

PARTIAL TEST REPORT

EUT Description	2x2 Wi-Fi and BT, M.2 1216 adapter card
Brand Name	Intel® BE200D2W
Model Name	BE200D2W
FCC ID / IC ID	PD9BE200D2 ; 1000M-BE200D2
Date of Test Start/End	2023-10-30 / 2023-11-02
Features	2x2 Wi-Fi - IEEE 802.11be - Bluetooth® (see section 5)
Applicant	Intel Corporation SAS
Address	425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE
Contact Person	Benjamin Lavenant
Telephone/Fax/ Email	Benjamin.lavenant@intel.com
Reference Standards	FCC CFR Title 47 Part 15 E RSS-248 issue 2, RSS-Gen issue 5 - A1 (see section 1)
Test Report identification	230526-08.TR109
Revision Control	Rev. 00 This test report revision replaces any previous test report revision (see section 8)

The test results relate only to the samples tested.
Reference to accreditation shall be used only by full reproduction of test report.

Issued by

Reviewed by

Cedric REQUIN
(Test Engineer Lead)

Zayd OUACHICHA
(Technical Manager)

Intel Corporation S.A.S – WRF Lab
425 rue de Goa – Le Cargo B6 - 06600, Antibes, France
Tel. +33493001400 / Fax +33493001401

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1. Standards, reference documents and applicable test methods

FCC	1. FCC Title 47 eCFR part 15 – Subpart E - Unlicensed National Information Infrastructure Devices. 2021-10-01 edition 2. FCC OET KDB 987594 D01 U-NII 6GHz General Requirements v01r02 3. FCC OET KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01 4. FCC OET KDB 987594 D03 U-NII 6 GHz QA v01 5. FCC OET KDB 987594 D04 UN6GHZ Pre-Approval Guidance Checklist v01 6. FCC OET KDB 789033 D02 v02r01 - General U-NII Test Procedures New Rules – Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices. 7. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band. 8. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
ISED	1. RSS-248 Issue 2 - Radio Local Area Network (RLAN) Devices operating in the 5925-7125 MHz band. 2. RSS-Gen Issue 5 Amendment 1 - General Requirements for Compliance of Radio Apparatus. 3. FCC OET KDB 987594 D01 U-NII 6GHz General Requirements v01r02 4. FCC OET KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01 5. FCC OET KDB 987594 D03 U-NII 6 GHz QA v01 6. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED #1000Y and CAB identifier FR0005.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	23.4±0.6 °C
Humidity	47.1±2.7 %

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	230724-02.S30	WiFi 7 Module	BE200D2W	04E8B963B6FE	2023-07-25	Used for RF conducted tests
	200203-01.S10	Laptop	HP (HSN-I38C)	000951007L	2020-02-04	
	230526-08.S67	GaP FmP MB Extender Board	PCB00887-00_A	2202207572	2023-06-22	
	230526-08.S68	GaP FmP CRF DB 2230 BNJ Extender Board	PCB00862-00_A	2202111228	2023-06-22	

5. EUT Features

The herein information is provided by the customer

Intel WRF Lab declines any responsibility for the accuracy of the stated customer provided information, especially if it has any impact on the correctness of test results presented in this report.

Brand Name	Intel® BE200D2W		
Model Name	BE200D2W		
Software Version	99.0.84.3		
Driver Version	Version DRTU.05236.99.0.84		
Prototype / Production	Production		
Supported Radios	802.11b/g/n/ax/be 2.4GHz (2400.0 – 2483.5 MHz) 802.11a/n/ac/ax/be 5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 6.0GHz (5925.0 - 7125.0MHz) Bluetooth 2.4GHz (2400.0 – 2483.5 MHz)		
Antenna Information	Transmitter	Aux(2)/Chain A	Main(1)/Chain B
	Manufacturer	Intel WRF Lab	Intel WRF Lab
	Antenna type	PIFA	PIFA
	Part number	WRF-Tri Band-Antenna	WRF-Tri Band-Antenna
	Declared Antenna peak gain (dBi)	-2	-2
Channel puncturing and bandwidth reduction	The EUT does not support channel puncturing and bandwidth reduction for incumbent avoidance		

6. Remarks and comments

1. No deviations were made from the test methods listed in section 1 of this report
2. Only the worst-case plot per channel bandwidth and test case measurements have been reported excepted for band edge measurements where all plots are reported
3. As per applicant request all test case in this report have been tested with a declared antenna gain of -2 dBi

7. Test Verdicts summary

The statement of conformity to applicable standards in the table below are based on the measured values, without taking into account the measurement uncertainties.

7.1. 802.11 ax/be – U-NII-5 to U-NII-8

FCC part	RSS clause	Test name	Verdict
15.407 (a) (10)	RSS-248 Clause 4.4	Occupied Bandwidth	P
15.407 (a) (8)	RSS-248 Clause 4.5	Maximum output power	P
15.407 (a) (8)	RSS-248 Clause 4.5	Power spectral density	P
15.407 (b) (5)	RSS-248 Clause 4.6	Undesirable emissions limits: out of band (conducted)	P
15.407 (b) (6)	RSS-248 Clause 4.6	In-Band Emissions (Mask)	P
15.407 (d) (6)	RSS-248 Clause 4.7	Contention based protocol	NR
15.407(g)	RSS-Gen Issue 5 Amendment 1 – clause 6.11	Frequency Stability	P

P: Pass

F: Fail

NM: Not Measured

NA: Not Applicable

NR: Not Requested

8. Document Revision History

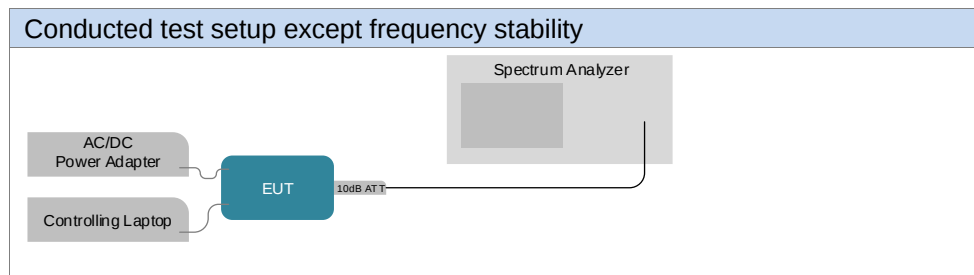
Revision #	Modified by	Revision Details
Rev. 00	Tanguy MATHIEU	First Issue

Annex A. Test & System Description

A.1 Measurement System

Measurements were performed using these following setup.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.



A.2 Test Equipment List

Conducted setup

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due
273-000	Spectrum Analyzer	FSV30	103309	Rohde & Schwarz	2023-01-02	2025-01-02
018-003	RF cable 50cm	PE360-50CM	N/A	PASTERNAK	2023-03-03	2024-03-03
018-001	10dB Attenuator + MH4	N/A	N/A	N/A	2023-03-03	2024-03-03
407-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-E16EDA	AVITECH	2023-07-12	2025-07-12
413-000	Measurement SW	Octopi v1.5.4.2	N/A	Step AT	N/A	N/A

N/A: not applicable

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of $k = 2$ to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Timing	± 0.12	%
Power Spectral density	± 1.47	dB
Frequency stability	± 53.0	ppm
Occupied bandwidth	± 2.07	%
Conducted Power	± 1.03	dB
Temperature	± 0.30	°C
Supply voltages	$< \pm 0.01$	%
Contention Based Protocol	± 1.21	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
Maximum output power	T.MATHIEU
26dB and 99% Bandwidth measurement	T.MATHIEU
Maximum power spectral density	T.MATHIEU
Undesirable emissions limits: out of band (conducted)	T.MATHIEU
In-Band Emissions Mask	T.MATHIEU

B.1 Test Conditions

For 802.11ax/be20 (20 MHz channel bandwidth), 802.11ax/be40 (40MHz channel bandwidth), 802.11ax/be80 (80MHz channel bandwidth), 802.11ax/be160 (160MHz channel bandwidth) and 802.11be320 (320MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

Transmission	Mode	Bandwidth (MHz)	Worst Case Data Rate
SISO	802.11ax/be	20	MCS0
		40	MCS0
		80	MCS0
		160	MCS0
	802.11be	320	MCS0
MIMO	802.11ax/be	20/40/80/160	MCS0
	802.11be	320	MCS0

B.2 Test Results Tables

B.2.1 26dB & 99% Bandwidth

Test limits

FCC part	RSS part	Limits
15.407 (a) (10)	RSS-248 Clause 4.4	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 26dB & 99% bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

See Annex C.1.1 for the screenshot results¹

Results tables

According to FCC guidance, the 26 dB bandwidth has been applied for all channels below 320MHz. For 320MHz, the 99% bandwidth has been used.

Max value

Maximum bandwidth value highlighted per channel bandwidth over uninterrupted UNII-5 – 8 bands

¹ Only the worst-case plots per BW and channel bandwidth were reported over uninterrupted UNII-5 – 8 bands

UNI15

Bandwidth [MHz]	Mode	Rate	Channel	Frequency [MHz]	Antenna	26dB BW [MHz]	99% BW [MHz]
20	802.11ax/be	MCS0	1	5955	SISO A	25.76	19.12
					SISO B	25.34	19.12
					MIMO A	25.00	19.08
					MIMO B	24.80	19.04
			45	6175	SISO A	25.69	19.12
					SISO B	25.48	19.00
					MIMO A	25.70	19.08
					MIMO B	25.50	19.20
			93	6415	SISO A	25.69	19.16
					SISO B	25.90	19.08
					MIMO A	24.90	19.12
					MIMO B	24.60	19.04
40	802.11ax/be	MCS0	3	5965	SISO A	43.67	38.00
					SISO B	44.33	38.00
					MIMO A	44.11	37.84
					MIMO B	43.67	38.00
			43	6165	SISO A	44.11	38.00
					SISO B	44.00	38.00
					MIMO A	44.44	37.92
					MIMO B	44.44	38.00
			91	6405	SISO A	43.56	37.84
					SISO B	43.78	37.84
					MIMO A	44.66	37.92
					MIMO B	44.88	37.92
80	802.11ax/be	MCS0	7	5985	SISO A	87.02	77.52
					SISO B	85.69	77.40
					MIMO A	85.88	77.64
					MIMO B	85.50	77.52
			39	6145	SISO A	85.69	77.64
					SISO B	85.88	77.52
					MIMO A	85.31	77.64
					MIMO B	86.45	77.64
			87	6385	SISO A	86.26	77.52
					SISO B	85.12	77.52
					MIMO A	88.35	77.52
					MIMO B	85.69	77.52
160	802.11ax/be	MCS0	15	6025	SISO A	167.30	156.75
					SISO B	167.30	157.00
					MIMO A	168.00	156.75
					MIMO B	167.20	157.00
			79	6345	SISO A	167.20	156.75
					SISO B	166.40	156.75
					MIMO A	167.50	156.75
					MIMO B	166.50	156.50
320	802.11be	MCS0	31	6105	SISO A	NA	312.32
					SISO B	NA	312.32
					MIMO A	NA	312.32
					MIMO B	NA	312.32
			95	6425	SISO A	NA	312.32
					SISO B	NA	312.32
					MIMO A	NA	312.32
					MIMO B	NA	312.96

NA : Not Applicable

UNII6

Bandwidth [MHz]	Mode & BW [MHz]	Rate	Channel	Frequency [MHz]	Antenna	26dB BW [MHz]	99% BW [MHz]
20	802.11ax/be	MCS0	97	6435	SISO A	25.55	19.12
					SISO B	25.97	19.12
					MIMO A	25.20	19.12
					MIMO B	25.30	19.08
			105	6475	SISO A	25.34	19.08
					SISO B	25.48	19.12
					MIMO A	25.25	19.08
					MIMO B	25.20	19.20
			113	6515	SISO A	25.69	19.20
					SISO B	26.04	19.04
					MIMO A	25.10	19.08
					MIMO B	24.90	19.08
40	802.11ax/be	MCS0	99	6445	SISO A	44.00	38.00
					SISO B	44.66	37.84
					MIMO A	44.11	37.84
					MIMO B	43.56	38.00
			107	6485	SISO A	43.78	37.92
					SISO B	44.55	37.84
					MIMO A	44.11	37.92
					MIMO B	44.33	37.92
80	802.11ax/be	MCS0	103	6465	SISO A	86.83	77.52
					SISO B	86.64	77.52
					MIMO A	87.02	77.52
					MIMO B	87.02	77.64
			119	6545	SISO A	85.69	77.52
					SISO B	86.07	77.64
					MIMO A	86.26	77.52
					MIMO B	85.50	77.52
160	802.11ax/be	MCS0	111	6505	SISO A	167.60	157.00
					SISO B	167.60	156.75
					MIMO A	168.00	156.75
					MIMO B	167.60	156.75

UNII7

Bandwidth [MHz]	Mode	Rate	Channel	Frequency [MHz]	Antenna	26dB BW [MHz]	99% BW [MHz]
20	802.11ax/be	MCS0	117	6535	SISO A	25.48	19.12
					SISO B	25.06	19.20
					MIMO A	25.95	19.16
					MIMO B	25.80	19.08
			149	6695	SISO A	25.34	19.16
					SISO B	25.41	19.08
					MIMO A	26.10	19.08
					MIMO B	24.95	19.04
			181	6855	SISO A	25.06	19.16
					SISO B	25.83	19.00
					MIMO A	25.45	19.12
					MIMO B	25.35	19.16
40	802.11ax/be	MCS0	115	6525	SISO A	43.56	37.84
					SISO B	43.45	37.84
					MIMO A	43.01	38.00
					MIMO B	44.33	38.16
			147	6685	SISO A	44.33	37.92
					SISO B	44.66	37.92
					MIMO A	45.54	37.84
					MIMO B	44.00	38.00
			179	6845	SISO A	44.11	37.84
					SISO B	43.56	37.68
					MIMO A	44.88	37.92
					MIMO B	43.34	37.84
80	802.11ax/be	MCS0	135	6625	SISO A	84.93	77.64
					SISO B	85.31	77.52
					MIMO A	86.07	77.40
					MIMO B	86.07	77.52
			167	6785	SISO A	87.02	77.64
					SISO B	86.45	77.52
					MIMO A	85.69	77.64
					MIMO B	86.45	77.40
160	802.11ax/be	MCS0	143	6665	SISO A	167.60	156.87
					SISO B	167.20	156.45
					MIMO A	168.50	156.75
					MIMO B	166.00	156.50
320	802.11be	MCS0	127	6585	SISO A	NA	312.32
					SISO B	NA	312.96
					MIMO A	NA	312.32
					MIMO B	NA	312.32
			159	6745	SISO A	NA	312.96
					SISO B	NA	312.32
					MIMO A	NA	311.68
					MIMO B	NA	311.68

NA: Not Applicable

UNII8

Bandwidth [MHz]	Mode	Rate	Channel	Frequency [MHz]	Antenna	26dB BW [MHz]	99% BW [MHz]
20	802.11ax/be	MCS0	185	6875	SISO A	25.83	19.08
					SISO B	25.55	19.12
					MIMO A	25.60	19.08
					MIMO B	25.95	19.20
			209	6995	SISO A	24.57	19.04
					SISO B	24.43	19.04
					MIMO A	25.00	19.04
					MIMO B	25.35	19.04
			229	7095	SISO A	25.34	19.08
					SISO B	24.71	19.04
					MIMO A	25.25	19.08
					MIMO B	25.30	19.12
			233	7115	SISO A	25.27	19.08
					SISO B	24.78	19.04
					MIMO A	25.55	19.04
					MIMO B	24.65	19.08
40	802.11ax/be	MCS0	187	6885	SISO A	43.56	37.84
					SISO B	44.00	37.84
					MIMO A	45.10	37.92
					MIMO B	43.67	37.84
			227	7085	SISO A	43.78	37.92
					SISO B	44.22	37.84
					MIMO A	43.45	37.92
					MIMO B	43.56	37.92
80	802.11ax/be	MCS0	183	6865	SISO A	86.26	77.52
					SISO B	86.26	77.64
					MIMO A	85.12	77.64
					MIMO B	87.21	77.52
			199	6945	SISO A	84.36	77.52
					SISO B	85.69	77.40
					MIMO A	85.31	77.64
					MIMO B	86.07	77.64
			215	7025	SISO A	85.31	77.52
					SISO B	85.31	77.52
					MIMO A	85.12	77.64
					MIMO B	86.07	77.52
160	802.11ax/be	MCS0	207	6985	SISO A	167.20	157.00
					SISO B	166.40	156.75
					MIMO A	167.60	156.75
					MIMO B	168.00	156.75
320	802.11be	MCS0	191	6905	SISO A	NA	312.32
					SISO B	NA	312.32
					MIMO A	NA	312.32
					MIMO B	NA	312.32

NA: Not Applicable

B.2.2 Maximum Output power & Maximum power spectral Density

Test limits

FCC part	RSS part	Limits
15.407 (a) (8)	RSS-248 Clause 4.5.3	For client devices operating under the control for low-power client devices in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

Test procedure

The Maximum Conducted Output Power was measured using the channel integration method over the entire 99% occupied bandwidth according to section E) 2) d) (Method SA-2) of KDB 789033

The maximum power spectral density (PSD) was measured using the method according to section F) (Method SA-2) of KDB 789033

In the *measure-and-sum* approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device. When MIMO mode is running each single antenna conducted output power is reduced by 3dBi such that MIMO mode does not exceed the output of a single chain in SISO mode. $\text{SISO A pwr} = \text{SISO B pwr} = \text{MIMO pwr} (1/2 \text{ A pwr} + 1/2 \text{ B pwr})$.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain (-2 dBi) to the measured conducted power in accordance with KDB 662911 D01 v02r01. All transmit signals are completely uncorrelated with each other. Therefore, Directional gain = $G_{\text{ANT}} = -2 \text{ dBi}$.

Per KDB 662911 D01 v02r01: MIMO Spatial diversity applies as completely uncorrelated, neither beamforming, whether fixed or adaptive, nor Cyclic Delay Diversity (CDD) technique are used. For further details, refer to 'MIMO Theory of Operation' document.

The conducted setup shown in section *Test & System Description* was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyser through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

See Annex C.1.2 for the screenshot results.

Results tables

Duty cycle

Bandwidth [MHz]	Mode	Rate	Antenna	Duty Cycle [%]
20	802.11ax/be	MCS0	SISO A	98.80
			SISO B	98.80
			MIMO A	98.40
			MIMO B	98.40
40	802.11ax/be	MCS0	SISO A	98.40
			SISO B	98.80
			MIMO A	98.80
			MIMO B	98.40
80	802.11ax/be	MCS0	SISO A	98.40
			SISO B	98.40
			MIMO A	98.80
			MIMO B	98.80
160	802.11ax/be	MCS0	SISO A	98.30
			SISO B	98.30
			MIMO A	98.30
			MIMO B	98.80
320	802.11be	MCS0	SISO A	98.80
			SISO B	98.30
			MIMO A	98.30
			MIMO B	98.30

Maximum output power

UNII5

Mode	Rate	BW [MHz]	Channel	Freq [MHz]	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾⁽²⁾ EIRP [mW]	Antenna Gain [dBi]
802.11ax/be	MCS0	20	1	5955	SISO A	12.58	12.58	10.58	18.11	11.43	-2
					SISO B	12.05	12.05	10.05	16.03	10.12	
					MIMO A	9.25	9.25	7.25	8.41	5.31	
					MIMO B	9.14	9.14	7.14	8.20	5.18	
					Combined A+B	12.21	12.21	10.21	16.62	10.48	
			45	6175	SISO A	12.69	12.69	10.69	18.58	11.72	
					SISO B	12.28	12.28	10.28	16.90	10.67	
					MIMO A	9.37	9.37	7.37	8.65	5.46	
					MIMO B	9.37	9.37	7.37	8.65	5.46	
					Combined A+B	12.38	12.38	10.38	17.30	10.92	
			93	6415	SISO A	12.76	12.76	10.76	18.88	11.91	
					SISO B	12.27	12.27	10.27	16.87	10.64	
					MIMO A	9.45	9.45	7.45	8.81	5.56	
					MIMO B	9.38	9.38	7.38	8.67	5.47	
					Combined A+B	12.43	12.43	10.43	17.48	11.03	
802.11ax/be	MCS0	40	3	5965	SISO A	15.36	15.36	13.36	34.36	21.68	
					SISO B	15.33	15.33	13.33	34.12	21.53	
					MIMO A	12.78	12.78	10.78	18.97	11.97	
					MIMO B	12.28	12.28	10.28	16.90	10.67	
					Combined A+B	15.55	15.55	13.55	35.87	22.63	
			43	6165	SISO A	15.44	15.44	13.44	34.99	22.08	
					SISO B	15.20	15.20	13.20	33.11	20.89	
					MIMO A	12.50	12.50	10.50	17.78	11.22	
					MIMO B	12.14	12.14	10.14	16.37	10.33	
					Combined A+B	15.33	15.33	13.33	34.15	21.55	
			91	6405	SISO A	15.59	15.59	13.59	36.22	22.86	
					SISO B	15.15	15.15	13.15	32.73	20.65	
					MIMO A	12.64	12.64	10.64	18.37	11.59	
					MIMO B	12.62	12.62	10.62	18.28	11.53	
					Combined A+B	15.64	15.64	13.64	36.65	23.12	
802.11ax/be	MCS0	80	7	5985	SISO A	18.38	18.38	16.38	68.87	43.45	
					SISO B	18.38	18.38	16.38	68.87	43.45	
					MIMO A	15.46	15.46	13.46	35.16	22.18	
					MIMO B	15.25	15.25	13.25	33.50	21.13	
					Combined A+B	18.37	18.37	16.37	68.65	43.32	
			39	6145	SISO A	18.62	18.62	16.62	72.78	45.92	
					SISO B	18.70	18.70	16.70	74.13	46.77	
					MIMO A	15.56	15.56	13.56	35.97	22.70	
					MIMO B	15.65	15.65	13.65	36.73	23.17	
					Combined A+B	18.62	18.62	16.62	72.70	45.87	
			87	6385	SISO A	18.56	18.56	16.56	71.78	45.29	
					SISO B	18.68	18.68	16.68	73.79	46.56	
					MIMO A	15.49	15.49	13.49	35.40	22.34	
					MIMO B	15.67	15.67	13.67	36.90	23.28	
					Combined A+B	18.59	18.59	16.59	72.30	45.62	

802.11ax/be	MCSO	160	15	6025	SISO A	19.30	19.30	17.30	85.11	53.70	-2
					SISO B	19.39	19.39	17.39	86.90	54.83	
					MIMO A	18.33	18.33	16.33	68.08	42.95	
					MIMO B	18.25	18.25	16.25	66.83	42.17	
					Combined A+B	21.30	21.30	19.30	134.91	85.12	
			79	6345	SISO A	19.46	19.46	17.46	88.31	55.72	
					SISO B	19.75	19.75	17.75	94.41	59.57	
					MIMO A	18.46	18.46	16.46	70.15	44.26	
					MIMO B	18.59	18.59	16.59	72.28	45.60	
					Combined A+B	21.54	21.54	19.54	142.42	89.86	
802.11be	MCSO	320	31	6105	SISO A	18.01	18.01	16.01	63.24	39.90	
					SISO B	17.99	17.99	15.99	62.95	39.72	
					MIMO A	17.78	17.78	15.78	59.98	37.84	
					MIMO B	17.91	17.91	15.91	61.80	38.99	
					Combined A+B	20.86	20.86	18.86	121.78	76.84	
			95	6425	SISO A	17.93	17.93	15.93	62.09	39.17	
					SISO B	18.05	18.05	16.05	63.83	40.27	
					MIMO A	17.65	17.65	15.65	58.21	36.73	
					MIMO B	17.86	17.86	15.86	61.09	38.55	
					Combined A+B	20.77	20.77	18.77	119.30	75.28	

(1) Value compensated with the duty cycle
 (2) Max/Min value highlighted per bandwidth

UNII6

Mode	Rate	BW [MHz]	Channel	Freq [MHz]	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾⁽²⁾ EIRP [mW]	Antenna Gain [dBi]
802.11ax/be	MCS0	20	97	6435	SISO A	12.74	12.74	10.74	18.79	11.86	-2
					SISO B	12.20	12.20	10.20	16.60	10.47	
					MIMO A	9.47	9.47	7.47	8.85	5.58	
					MIMO B	9.22	9.22	7.22	8.36	5.27	
					Combined A+B	12.36	12.36	10.36	17.21	10.86	
			105	6475	SISO A	12.59	12.59	10.59	18.16	11.46	
					SISO B	11.97	11.97	9.97	15.74	9.93	
					MIMO A	9.25	9.25	7.25	8.41	5.31	
					MIMO B	9.14	9.14	7.14	8.20	5.18	
					Combined A+B	12.21	12.21	10.21	16.62	10.48	
			113	6515	SISO A	12.35	12.35	10.35	17.18	10.84	
					SISO B	11.90	11.90	9.90	15.49	9.77	
					MIMO A	9.04	9.04	7.04	8.02	5.06	
					MIMO B	8.96	8.96	6.96	7.87	4.97	
					Combined A+B	12.01	12.01	10.01	15.89	10.02	
802.11ax/be	MCS0	40	99	6445	SISO A	15.53	15.53	13.53	35.73	22.54	
					SISO B	15.04	15.04	13.04	31.92	20.14	
					MIMO A	12.08	12.08	10.08	16.14	10.19	
					MIMO B	12.07	12.07	10.07	16.11	10.16	
					Combined A+B	15.09	15.09	13.09	32.25	20.35	
			107	6485	SISO A	15.48	15.48	13.48	35.32	22.28	
					SISO B	14.88	14.88	12.88	30.76	19.41	
					MIMO A	12.00	12.00	10.00	15.85	10.00	
					MIMO B	11.82	11.82	9.82	15.21	9.59	
					Combined A+B	14.92	14.92	12.92	31.05	19.59	
802.11ax/be	MCS0	80	103	6465	SISO A	18.59	18.59	16.59	72.28	45.60	-2
					SISO B	18.45	18.45	16.45	69.98	44.16	
					MIMO A	15.47	15.47	13.47	35.24	22.23	
					MIMO B	15.37	15.37	13.37	34.43	21.73	
					Combined A+B	18.43	18.43	16.43	69.67	43.96	
			119	6545	SISO A	18.29	18.29	16.29	67.45	42.56	
					SISO B	18.37	18.37	16.37	68.71	43.35	
					MIMO A	15.17	15.17	13.17	32.89	20.75	
					MIMO B	15.35	15.35	13.35	34.28	21.63	
					Combined A+B	18.27	18.27	16.27	67.16	42.38	
					Combined A+B	19.49	19.49	17.49	88.92	56.10	
802.11ax/be	MCS0	160	111	6505	SISO A	19.60	19.60	17.60	91.20	57.54	
					SISO B	18.48	18.48	16.48	70.47	44.46	
					MIMO A	18.55	18.55	16.55	71.61	45.19	
					MIMO B	21.53	21.53	19.53	142.08	89.65	
					Combined A+B	12.74	12.74	10.74	18.79	11.86	

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per bandwidth

UNII7

Mode	Rate	BW [MHz]	Channel	Freq [MHz]	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾⁽²⁾ EIRP [mW]	Antenna Gain [dBi]
802.11ax/be	MCS0	20	117	6535	SISO A	12.34	12.34	10.34	17.14	10.81	-2
					SISO B	11.99	11.99	9.99	15.81	9.98	
					MIMO A	9.70	9.70	7.70	9.33	5.89	
					MIMO B	9.34	9.34	7.34	8.59	5.42	
					Combined A+B	12.53	12.53	10.53	17.92	11.31	
			149	6695	SISO A	12.55	12.55	10.55	17.99	11.35	
					SISO B	11.98	11.98	9.98	15.78	9.95	
					MIMO A	9.61	9.61	7.61	9.14	5.77	
					MIMO B	9.51	9.51	7.51	8.93	5.64	
					Combined A+B	12.57	12.57	10.57	18.07	11.40	
			181	6855	SISO A	12.34	12.34	10.34	17.14	10.81	
					SISO B	12.10	12.10	10.10	16.22	10.23	
					MIMO A	9.73	9.73	7.73	9.40	5.93	
					MIMO B	9.58	9.58	7.58	9.08	5.73	
					Combined A+B	12.67	12.67	10.67	18.48	11.66	
802.11ax/be	MCS0	40	115	6525	SISO A	15.24	15.24	13.24	33.42	21.09	-2
					SISO B	15.24	15.24	13.24	33.42	21.09	
					MIMO A	12.67	12.67	10.67	18.49	11.67	
					MIMO B	12.75	12.75	10.75	18.84	11.89	
					Combined A+B	15.72	15.72	13.72	37.33	23.55	
			147	6685	SISO A	15.41	15.41	13.41	34.75	21.93	
					SISO B	14.86	14.86	12.86	30.62	19.32	
					MIMO A	12.43	12.43	10.43	17.50	11.04	
					MIMO B	12.34	12.34	10.34	17.14	10.81	
					Combined A+B	15.40	15.40	13.40	34.64	21.86	
			179	6845	SISO A	15.15	15.15	13.15	32.73	20.65	
					SISO B	14.83	14.83	12.83	30.41	19.19	
					MIMO A	12.64	12.64	10.64	18.37	11.59	
					MIMO B	12.30	12.30	10.30	16.98	10.72	
					Combined A+B	15.48	15.48	13.48	35.35	22.30	
802.11ax/be	MCS0	80	135	6625	SISO A	18.38	18.38	16.38	68.87	43.45	-2
					SISO B	18.44	18.44	16.44	69.82	44.06	
					MIMO A	15.23	15.23	13.23	33.34	21.04	
					MIMO B	15.36	15.36	13.36	34.36	21.68	
					Combined A+B	18.31	18.31	16.31	67.70	42.71	
			167	6785	SISO A	18.35	18.35	16.35	68.39	43.15	
					SISO B	18.57	18.57	16.57	71.94	45.39	
					MIMO A	15.11	15.11	13.11	32.43	20.46	
					MIMO B	15.45	15.45	13.45	35.08	22.13	
					Combined A+B	18.29	18.29	16.29	67.51	42.60	
802.11ax/be	MCS0	160	143	6665	SISO A	19.44	19.44	17.44	87.90	55.46	-2
					SISO B	19.62	19.62	17.62	91.62	57.81	
					MIMO A	18.49	18.49	16.49	70.63	44.57	
					MIMO B	17.98	17.98	15.98	62.81	39.63	
					Combined A+B	21.25	21.25	19.25	133.44	84.19	
802.11ax/be	MCS0	320	127	6585	SISO A	17.91	17.91	15.91	61.80	38.99	-2
					SISO B	18.02	18.02	16.02	63.39	39.99	
					MIMO A	17.89	17.89	15.89	61.52	38.82	
					MIMO B	17.87	17.87	15.87	61.24	38.64	
					Combined A+B	20.89	20.89	18.89	122.75	77.45	

Mode	Rate	BW [MHz]	Channel	Freq [MHz]	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾⁽²⁾ EIRP [mW]	Antenna Gain [dBi]
			159	6745	SISO A	17.82	17.82	15.82	60.53	38.19	
					SISO B	18.14	18.14	16.14	65.16	41.11	
					MIMO A	17.33	17.33	15.33	54.08	34.12	
					MIMO B	17.46	17.46	15.46	55.72	35.16	
					Combined A+B	20.41	20.41	18.41	109.79	69.28	

⁽¹⁾ Value compensated with the duty cycle

⁽²⁾ Max/Min value highlighted per bandwidth

UNI18

Mode	Rate	BW [MHz]	Channel	Freq [MHz]	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾⁽²⁾ EIRP [mW]	Antenna Gain [dBi]
802.11ax/be	MCS0	20	185	6875	SISO A	12.26	12.26	10.26	16.83	10.62	-2
					SISO B	12.88	12.88	10.88	19.41	12.25	
					MIMO A	9.60	9.60	7.60	9.12	5.75	
					MIMO B	9.46	9.46	7.46	8.83	5.57	
					Combined A+B	12.54	12.54	10.54	17.95	11.33	
			209	6995	SISO A	12.35	12.35	10.35	17.18	10.84	
					SISO B	12.82	12.82	10.82	19.14	12.08	
					MIMO A	9.74	9.74	7.74	9.42	5.94	
					MIMO B	9.78	9.78	7.78	9.51	6.00	
					Combined A+B	12.77	12.77	10.77	18.92	11.94	
			229	7095	SISO A	12.46	12.46	10.46	17.62	11.12	
					SISO B	12.39	12.39	10.39	17.34	10.94	
					MIMO A	9.35	9.35	7.35	8.61	5.43	
					MIMO B	9.35	9.35	7.35	8.61	5.43	
					Combined A+B	12.36	12.36	10.36	17.22	10.87	
			233	7115	SISO A	7.96	7.96	5.96	6.25	3.94	
					SISO B	7.81	7.81	5.81	6.04	3.81	
					MIMO A	4.55	4.55	2.55	2.85	1.80	
					MIMO B	4.38	4.38	2.38	2.74	1.73	
					Combined A+B	7.48	7.48	5.48	5.59	3.53	
802.11ax/be	MCS0	40	187	6885	SISO A	15.09	15.09	13.09	32.28	20.37	
					SISO B	15.33	15.33	13.33	34.12	21.53	
					MIMO A	12.60	12.60	10.60	18.20	11.48	
					MIMO B	12.30	12.30	10.30	16.98	10.72	
					Combined A+B	15.46	15.46	13.46	35.18	22.20	
			227	7085	SISO A	15.23	15.23	13.23	33.34	21.04	
					SISO B	15.15	15.15	13.15	32.73	20.65	
					MIMO A	12.14	12.14	10.14	16.37	10.33	
					MIMO B	12.56	12.56	10.56	18.03	11.38	
					Combined A+B	15.37	15.37	13.37	34.40	21.70	
802.11ax/be	MCS0	80	183	6865	SISO A	18.22	18.22	16.22	66.37	41.88	
					SISO B	18.38	18.38	16.38	68.87	43.45	
					MIMO A	15.01	15.01	13.01	31.70	20.00	
					MIMO B	15.31	15.31	13.31	33.96	21.43	
					Combined A+B	18.17	18.17	16.17	65.66	41.43	
			199	6945	SISO A	18.29	18.29	16.29	67.45	42.56	
					SISO B	18.48	18.48	16.48	70.47	44.46	
					MIMO A	15.79	15.79	13.79	37.93	23.93	
					MIMO B	15.89	15.89	13.89	38.82	24.49	
					Combined A+B	18.85	18.85	16.85	76.75	48.42	
			215	7025	SISO A	18.14	18.14	16.14	65.16	41.11	
					SISO B	18.20	18.20	16.20	66.07	41.69	
					MIMO A	15.65	15.65	13.65	36.73	23.17	
					MIMO B	15.63	15.63	13.63	36.56	23.07	
					Combined A+B	18.65	18.65	16.65	73.29	46.24	

802.11ax/be	MCS0	160	207	6985	SISO A	18.35	18.35	16.35	68.39	43.15	-2
					SISO B	18.07	18.07	16.07	64.12	40.46	
					MIMO A	18.32	18.32	16.32	67.92	42.85	
					MIMO B	18.37	18.37	16.37	68.71	43.35	
					Combined A+B	21.36	21.36	19.36	136.63	86.21	
802.11be	MCS0	320	191	6905	SISO A	17.89	17.89	15.89	61.52	38.82	
					SISO B	17.63	17.63	15.63	57.94	36.56	
					MIMO A	17.33	17.33	15.33	54.08	34.12	
					MIMO B	17.43	17.43	15.43	55.34	34.91	
					Combined A+B	20.39	20.39	18.39	109.41	69.03	

- (1) Value compensated with the duty cycle
- (2) Max/Min value highlighted per bandwidth

Maximum Power Spectral Density (PSD)

UNII5

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]v	Antenna Gain [dBi]
802.11ax/be	MCS0	20	1	5955	SISO A	0.72	0.72	-1.28	-2
					SISO B	0.23	0.23	-1.77	
					MIMO A	-2.57	-2.57	-4.57	
					MIMO B	-2.63	-2.63	-4.63	
					Combined A+B	0.41	0.41	-1.59	
			45	6175	SISO A	0.80	0.80	-1.20	
					SISO B	0.45	0.45	-1.55	
					MIMO A	-2.47	-2.47	-4.47	
					MIMO B	-2.50	-2.50	-4.50	
					Combined A+B	0.53	0.53	-1.47	
			93	6415	SISO A	0.87	0.87	-1.13	
					SISO B	0.47	0.47	-1.53	
					MIMO A	-2.32	-2.32	-4.32	
					MIMO B	-2.44	-2.44	-4.44	
					Combined A+B	0.63	0.63	-1.37	
802.11ax/be	MCS0	40	3	5965	SISO A	0.58	0.58	-1.42	
					SISO B	0.47	0.47	-1.53	
					MIMO A	-2.17	-2.17	-4.17	
					MIMO B	-2.54	-2.54	-4.54	
					Combined A+B	0.66	0.66	-1.34	
			43	6165	SISO A	0.60	0.60	-1.40	
					SISO B	0.33	0.33	-1.67	
					MIMO A	-2.35	-2.35	-4.35	
					MIMO B	-2.63	-2.63	-4.63	
					Combined A+B	0.52	0.52	-1.48	
			91	6405	SISO A	0.71	0.71	-1.29	
					SISO B	0.36	0.36	-1.64	
					MIMO A	-2.26	-2.26	-4.26	
					MIMO B	-2.18	-2.18	-4.18	
					Combined A+B	0.79	0.79	-1.21	
802.11ax/be	MCS0	80	7	5985	SISO A	0.65	0.65	-1.35	
					SISO B	0.39	0.39	-1.61	
					MIMO A	-2.49	-2.49	-4.49	
					MIMO B	-2.74	-2.74	-4.74	
					Combined A+B	0.40	0.40	-1.60	
			39	6145	SISO A	0.71	0.71	-1.29	
					SISO B	0.66	0.66	-1.34	
					MIMO A	-2.27	-2.27	-4.27	
					MIMO B	-2.15	-2.15	-4.15	
					Combined A+B	0.80	0.80	-1.20	
			87	6385	SISO A	0.58	0.58	-1.42	
					SISO B	0.76	0.76	-1.24	
					MIMO A	-2.50	-2.50	-4.50	
					MIMO B	-2.35	-2.35	-4.35	
					Combined A+B	0.59	0.59	-1.41	

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]v	Antenna Gain [dBi]
802.11ax/be	MCS0	160	15	6025	SISO A	-1.42	-1.42	-3.42	-2
					SISO B	-1.48	-1.48	-3.48	
					MIMO A	-2.37	-2.37	-4.37	
					MIMO B	-2.51	-2.51	-4.51	
					Combined A+B	0.57	0.57	-1.43	
			79	6345	SISO A	-1.41	-1.41	-3.41	
					SISO B	-1.22	-1.22	-3.22	
					MIMO A	-2.39	-2.39	-4.39	
					MIMO B	-2.44	-2.44	-4.44	
					Combined A+B	0.60	0.60	-1.40	
802.11be	MCS0	320	31	6105	SISO A	-4.89	-4.89	-6.89	
					SISO B	-5.03	-5.03	-7.03	
					MIMO A	-5.42	-5.42	-7.42	
					MIMO B	-5.09	-5.09	-7.09	
					Combined A+B	-2.24	-2.24	-4.24	
			95	6425	SISO A	-5.08	-5.08	-7.08	
					SISO B	-5.18	-5.18	-7.18	
					MIMO A	-5.44	-5.44	-7.44	
					MIMO B	-4.89	-4.89	-6.89	
					Combined A+B	-2.15	-2.15	-4.15	

⁽¹⁾ Value compensated with the duty cycle

UNI6

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]v	Antenna Gain [dBi]
802.11ax/be	MCS0	20	97	6435	SISO A	0.98	0.98	-1.02	-2
					SISO B	0.27	0.27	-1.73	
					MIMO A	-2.43	-2.43	-4.43	
					MIMO B	-2.37	-2.37	-4.37	
					Combined A+B	0.61	0.61	-1.39	
			105	6475	SISO A	0.82	0.82	-1.18	
					SISO B	0.33	0.33	-1.67	
					MIMO A	-2.45	-2.45	-4.45	
					MIMO B	-2.57	-2.57	-4.57	
					Combined A+B	0.50	0.50	-1.50	
			113	6515	SISO A	0.50	0.50	-1.50	
					SISO B	0.25	0.25	-1.75	
					MIMO A	-2.77	-2.77	-4.77	
					MIMO B	-2.90	-2.90	-4.90	
					Combined A+B	0.18	0.18	-1.82	
802.11ax/be	MCS0	40	99	6445	SISO A	0.80	0.80	-1.20	-2
					SISO B	0.15	0.15	-1.85	
					MIMO A	-2.60	-2.60	-4.60	
					MIMO B	-2.79	-2.79	-4.79	
					Combined A+B	0.32	0.32	-1.68	
			107	6485	SISO A	0.65	0.65	-1.35	
					SISO B	0.05	0.05	-1.95	
					MIMO A	-2.64	-2.64	-4.64	
					MIMO B	-2.90	-2.90	-4.90	
					Combined A+B	0.24	0.24	-1.76	

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]v	Antenna Gain [dBi]
802.11ax/be	MCS0	80	103	6465	SISO A	0.82	0.82	-1.18	
					SISO B	0.43	0.43	-1.57	
					MIMO A	-2.57	-2.57	-4.57	
					MIMO B	-2.47	-2.47	-4.47	
					Combined A+B	0.49	0.49	-1.51	
			119	6545	SISO A	0.31	0.31	-1.69	
					SISO B	0.42	0.42	-1.58	
					MIMO A	-2.79	-2.79	-4.79	
					MIMO B	-2.71	-2.71	-4.71	
					Combined A+B	0.26	0.26	-1.74	
802.11ax/be	MCS0	160	111	6505	SISO A	-1.42	-1.42	-3.42	
					SISO B	-1.26	-1.26	-3.26	
					MIMO A	-2.44	-2.44	-4.44	
					MIMO B	-2.29	-2.29	-4.29	
					Combined A+B	0.65	0.65	-1.35	

⁽¹⁾ Value compensated with the duty cycle

UNII7

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]v	Antenna Gain [dBi]
802.11ax/be	MCS0	20	117	6535	SISO A	0.50	0.50	-1.50	-2
					SISO B	0.15	0.15	-1.85	
					MIMO A	-2.12	-2.12	-4.12	
					MIMO B	-2.46	-2.46	-4.46	
					Combined A+B	0.72	0.72	-1.28	
			149	6695	SISO A	0.72	0.72	-1.28	
					SISO B	0.20	0.20	-1.80	
					MIMO A	-2.19	-2.19	-4.19	
					MIMO B	-2.31	-2.31	-4.31	
					Combined A+B	0.76	0.76	-1.24	
			181	6855	SISO A	0.62	0.62	-1.38	
					SISO B	0.34	0.34	-1.66	
					MIMO A	-2.13	-2.13	-4.13	
					MIMO B	-2.26	-2.26	-4.26	
					Combined A+B	0.82	0.82	-1.18	
802.11ax/be	MCS0	40	115	6525	SISO A	0.56	0.56	-1.44	
					SISO B	0.60	0.60	-1.40	
					MIMO A	-2.10	-2.10	-4.10	
					MIMO B	-2.09	-2.09	-4.09	
					Combined A+B	0.92	0.92	-1.08	
			147	6685	SISO A	0.72	0.72	-1.28	
					SISO B	0.09	0.09	-1.91	
					MIMO A	-2.44	-2.44	-4.44	
					MIMO B	-2.51	-2.51	-4.51	
					Combined A+B	0.54	0.54	-1.46	
			179	6845	SISO A	0.49	0.49	-1.51	
					SISO B	0.17	0.17	-1.83	
					MIMO A	-2.24	-2.24	-4.24	
					MIMO B	-2.59	-2.59	-4.59	
					Combined A+B	0.60	0.60	-1.40	

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz] _v	Antenna Gain [dBi]
802.11ax/be	MCS0	80	135	6625	SISO A	0.36	0.36	-1.64	
					SISO B	0.54	0.54	-1.46	
					MIMO A	-2.82	-2.82	-4.82	
					MIMO B	-2.35	-2.35	-4.35	
					Combined A+B	0.43	0.43	-1.57	
			167	6785	SISO A	0.36	0.36	-1.64	
					SISO B	0.63	0.63	-1.37	
					MIMO A	-2.88	-2.88	-4.88	
					MIMO B	-2.54	-2.54	-4.54	
					Combined A+B	0.30	0.30	-1.70	
802.11ax/be	MCS0	160	143	6665	SISO A	-1.39	-1.39	-3.39	
					SISO B	-1.24	-1.24	-3.24	
					MIMO A	-2.30	-2.30	-4.30	
					MIMO B	-2.96	-2.96	-4.96	
					Combined A+B	0.39	0.39	-1.61	
802.11ax/be	MCS0	320	127	6585	SISO A	-5.27	-5.27	-7.27	
					SISO B	-4.87	-4.87	-6.87	
					MIMO A	-5.12	-5.12	-7.12	
					MIMO B	-5.14	-5.14	-7.14	
					Combined A+B	-2.12	-2.12	-4.12	
			159	6745	SISO A	-5.56	-5.56	-7.56	
					SISO B	-5.14	-5.14	-7.14	
					MIMO A	-6.02	-6.02	-8.02	
					MIMO B	-5.81	-5.81	-7.81	
					Combined A+B	-2.90	-2.90	-4.90	

⁽¹⁾ Value compensated with the duty cycle

UNI18

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]	Antenna Gain [dBi]
802.11ax/be	MCS0	20	185	6875	SISO A	0.48	0.48	-1.52	
					SISO B	0.99	0.99	-1.01	
					MIMO A	-2.27	-2.27	-4.27	
					MIMO B	-2.33	-2.33	-4.33	
					Combined A+B	0.71	0.71	-1.29	
			209	6995	SISO A	0.28	0.28	-1.72	
					SISO B	0.77	0.77	-1.23	
					MIMO A	-2.27	-2.27	-4.27	
					MIMO B	-2.24	-2.24	-4.24	
					Combined A+B	0.76	0.76	-1.24	
			229	7095	SISO A	0.51	0.51	-1.49	
					SISO B	0.26	0.26	-1.74	
					MIMO A	-2.69	-2.69	-4.69	
					MIMO B	-2.59	-2.59	-4.59	
					Combined A+B	0.37	0.37	-1.63	
			233	7115	SISO A	-3.97	-3.97	-5.97	
					SISO B	-4.25	-4.25	-6.25	
					MIMO A	-7.55	-7.55	-9.55	
					MIMO B	-7.71	-7.71	-9.71	

Mode	Rate	Rate	Channel	Freq. [MHz]	Antenna	PSD [dBm/MHz]	Max ⁽¹⁾ PSD [dBm/MHz]	Max ⁽¹⁾ PSD EIRP [dBm/MHz]	Antenna Gain [dBi]
					Combined A+B	-4.62	-4.62	-6.62	
802.11ax/be	MCS0	40	187	6885	SISO A	0.23	0.23	-1.77	
					SISO B	0.51	0.51	-1.49	
					MIMO A	-2.33	-2.33	-4.33	
					MIMO B	-2.50	-2.50	-4.50	
					Combined A+B	0.60	0.60	-1.40	
			227	7085	SISO A	0.22	0.22	-1.78	
					SISO B	0.07	0.07	-1.93	
					MIMO A	-2.93	-2.93	-4.93	
					MIMO B	-2.45	-2.45	-4.45	
					Combined A+B	0.33	0.33	-1.67	
802.11ax/be	MCS0	80	183	6865	SISO A	0.28	0.28	-1.72	
					SISO B	0.45	0.45	-1.55	
					MIMO A	-2.91	-2.91	-4.91	
					MIMO B	-2.70	-2.70	-4.70	
					Combined A+B	0.21	0.21	-1.79	
			199	6945	SISO A	0.14	0.14	-1.86	
					SISO B	0.34	0.34	-1.66	
					MIMO A	-2.37	-2.37	-4.37	
					MIMO B	-2.36	-2.36	-4.36	
					Combined A+B	0.65	0.65	-1.35	
			215	7025	SISO A	0.16	0.16	-1.84	
					SISO B	0.22	0.22	-1.78	
					MIMO A	-2.35	-2.35	-4.35	
					MIMO B	-2.19	-2.19	-4.19	
					Combined A+B	0.74	0.74	-1.26	
802.11ax/be	MCS0	160	207	6985	SISO A	-2.71	-2.71	-4.71	-2
					SISO B	-2.93	-2.93	-4.93	
					MIMO A	-2.62	-2.62	-4.62	
					MIMO B	-2.63	-2.63	-4.63	
					Combined A+B	0.39	0.39	-1.61	
802.11be	MCS0	320	191	6905	SISO A	-5.33	-5.33	-7.33	
					SISO B	-5.57	-5.57	-7.57	
					MIMO A	-5.93	-5.93	-7.93	
					MIMO B	-5.78	-5.78	-7.78	
					Combined A+B	-2.84	-2.84	-4.84	

⁽¹⁾ Value compensated with the duty cycle

B.2.3 Emissions mask

Test limits

FCC part	RSS part	Limits
15.407 (b) (6)	RSS-248 Clause 4.6.2	For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the unwanted mask emissions. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss and the declared antenna gain.

The nominal bandwidth was used to construct the mask according to KDB 987594 D02.

See Section C.1.3 for the screenshot results.

B.2.4 Frequency stability

Test limits

FCC part	RSS part	Limits
15.407 (g)	RSS-Gen issue 5 - A1- clause 6.11	The frequency stability shall be sufficient to ensure that the occupied bandwidth of the device stays within the 5925-7125MHz frequency band when the stability is tested at the temperature and supply voltage variation

Test procedure

The conducted setups shown in section *Test & System Description* were used to verify that the occupied bandwidth 99% of the device stays within the 5925-7125MHz frequency band.

Results tables

Normal Condition

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	99% BW [MHz]	Lowest frequency [MHz]	Highest frequency [MHz]
UNII-5	802.11ax/be20	1	5955	MCS0	Full BW	SISO A	19.76	5945.10	NA
UNII-5	802.11ax/be40	3	5965	MCS0	Full BW	SISO A	38.16	5945.92	NA
UNII-5	802.11ax/be80	7	5985	MCS0	Full BW	SISO A	77.88	5946.06	NA
UNII-5	802.11ax/be160	15	6025	MCS0	Full BW	SISO A	156.75	5946.62	NA
UNII-5	802.11be320	31	6265	MCS0	Full BW	SISO A	312.40	5948.80	NA
UNII-8	802.11ax/be20	233	7115	MCS0	Full BW	SISO A	19.08	NA	7124.54
UNII-8	802.11ax/be40	227	7085	MCS0	Full BW	SISO A	37.84	NA	7103.92
UNII-8	802.11ax/be80	215	7025	MCS0	Full BW	SISO A	77.52	NA	7063.70
UNII-8	802.11ax/be160	207	6985	MCS0	Full BW	SISO A	156.50	NA	7063.13
UNII-8	802.11be320	191	6905	MCS0	Full BW	SISO A	310.80	NA	7059.60

High temperature +50°C

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	99% BW [MHz]	Lowest frequency [MHz]	Highest frequency [MHz]
UNII-5	802.11ax/be20	1	5955	MCS0	Full BW	SISO A	19.56	5945.22	NA
UNII-5	802.11ax/be40	3	5965	MCS0	Full BW	SISO A	38.24	5945.84	NA
UNII-5	802.11ax/be80	7	5985	MCS0	Full BW	SISO A	77.88	5946.06	NA
UNII-5	802.11ax/be160	15	6025	MCS0	Full BW	SISO A	157.50	5946.12	NA
UNII-5	802.11be320	31	6265	MCS0	Full BW	SISO A	314.40	5947.20	NA
UNII-8	802.11ax/be20	233	7115	MCS0	Full BW	SISO A	19.80	NA	7105.06
UNII-8	802.11ax/be40	227	7085	MCS0	Full BW	SISO A	38.56	NA	7104.32
UNII-8	802.11ax/be80	215	7025	MCS0	Full BW	SISO A	78.00	NA	7063.94
UNII-8	802.11ax/be160	207	6985	MCS0	Full BW	SISO A	163.50	NA	7066.13
UNII-8	802.11be320	191	6905	MCS0	Full BW	SISO A	314.80	NA	7062.00

Low temperature -20°C

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	99% BW [MHz]	Lowest frequency [MHz]	Highest frequency [MHz]
UNII-5	802.11ax/be20	1	5955	MCS0	Full BW	SISO A	19.20	5945.46	NA
UNII-5	802.11ax/be40	3	5965	MCS0	Full BW	SISO A	38.08	5946.00	NA
UNII-5	802.11ax/be80	7	5985	MCS0	Full BW	SISO A	77.64	5946.18	NA
UNII-5	802.11ax/be160	15	6025	MCS0	Full BW	SISO A	157.25	5946.37	NA
UNII-5	802.11be320	31	6265	MCS0	Full BW	SISO A	314.00	5947.60	NA
UNII-8	802.11ax/be20	233	7115	MCS0	Full BW	SISO A	19.36	NA	7105.42
UNII-8	802.11ax/be40	227	7085	MCS0	Full BW	SISO A	38.24	NA	7104.24
UNII-8	802.11ax/be80	215	7025	MCS0	Full BW	SISO A	77.88	NA	7064.06
UNII-8	802.11ax/be160	207	6985	MCS0	Full BW	SISO A	157.50	NA	7063.88
UNII-8	802.11be320	191	6905	MCS0	Full BW	SISO A	314.40	NA	7062.00

Low voltage 2.805V

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	99% BW [MHz]	Lowest frequency [MHz]	Highest frequency [MHz]
UNII-5	802.11ax/be20	1	5955	MCS0	Full BW	SISO A	19.44	5945.30	NA
UNII-5	802.11ax/be40	3	5965	MCS0	Full BW	SISO A	38.16	5945.84	NA
UNII-5	802.11ax/be80	7	5985	MCS0	Full BW	SISO A	77.88	5946.06	NA
UNII-5	802.11ax/be160	15	6025	MCS0	Full BW	SISO A	156.75	5946.62	NA
UNII-5	802.11be320	31	6265	MCS0	Full BW	SISO A	312.00	5948.80	NA
UNII-8	802.11ax/be20	233	7115	MCS0	Full BW	SISO A	19.08	NA	7124.58
UNII-8	802.11ax/be40	227	7085	MCS0	Full BW	SISO A	37.92	NA	7103.92
UNII-8	802.11ax/be80	215	7025	MCS0	Full BW	SISO A	77.76	NA	7063.82
UNII-8	802.11ax/be160	207	6985	MCS0	Full BW	SISO A	156.50	NA	7063.13
UNII-8	802.11be320	191	6905	MCS0	Full BW	SISO A	311.60	NA	7060.00

High voltage 3.795V

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	99% BW [MHz]	Lowest frequency [MHz]	Highest frequency [MHz]
UNII-5	802.11ax/be20	1	5955	MCS0	Full BW	SISO A	19.60	5945.22	NA
UNII-5	802.11ax/be40	3	5965	MCS0	Full BW	SISO A	38.24	5945.84	NA
UNII-5	802.11ax/be80	7	5985	MCS0	Full BW	SISO A	77.88	5946.06	NA
UNII-5	802.11ax/be160	15	6025	MCS0	Full BW	SISO A	156.75	5946.62	NA
UNII-5	802.11be320	31	6265	MCS0	Full BW	SISO A	312.40	5948.40	NA
UNII-8	802.11ax/be20	233	7115	MCS0	Full BW	SISO A	19.12	NA	7105.46
UNII-8	802.11ax/be40	227	7085	MCS0	Full BW	SISO A	37.92	NA	7104.00
UNII-8	802.11ax/be80	215	7025	MCS0	Full BW	SISO A	77.52	NA	7063.70
UNII-8	802.11ax/be160	207	6985	MCS0	Full BW	SISO A	156.50	NA	7063.13
UNII-8	802.11be320	191	6905	MCS0	Full BW	SISO A	311.60	NA	7060.00

B.2.5 Undesirable emission limits : Conducted

Test limits

FCC part	RSS Part	Limits
15.407 (b) (5)	RSS-248 Clause 4.6.2	For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.
15.35 (b)	-	Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the out of band domain. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss and the declared antenna gain.

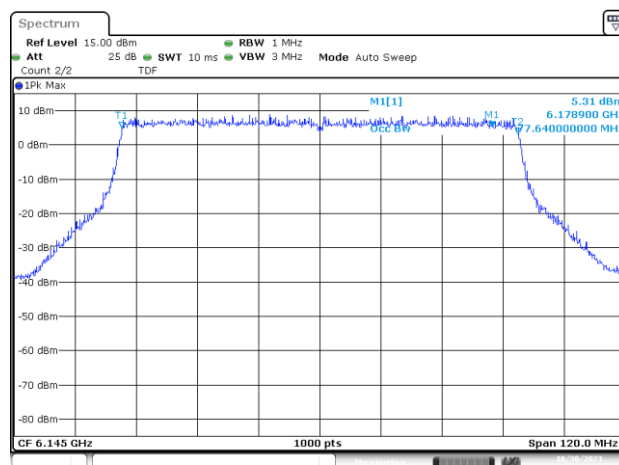
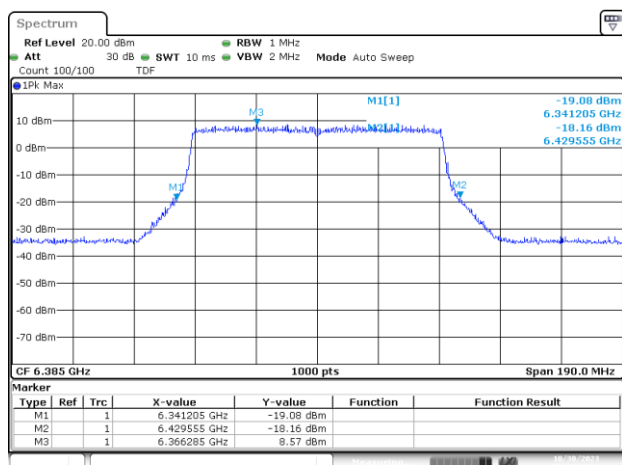
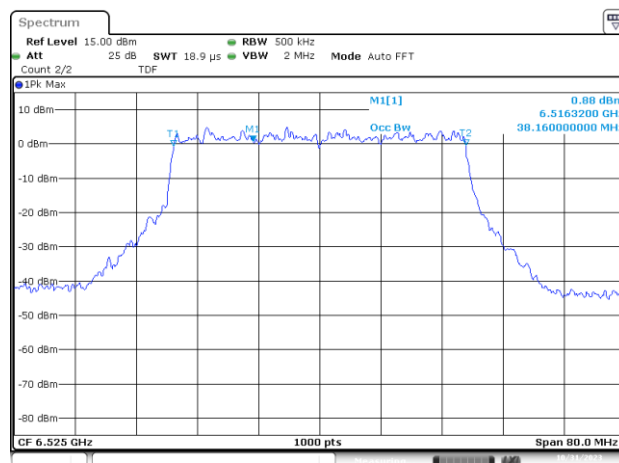
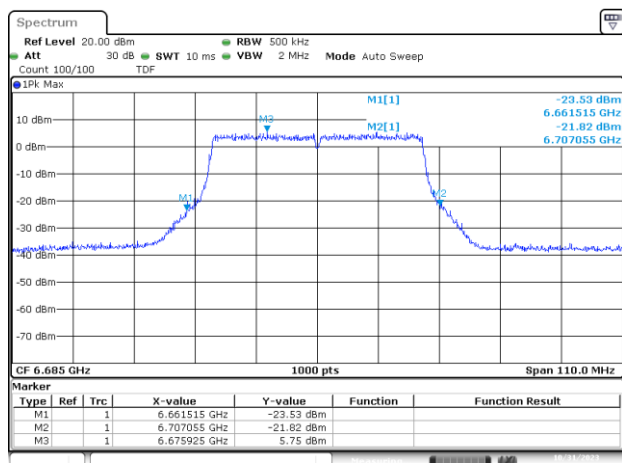
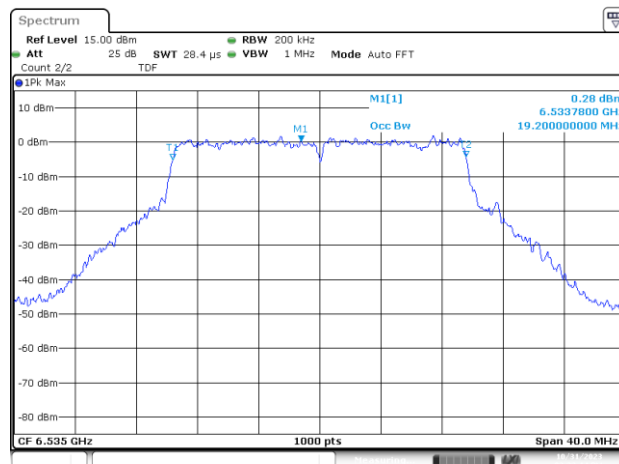
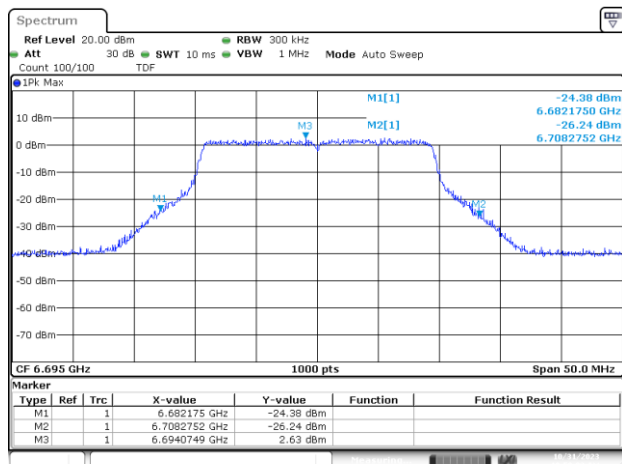
For the lower and upper side of the out of band, the integration method was used as defined in the out of band measurements section II.G.3.d of KDB 789033. Tests were performed using both RMS and peak detectors.

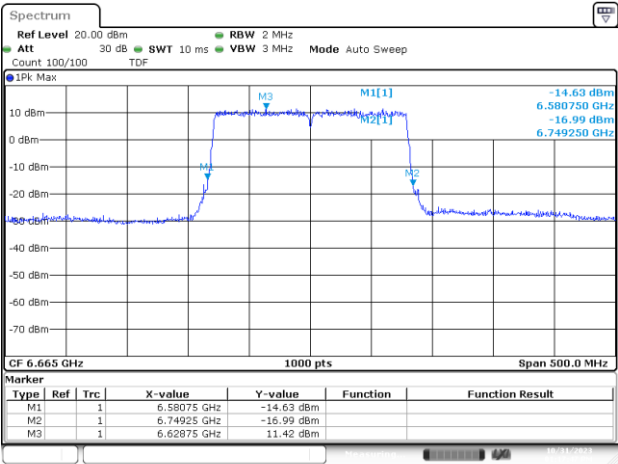
For out of band emission measurements in MIMO mode the emission level of individual output is adjusted by $10 \log(N_{\text{ant}}) = 3\text{dB}$ for $N_{\text{ant}} = 2$ which is equivalent to compare the individual output emission level to the limit minus 3dB. The same approach is applied for peak and RMS detectors.

See Section C.1.4 for the screenshot results.

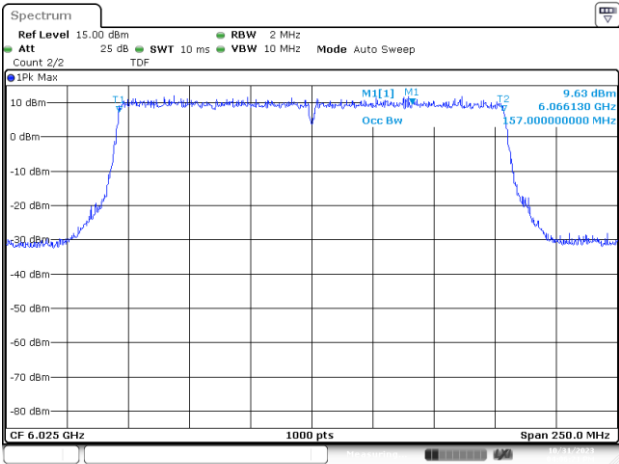
Annex C. System Plots

C.1.1 26dB & 99% bandwidth

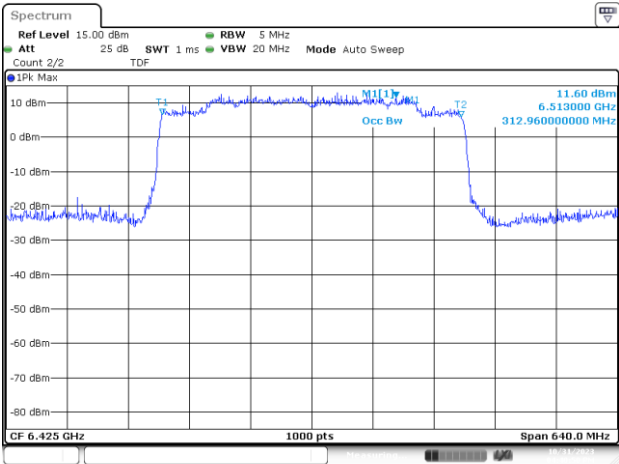




UNII7 MIMO A 802.11ax/be160 ch143 6665MHz 26dB

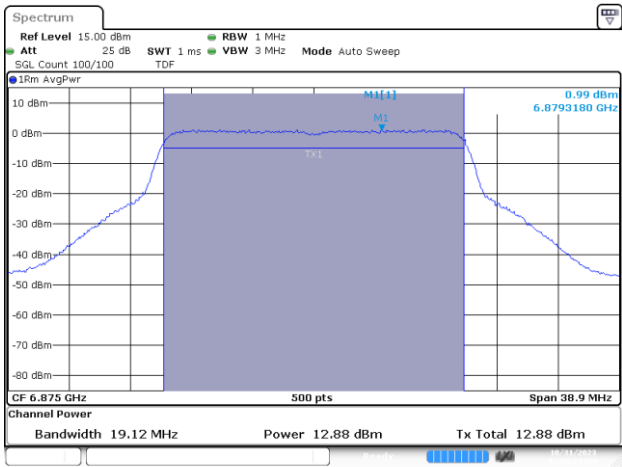


UNII5 MIMO B 802.11ax/be160 ch15 6025MHz 99%

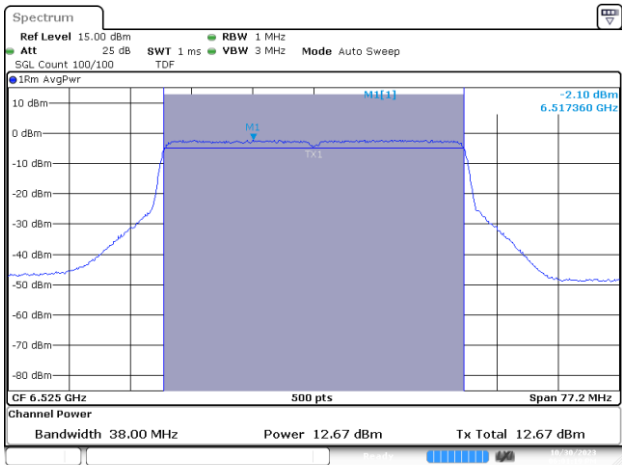


UNII8 MIMO B 802.11be320 ch95 6425MHz 99%

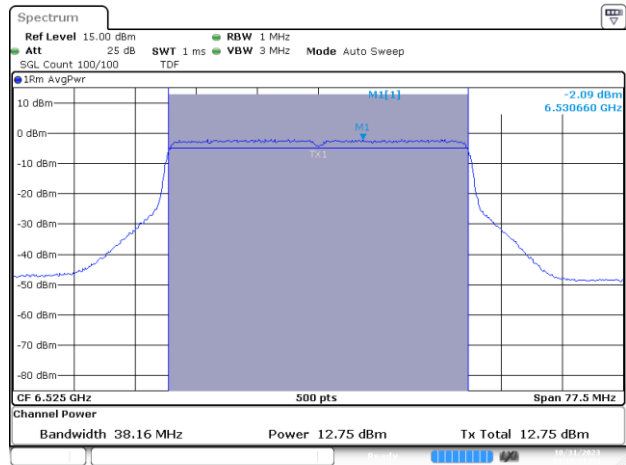
C.1.2 Maximum Output Power & Maximum power spectral Density



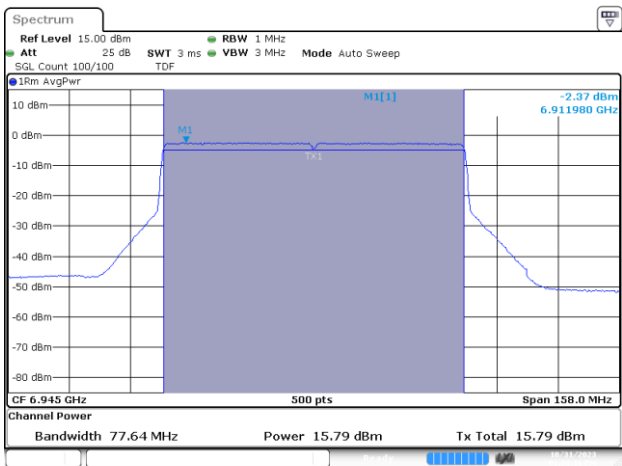
SISO B-802.11ax/be-20MHz-Ch185-6875MHz-MCS0



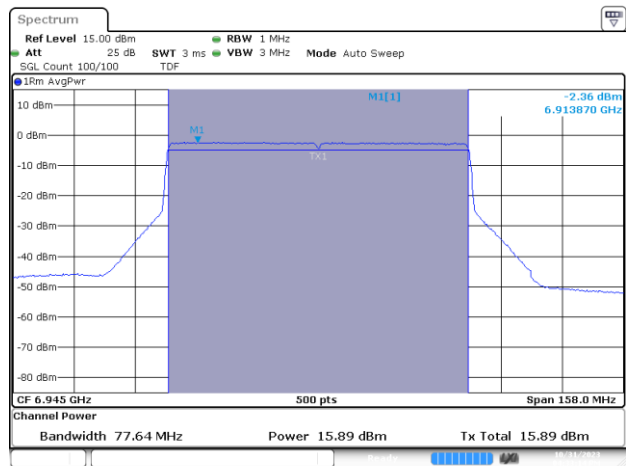
MIMO A-802.11ax/be-40MHz-Ch115-6525MHz-MCS0



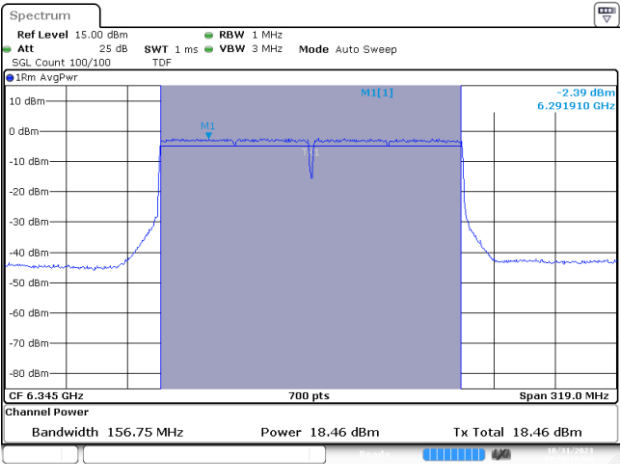
MIMO B-802.11ax/be-40MHz-Ch115-6525MHz-MCS0



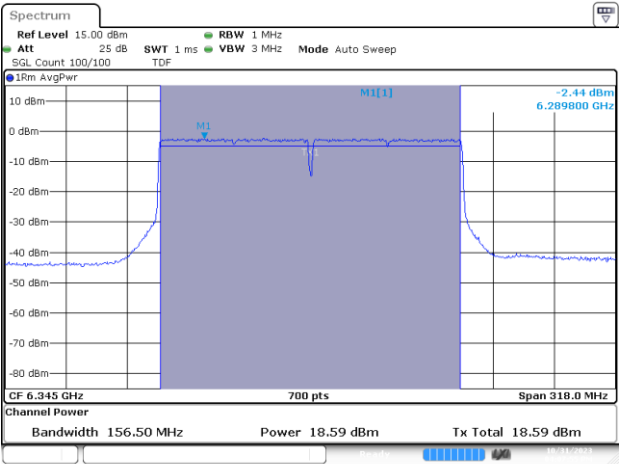
MIMO A-802.11ax/be-80MHz-Ch199-6945MHz-MCS0



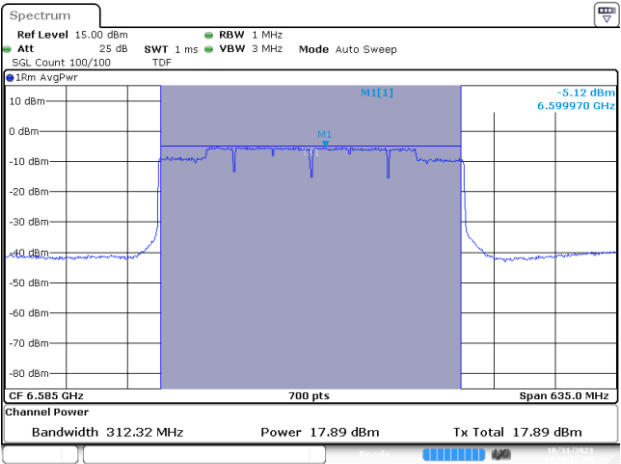
MIMO B-802.11ax/be-80MHz-Ch199-6945MHz-MCS0



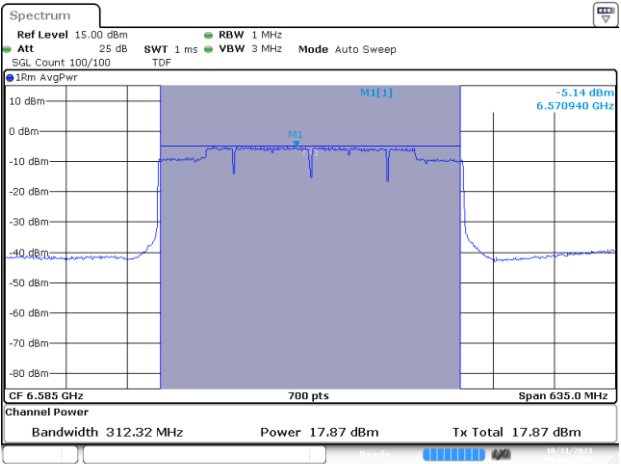
MIMO A-802.11ax/be-160MHz-Ch79-6345MHz-MCS0



MIMO B-802.11ax/be-160MHz-Ch79-6345MHz-MCS0

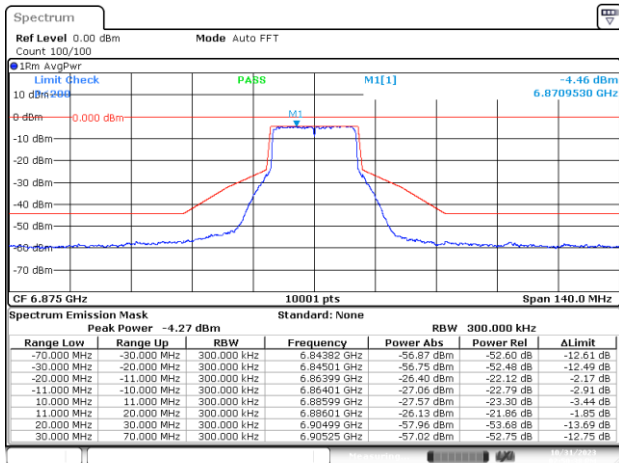


MIMO A-802.11be-320MHz-Ch127 6585MHz-MCS0

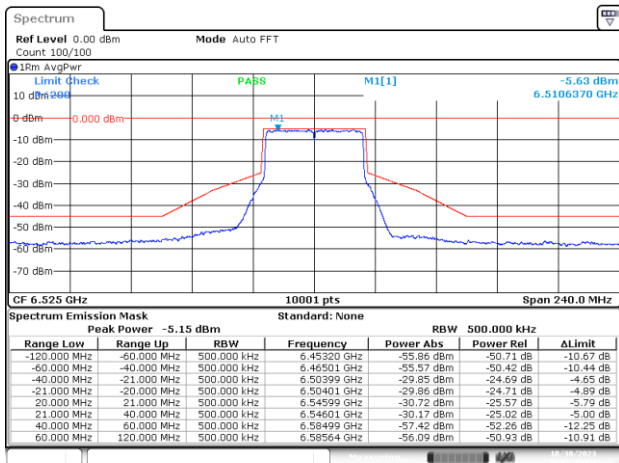


MIMO B-802.11be-320MHz-Ch127 6585MHz-MCS0

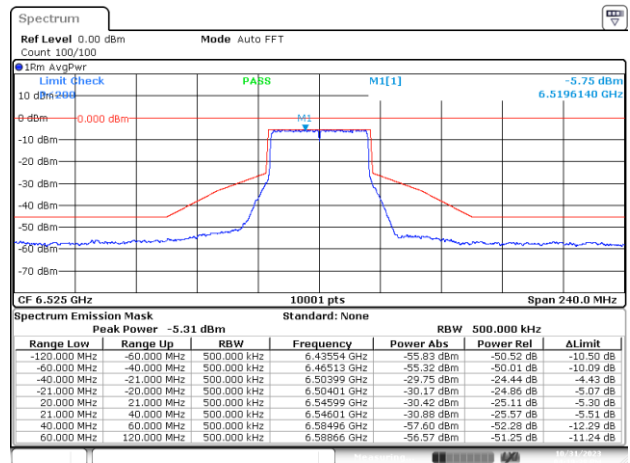
C.1.3 In-Band Emissions (Mask)



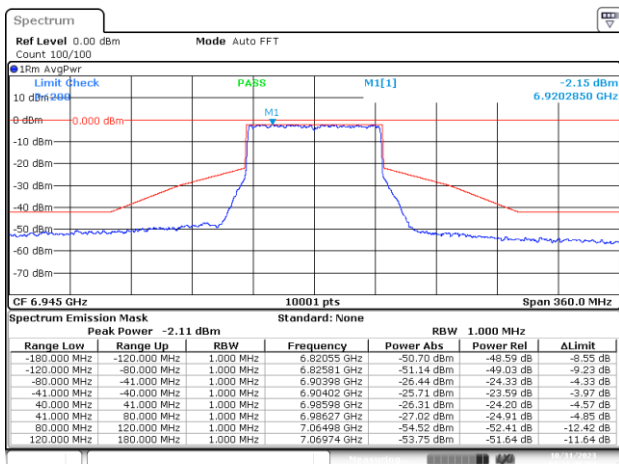
SISO B-802.11ax/be-20MHz-Ch185-6875MHz-MCS0



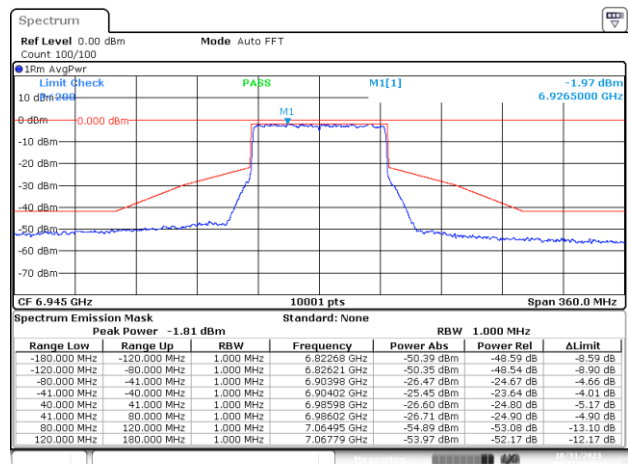
MIMO A-802.11ax/be-40MHz-Ch115-6525MHz-MCS0



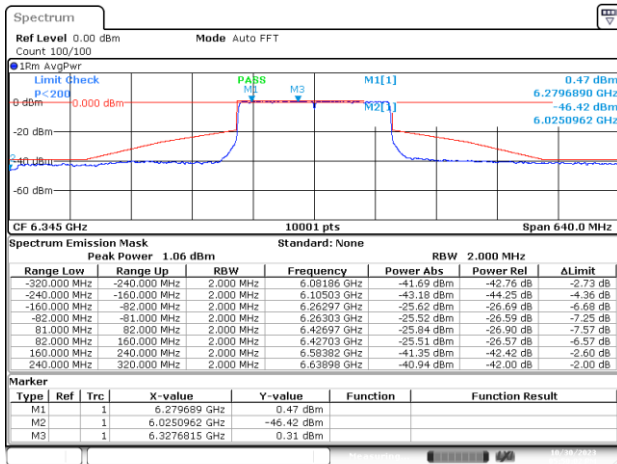
MIMO B-802.11ax/be-40MHz-Ch115-6525MHz-MCS0



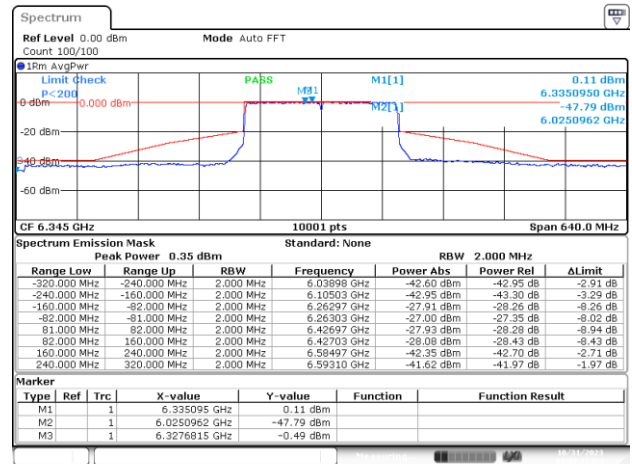
MIMO A-802.11ax/be-80MHz-Ch199-6945MHz-MCS0



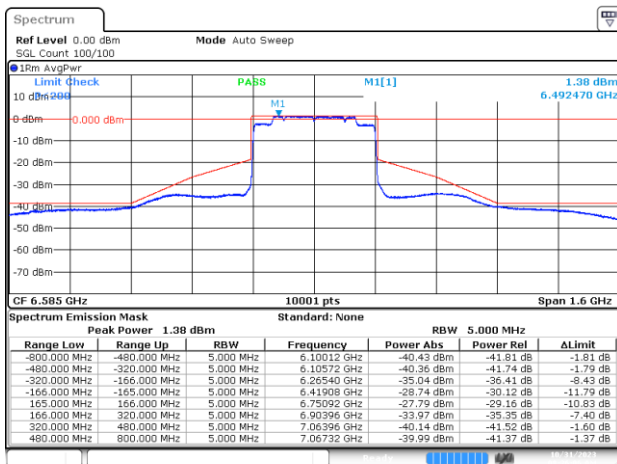
MIMO B-802.11ax/be-80MHz-Ch199-6945MHz-MCS0



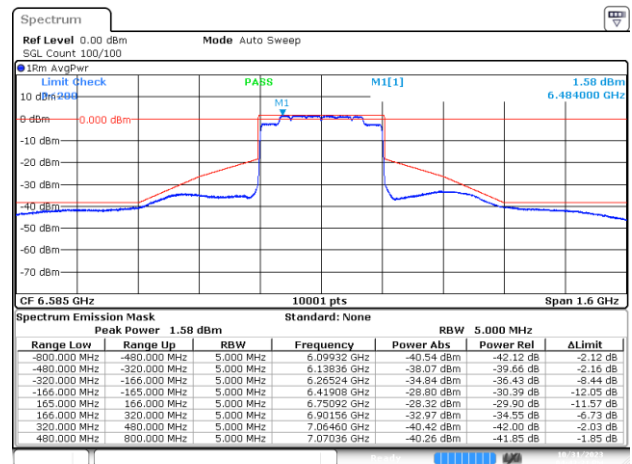
MIMO A-802.11ax/be-160MHz-Ch79-6345MHz-MCS0



MIMO B-802.11ax/be-160MHz-Ch79-6345MHz-MCS0

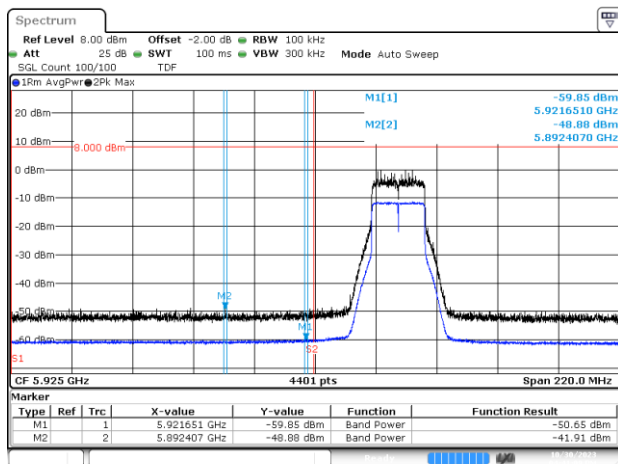


MIMO A-802.11be-320MHz-Ch127 6585MHz-MCS0

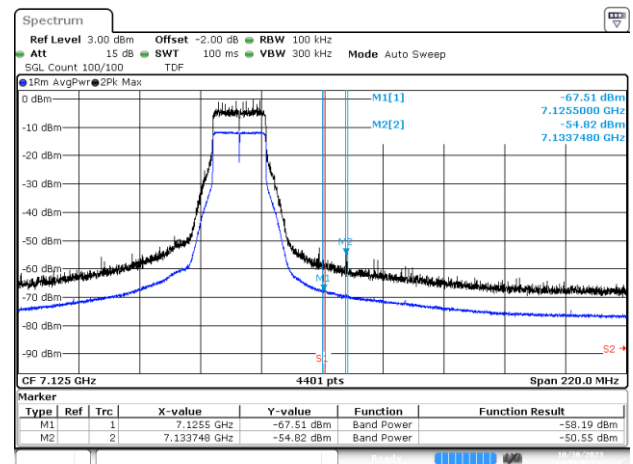


MIMO B-802.11be-320MHz-Ch127 6585MHz-MCS0

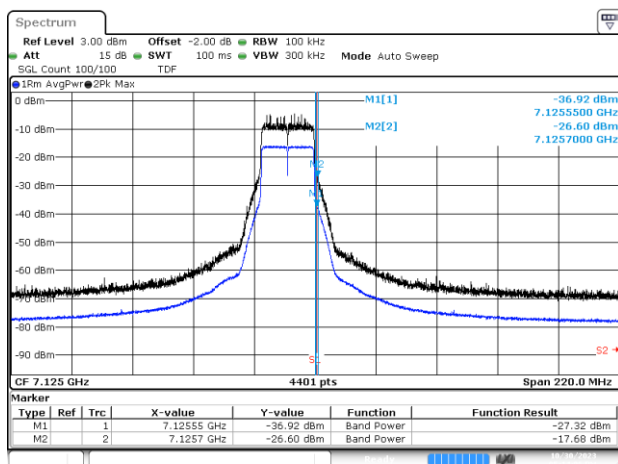
C.1.4 Undesirable emission limits : out of band (Conducted)



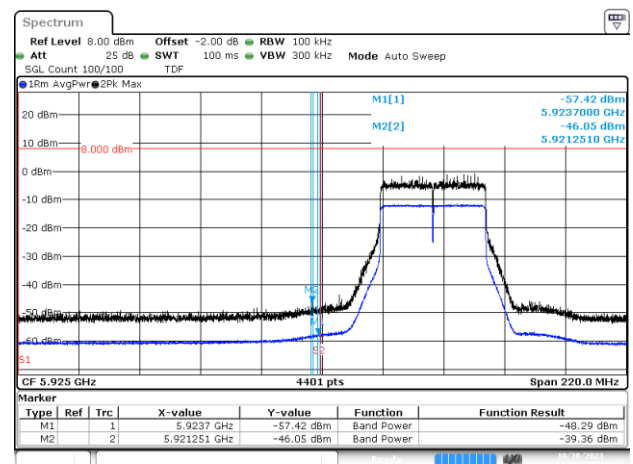
BE-NR-LOW, SISO-A, 802.11be/ax20-MCS0, Ch1



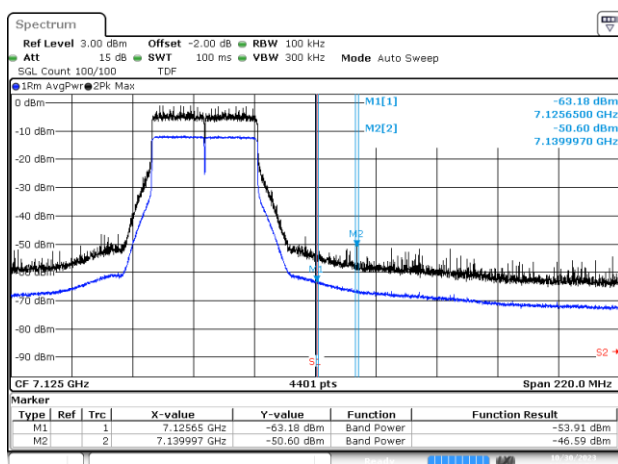
BE-NR-HIGH, SISO-A, 802.11be/ax20-MCS0, Ch229



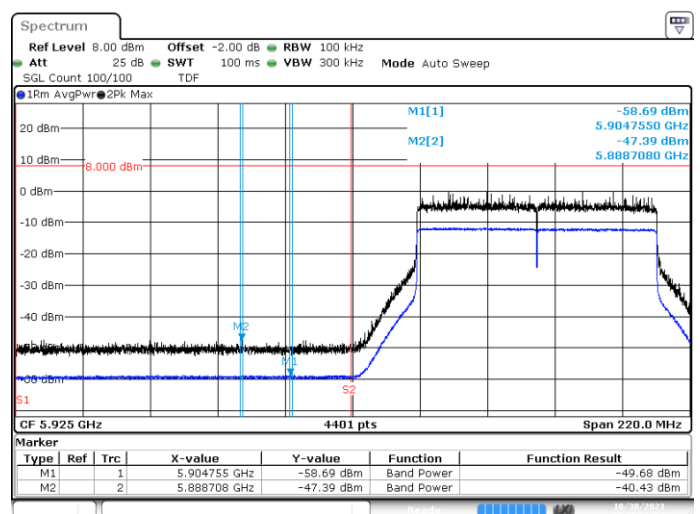
BE-NR-HIGH, SISO-A, 802.11be/ax20-MCS0, Ch233



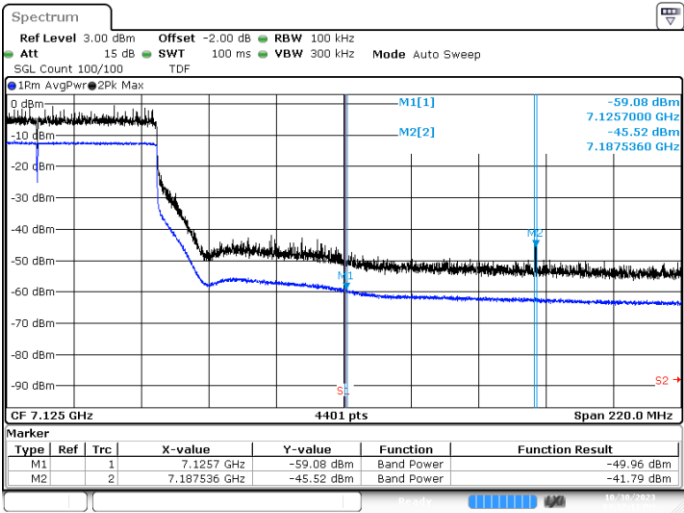
BE-NR-LOW, SISO-A, 802.11be/ax40-MCS0, Ch3



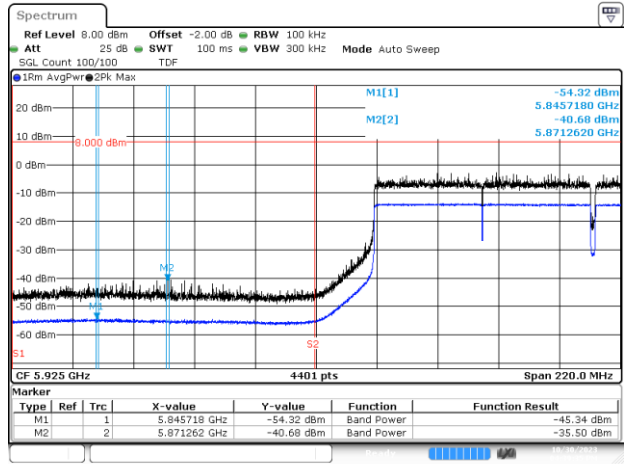
BE-NR-HIGH, SISO-A, 802.11be/ax40-MCS0, Ch227



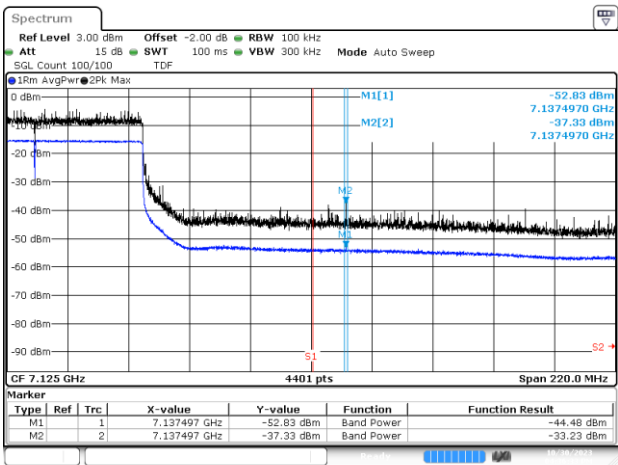
BE-NR-LOW, SISO-A, 802.11be/ax80-MCS0, Ch7



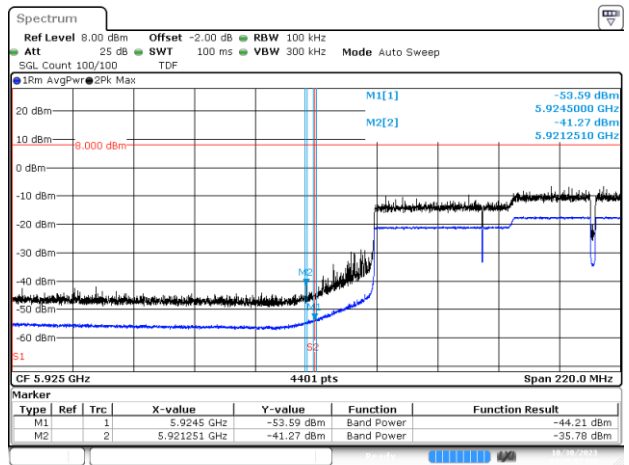
BE-NR-HIGH, SISO-A, 802.11be/ax80-MCS0, Ch215



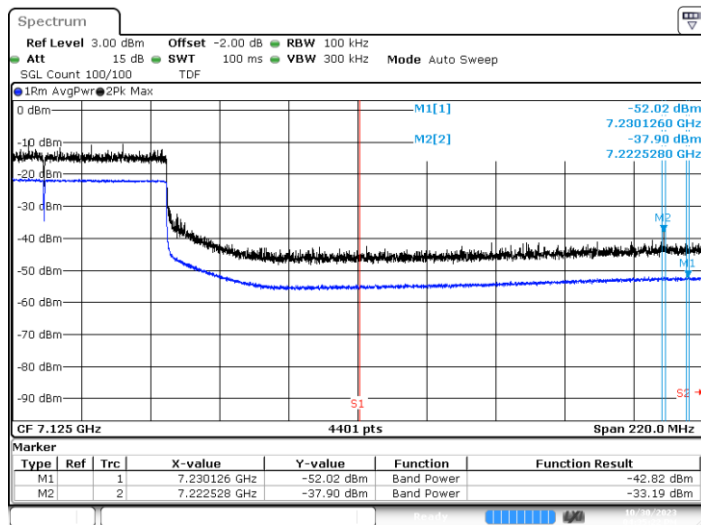
BE-NR-LOW, SISO-A, 802.11be/ax160-MCS0, Ch15



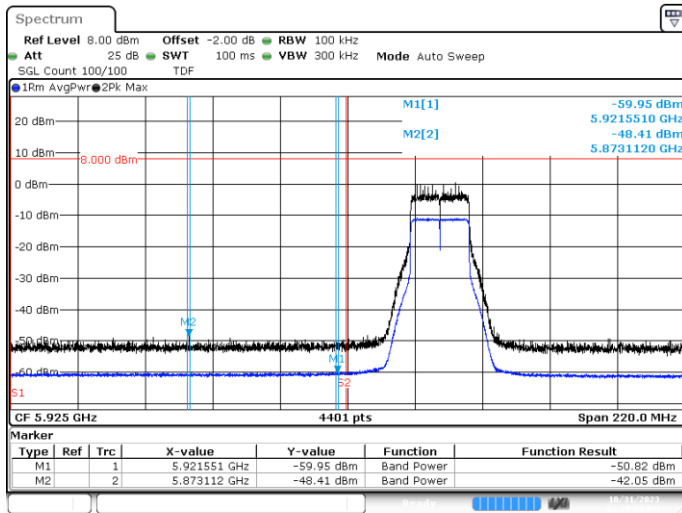
BE-NR-HIGH, SISO-A, 802.11be/ax160-MCS0, Ch207



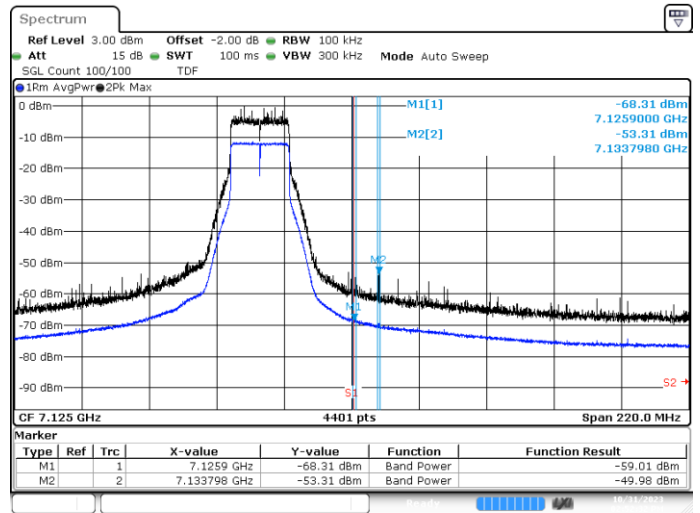
BE-NR-LOW, SISO-A, 802.11be320-MCS0, Ch31



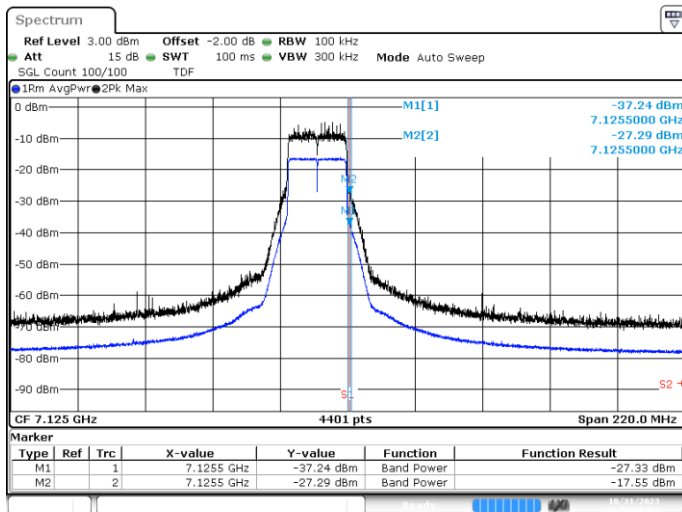
BE-NR-HIGH, SISO-A, 802.11be320-MCS0, Ch191



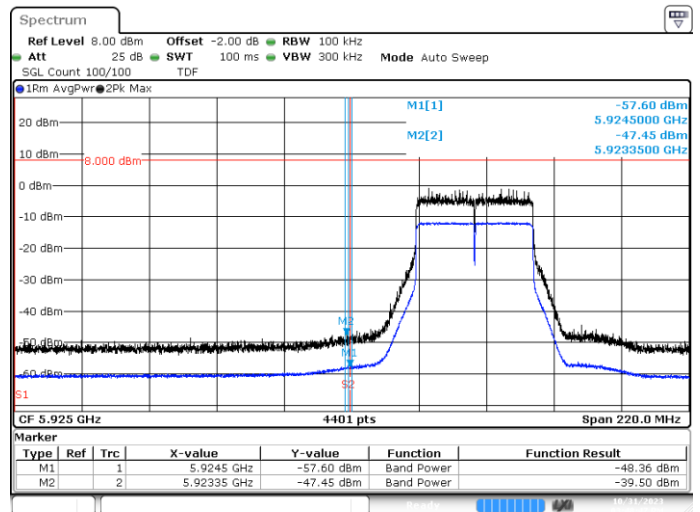
BE-NR-LOW, SISO-B, 802.11ax/be20-MCS0, Ch1



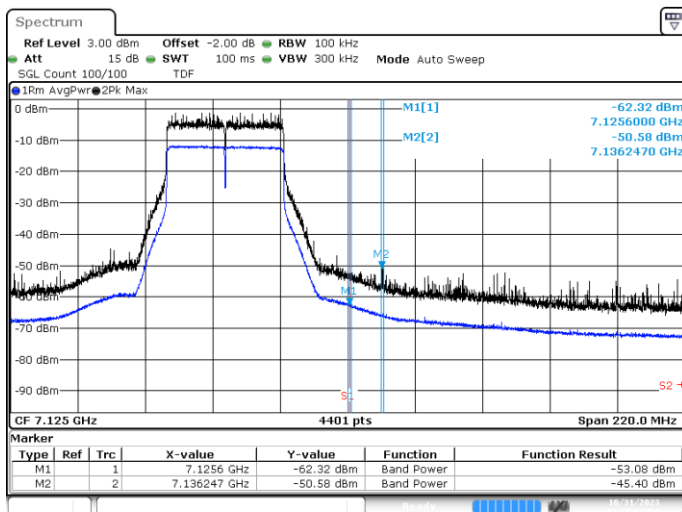
BE-NR-HIGH, SISO-B, 802.11ax/be20-MCS0, Ch229



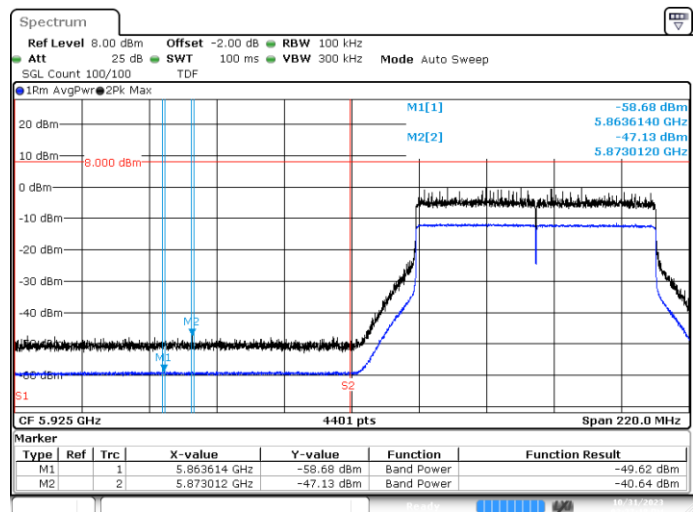
BE-NR-HIGH, SISO-B, 802.11ax/be20-MCS0, Ch233



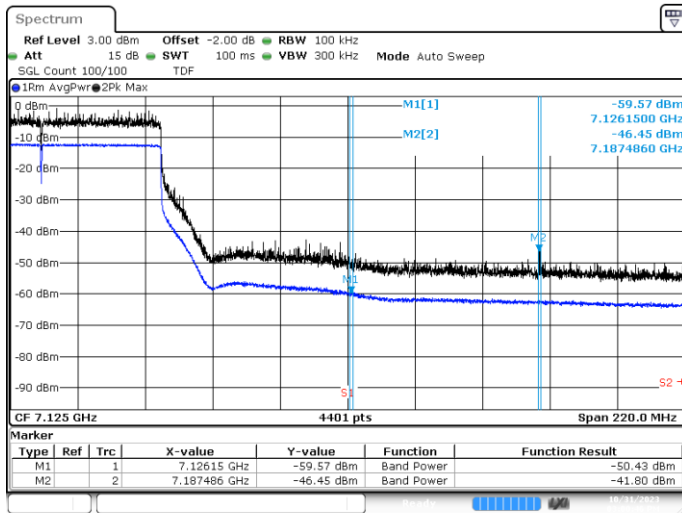
BE-NR-LOW, SISO-B, 802.11ax/be40-MCS0, Ch3



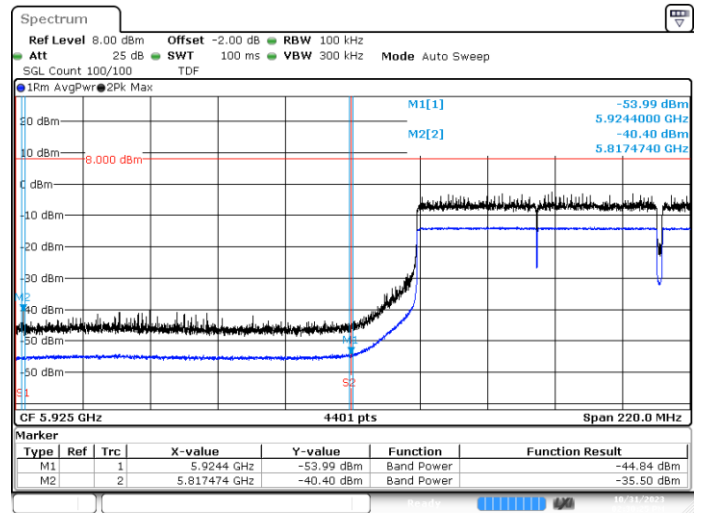
BE-NR-HIGH, SISO-B, 802.11ax/be40-MCS0, Ch227



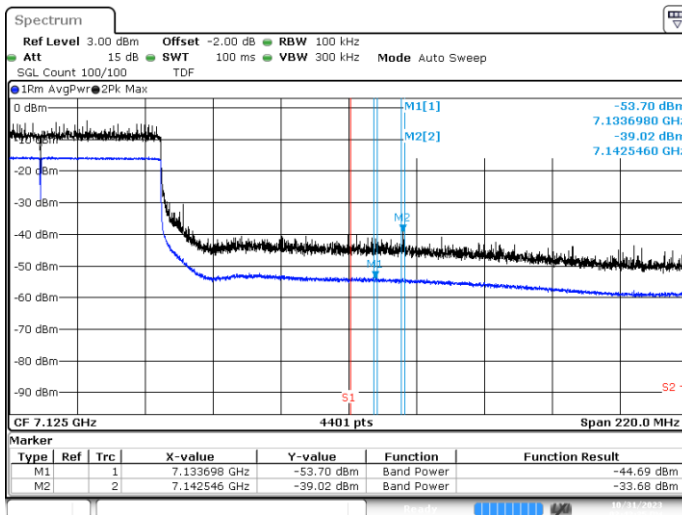
BE-NR-LOW, SISO-B, 802.11ax/be80-MCS0, Ch7



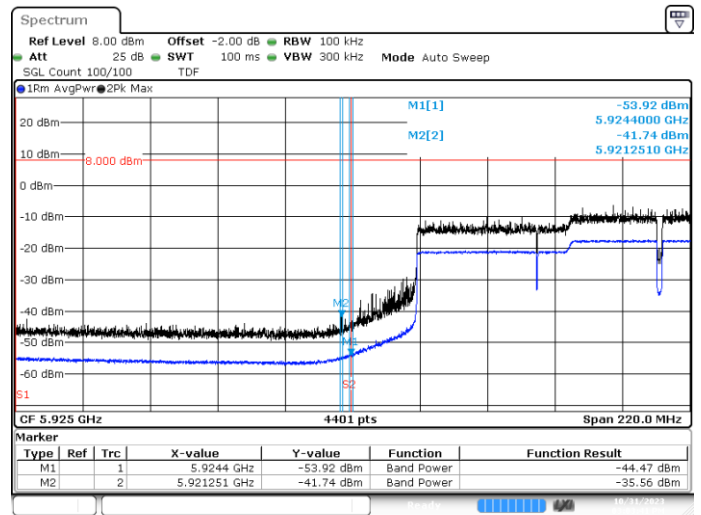
BE-NR-HIGH, SISO-B, 802.11ax/be80-MCS0, Ch215



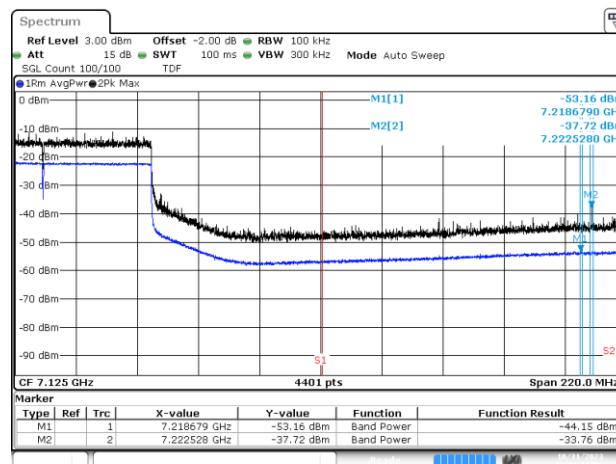
BE-NR-LOW, SISO-B, 802.11ax/be160-MCS0, Ch15



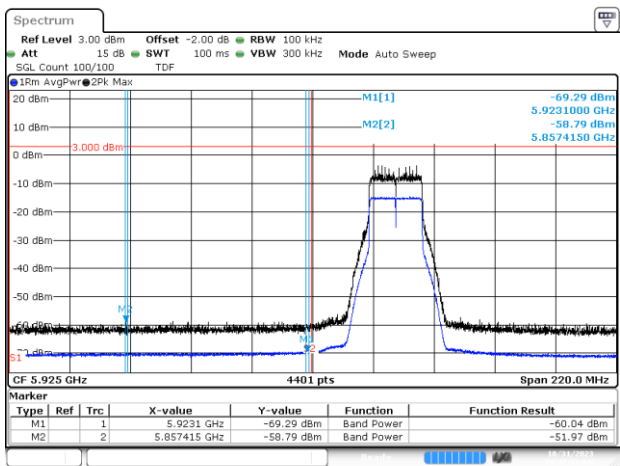
BE-NR-HIGH, SISO-B, 802.11ax/be160-MCS0, Ch207



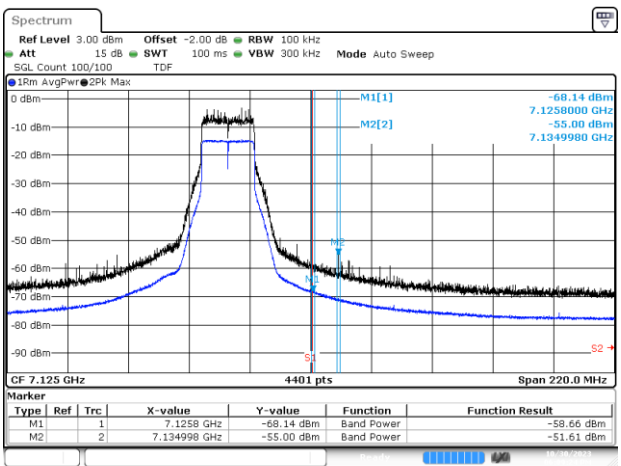
BE-NR-LOW, SISO-B, 802.11be320-MCS0, Ch31



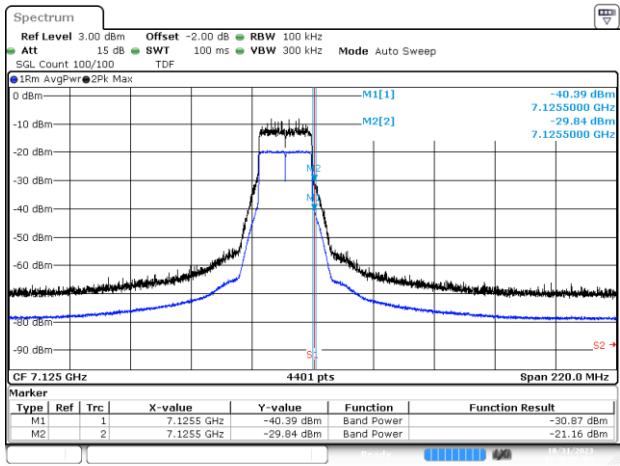
BE-NR-HIGH, SISO-B, 802.11be320-MCS0, Ch191



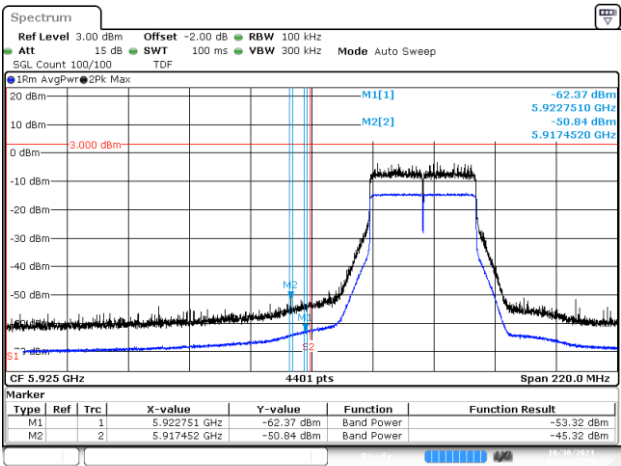
BE-NR-LOW, MIMO-A, 802.11ax/be20-MCS0, Ch1



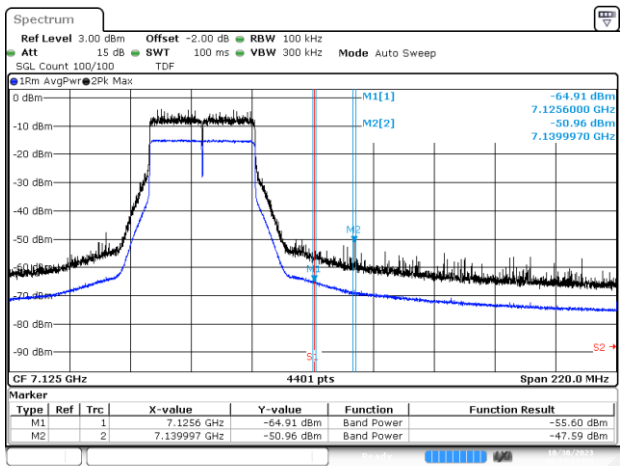
BE-NR-HIGH, MIMO-A, 802.11ax/be20-MCS0, Ch229



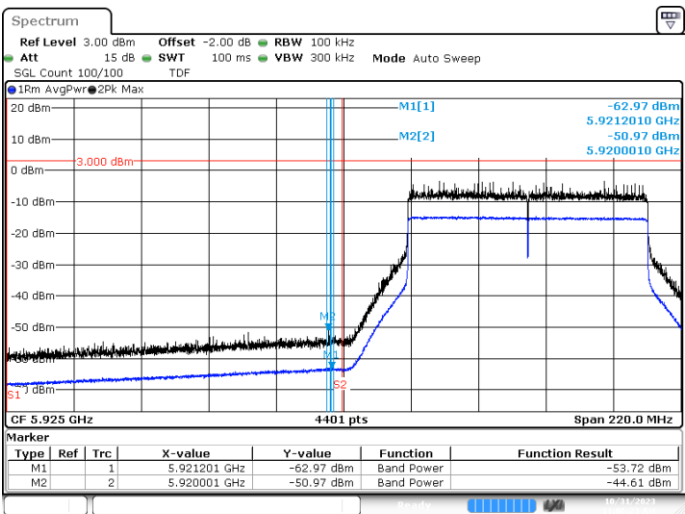
BE-NR-HIGH, MIMO-A, 802.11ax/be20-MCS0, Ch233



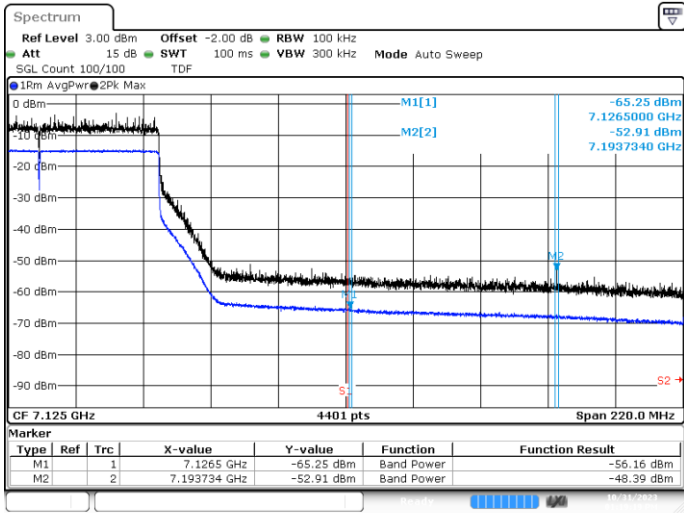
BE-NR-LOW, MIMO-A, 802.11ax/be40-MCS0, Ch3



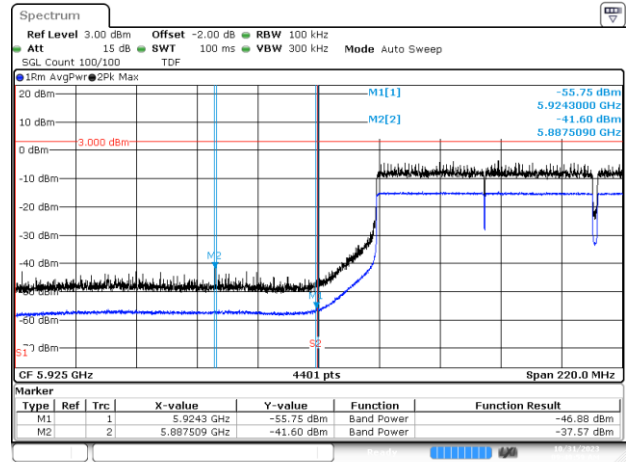
BE-NR-HIGH, MIMO-A, 802.11ax/be40-MCS0, Ch227



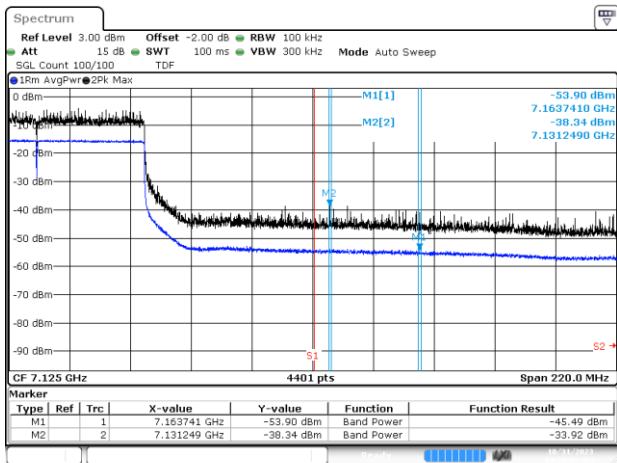
BE-NR-LOW, MIMO-A, 802.11ax/be80-MCS0, Ch7



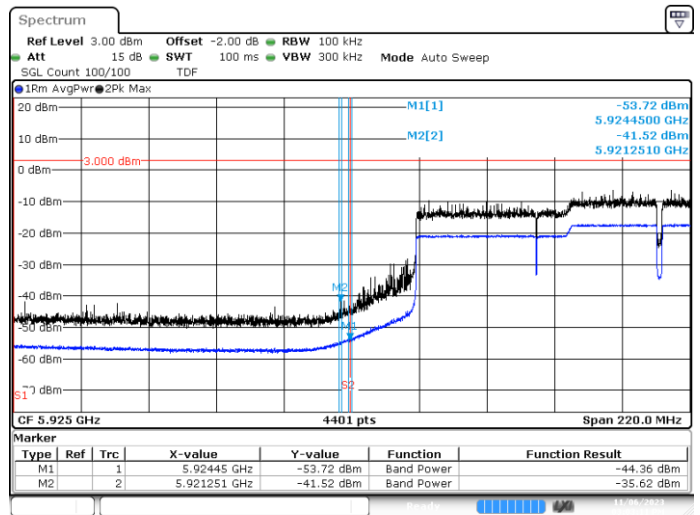
BE-NR-HIGH, MIMO-A, 802.11ax/be80-MCS0, Ch215



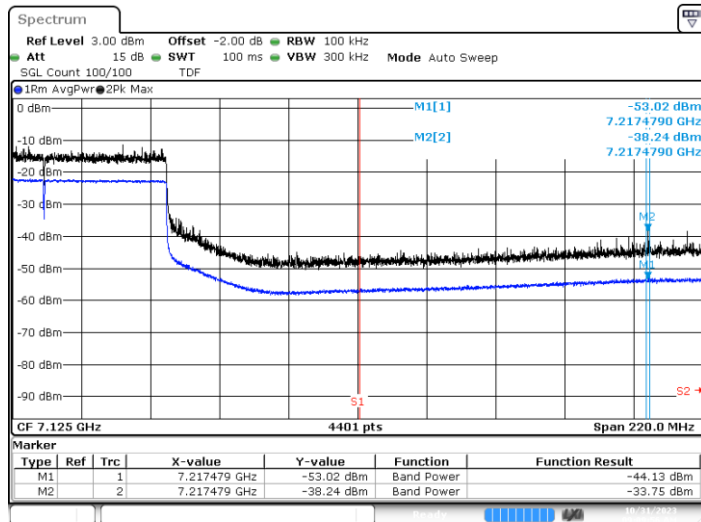
BE-NR-LOW, MIMO-A, 802.11ax/be160-MCS0, Ch15



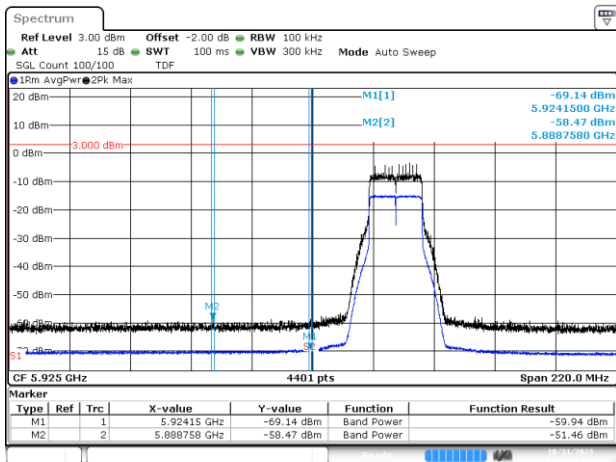
BE-NR-HIGH, MIMO-A, 802.11ax/be160-MCS0, Ch207



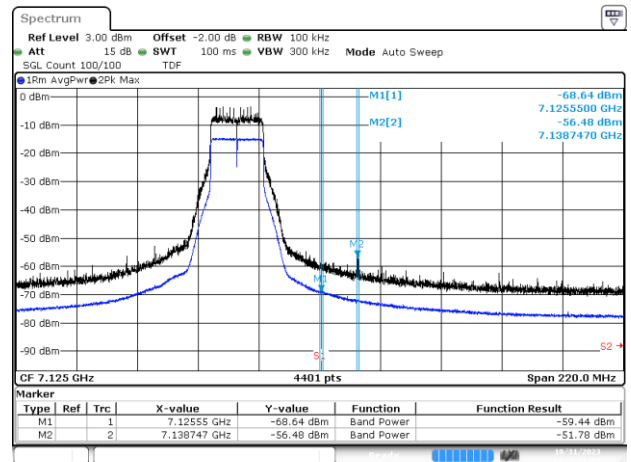
BE-NR-LOW, MIMO-A, 802.11be320-MCS0, Ch31



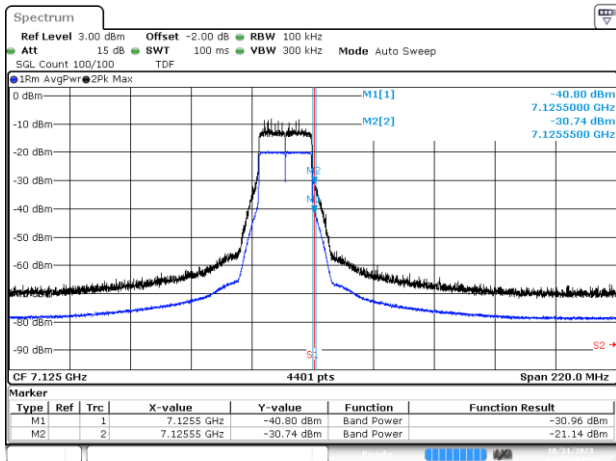
BE-NR-HIGH, MIMO-A, 802.11be320-MCS0, Ch191



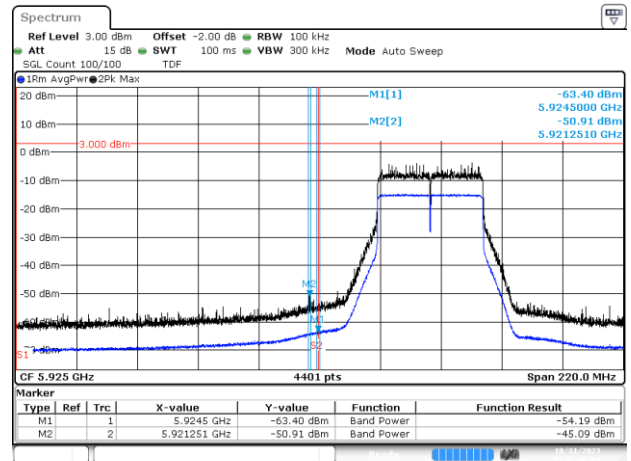
BE-NR-LOW, MIMO-B, 802.11ax/be20-MCS0, Ch1



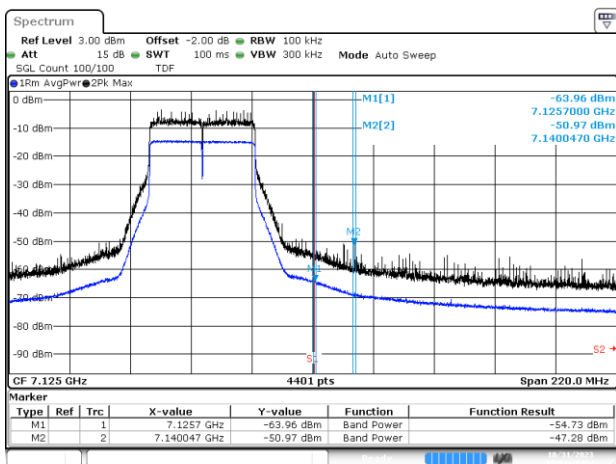
BE-NR-HIGH, MIMO-B, 802.11ax/be20-MCS0, Ch229



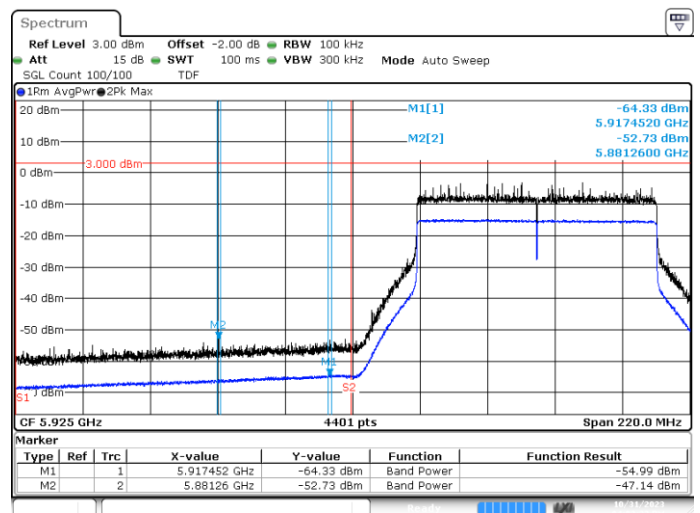
BE-NR-HIGH, MIMO-B, 802.11ax/be20-MCS0, Ch233



BE-NR-LOW, MIMO-B, 802.11ax/be40-MCS0, Ch3



BE-NR-HIGH, MIMO-B, 802.11ax/be40-MCS0, Ch227



BE-NR-LOW, MIMO-B, 802.11ax/be80-MCS0, Ch7