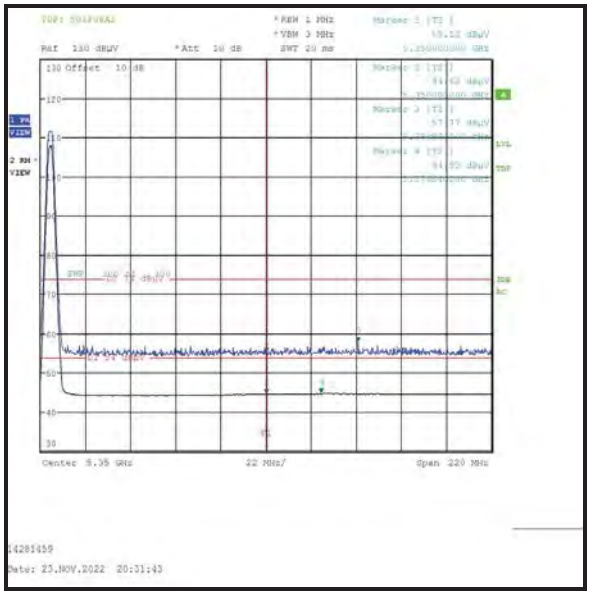
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	45.0	54.0	9.0	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.6	54.0	9.4	Complied
5376.840	44.8	54.0	9.2	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / SISO / Core 0 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5147.400	56.8	74.0	17.2	Complied
5150	55.9	74.0	18.1	Complied

Results: Upper Band Edge / Peak

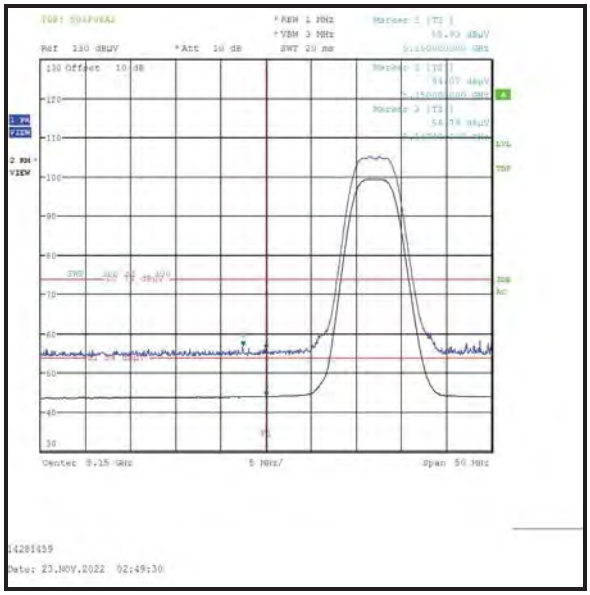
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.5	74.0	18.5	Complied
5438.000	57.2	74.0	16.8	Complied

Results: Lower Band Edge / Average

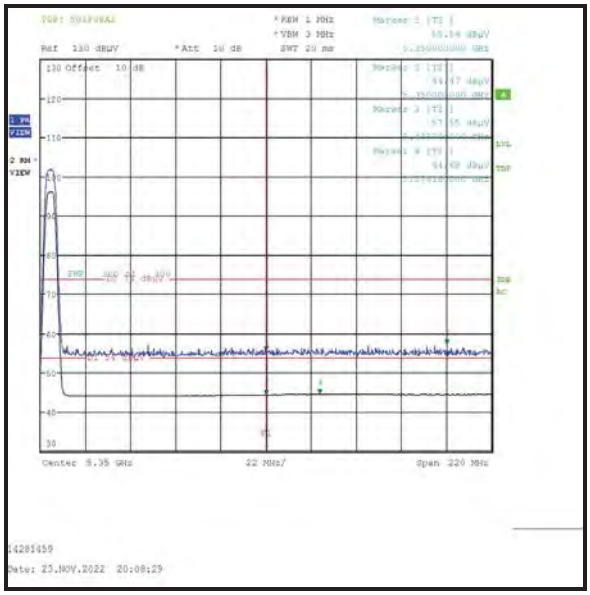
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	44.1	54.0	9.9	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.5	54.0	9.5	Complied
5376.180	44.7	54.0	9.3	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / SISO / Core 0 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5147.650	58.2	74.0	15.8	Complied
5150	57.3	74.0	16.7	Complied

Results: Upper Band Edge / Peak

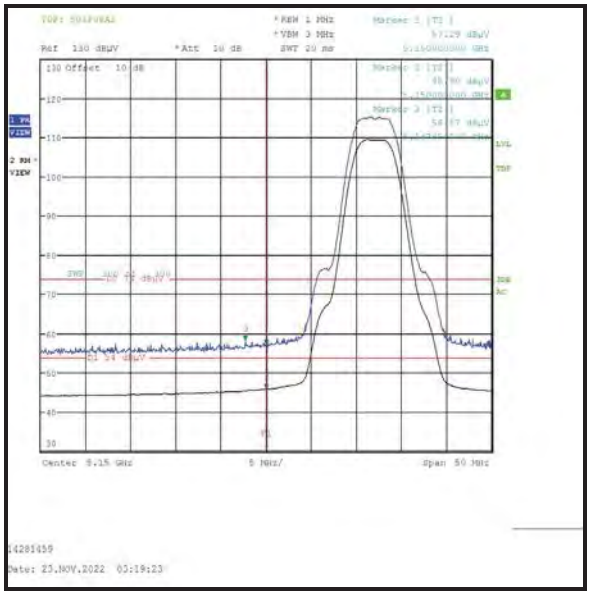
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.3	74.0	18.7	Complied
5380.360	57.3	74.0	16.7	Complied

Results: Lower Band Edge / Average

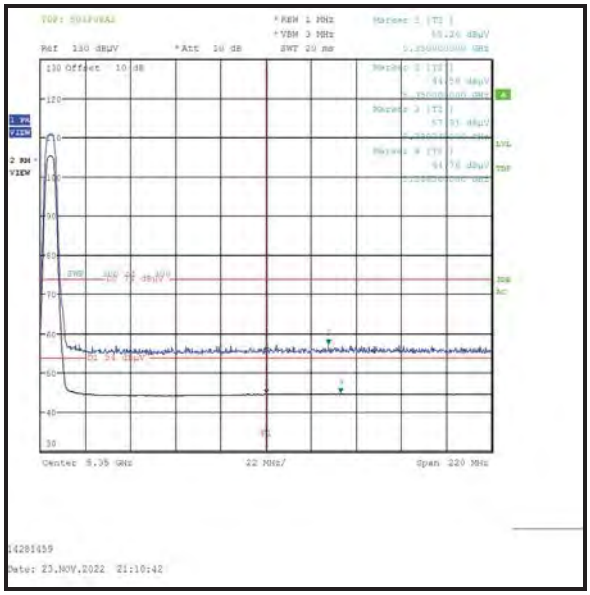
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	45.9	54.0	8.1	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.6	54.0	9.4	Complied
5386.300	44.8	54.0	9.2	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / DH5 / SISO / Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5127.600	56.3	74.0	17.7	Complied
5150	54.7	74.0	19.3	Complied

Results: Upper Band Edge / Peak

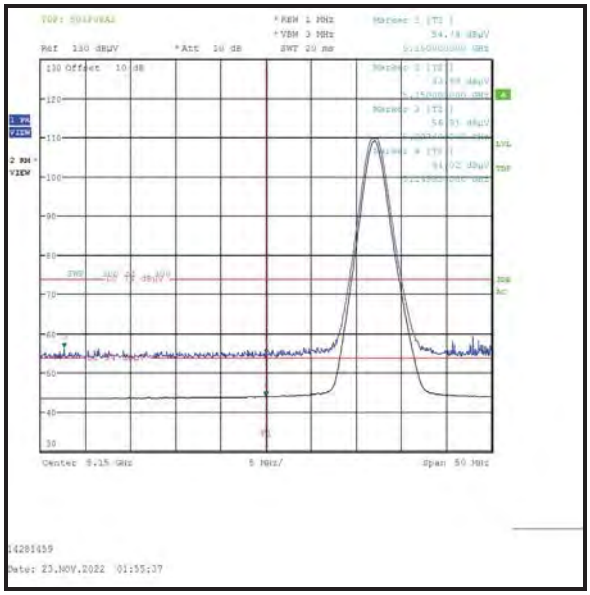
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.2	74.0	18.8	Complied
5428.760	56.9	74.0	17.1	Complied

Results: Lower Band Edge / Average

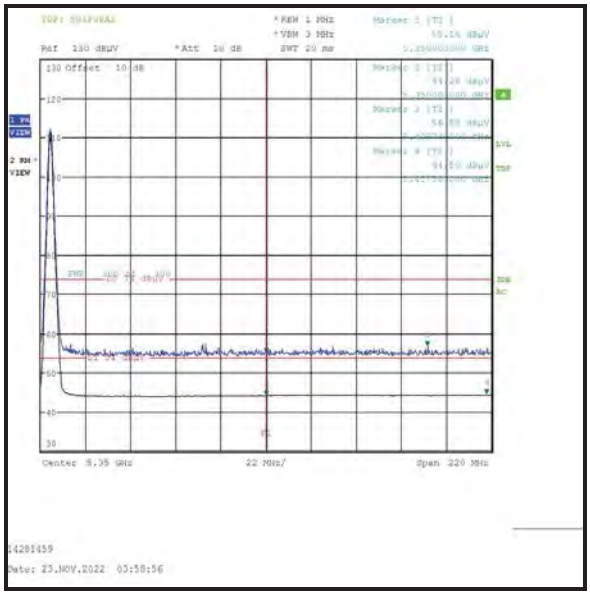
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	44.0	54.0	10.0	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.3	54.0	9.7	Complied
5457.580	44.5	54.0	9.5	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / SISO / Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5140.850	56.2	74.0	17.8	Complied
5150	54.5	74.0	19.5	Complied

Results: Upper Band Edge / Peak

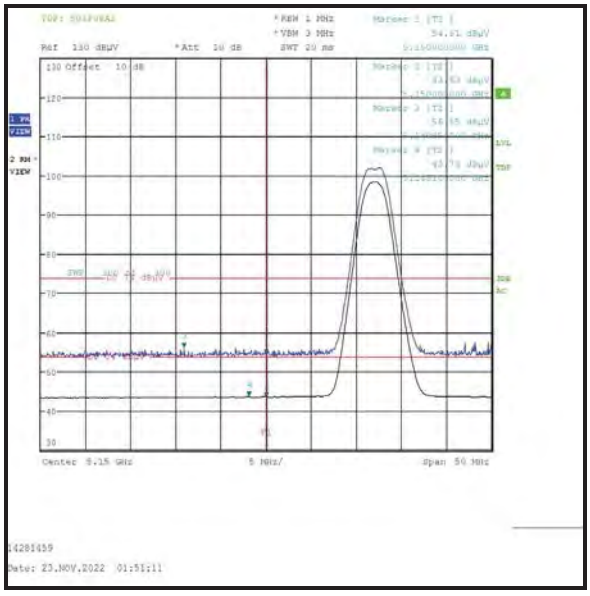
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.8	74.0	18.2	Complied

Results: Lower Band Edge / Average

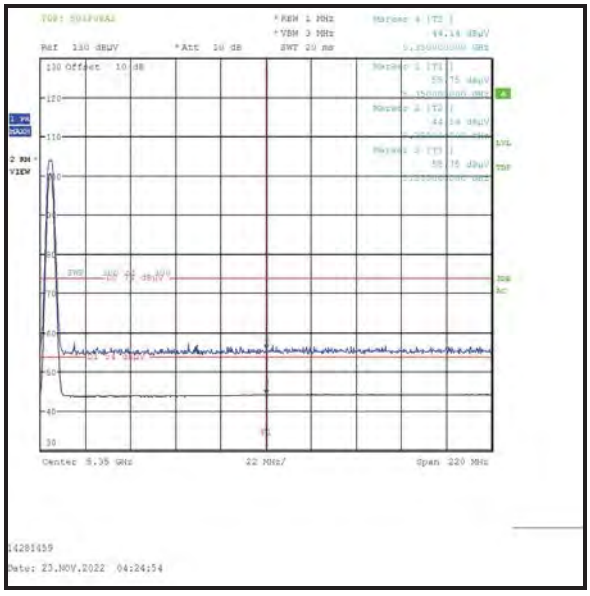
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5148.100	43.7	54.0	10.3	Complied
5150	43.6	54.0	10.4	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.1	54.0	9.9	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / SISO / Core 1 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5146.550	56.7	74.0	17.3	Complied
5150	55.7	74.0	18.3	Complied

Results: Upper Band Edge / Peak

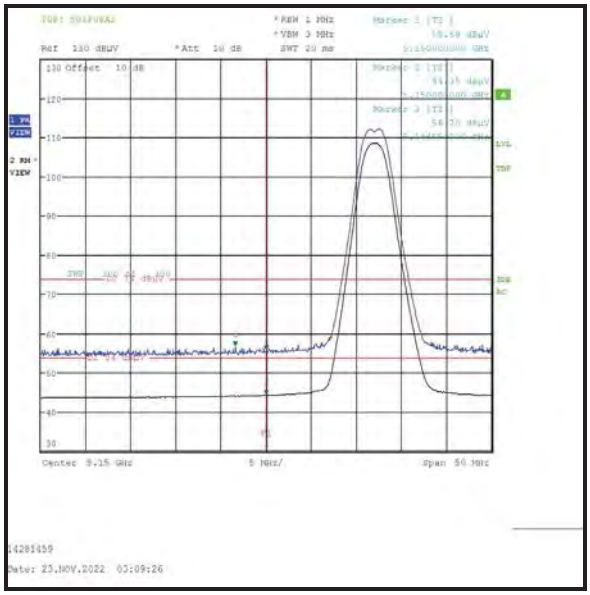
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.7	74.0	18.3	Complied
5456.040	57.7	74.0	16.3	Complied

Results: Lower Band Edge / Average

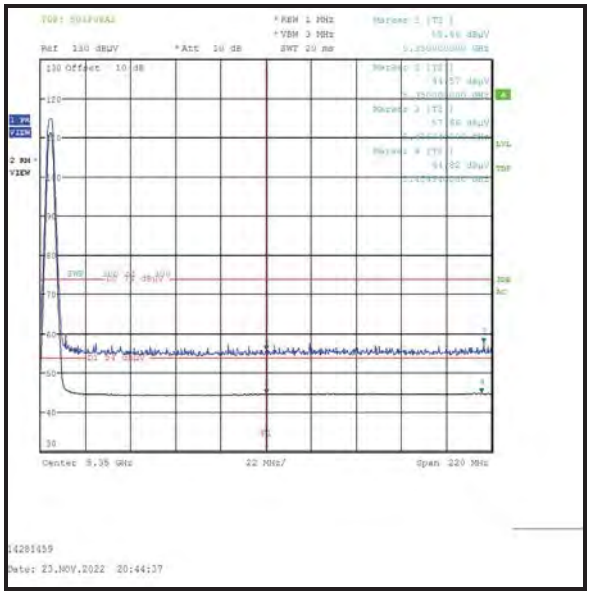
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	44.4	54.0	9.6	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.6	54.0	9.4	Complied
5454.940	44.8	54.0	9.2	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / SISO / Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5147.800	56.4	74.0	17.6	Complied
5150	55.7	74.0	18.3	Complied

Results: Upper Band Edge / Peak

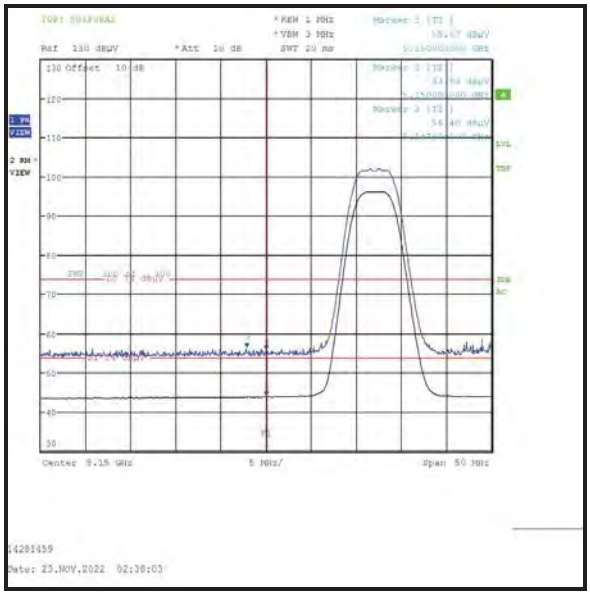
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.5	74.0	18.5	Complied
5410.500	57.1	74.0	16.9	Complied

Results: Lower Band Edge / Average

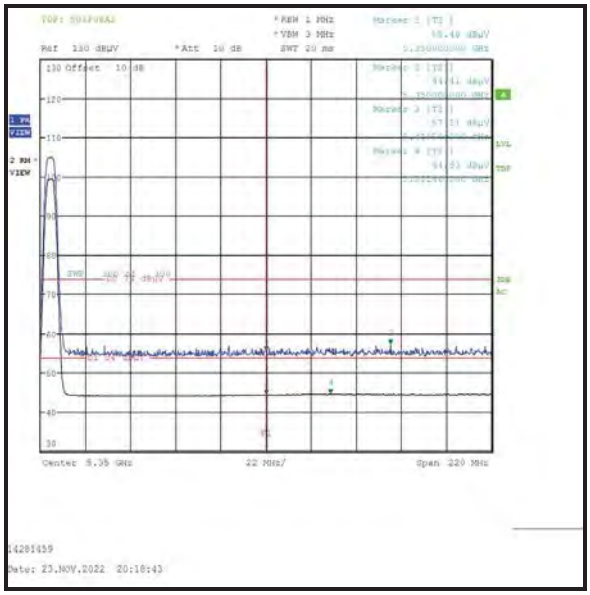
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	43.9	54.0	10.1	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.4	54.0	9.6	Complied
5381.460	44.6	54.0	9.4	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / SISO / Core 1 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5148.450	57.2	74.0	16.8	Complied
5150	55.8	74.0	18.2	Complied

Results: Upper Band Edge / Peak

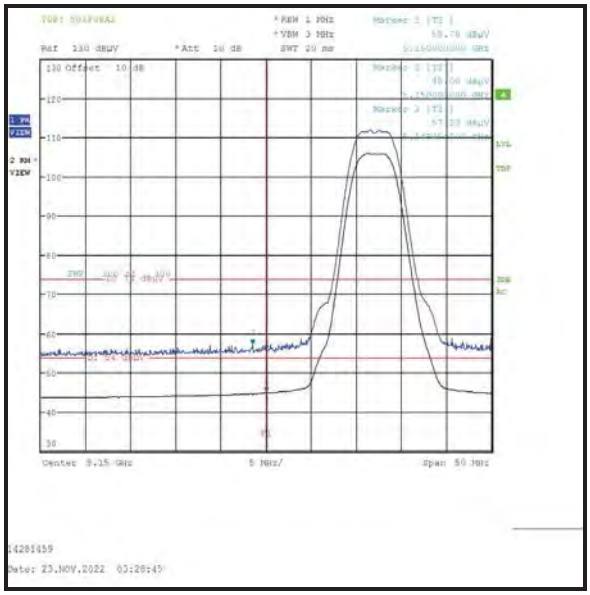
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.3	74.0	18.7	Complied
5394.440	57.1	74.0	16.9	Complied

Results: Lower Band Edge / Average

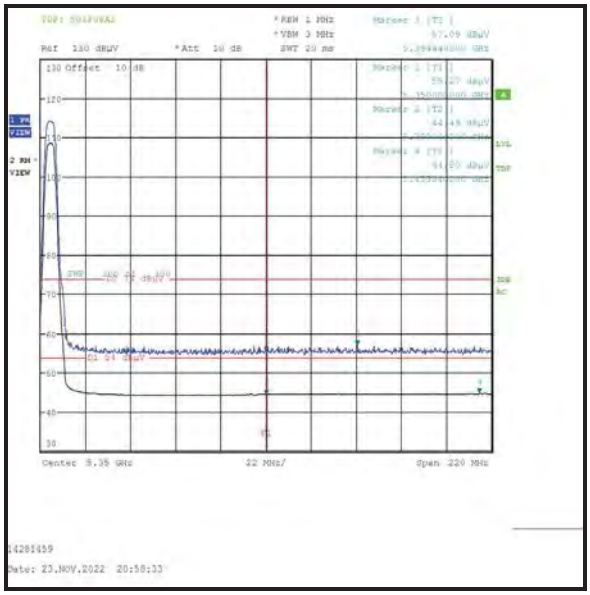
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	45.0	54.0	9.0	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.5	54.0	9.5	Complied
5453.840	44.8	54.0	9.2	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / DH5 / Beamforming / Core 0 + Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5149.000	57.3	74.0	16.7	Complied
5150	56.1	74.0	17.9	Complied

Results: Upper Band Edge / Peak

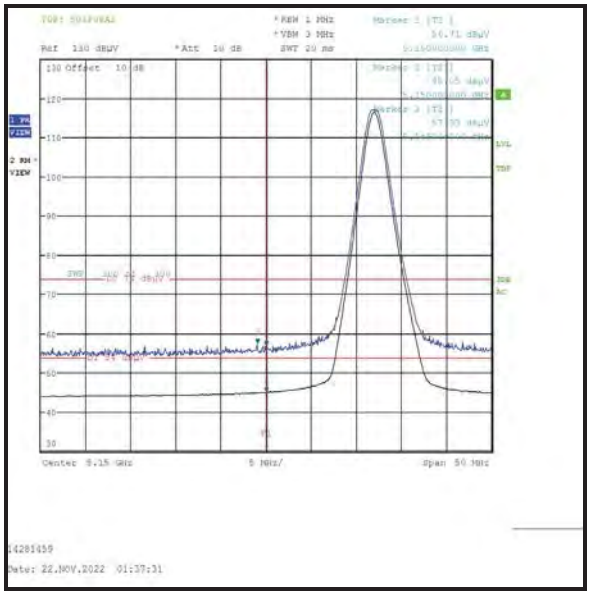
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	56.2	74.0	17.8	Complied
5373.540	57.5	74.0	16.5	Complied

Results: Lower Band Edge / Average

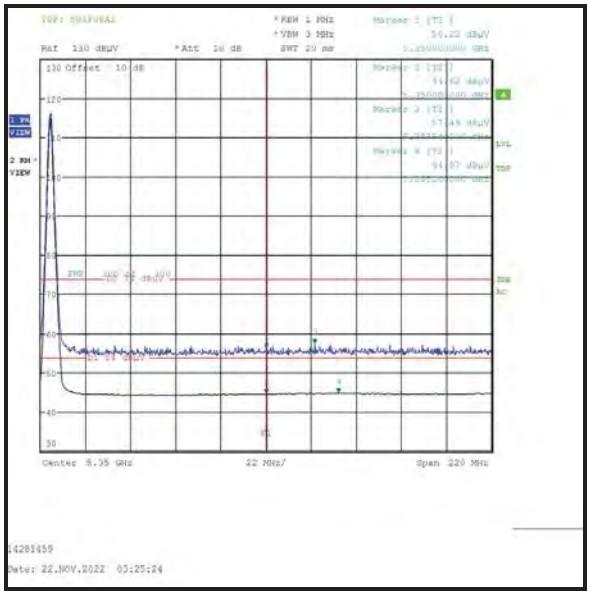
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	45.1	54.0	8.9	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.6	54.0	9.4	Complied
5385.200	44.9	54.0	9.1	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / Beamforming / Core 0 + Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5146.650	57.3	74.0	16.7	Complied
5150	55.3	74.0	18.7	Complied

Results: Upper Band Edge / Peak

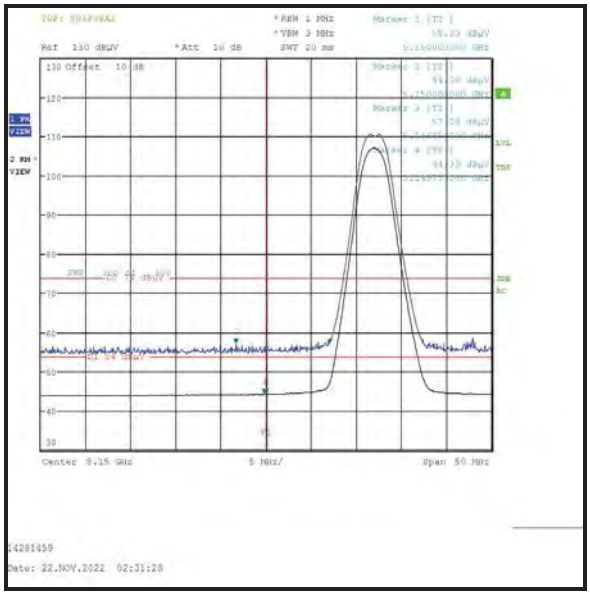
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	54.8	74.0	19.2	Complied
5373.980	56.9	74.0	17.1	Complied

Results: Lower Band Edge / Average

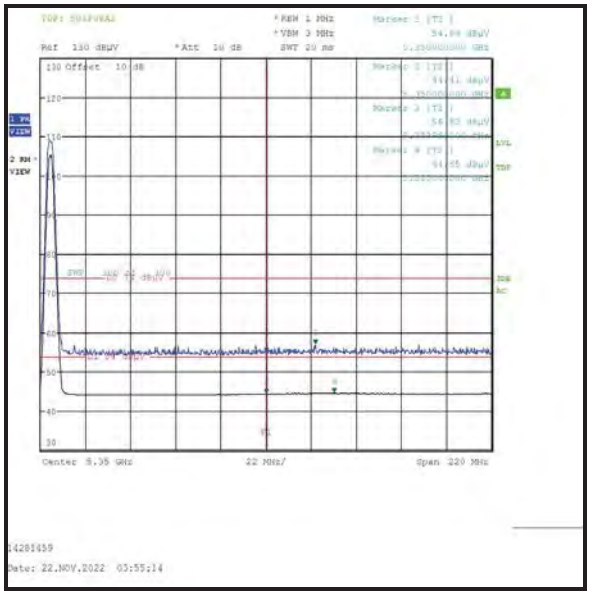
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5149.750	44.4	54.0	9.6	Complied
5150	44.3	54.0	9.7	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.4	54.0	9.6	Complied
5383.000	44.7	54.0	9.3	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5147.600	58.6	74.0	15.4	Complied
5150	57.3	74.0	16.7	Complied

Results: Upper Band Edge / Peak

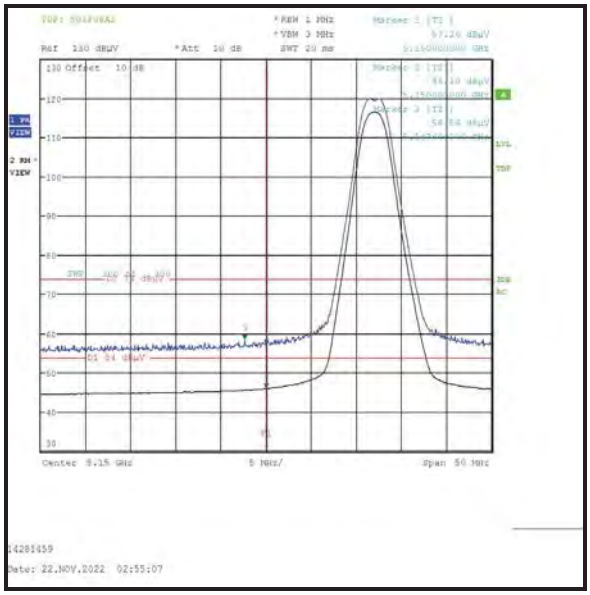
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.9	74.0	18.1	Complied
5403.680	57.8	74.0	16.2	Complied

Results: Lower Band Edge / Average

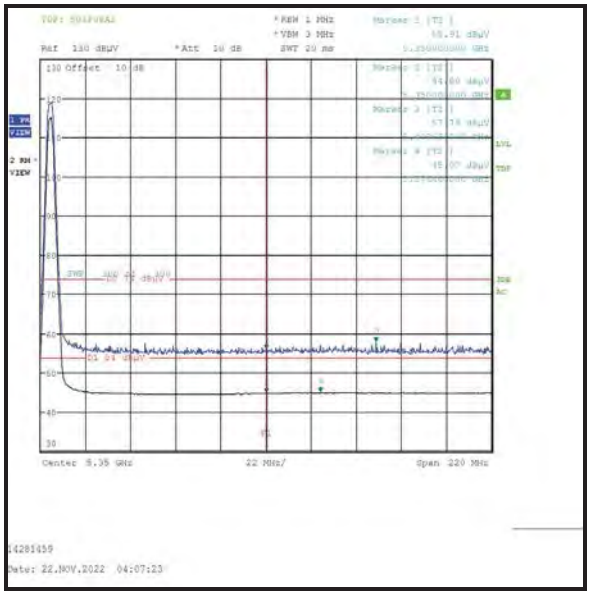
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	46.1	54.0	7.9	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.8	54.0	9.2	Complied
5376.400	45.1	54.0	8.9	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5129.150	57.1	74.0	16.9	Complied
5150	55.6	74.0	18.4	Complied

Results: Upper Band Edge / Peak

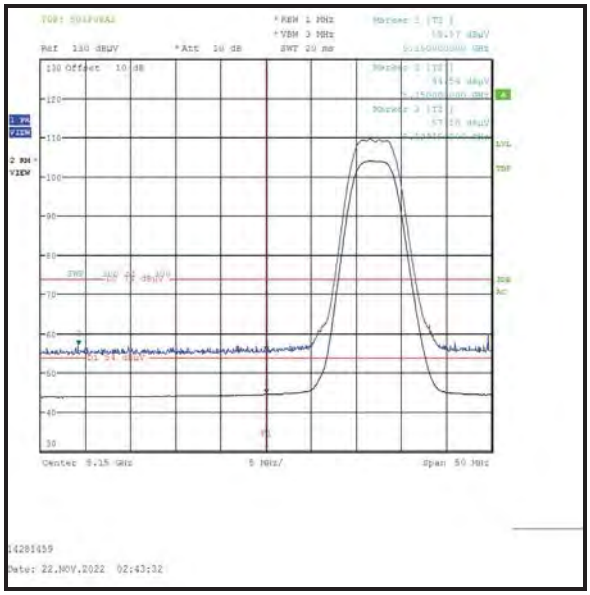
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	55.0	74.0	19.0	Complied
5428.760	57.2	74.0	16.8	Complied

Results: Lower Band Edge / Average

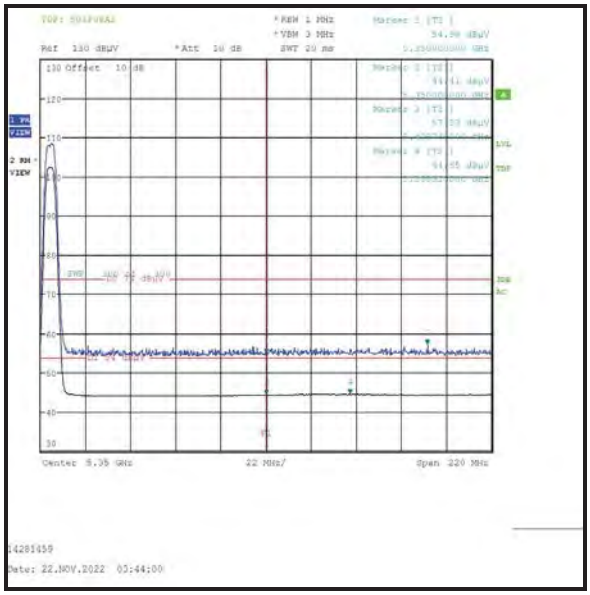
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	44.5	54.0	9.5	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.4	54.0	9.6	Complied
5390.920	44.7	54.0	9.3	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Static / 8DH5 / Beamforming / Core 0 + Core 1 / ePA

Results: Lower Band Edge / Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5149.750	59.7	74.0	14.3	Complied
5150	58.6	74.0	15.4	Complied

Results: Upper Band Edge / Peak

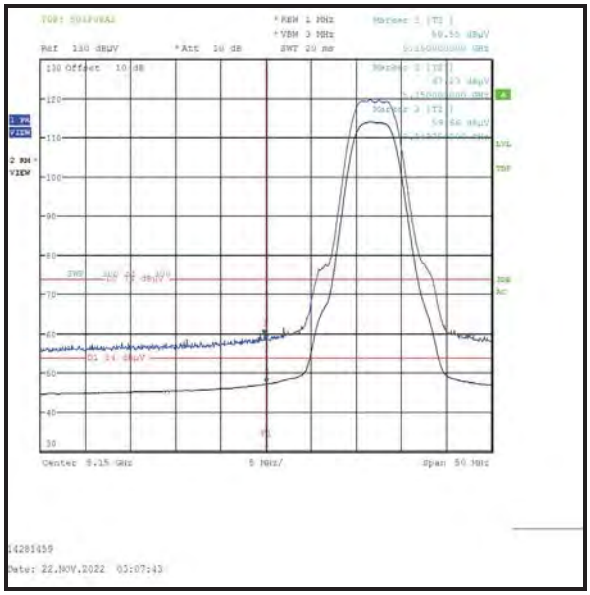
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	56.1	74.0	17.9	Complied
5438.220	57.5	74.0	16.5	Complied

Results: Lower Band Edge / Average

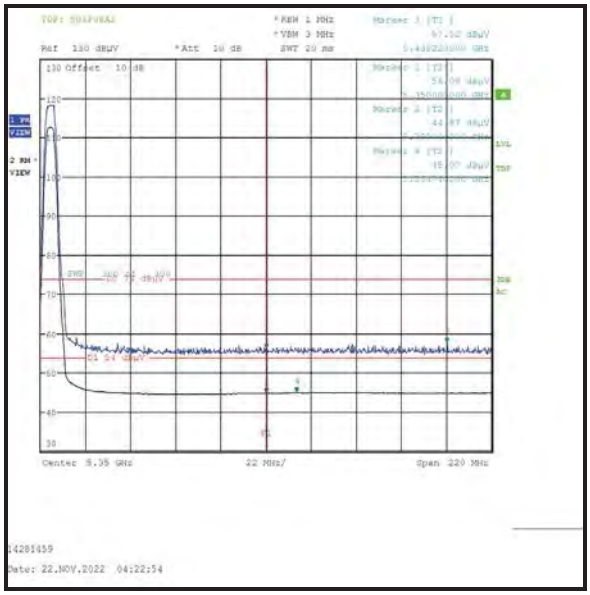
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5150	47.2	54.0	6.8	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5350	44.9	54.0	9.1	Complied
5364.740	45.1	54.0	8.9	Complied



Lower Band Edge



Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band)

5.3.2 5.725-5.85 GHz band

Test Summary:

Test Engineers:	Nick Steele & Vi Van	**Test Dates:**	22 November 2022 to 24 November 2022
Test Sample Serial Number:	HP4WQ0NY7K		

FCC Reference:	Parts 15.407(b)(4)(i),(10), 15.205 & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

Environmental Conditions:

Temperature (°C):	22 to 23
Relative Humidity (%):	43 to 44

Note(s):

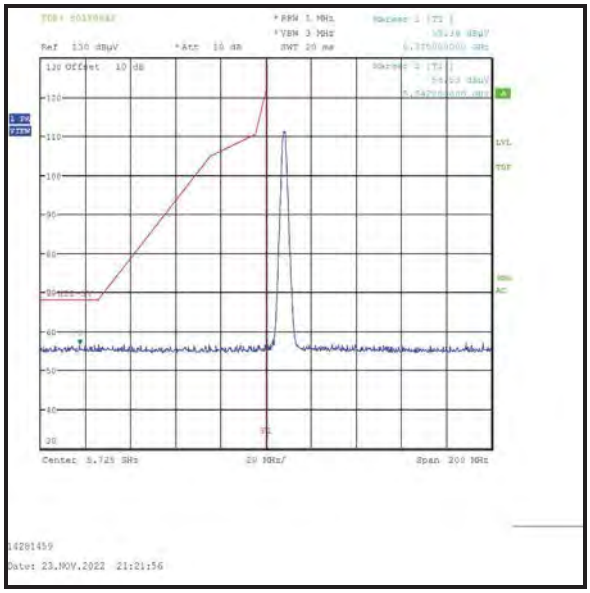
1. Lower band edge measurements were performed with the EUT transmitting on the bottom channel. Upper band edge measurements were performed with the EUT transmitting on the top channel.
2. In addition, the lower and upper band edges were performed with the EUT configured in hopping mode. It was set to hop across the 79 channels closest to the applicable band edge. These plots are archived on the UL IT server and available for inspection if required.
3. For completeness, results are also shown as EIRP in dBm and also as field strength in dBµV/m. Measured field strength was converted to EIRP in accordance with KDB 789033 G.2.c)(iii) using a conversion factor of 95.2.

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

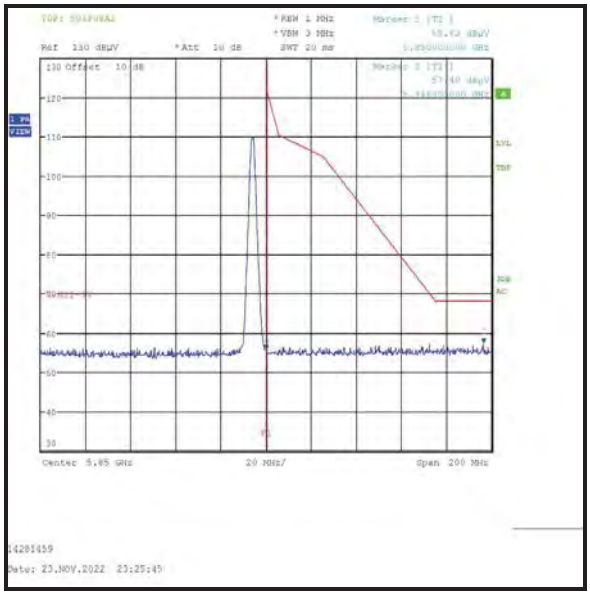
Results: Static / DH5 / SISO / Core 0 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5642.200	-38.7	-27.0	11.7	Complied
5725	-39.8	27.0	66.8	Complied
5850	-39.6	27.0	66.6	Complied
5946.400	-37.8	-27.0	10.8	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5642.200	56.5	68.2	11.7	Complied
5725	55.4	122.2	66.8	Complied
5850	55.6	122.2	66.6	Complied
5946.400	57.4	68.2	10.8	Complied



Lower Band Edge



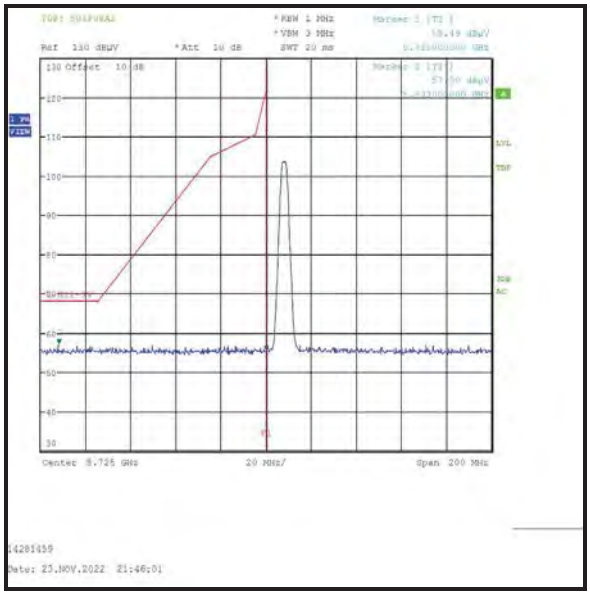
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

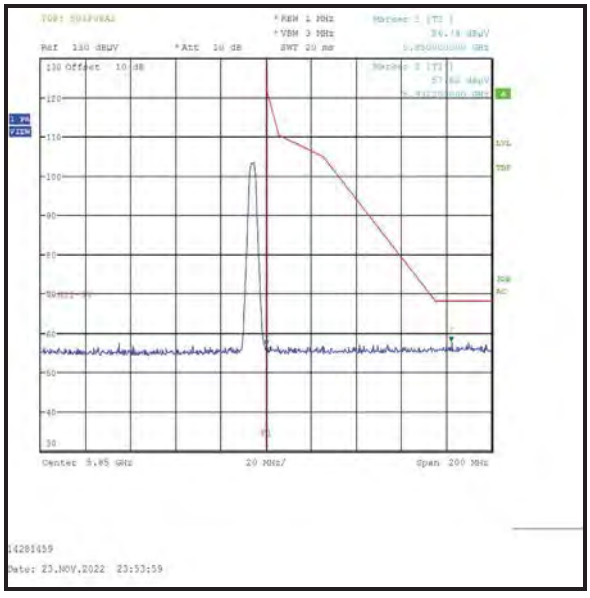
Results: Static / 4DH5 / SISO / Core 0 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5633.000	-37.9	-27.0	10.9	Complied
5725	-39.7	27.0	66.7	Complied
5850	-38.5	27.0	65.5	Complied
5932.200	-37.4	-27.0	10.4	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5633.000	57.3	68.2	10.9	Complied
5725	55.5	122.2	66.7	Complied
5850	56.7	122.2	65.5	Complied
5932.200	57.8	68.2	10.4	Complied



Lower Band Edge



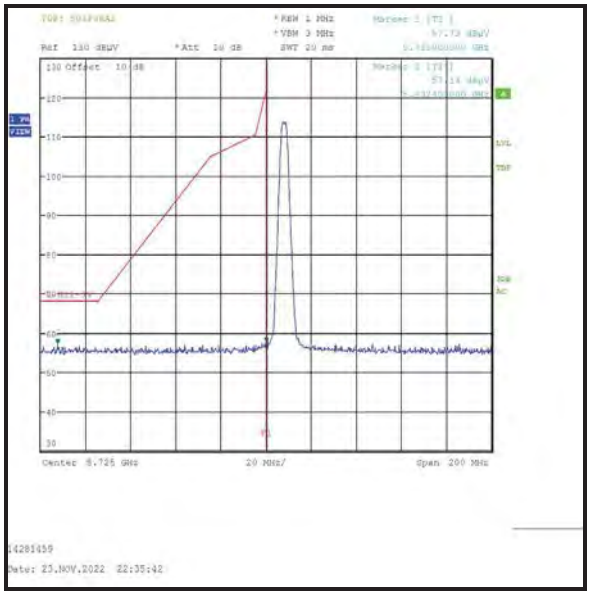
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

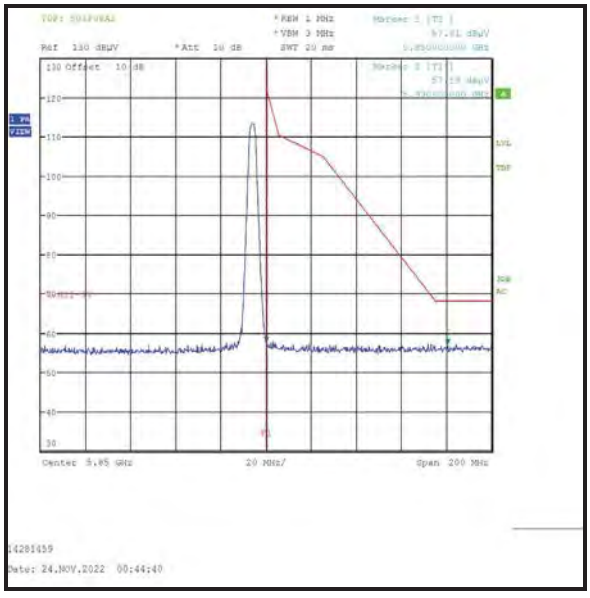
Results: Static / 4DH5 / SISO / Core 0 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5632.400	-38.1	-27.0	11.1	Complied
5725	-37.5	27.0	64.5	Complied
5850	-37.4	27.0	64.4	Complied
5930.600	-38.0	-27.0	11.0	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5632.400	57.1	68.2	11.1	Complied
5725	57.7	122.2	64.5	Complied
5850	57.8	122.2	64.4	Complied
5930.600	57.2	68.2	11.0	Complied



Lower Band Edge



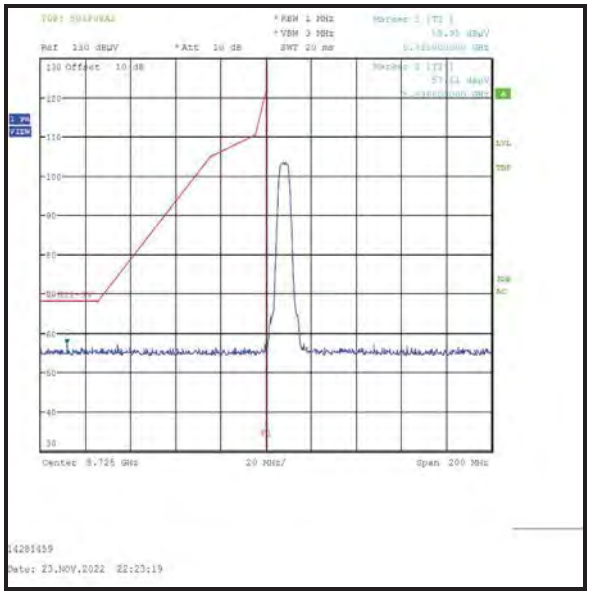
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

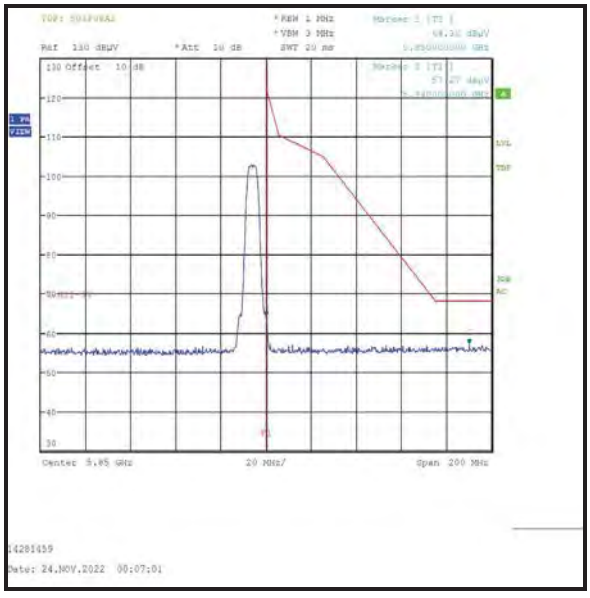
Results: Static / 8DH5 / SISO / Core 0 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5636.600	-38.1	-27.0	11.1	Complied
5725	-39.2	27.0	66.2	Complied
5850	-30.9	27.0	57.9	Complied
5940.000	-37.9	-27.0	10.9	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5636.600	57.1	68.2	11.1	Complied
5725	56.0	122.2	66.2	Complied
5850	64.3	122.2	57.9	Complied
5940.000	57.3	68.2	10.9	Complied



Lower Band Edge



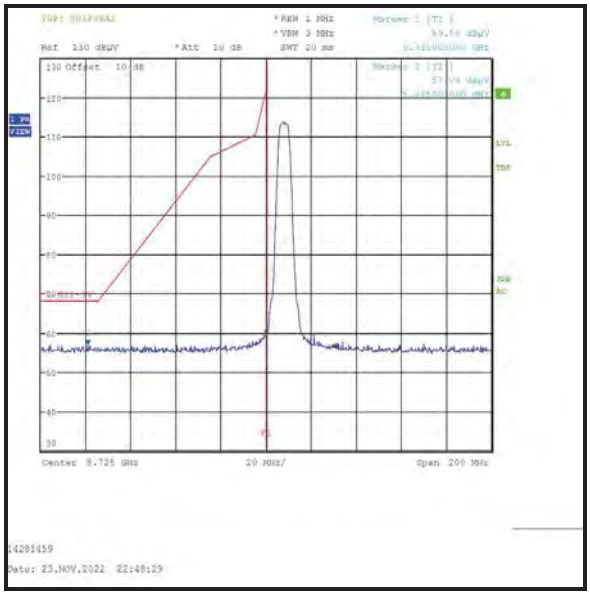
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

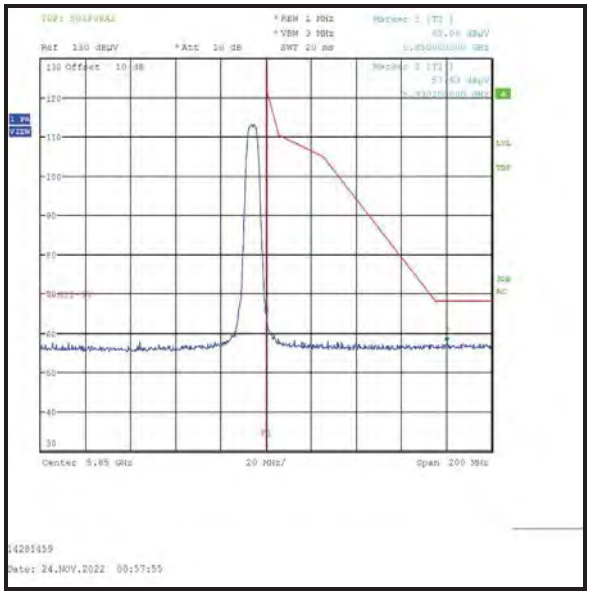
Results: Static / 8DH5 / SISO / Core 0 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5645.800	-38.2	-27.0	11.2	Complied
5725	-35.6	27.0	62.6	Complied
5850	-30.1	27.0	57.1	Complied
5930.200	-37.6	-27.0	10.6	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5645.800	57.0	68.2	11.2	Complied
5725	59.6	122.2	62.6	Complied
5850	65.1	122.2	57.1	Complied
5930.200	57.6	68.2	10.6	Complied



Lower Band Edge



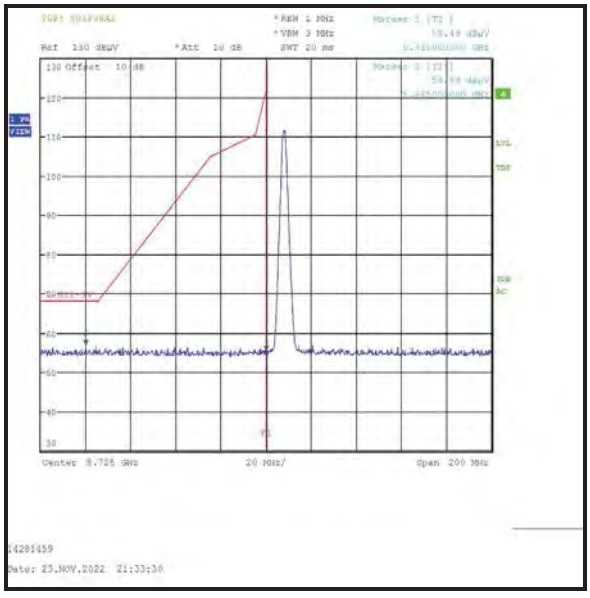
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

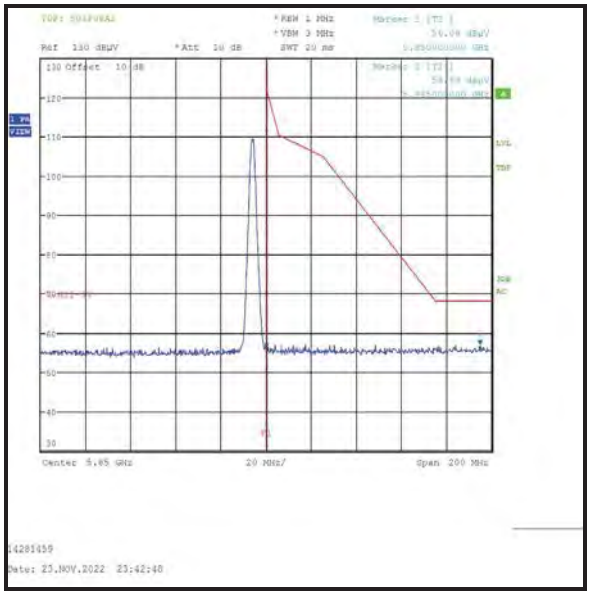
Results: Static / DH5 / SISO / Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5645.000	-38.2	-27.0	11.2	Complied
5725	-39.7	27.0	66.7	Complied
5850	-39.1	27.0	66.1	Complied
5945.000	-38.2	-27.0	11.2	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5645.000	57.0	68.2	11.2	Complied
5725	55.5	122.2	66.7	Complied
5850	56.1	122.2	66.1	Complied
5945.000	57.0	68.2	11.2	Complied



Lower Band Edge



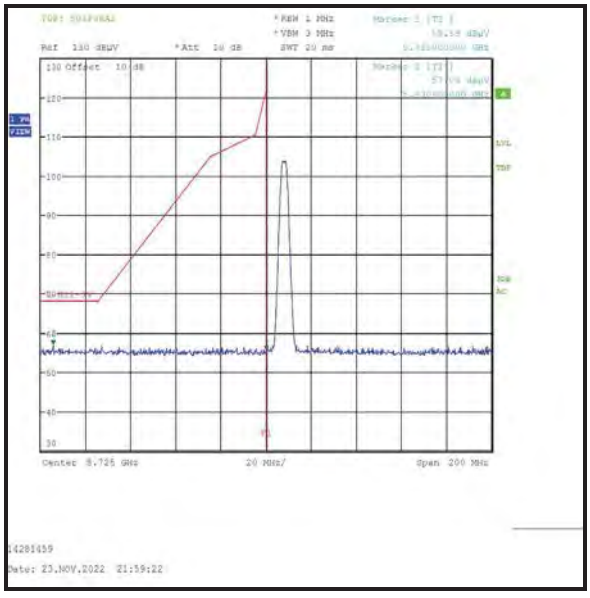
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

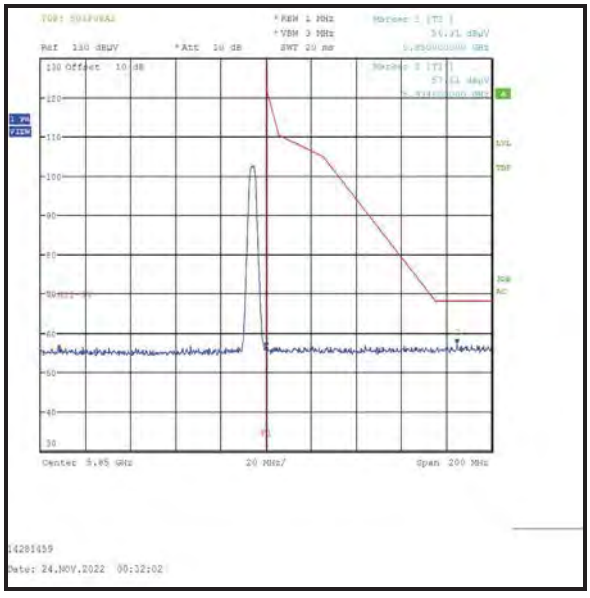
Results: Static / 4DH5 / SISO / Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5630.600	-38.2	-27.0	11.2	Complied
5725	-39.6	27.0	66.6	Complied
5850	-38.9	27.0	65.9	Complied
5934.600	-38.1	-27.0	11.1	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5630.600	57.0	68.2	11.2	Complied
5725	55.6	122.2	66.6	Complied
5850	56.3	122.2	65.9	Complied
5934.600	57.1	68.2	11.1	Complied



Lower Band Edge



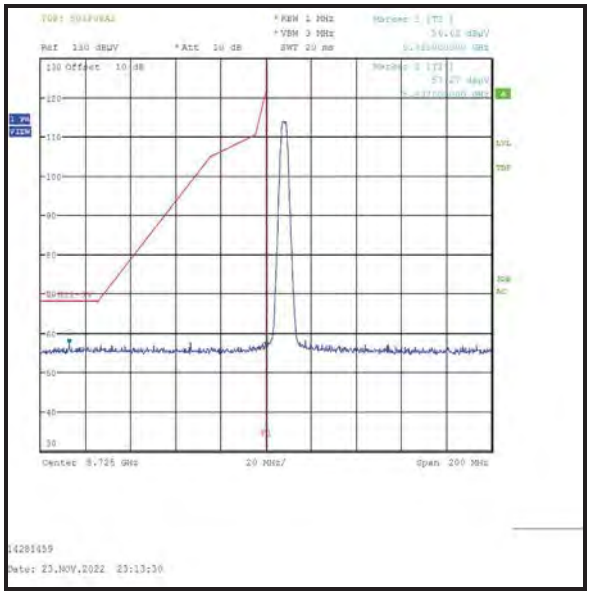
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

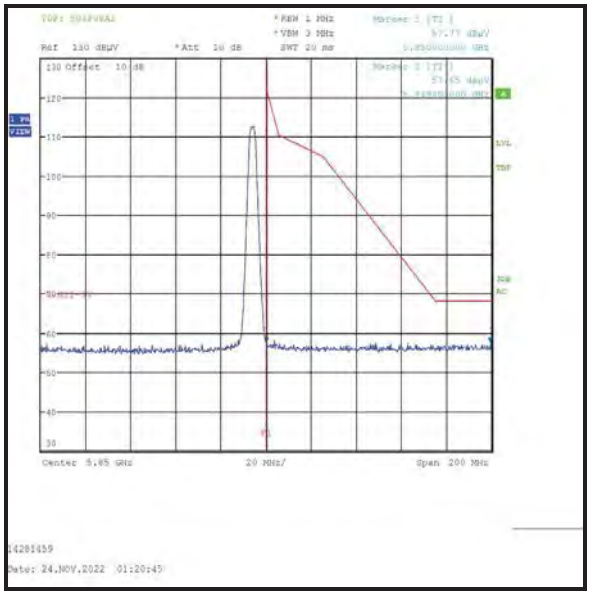
Results: Static / 4DH5 / SISO / Core 1 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5637.600	-37.9	-27.0	10.9	Complied
5725	-38.6	27.0	65.6	Complied
5850	-37.4	27.0	64.4	Complied
5949.400	-37.5	-27.0	10.5	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5637.600	57.3	68.2	10.9	Complied
5725	56.6	122.2	65.6	Complied
5850	57.8	122.2	64.4	Complied
5949.400	57.7	68.2	10.5	Complied



Lower Band Edge



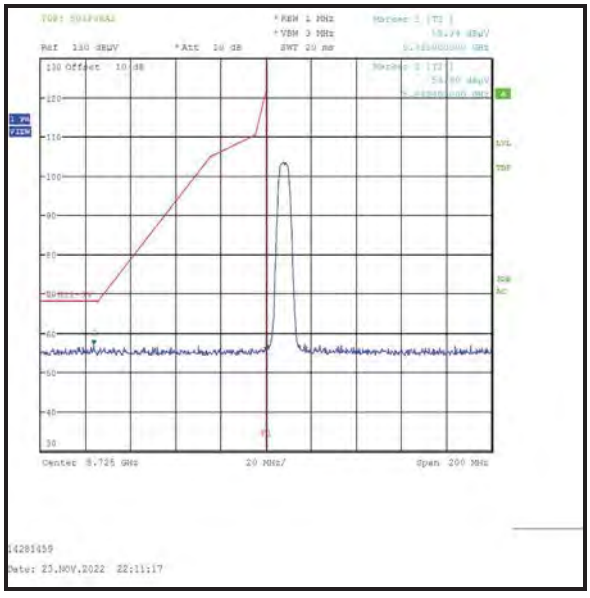
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

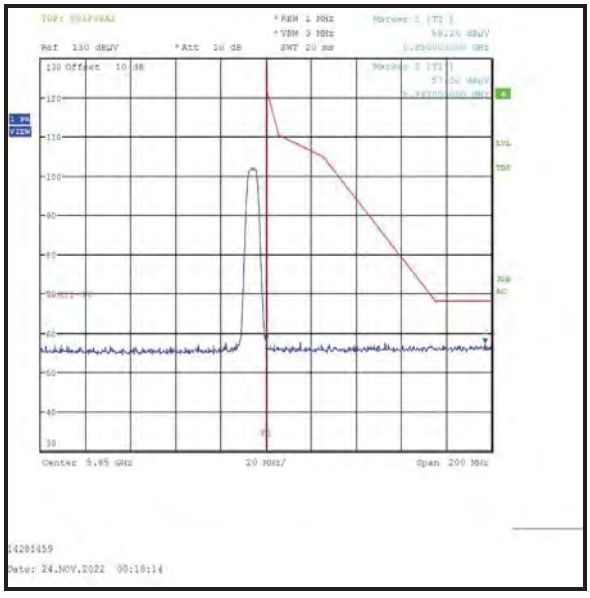
Results: Static / 8DH5 / SISO / Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5648.400	-38.3	-27.0	11.3	Complied
5725	-39.9	27.0	66.9	Complied
5850	-36.9	27.0	63.9	Complied
5947.000	-37.9	-27.0	10.9	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5648.400	56.9	68.2	11.3	Complied
5725	55.3	122.2	66.9	Complied
5850	58.3	122.2	63.9	Complied
5947.000	57.3	68.2	10.9	Complied



Lower Band Edge



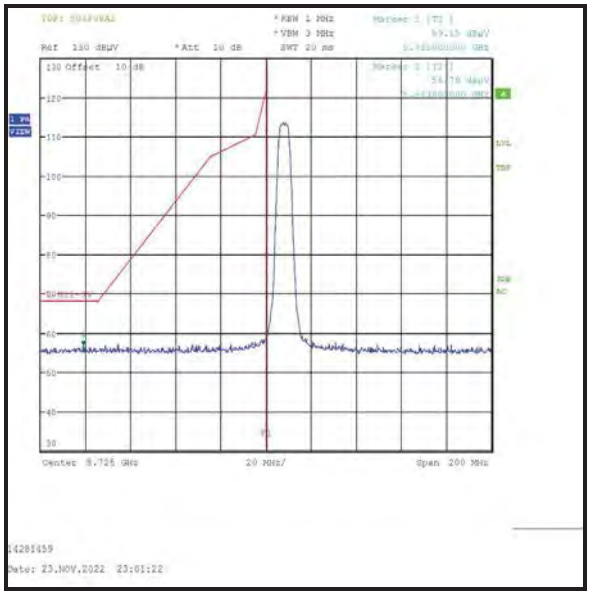
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

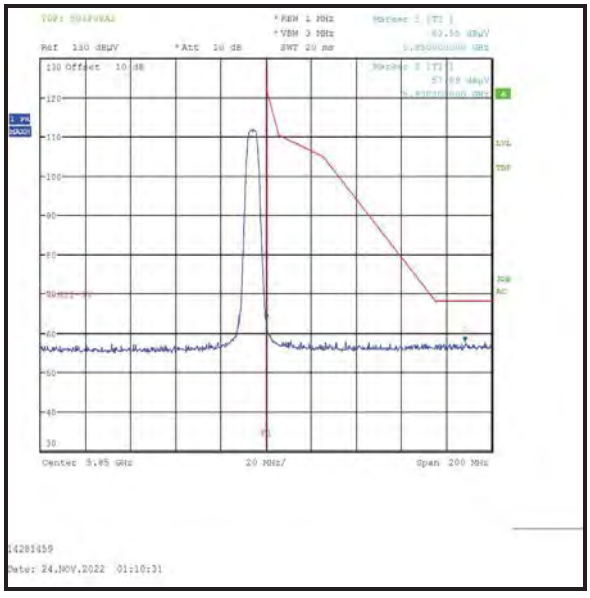
Results: Static / 8DH5 / SISO / Core 1 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5643.800	-38.4	-27.0	11.4	Complied
5725	-36.0	27.0	63.0	Complied
5850	-31.6	27.0	58.6	Complied
5938.200	-37.3	-27.0	10.3	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5643.800	56.8	68.2	11.4	Complied
5725	59.2	122.2	63.0	Complied
5850	63.6	122.2	58.6	Complied
5938.200	57.9	68.2	10.3	Complied



Lower Band Edge



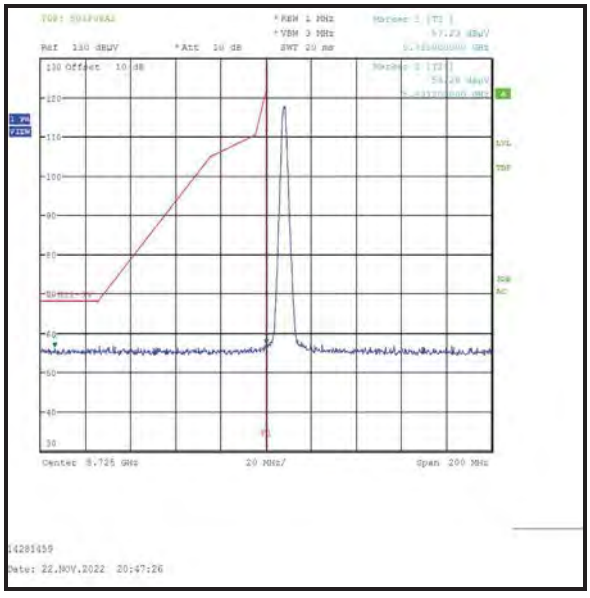
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

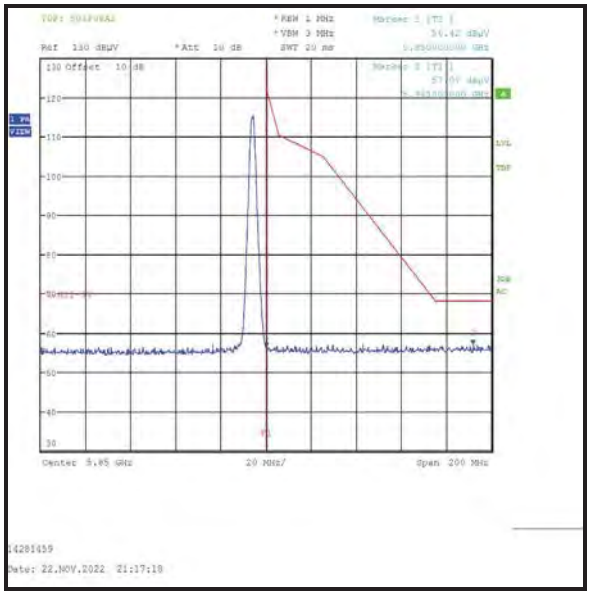
Results: Static / DH5 / Beamforming / Core 0 + Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5631.200	-38.9	-27.0	11.9	Complied
5725	-38.0	27.0	65.0	Complied
5850	-38.8	27.0	65.8	Complied
5941.800	-38.1	-27.0	11.1	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5631.200	56.3	68.2	11.9	Complied
5725	57.2	122.2	65.0	Complied
5850	56.4	122.2	65.8	Complied
5941.800	57.1	68.2	11.1	Complied



Lower Band Edge



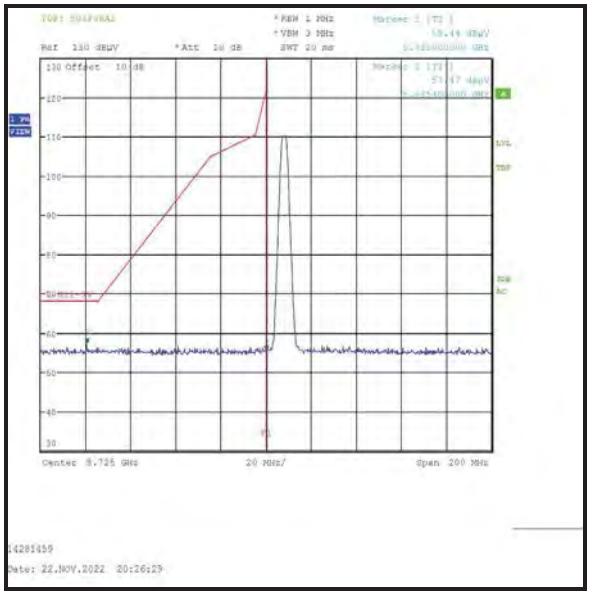
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

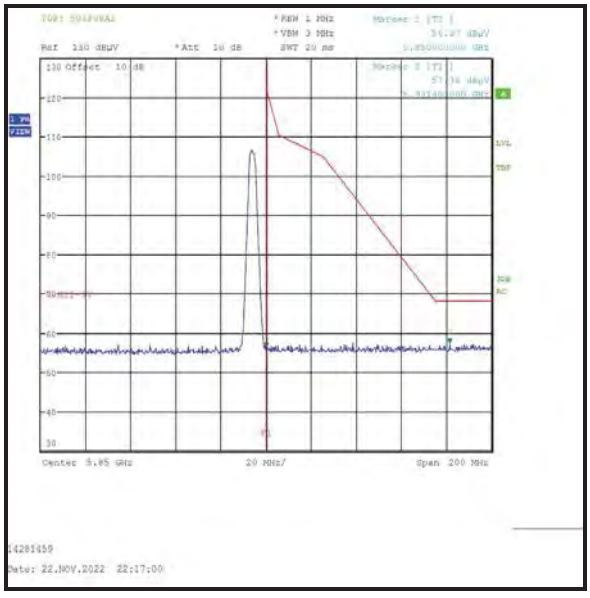
Results: Static / 4DH5 / Beamforming Core 0 + Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5645.400	-37.7	-27.0	10.7	Complied
5725	-39.8	27.0	66.8	Complied
5850	-38.8	27.0	65.8	Complied
5931.400	-37.9	-27.0	10.9	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5645.400	57.5	68.2	10.7	Complied
5725	55.4	122.2	66.8	Complied
5850	56.4	122.2	65.8	Complied
5931.400	57.3	68.2	10.9	Complied



Lower Band Edge



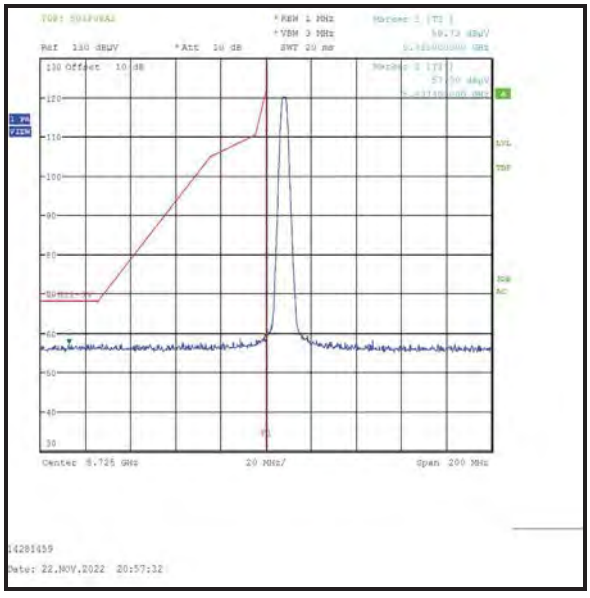
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

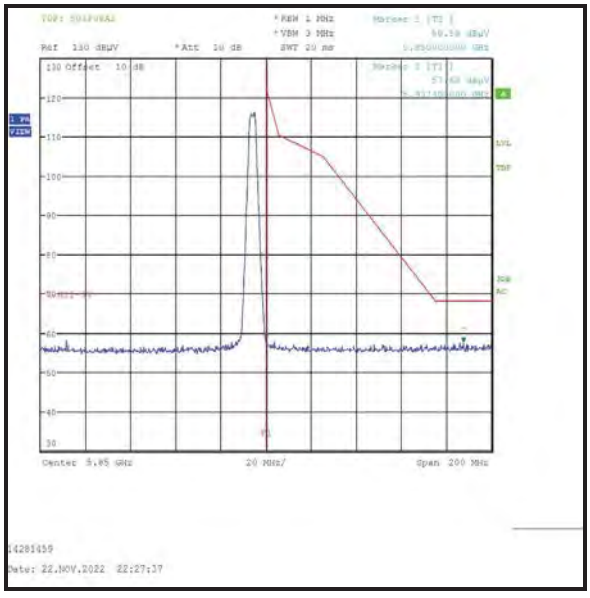
Results: Static / 4DH5 / Beamforming / Core 0 + Core 1 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5637.400	-37.9	-27.0	10.9	Complied
5725	-36.5	27.0	63.5	Complied
5850	-36.6	27.0	63.6	Complied
5937.400	-37.5	-27.0	10.5	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5637.400	57.3	68.2	10.9	Complied
5725	58.7	122.2	63.5	Complied
5850	58.6	122.2	63.6	Complied
5937.400	57.7	68.2	10.5	Complied



Lower Band Edge



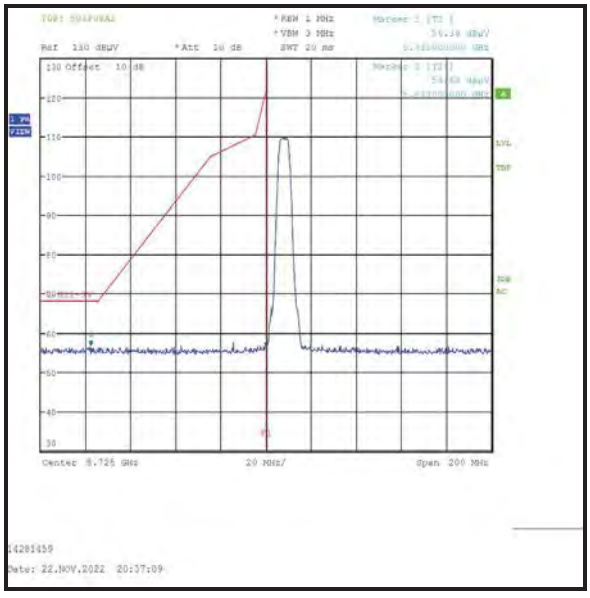
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

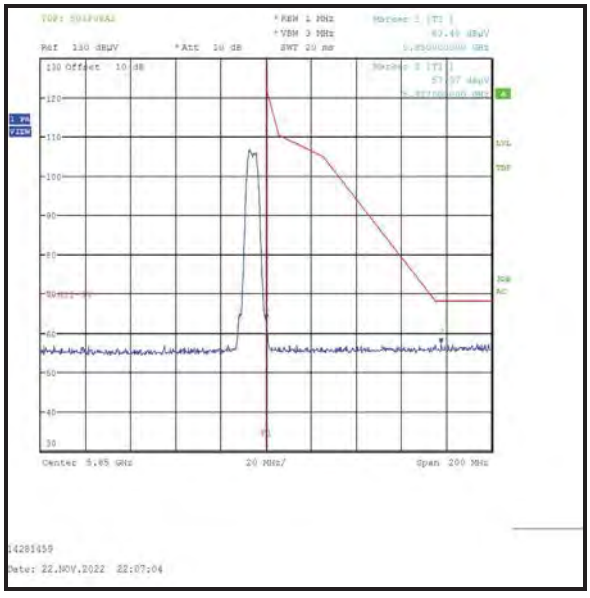
Results: Static / 8DH5 / Beamforming / Core 0 + Core 1 / iPA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5647.000	-38.5	-27.0	11.5	Complied
5725	-38.8	27.0	65.8	Complied
5850	-31.7	27.0	58.7	Complied
5927.600	-37.8	-27.0	10.8	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5647.000	56.7	68.2	11.5	Complied
5725	56.4	122.2	65.8	Complied
5850	63.5	122.2	58.7	Complied
5927.600	57.4	68.2	10.8	Complied



Lower Band Edge



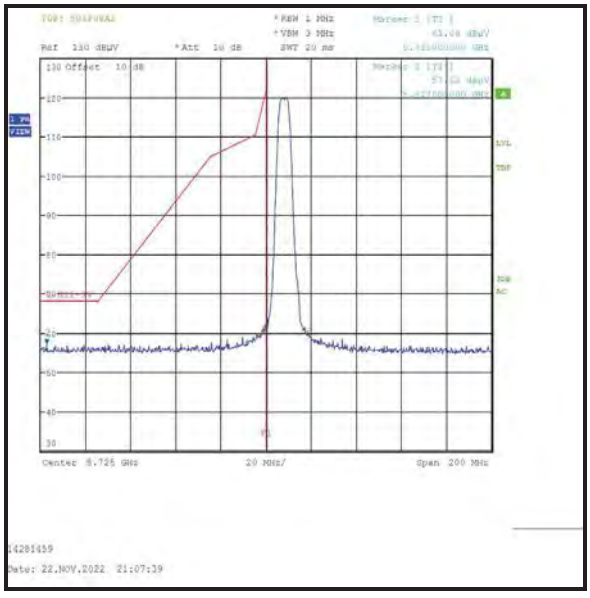
Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)

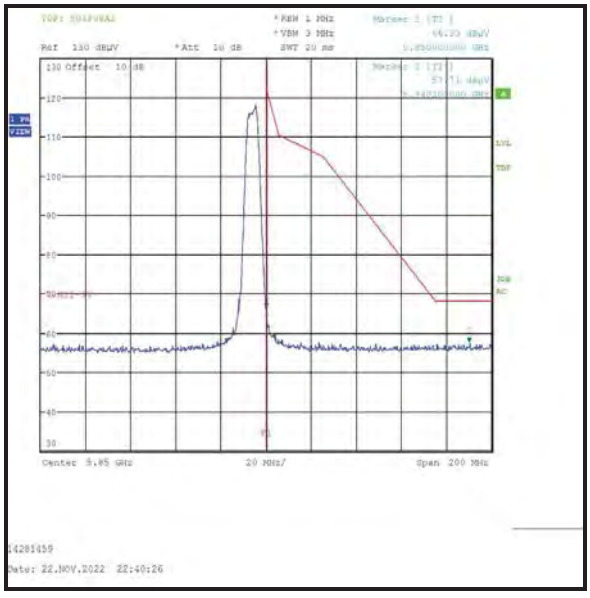
Results: Static / 8DH5 / Beamforming Core 0 + Core 1 / ePA

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5627.600	-38.1	-27.0	11.1	Complied
5725	-34.1	27.0	61.1	Complied
5850	-28.9	27.0	55.9	Complied
5940.200	-37.5	-27.0	10.5	Complied

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
5627.600	57.1	68.2	11.1	Complied
5725	61.1	122.2	61.1	Complied
5850	66.3	122.2	55.9	Complied
5940.200	57.7	68.2	10.5	Complied



Lower Band Edge



Upper Band Edge

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