



# TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX211
Model Name	AX211D2WH
FCC ID	PD9AX211D2H
Date of Test Start/End	2022-02-03 / 2022-02-22
Features	802.11ax, Tri Band, 2x2 Wi-Fi 6E + Bluetooth® 5.2 (see section 5)

Applicant	Intel Mobile Communications
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Reference Standards	FCC CFR Title 47 Part 15 E (see section 1)
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Test Report identification	220117-04.TR01
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 \_\_\_\_\_

Khodor RIDA  
(Test Engineer Lead)

Zayd OUACHICHA  
(Technical Manager)

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## 1. Standards, reference documents and applicable test methods

1. FCC Title 47 CFR part 15 – Subpart E – Unlicensed National Information Infrastructure Devices. 2019-10-01 Edition
2. FCC Title 47 CFR part 15 - Subpart C – §15.209 Radiated emission limits; general requirements. 2019-10-01 Edition
3. 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 (Part 15, Subpart E).
4. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

## 2. General conditions, competences and guarantees

- ✓ 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 WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ 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	22.0°C ± 3.1°C
Humidity	36.3% ± 13.5%

#### 4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	220117-04.S01	WiFi 6E Module	AX211D2WH	7C0DA7F5B6AD	2022-01-19	Used for 30 MHz-1 GHz and 9.5-18 GHz Spurious Emissions tests
	180001-01.S21	Socket	Socket WsP/ThP /GfP/HrP	-	2021-06-07	
	200611-01.S09	Adapter	PowerBy SNJ A4	-	2020-11-30	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200803-01.S01	Extender	Adexelec	139245	2020-08-31	
	220117-04.S16	Laptop	Latitude 5401	7GJLK13	2022-02-11	
	220117-04.S11	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
	220117-04.S14	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
#02	220117-04.S03	WiFi 6E Module	AX211D2WH	2C0DA7F5BA4F	2022-01-19	Used for 1 GHz-9.5 GHz Spurious Emissions tests
	180000-01.S02	Socket	1216SD to M.2	-	2017-08-09	
	210611-02.S17	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	220117-04.S11	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
	220117-04.S14	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
#03	220117-04.S01	WiFi 6E Module	AX211D2WH	7C0DA7F5B6AD	2022-01-19	Used for 18 GHz-40 GHz Spurious Emissions tests
	180001-01.S21	Socket	Socket WsP/ThP /GfP/HrP	-	2021-06-07	
	200611-01.S09	Adapter	PowerBy SNJ A4	-	2020-11-30	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200611-03.S31	Extender	ADEXELEC	-	2020-08-19	
	200615-05.S09	Laptop	Latitude 5401	GVGLK13	2020-06-12	
	220117-04.S11	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
	220117-04.S14	Antenna 5GHz	WRF-8dBi-PIFA-5G	-	2022-02-09	
#4	220117-04.S05	WiFi 6E Module	AX211D2WH	2C0DA7F5B9B4	2022-01-19	RF Conducted
	180000-01.S01	Adapter 1216SD to M.2	Adapter M2	N/A	2017-08-09	
	170000-01.S02	Laptop	Latitude E5450	21HTPF2	2017-03-28	
	200611-01.S12	Extender	XVT EXTENDER SNJ A4	-	2020-11-30	

## 5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6E AX211		
Model Name	AX211D2WH		
Software Version	DRTU_00699_99.0.69C (used for RSE tests) DRTU_11195_99_2100_51G		
Driver Version	99.0.69.5		
Prototype / Production	Production		
Supported Radios	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)	
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz)	
		5.6GHz (5470.0 – 5725.0 MHz)	
		5.8GHz (5725.0 – 5895.0 MHz)	
	802.11ax	6.0GHz (5925.0 - 7125.0MHz)	
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)	
Antenna Information	Transmitter	Aux – port 1 (chain A)	Main – port 2 (chain B)
	Manufacturer	Intel	Intel
	Antenna type	PIFA	PIFA
	Part number	WRF-8dBi-PIFA-5G	WRF-8dBi-PIFA-5G
	Declared antenna gain (dBi) – 5 GHz	+8.39 dBi	+8.39 dBi

## 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 802.11 mode and test case measurements have been reported excepted for band edge measurements where all plots are reported

## 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 a/n/ac/ax – U-NII-1

FCC part	Test name	Verdict
15.407 (a) (1)	Maximum output power	P
15.407 (a) (1)	Power spectral density	P
15.407 (b) (1) 15.209	Undesirable emissions limits: Band Edge (conducted)	P
15.407 (b) (1) 15.209	Undesirable emissions limits: Spurious emissions (radiated)	P

### 7.2. 802.11 a/n/ac/ax – U-NII-2A

FCC part	Test name	Verdict
15.407 (a) (2)	Maximum output power	P
15.407 (a) (2)	Power spectral density	P
15.407 (b) (2) 15.209	Undesirable emissions limits: Band Edge (conducted)	P
15.407 (b) (2) 15.209	Undesirable emissions limits: Spurious emissions (radiated)	P

P: Pass  
 F: Fail  
 NM: Not Measured  
 NA: Not Applicable

## 8. Document Revision History

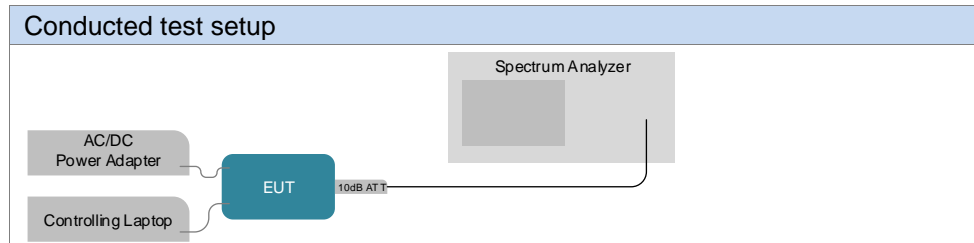
Revision #	Modified by	Revision Details
Rev. 00	N.BUI, V.KACULINI	First Issue

# Annex A. Test & System Description

## A.1 Measurement System

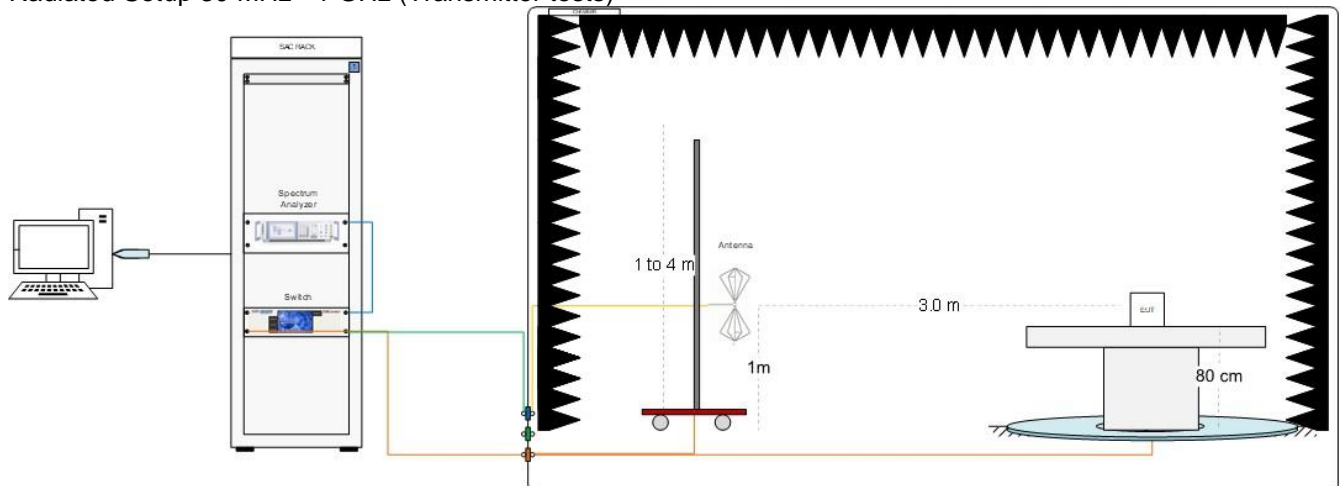
Measurements were performed using the following setups, made in accordance to the general provisions of FCC OET KDB 789033 D02 General UNII Test Procedures.

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.

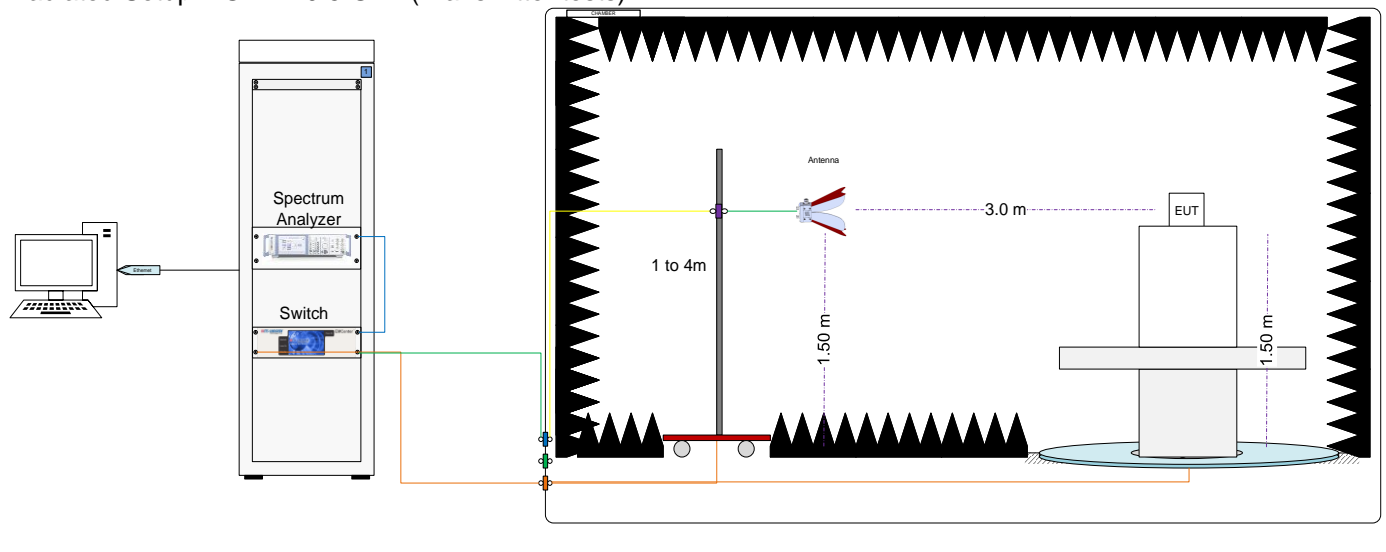


### Radiated test setup

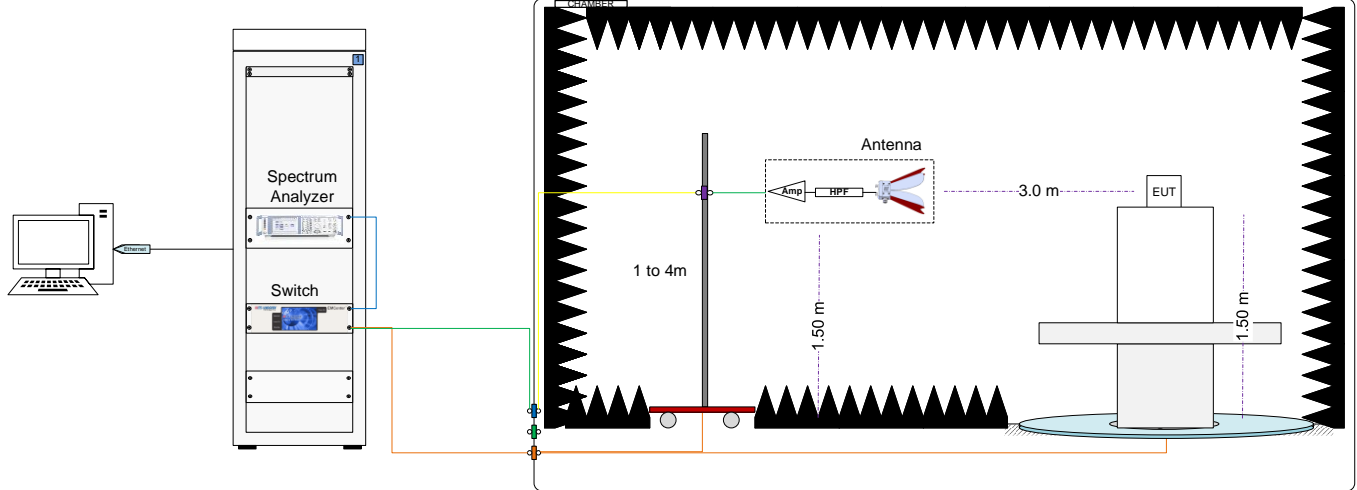
#### Radiated Setup 30 MHz - 1 GHz (Transmitter tests)



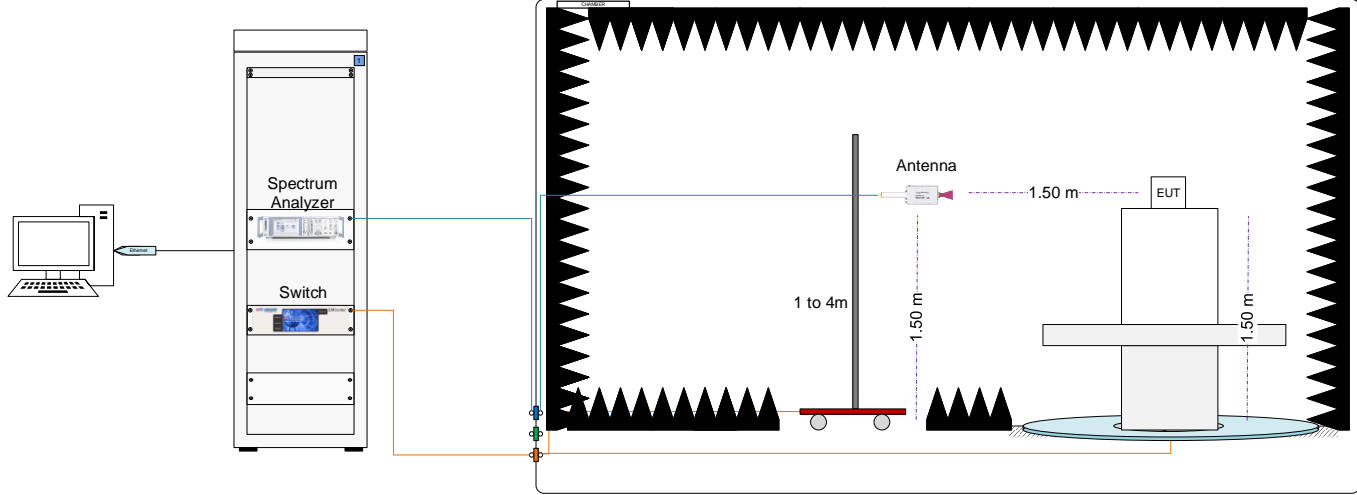
#### Radiated Setup 1 GHz – 9.5 GHz (Transmitter tests)



Radiated Setup 9.5 GHz - 18 GHz (Transmitter tests)



Radiated Setup 18 GHz – 40 GHz (Transmitter tests)



Sample Calculation

The spurious received voltage  $V(\text{dB}\mu\text{V})$  in the spectrum Analyzer is converted to Electric field strength using the transducer factor  $F$  corresponding to the Rx path Loss:

$$F \text{ (dB/m)} = \text{Rx Antenna Factor (dB/m)} + \text{Cable losses (dB)} - \text{Amplifiers Gain (dBi)}$$

$$E \text{ (dB}\mu\text{V/m)} = V(\text{dB}\mu\text{V}) + F \text{ (dB/m)}$$

For field strength measurements made at other than the distance at which the applicable limit is specified, the field strength of the emission at the distance specified by the limit is deduced as follows:

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \cdot \log(D_{\text{Meas}}/D_{\text{SpecLimit}})$$

where

- $E_{\text{SpecLimit}}$  is the field strength of the emission at the distance specified by the limit, in  $\text{dB}\mu\text{V/m}$
- $E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in  $\text{dB}\mu\text{V/m}$
- $D_{\text{Meas}}$  is the measurement distance, in  $m$
- $D_{\text{SpecLimit}}$  is the distance specified by the limit, in  $m$



## A.2 Test Equipment List

### Conducted setup

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
265-000	Spectrum Analyzer	FSV30	101318	Rohde & Schwarz	2020-05-28	2022-05-28
019-000*	RF cable 100cm	PE360-100CM	N/A	PASTERNAK	2022-02-04	2022-08-04
019-002*	10dB Attenuator + MH4	N/A	N/A	N/A	2022-02-04	2022-08-04
322-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89702	AVTECH	2021-09-02	2023-09-02
413-000	Measurement SW v1.5.4.2	Octopi	N/A	Step AT	N/A	N/A

\*Item not used during out of cal period

### Radiated Setup #1

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
006-000	Anechoic chamber	FACT 3	5720	ETS Lindgren	2022-01-12	2024-01-12
006-001	Turntable	-	-	ETS Lindgren	NA	NA
006-008	Measurement Software v11.30.00	EMC32	100623	Rohde & Schwarz	N/A	N/A
147-000	Spectrum analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
006-002	Switch & Positioning	EMC center	00159757	ETS Lindgren	N/A	N/A
006-011	Boresight antenna mast	BAM4.0-P	P/278/2890.01	Maturo	N/A	N/A
006-019	Biconical antenna 30 MHz – 1 GHz	UBAA9115 + BBVU9135 + DGA9552N	0286 + CH 9044	Schwarzbeck	2022-02-01	2024-02-01
006-020	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157734	ETS Lindgren	2021-08-05	2023-08-05
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2021-08-05	2023-08-05
006-058	RF Cable 7.5m	TestPro5	20 50 162	Radiall	2022-02-08	2022-08-08
006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2022-02-02	2022-08-02
006-030	RF Cable 1.2m	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-coax	2022-02-02	2022-08-02
006-034	RF Cable 1.0m	UFA147A	-	Utilflex	2022-02-02	2022-08-02
006-036	RF Cable 1.0m	UFB311A-0-0590-50U50U	MFR 64639 223230-001	Micro-coax	2022-02-02	2022-08-02
006-038	RF Cable 7.0m	R286304009	-	Radiall	2022-02-02	2022-08-02
006-039	RF Cable 2.5m	0500990992500KE	19.23.395	Radiall	2022-02-02	2022-08-02
365-000	Temperature & Humidity logger	RA12E-TH1-RAS	00-80-A3-E1-6E-55	Avtech	2021-03-08	2023-03-08

N/A: Not Applicable

Radiated Setup #2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
007-000	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2021-09-14	2023-09-14
007-002	Turntable	-	-	ETS Lindgren	N/A	N/A
007-003	Antenna Tower	2171B-3.0M	00150123	ETS Lindgren	N/A	N/A
007-006	Switch & Positioner	EMCenter	00151232	ETS Lindgren	N/A	N/A
007-005	Measurement SW, V11.20.00	EMC32	100401	Rohde & Schwarz	N/A	N/A
127-000	Spectrum Analyzer	FSV40	101358	Rohde & Schwarz	2021-01-15	2023-01-15
007-007	Double Ridge Horn (1-18GHz)	3117	00152266	ETS Lindgren	2020-03-18	2022-03-18
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis 00196308	ETS-Lindgren	2021-08-05	2023-08-05
007-022	RF Cable 1-18GHz, 1.5m	0501050991200GX	19.23.493	Radiall	2022-02-03	2022-08-03
007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2022-02-03	2022-08-03
007-011	RF Cable 1-18GHz – 6.5m	140-8500-11-51	001	Spectrum	2022-02-03	2022-08-03
007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2022-02-03	2022-08-03
007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2022-02-03	2022-08-03
007-023	RF Cable 1m DC-40GHz	PE360-100CM	-	Pasternack	2022-02-03	2022-08-03
007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2022-02-03	2022-08-03
325-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B9B7C6	Avtech	2022-01-17	2024-01-17

N/A: Not Applicable

Radiated Setup - shared equipments

Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
412-000	DRTU Power finder V2.0	-	-	Intel	NA	NA
139-000	Power Sensor	NRP-Z81	104383	Rohde & Schwarz	2021-04-07	2023-04-07
140-000	Power Sensor	NRP-Z81	104382	Rohde & Schwarz	2020-04-08	2022-04-08

### 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	$\pm 0.12$	%
Power Spectral density	$\pm 1.47$	dB
Occupied bandwidth	$\pm 2.07$	%
Conducted Power	$\pm 1.03$	dB
Conducted Out of band Emission <7 GHz	$\pm 1.67$	dB
Radiated tests <1GHz	$\pm 6.07$	dB
Radiated tests 1GHz – 40 GHz	$\pm 6.04$	dB

# Annex B. Test Results U-NII-1 & U-NII-2A

The herein test results were performed by:

Test case measurement	Test Personnel
26dB & 99% bandwidth	C.Requin, V.Kaculini
Power Limits. Maximum output power	C.Requin, V.Kaculini
Power spectral density	C.Requin, V.Kaculini
Undesirable emissions limits: Band Edge (conducted)	C.Requin, V.Kaculini
Undesirable emissions limits (radiated)	K.Khatib, R.Simonini, N.Bui

## B.1 Test Conditions

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ax40 (40MHz channel bandwidth), 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) and 802.11ac160 & 802.11ax160 (160MHz 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	802.11a	20	6Mbps
	802.11n	20	HT0
		40	HT0
	802.11ac	80	VHT0
		160	VHT0
	802.11ax	20	HE0
		40	HE0
		80	HE0
160		HE0	
MIMO	802.11n	20/40	HT8
	802.11ac	80/160	VHT0
	802.11ax	20/40/80/160	HE0

## B.2 Test Results Tables U-NII-1

### B.2.1 26dB & 99% Bandwidth

#### 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.

#### Results tables

Mode	Rate	Antenna	Channel	Freq [MHz]	26dB BW [MHz]	99% BW [MHz]			
802.11a	6Mbps	SISO A	36	5180	23.75	16.64			
			40	5200	23.90	16.64			
			48	5240	24.50	16.52			
		SISO B	36	5180	23.65	16.48			
			40	5200	23.75	16.52			
			48	5240	25.75	16.88			
802.11n20	HT0	SISO A	36	5180	24.90	17.80			
			40	5200	24.40	17.80			
			48	5240	24.85	17.72			
		SISO B	36	5180	24.25	17.76			
			40	5200	24.75	17.72			
			48	5240	26.50	17.84			
	HT8	MIMO A	36	5180	24.55	17.68			
			40	5200	24.10	17.76			
			48	5240	24.50	17.80			
		MIMO B	36	5180	24.50	17.76			
			40	5200	23.60	17.72			
			48	5240	24.15	17.72			
802.11n40	HT0	SISO A	38	5190	43.92	36.08			
			46	5230	45.63	36.24			
		SISO B	38	5190	43.74	36.08			
			46	5230	47.88	36.32			
	HT8	MIMO A	38	5190	44.64	36.08			
			46	5230	46.44	36.24			
		MIMO B	38	5190	43.02	36.08			
			46	5230	43.83	36.24			
			802.11ac80	VHT0	SISO A	42	5210	87.02	75.05
								SISO B	85.69
MIMO A	87.40	75.05							
MIMO B	86.07	75.05							
802.11ac160	VHT0	SISO A	50	5250	164.34	152.79			
					SISO B	165.00	153.45		
		MIMO A			164.67	153.12			
		MIMO B			165.66	152.79			

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	36	5180	Full	24.35	18.92
					26/0	20.80	18.28
					52/37	21.00	18.32
					106/53	21.85	18.16
			40	5200	Full	24.40	18.88
			48	5240	Full	25.00	18.88
		SISO B	36	5180	Full	24.55	18.92
					26/0	20.75	18.28
					52/37	21.80	18.24
					106/53	22.80	18.28
			40	5200	Full	25.30	18.88
			48	5240	Full	25.85	18.92
		MIMO A	36	5180	Full	24.40	19.00
					26/0	20.85	18.44
					52/37	20.85	18.36
					106/53	22.85	18.20
			40	5200	Full	23.75	18.92
			48	5240	Full	24.35	19.00
		MIMO B	36	5180	Full	23.80	18.92
					26/0	20.25	18.28
					52/37	20.05	18.16
					106/53	21.25	18.24
			40	5200	Full	23.40	18.96
			48	5240	Full	24.10	18.96
802.11ax40	HE0	SISO A	38	5190	Full	43.02	37.36
					242/61	24.57	18.96
		46	5230	Full	45.09	37.44	
				SISO B	38	5190	Full
		46	5230	242/61	24.21	18.96	
				Full	43.29	37.52	
		MIMO A	38	5190	Full	43.83	37.44
					242/61	24.21	18.72
		46	5230	Full	44.19	37.68	
				MIMO B	38	5190	Full
		46	5230	242/61	24.12	18.80	
				Full	44.10	37.60	
802.11ax80	HE0	SISO A	42	5210	Full	83.60	76.95
					484/65	43.13	37.62
		SISO B	42	5210	Full	84.93	76.76
					484/65	43.32	37.43
		MIMO A	42	5210	Full	84.36	76.57
					484/65	44.08	37.62
		MIMO B	42	5210	Full	84.36	76.76
					484/65	43.70	37.43
802.11ax160	HE0	SISO A	50	5250	Full	165.33	155.10
					996/67	94.38	77.22
					996/S67	87.12	76.89
		SISO B	50	5250	Full	165.00	155.10
					996/67	92.40	77.22
					996/S67	95.70	77.22
		MIMO A	50	5250	Full	164.67	155.10
					996/67	94.05	77.22
					996/S67	88.77	77.22
		MIMO B	50	5250	Full	164.67	154.77
					996/67	93.72	77.22
					996/S67	87.12	76.89

Max Value

See Section B.4.1 and Section B.4.2 for the screenshot results.

## B.2.2 Maximum Output power & Maximum power spectral density

### Test limits

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

### Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to section E) 2) e) (Method SA-2) of FCC OET KDB 789033 D02

The maximum power spectral density (PSD) was measured using the method according to section F (Method SA-2) of FCC OET KDB 789033 D02

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.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

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.

Results tables
Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.9
		SISO B	97.9
802.11n20	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax20	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.6
		MIMO B	98.6
802.11n40	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax40	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.3
		MIMO B	98.3
802.11ac80	VHT0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.4
		MIMO B	99.4
802.11ax80	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.4
		MIMO B	98.4
802.11ac160	VTH0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.1
		MIMO B	99.1
802.11ax160	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.3
		MIMO B	98.3



**Maximum output power**

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]	
802.11a	6Mbps	36	5180	SISO A	18.67	18.76	27.15	75.20	
				SISO B	18.32	18.41	26.80	69.38	
		40	5200	SISO A	18.65	18.74	27.13	74.85	
				SISO B	18.74	18.83	27.22	76.42	
		48	5240	SISO A	18.78	18.87	27.26	77.13	
				SISO B	18.52	18.61	27.00	72.65	
802.11n20	HT0	36	5180	SISO A	17.91	17.91	26.30	61.80	
				SISO B	17.76	17.76	26.15	59.70	
		40	5200	SISO A	18.77	18.77	27.16	75.34	
				SISO B	18.52	18.52	26.91	71.12	
		48	5240	SISO A	18.77	18.77	27.16	75.34	
				SISO B	18.36	18.36	26.75	68.55	
	HT8	36	5180	MIMO A	14.74	14.74	23.13	29.79	
				MIMO B	14.16	14.16	22.55	26.06	
				Combined A+B	17.47	17.47	25.86	55.85	
		40	5200	MIMO A	15.92	15.92	24.31	39.08	
				MIMO B	15.76	15.76	24.15	37.67	
				Combined A+B	18.85	18.85	27.24	76.75	
	48	5240	MIMO A	16.14	16.14	24.53	41.11		
			MIMO B	16.00	16.00	24.39	39.81		
			Combined A+B	19.08	19.08	27.47	80.93		
	802.11n40	HT0	38	5190	SISO A	17.17	17.17	25.56	52.12
					SISO B	16.94	16.94	25.33	49.43
			46	5230	SISO A	20.86	20.86	29.25	121.90
SISO B					20.88	20.88	29.27	122.46	
HT8		38	5190	MIMO A	12.72	12.72	21.11	18.71	
				MIMO B	12.75	12.75	21.14	18.84	
				Combined A+B	15.75	15.75	24.14	37.54	
		46	5230	MIMO A	18.33	18.33	26.72	68.08	
MIMO B				18.26	18.26	26.65	66.99		
Combined A+B				21.31	21.31	29.70	135.07		
802.11ac80		VHT0	42	5210	SISO A	15.13	15.13	23.52	32.58
					SISO B	15.18	15.18	23.57	32.96
	MIMO A				10.62	10.62	19.01	11.53	
	MIMO B				11.02	11.02	19.41	12.65	
	Combined A+B				13.83	13.83	22.22	24.18	
802.11ac160	VHT0	50	5250	SISO A	11.61	11.61	20.00	14.49	
				SISO B	11.98	11.98	20.37	15.78	
				MIMO A	9.43	9.43	17.82	8.77	
				MIMO B	9.75	9.75	18.14	9.44	
				Combined A+B	12.60	12.60	20.99	18.21	

\*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]		
802.11ax20	HE0	36	5180	SISO A	Full	18.20	18.20	26.59	66.07		
					26/0	10.97	10.97	19.36	12.50		
					52/37	13.55	13.55	21.94	22.65		
					106/53	16.26	16.26	24.65	42.27		
				SISO B	Full	17.94	17.94	26.33	62.23		
					26/0	10.90	10.90	19.29	12.30		
					52/37	13.51	13.51	21.90	22.44		
					106/53	16.33	16.33	24.72	42.95		
				MIMO A	Full	14.63	14.63	23.02	29.04		
					26/0	7.61	7.61	16.00	5.77		
					52/37	10.62	10.62	19.01	11.53		
					106/53	13.63	13.63	22.02	23.07		
		MIMO B	Full	13.98	13.98	22.37	25.00				
			26/0	8.09	8.09	16.48	6.44				
			52/37	10.50	10.50	18.89	11.22				
			106/53	13.73	13.73	22.12	23.60				
		Combined A+B	Full	17.33	17.33	25.72	54.04				
			26/0	10.87	10.87	19.26	12.22				
			52/37	13.57	13.57	21.96	22.75				
			106/53	16.69	16.69	25.08	46.67				
		40	5200	SISO A	Full	18.96	18.96	27.35	78.70		
					SISO B	Full	19.11	19.11	27.50	81.47	
					MIMO A	Full	16.03	16.03	24.42	40.09	
					MIMO B	Full	16.10	16.10	24.49	40.74	
					Combined A+B	Full	19.08	19.08	27.47	80.82	
		48	5240	SISO A	Full	18.98	18.98	27.37	79.07		
					SISO B	Full	18.58	18.58	26.97	72.11	
					MIMO A	Full	16.06	16.06	24.45	40.36	
					MIMO B	Full	15.90	15.90	24.29	38.90	
					Combined A+B	Full	18.99	18.99	27.38	79.27	
		802.11ax40	HE0	38	5190	SISO A	Full	16.75	16.75	25.14	47.32
							242/61	18.73	18.73	27.12	74.64
						SISO B	Full	17.42	17.42	25.81	55.21
							242/61	19.14	19.14	27.53	82.04
						MIMO A	Full	12.77	12.77	21.16	18.92
							242/61	12.97	12.97	21.36	19.82
MIMO B	Full					12.38	12.38	20.77	17.30		
	242/61					13.37	13.37	21.76	21.73		
Combined A+B	Full			15.59	15.59	23.98	36.22				
	242/61			16.18	16.18	24.57	41.54				
46	5230			SISO A	Full	20.61	20.61	29.00	115.08		
					SISO B	Full	20.46	20.46	28.85	111.17	
					MIMO A	Full	18.29	18.29	26.68	67.45	
					MIMO B	Full	18.30	18.30	26.69	67.61	
		Combined A+B	Full		21.31	21.31	29.70	135.06			
802.11ax80	HE0	42	5210	SISO A	Full	14.48	14.48	22.87	28.05		
					484/65	13.97	13.97	22.36	24.95		
				SISO B	Full	15.58	15.58	23.97	36.14		
					484/65	14.57	14.57	22.96	28.64		
				MIMO A	Full	9.71	9.71	18.10	9.35		
					484/65	8.46	8.46	16.85	7.01		
				MIMO B	Full	10.70	10.70	19.09	11.75		
					484/65	10.06	10.06	18.45	10.14		
				Combined A+B	Full	13.24	13.24	21.63	21.10		
					484/65	12.34	12.34	20.73	17.15		

\*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11ax160	HE0	50	5250	SISO A	Full	11.67	11.67	20.06	14.69
					996/67	13.40	13.40	21.79	21.88
					996/S67	12.64	12.64	21.03	18.37
				SISO B	Full	11.99	11.99	20.38	15.81
					996/67	13.54	13.54	21.93	22.59
					996/S67	12.47	12.47	20.86	17.66
				MIMO A	Full	9.74	9.74	18.13	9.42
					996/67	11.03	11.03	19.42	12.68
					996/S67	10.52	10.52	18.91	11.27
				MIMO B	Full	9.96	9.96	18.35	9.91
					996/67	10.78	10.78	19.17	11.97
					996/S67	8.97	8.97	17.36	7.89
				Combined A+B	Full	12.86	12.86	21.25	19.33
					996/67	13.92	13.92	22.31	24.64
					996/S67	12.82	12.82	21.21	19.16

\*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

**Maximum power spectral Density (PSD)**

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]	
802.11a	6Mbps	36	5180	SISO A	8.12	8.21	
				SISO B	7.96	8.05	
		40	5200	SISO A	8.22	8.31	
				SISO B	8.34	8.43	
		48	5240	SISO A	8.36	8.45	
				SISO B	8.03	8.12	
802.11n20	HT0	36	5180	SISO A	7.33	7.33	
				SISO B	7.13	7.13	
		40	5200	SISO A	8.06	8.06	
				SISO B	7.82	7.82	
		48	5240	SISO A	8.04	8.04	
				SISO B	7.64	7.64	
	HT8	36	5180	MIMO A	4.10	4.10	
				MIMO B	3.47	3.47	
				Combined A+B	6.81	6.81	
		40	5200	MIMO A	5.20	5.20	
				MIMO B	5.13	5.13	
				Combined A+B	8.18	8.18	
	48	5240	MIMO A	5.35	5.35		
			MIMO B	5.34	5.34		
			Combined A+B	8.36	8.36		
	802.11n40	HT0	38	5190	SISO A	3.20	3.20
					SISO B	2.81	2.81
			46	5230	SISO A	6.74	6.74
SISO B					6.73	6.73	
HT8		38	5190	MIMO A	-1.41	-1.41	
				MIMO B	-1.30	-1.30	
				Combined A+B	1.66	1.66	
		46	5230	MIMO A	4.24	4.24	
				MIMO B	4.19	4.19	
				Combined A+B	7.23	7.23	
				SISO A	-1.92	-1.92	
				SISO B	-1.93	-1.93	
802.11ac80	VHT0	42	5210	MIMO A	-6.47	-6.47	
				MIMO B	-6.14	-6.14	
				Combined A+B	-3.29	-3.29	
				SISO A	-8.21	-8.21	
802.11ac160	VHT0	50	5250	SISO B	-7.97	-7.97	
				MIMO A	-10.49	-10.49	
				MIMO B	-9.95	-9.95	
				Combined A+B	-7.20	-7.20	
				SISO A	-8.21	-8.21	
				SISO B	-7.97	-7.97	

\* Maximum values are the duty cycle compensated values calculated from the measured average values

Mode	Rate	#Ch	Freq [MHz]	Antenna	RU config.	Average cond.PSD [dBm/MHz]	Max*cond.PSD [dBm/MHz]	
802.11ax20	HE0	36	5180	SISO A	Full	7.39	7.39	
					26/0	8.40	8.40	
					52/37	8.20	8.20	
					106/53	7.87	7.87	
				SISO B	Full	7.34	7.34	
					26/0	8.40	8.40	
					52/37	8.24	8.24	
					106/53	7.88	7.88	
				MIMO A	Full	4.02	4.02	
					26/0	5.15	5.15	
					52/37	5.35	5.35	
					106/53	5.28	5.28	
		MIMO B	Full	3.11	5.35			
			26/0	5.42	5.42			
			52/37	5.33	5.33			
			106/53	5.43	5.43			
		Combined A+B	Full	6.60	6.60			
			26/0	8.30	8.30			
			52/37	8.35	8.35			
			106/53	8.37	8.37			
		40	5200	SISO A	Full	8.21	8.21	
					SISO B	Full	8.29	8.29
					MIMO A	Full	5.12	5.12
					MIMO B	Full	5.25	5.25
Combined A+B	Full				8.20	8.20		
48	5240	SISO A	Full	8.22	8.22			
			SISO B	Full	7.67	7.67		
			MIMO A	Full	5.21	5.21		
			MIMO B	Full	5.09	5.09		
			Combined A+B	Full	8.16	8.16		
802.11ax40	HE0	38	5190	SISO A	Full	2.52	2.52	
					242/61	7.85	7.85	
				SISO B	Full	3.42	3.42	
					242/61	8.16	8.16	
				MIMO A	Full	-0.98	-0.98	
					242/61	2.02	2.02	
				MIMO B	Full	-1.74	-1.74	
		242/61	2.64		2.64			
		Combined A+B	Full	1.67	1.67			
			242/61	5.35	5.35			
		46	5230	SISO A	Full	6.51	6.51	
					SISO B	Full	6.40	6.40
					MIMO A	Full	4.08	4.08
					MIMO B	Full	4.11	4.11
Combined A+B	Full				7.11	7.11		
802.11ax80	HE0	42	5210	SISO A	Full	-2.61	-2.61	
					484/65	-0.06	-0.06	
				SISO B	Full	-1.54	-1.54	
					484/65	0.42	0.42	
				MIMO A	Full	-7.36	-7.36	
					484/65	-5.55	-5.55	
				MIMO B	Full	-6.30	-6.30	
					484/65	-4.29	-4.29	
				Combined A+B	Full	-3.79	-3.79	
					484/65	-1.86	-1.86	
802.11ax160	HE0	50	5250	SISO A	Full	-8.07	-8.07	
					996/67	-3.65	-3.65	
					996/S67	-4.41	-4.41	
				SISO B	Full	-7.68	-7.68	
					996/67	-3.58	-3.58	
					996/S67	-4.62	-4.62	
				MIMO A	Full	-10.27	-10.27	
					996/67	-6.03	-6.03	
					996/S67	-6.75	-6.75	
				MIMO B	Full	-9.90	-9.90	
					996/67	-6.41	-6.41	
					996/S67	-8.11	-8.11	
				Combined A+B	Full	-7.07	-7.07	
					996/67	-3.21	-3.21	
996/S67	-4.37	-4.37						

\* Maximum values are the duty cycle compensated values calculated from the measured average values

**See Section B.4.3 for the screenshot results.**

### B.2.3 Undesirable emission limits : out of band (Conducted)

Test limits

FCC part	Limits																				
15.407 (b) (1)	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.																				
15.209	<p>Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):</p> <table border="1"> <thead> <tr> <th>Freq Range (MHz)</th> <th>Field Strength (µV/m)</th> <th>Field Strength (dBµV/m)</th> <th>Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td>30-88</td> <td>100</td> <td>40</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>43.5</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>46</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>54</td> <td>3</td> </tr> </tbody> </table> <p>The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</p>	Freq Range (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Meas. Distance (m)	30-88	100	40	3	88-216	150	43.5	3	216-960	200	46	3	Above 960	500	54	3
Freq Range (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Meas. Distance (m)																		
30-88	100	40	3																		
88-216	150	43.5	3																		
216-960	200	46	3																		
Above 960	500	54	3																		

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 (Nant) = 3dB for Nant = 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

In case of out of band measurements falling in restricted bands, the declared antenna gain is also compensated in the graph.

For out of band measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBµV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values	
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
Above 960	3	500	54.0	-41.2

**See Section B.4.4 for the screenshot results.**

## B.2.4 Radiated spurious emission

### Standard references

FCC part	Limits																																
15.407 (b) (1)	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.																																
15.209	<p>Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):</p> <table border="1"> <thead> <tr> <th>Freq Range (MHz)</th> <th>Field Strength (<math>\mu</math>V/m)</th> <th>Field Strength (dB<math>\mu</math>V/m)</th> <th>Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/f(kHz)</td> <td>-</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/f(kHz)</td> <td>-</td> <td>300</td> </tr> <tr> <td>1.705-30.0</td> <td>30</td> <td>-</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100</td> <td>40</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>43.5</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>46</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>54</td> <td>3</td> </tr> </tbody> </table> <p>The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</p>	Freq Range (MHz)	Field Strength ( $\mu$ V/m)	Field Strength (dB $\mu$ V/m)	Meas. Distance (m)	0.009-0.490	2400/f(kHz)	-	300	0.490-1.705	24000/f(kHz)	-	300	1.705-30.0	30	-	30	30-88	100	40	3	88-216	150	43.5	3	216-960	200	46	3	Above 960	500	54	3
Freq Range (MHz)	Field Strength ( $\mu$ V/m)	Field Strength (dB $\mu$ V/m)	Meas. Distance (m)																														
0.009-0.490	2400/f(kHz)	-	300																														
0.490-1.705	24000/f(kHz)	-	300																														
1.705-30.0	30	-	30																														
30-88	100	40	3																														
88-216	150	43.5	3																														
216-960	200	46	3																														
Above 960	500	54	3																														

### Test procedure

The radiated setup shown in section *Test & System Description* was used to measure the radiated spurious emissions. Depending of the frequency range and bands being tested, different antennas and filters were used. The final measurement is done by varying the antenna height, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration selected from the section B.2.2 and using the low, middle and high channels.

## Test Results

**Radiated spurious - 30 MHz to 1 GHz**
**All modes**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
33.5	27.2	Quasi-Peak	40.0	12.8	V
48.3	25.4	Quasi-Peak	40.0	14.6	V
51.0	25.4	Quasi-Peak	40.0	14.6	V
251.5	21.2	Quasi-Peak	46.0	24.8	H
279.1	19.9	Quasi-Peak	46.0	26.1	H

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

**Radiated spurious – 1 GHz to 40 GHz**
**802.11a**
**802.11a, 6Mbps, Chain A**
**CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6784.2	61.0	Peak	68.2	7.2	V
10359.0	52.0	Peak	68.2	16.2	V
39676.4	47.1	Average	54.0	6.9	V
39679.3	57.8	Peak	74.0	16.2	V

**CH40**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6980.2	61.8	Peak	68.2	6.4	H
10398.6	53.0	Peak	68.2	15.2	H
39661.7	57.8	Peak	74.0	16.2	V
39672.9	47.8	Average	54.0	6.2	H



**CH48**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1034.9	48.3	Average	54.0	5.7	H
1036.4	55.4	Peak	74.0	18.6	H
10478.4	53.5	Peak	68.2	14.7	V
39670.0	47.7	Average	54.0	6.3	V
39672.4	56.8	Peak	74.0	17.2	V

**802.11a, 6Mbps, Chain B****CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6995.8	62.1	Peak	68.2	6.1	H
10357.6	50.7	Peak	68.2	17.5	H
39760.0	47.2	Average	54.0	6.8	V
39759.4	56.3	Peak	74.0	17.7	V

**CH40**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6998.6	58.9	Peak	68.2	9.3	V
10401.5	50.5	Peak	68.2	17.7	H
39661.7	57.0	Peak	74.0	17.0	V
39667.6	47.9	Average	54.0	6.1	V

### CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1034.9	53.7	Peak	74.0	20.3	V
1034.9	43.7	Average	54.0	10.3	H
3929.7	41.0	Average	54.0	13.0	V
3930.1	50.3	Peak	74.0	23.7	V
6548.1	57.5	Peak	68.2	10.7	H
17970.2	54.5	Peak	74.0	19.5	H
17971.7	44.1	Average	54.0	9.9	V
39667.6	56.1	Peak	74.0	17.9	V
39669.5	47.8	Average	54.0	6.2	H

### 802.11n

### 802.11n20, HT0, Chain A

### CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6647.8	62.0	Peak	68.2	6.2	H
10360.4	53.8	Peak	68.2	14.4	V
39668.5	56.7	Peak	74.0	17.3	V
39671.5	47.5	Average	54.0	6.5	H

### CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6985.9	61.5	Peak	68.2	6.7	H
10401.5	51.9	Peak	68.2	16.3	H
39793.2	47.5	Average	54.0	6.5	V
39797.1	57.6	Peak	74.0	16.4	H

**CH48**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1034.9	47.5	Average	54.0	6.5	H
1038.7	55.0	Peak	74.0	19.1	H
10481.8	53.5	Peak	68.2	14.7	V
39637.2	47.5	Average	54.0	6.5	H
39637.7	56.0	Peak	74.0	18.0	V

**802.11n20, HT0, Chain B****CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6983.1	61.4	Peak	68.2	6.8	V
10362.3	50.2	Peak	68.2	18.0	H
39997.6	47.6	Average	54.0	6.4	V
39999.5	58.3	Peak	74.0	15.7	V

**CH40**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6501.4	55.6	Peak	68.2	12.6	V
6849.9	57.4	Peak	68.2	10.8	H
10401.9	50.1	Peak	68.2	18.1	H
39723.8	47.7	Average	54.0	6.3	H
39728.2	56.1	Peak	74.0	17.9	V

## CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1035.4	53.1	Peak	74.0	20.9	H
1035.4	43.2	Average	54.0	10.8	H
17996.7	56.0	Peak	74.0	18.0	H
17999.1	44.2	Average	54.0	9.8	V
39669.5	47.7	Average	54.0	6.3	V
39671.0	57.1	Peak	74.0	16.9	H

## 802.11n20, HT8, Chain A+B

## CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
6990.6	62.1	Peak	68.2	6.0	H
10360.4	51.9	Peak	68.2	16.3	H
39657.8	46.5	Average	54.0	7.5	H
39657.8	56.7	Peak	74.0	17.3	H

## CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
6962.3	61.0	Peak	68.2	7.2	H
10399.1	50.7	Peak	68.2	17.5	H
39659.2	47.8	Average	54.0	6.2	V
39660.2	56.3	Peak	74.0	17.7	H

**CH48**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1034.5	56.1	Peak	74.0	17.9	H
1034.5	47.1	Average	54.0	6.9	H
6554.3	56.8	Peak	68.2	11.4	H
10481.8	51.7	Peak	68.2	16.5	H
39688.1	47.5	Average	54.0	6.5	H
39690.5	57.2	Peak	74.0	16.8	H

**802.11n40, HT0, Chain A****CH38**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
6973.1	61.1	Peak	68.2	7.1	H
10376.4	51.7	Peak	68.2	16.5	V
39659.7	56.7	Peak	74.0	17.3	H
39666.1	47.2	Average	54.0	6.8	V

**CH46**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1031.6	40.2	Average	54.0	13.8	H
1032.1	49.4	Peak	74.0	24.6	H
10459.6	51.7	Peak	68.2	16.5	V
39650.0	57.2	Peak	74.0	16.8	V
39652.9	47.7	Average	54.0	6.3	V

**802.11n40, HT0, Chain B**
**CH38**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6490.1	55.4	Peak	68.2	12.8	V
17999.1	55.4	Peak	74.0	18.6	V
18000.0	44.2	Average	54.0	9.8	H
39655.8	47.5	Average	54.0	6.5	V
39657.8	56.2	Peak	74.0	17.8	H

**CH46**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1021.7	50.6	Peak	74.0	23.4	H
1022.7	41.9	Average	54.0	12.1	H
3921.6	50.3	Peak	74.0	23.7	H
3922.6	40.6	Average	54.0	13.4	V
17999.1	56.2	Peak	74.0	17.8	H
17999.5	44.2	Average	54.0	9.8	V
39969.7	47.9	Average	54.0	6.2	V
39972.1	57.2	Peak	74.0	16.8	H

**802.11n40, HT8, Chain A+B**
**CH38**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6933.9	60.6	Peak	68.2	7.6	H
17999.1	55.0	Peak	74.0	19.0	V
17999.1	44.2	Average	54.0	9.8	V
39673.9	57.1	Peak	74.0	16.9	H
39673.9	47.7	Average	54.0	6.3	H

## CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1023.6	41.4	Average	54.0	12.6	H
1024.6	53.0	Peak	74.0	21.0	H
10460.5	50.0	Peak	68.2	18.2	V
39642.1	48.0	Average	54.0	6.0	H
39642.6	57.7	Peak	74.0	16.3	H

## 802.11ac

## 802.11ac80, VHT0, Chain A

## CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1004.7	52.0	Peak	74.0	22.0	H
1004.7	42.5	Average	54.0	11.5	H
17996.7	55.5	Peak	74.0	18.5	H
17998.1	44.3	Average	54.0	9.7	H
39643.6	57.7	Peak	74.0	16.3	V
39647.5	47.9	Average	54.0	6.1	H

## 802.11ac80, VHT0, Chain B

## CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1004.7	40.1	Average	54.0	13.9	H
1004.7	51.3	Peak	74.0	22.7	H
17987.7	44.4	Average	54.0	9.6	H
17988.7	55.6	Peak	74.0	18.4	H
39650.0	58.3	Peak	74.0	15.7	V
39651.4	47.2	Average	54.0	6.8	V

### 802.11ac80, VHT0, Chain A+B

#### CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1010.9	42.0	Average	54.0	12.1	H
1013.2	50.7	Peak	74.0	23.3	H
17994.3	55.5	Peak	74.0	18.5	V
17995.8	44.3	Average	54.0	9.7	H
39872.9	47.5	Average	54.0	6.5	V
39875.3	56.1	Peak	74.0	17.9	H

### 802.11ac160, VHT0, Chain A

#### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3937.2	50.5	Peak	74.0	23.5	V
3937.7	41.8	Average	54.0	12.2	V
6572.7	56.7	Peak	68.2	11.5	V
17990.1	55.5	Peak	74.0	18.6	V
17990.1	44.2	Average	54.0	9.8	V
39683.7	47.7	Average	54.0	6.3	V
39688.1	56.5	Peak	74.0	17.4	V



### 802.11ac160, VHT0, Chain B

#### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
3937.2	42.3	Average	54.0	11.7	V
3937.7	50.0	Peak	74.0	24.0	V
6562.3	57.5	Peak	68.2	10.7	V
17984.9	54.7	Peak	74.0	19.3	V
17984.9	44.3	Average	54.0	9.7	H
39785.9	56.8	Peak	74.0	17.2	H
39792.7	46.9	Average	54.0	7.1	V

### 802.11ac160, VHT0, Chain A+B

#### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
3937.2	51.0	Peak	74.0	22.9	V
3937.2	44.0	Average	54.0	10.0	V
6562.8	56.9	Peak	68.2	11.3	H
17984.4	43.7	Average	54.0	10.3	V
17984.9	54.6	Peak	74.0	19.4	H
39663.6	47.8	Average	54.0	6.2	V
39664.6	57.0	Peak	74.0	17.0	H

**802.11ax****802.11ax20, HE0, Chain A****CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6972.2	57.5	Peak	68.2	10.7	V
10342.4	50.5	Peak	68.2	17.7	H
39638.7	47.5	Average	54.0	6.5	H
39644.1	56.2	Peak	74.0	17.8	V

**CH40**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
5371.8	45.3	Average	54.0	8.7	H
5372.3	54.7	Peak	74.0	19.3	H
5430.9	55.7	Peak	74.0	18.3	H
5431.8	45.9	Average	54.0	8.1	H
6491.5	56.1	Peak	68.2	12.1	V
10382.1	51.7	Peak	68.2	16.5	V
39662.2	47.8	Average	54.0	6.2	V
39666.1	57.2	Peak	74.0	16.8	V

**CH48**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1026.4	44.7	Average	54.0	9.3	H
1026.9	53.1	Peak	74.0	20.9	H
3929.7	41.0	Average	54.0	13.0	V
3930.1	50.3	Peak	74.0	23.7	V
5411.0	54.9	Peak	74.0	19.1	H
5412.0	45.4	Average	54.0	8.6	H
5471.0	54.0	Peak	68.2	14.2	H
6528.3	57.2	Peak	68.2	11.0	H
10462.4	50.9	Peak	68.2	17.3	V
39643.6	57.6	Peak	74.0	16.4	V
39643.6	47.7	Average	54.0	6.3	V

**802.11ax20, HE0, Chain B****CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
5351.5	54.4	Peak	74.0	19.6	H
5351.5	43.8	Average	54.0	10.2	H
5412.0	44.0	Average	54.0	10.0	H
5413.9	52.9	Peak	74.0	21.1	H
6467.4	55.9	Peak	68.2	12.3	H
6475.9	55.6	Peak	68.2	12.6	V
10344.8	49.6	Peak	68.2	18.6	H
39669.0	47.7	Average	54.0	6.3	V
39671.0	57.3	Peak	74.0	16.7	V

## CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
5371.8	43.8	Average	54.0	10.2	H
5384.6	53.6	Peak	74.0	20.4	H
5431.8	53.7	Peak	74.0	20.3	H
5431.8	44.2	Average	54.0	9.8	H
6491.9	55.6	Peak	68.2	12.6	H
6498.1	55.4	Peak	68.2	12.8	H
10382.1	49.2	Peak	68.2	19.0	H
39657.8	47.5	Average	54.0	6.5	H
39664.6	56.8	Peak	74.0	17.2	H

## CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1026.4	49.0	Peak	74.0	25.0	H
1026.4	41.2	Average	54.0	12.8	H
1243.2	47.3	Peak	74.0	26.7	H
1243.2	33.0	Average	54.0	21.0	H
6541.5	56.4	Peak	68.2	11.8	V
10462.9	49.1	Peak	68.2	19.1	V
39787.8	56.3	Peak	74.0	17.7	V
39789.3	47.7	Average	54.0	6.3	H

## 802.11ax20, HE0, Chain A+B

### CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6475.9	56.0	Peak	68.2	12.2	V
10342.0	49.7	Peak	68.2	18.5	V
39658.8	48.0	Average	54.0	6.0	V
39666.6	56.9	Peak	74.0	17.1	H

### CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3899.4	50.2	Peak	74.0	23.8	V
3899.9	42.2	Average	54.0	11.8	V
5371.8	55.1	Peak	74.0	18.9	H
5371.8	44.7	Average	54.0	9.3	H
5431.3	53.9	Peak	74.0	20.1	H
5431.3	44.8	Average	54.0	9.2	H
6500.0	56.6	Peak	68.2	11.6	V
10383.5	49.9	Peak	68.2	18.4	V
39699.8	47.6	Average	54.0	6.4	H
39707.2	57.0	Peak	74.0	17.1	H

### CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1026.0	51.5	Peak	74.0	22.5	H
1026.4	42.8	Average	54.0	11.2	H
3929.7	44.0	Average	54.0	10.0	V
3930.1	51.7	Peak	74.0	22.3	V
6550.0	57.1	Peak	68.2	11.1	V
10463.8	49.6	Peak	68.2	18.6	V
39649.5	47.3	Average	54.0	6.7	H
39650.4	56.1	Peak	74.0	17.9	V

## 802.11ax40, HE0, Chain A

### CH38F

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1241.8	46.0	Peak	74.0	28.0	H
1242.7	32.9	Average	54.0	21.1	H
5370.9	53.5	Peak	74.0	20.5	H
5373.7	45.2	Average	54.0	8.8	H
5433.7	53.8	Peak	74.0	20.2	H
5434.2	44.9	Average	54.0	9.1	H
10388.2	51.5	Peak	68.2	16.7	V
39637.2	57.0	Peak	74.0	17.0	V
39638.7	48.0	Average	54.0	6.0	H

### CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1027.9	53.4	Peak	74.0	20.6	H
1028.3	45.7	Average	54.0	8.3	H
3922.6	49.6	Peak	74.0	24.4	V
3922.6	41.1	Average	54.0	12.9	V
5412.9	45.5	Average	54.0	8.5	H
5413.9	55.3	Peak	74.0	18.7	H
5472.9	54.1	Peak	68.2	14.1	H
10466.2	51.3	Peak	68.2	16.9	H
39789.3	47.8	Average	54.0	6.2	V
39793.2	57.2	Peak	74.0	16.8	V

## 802.11ax40, HE0, Chain B

### CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
5373.7	43.3	Average	54.0	10.7	H
5381.3	52.8	Peak	74.0	21.2	V
5432.8	53.1	Peak	74.0	20.9	H
5434.2	43.6	Average	54.0	10.4	H
10384.5	49.5	Peak	68.2	18.7	H
39912.5	56.2	Peak	74.0	17.8	V
39913.0	47.8	Average	54.0	6.2	H

### CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1027.4	49.2	Peak	74.0	24.8	H
1028.3	40.2	Average	54.0	13.8	H
3919.8	50.1	Peak	74.0	23.9	H
3922.6	41.2	Average	54.0	12.8	V
5411.5	54.1	Peak	74.0	19.9	H
5412.9	43.5	Average	54.0	10.5	H
5473.4	53.5	Peak	68.2	14.7	H
17997.6	55.8	Peak	74.0	18.2	V
17997.6	44.2	Average	54.0	9.8	V
39653.9	47.9	Average	54.0	6.1	V
39654.4	56.7	Peak	74.0	17.3	H

## 802.11ax40, HE0, Chain A+B

### CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
5373.7	44.6	Average	54.0	9.4	H
5374.2	53.7	Peak	74.0	20.3	H
5432.8	54.4	Peak	74.0	19.6	H
5432.8	44.4	Average	54.0	9.6	H
6488.2	56.2	Peak	68.2	12.0	V
10386.4	49.7	Peak	68.2	18.5	H
39651.9	47.6	Average	54.0	6.4	V
39652.4	57.5	Peak	74.0	16.5	H

### CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1027.9	52.5	Peak	74.0	21.5	H
1027.9	40.9	Average	54.0	13.1	H
3922.6	50.7	Peak	74.0	23.3	V
3922.6	44.0	Average	54.0	10.0	V
5413.9	44.9	Average	54.0	9.1	H
5414.3	56.2	Peak	74.0	17.8	H
5473.8	54.6	Peak	68.2	13.6	H
10466.2	48.7	Peak	68.2	19.5	H
39644.1	57.1	Peak	74.0	16.9	H
39646.0	48.0	Average	54.0	6.0	H



## 802.11ax80, HE0, Chain A

### CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1009.4	54.9	Peak	74.0	19.1	H
1009.4	46.8	Average	54.0	7.2	H
3907.5	41.1	Average	54.0	12.9	V
3909.4	50.4	Peak	74.0	23.6	H
6512.7	55.5	Peak	68.2	12.7	V
6516.0	55.7	Peak	68.2	12.5	V
10428.4	51.0	Peak	68.2	17.1	H
39650.9	47.4	Average	54.0	6.6	V
39652.9	57.0	Peak	74.0	17.0	V

## 802.11ax80, HE0, Chain B

### CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1009.0	50.5	Peak	74.0	23.5	H
1009.4	40.6	Average	54.0	13.4	H
5394.5	44.0	Average	54.0	10.0	H
5398.3	52.5	Peak	74.0	21.6	V
5454.0	44.7	Average	54.0	9.3	H
5454.9	53.5	Peak	74.0	20.5	H
6517.0	56.8	Peak	68.2	11.4	V
10426.5	50.1	Peak	68.2	18.1	H
39667.6	47.6	Average	54.0	6.3	H
39668.5	56.6	Peak	74.0	17.4	V

### 802.11ax80, HE0, Chain A+B

#### CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1009.0	53.4	Peak	74.0	20.6	H
1009.4	42.1	Average	54.0	11.9	H
3894.2	50.8	Peak	74.0	23.2	H
3907.5	42.4	Average	54.0	11.6	V
5395.0	44.6	Average	54.0	9.4	H
5454.5	54.5	Peak	74.0	19.5	H
5454.5	45.2	Average	54.0	8.8	H
6512.2	56.4	Peak	68.2	11.8	V
10427.9	49.5	Peak	68.2	18.7	V
39646.0	56.6	Peak	74.0	17.4	H
39647.0	47.6	Average	54.0	6.4	V

### 802.11ax160, HE0, Chain A

#### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1030.2	52.1	Peak	74.0	21.9	H
1030.2	44.3	Average	54.0	9.7	H
1241.3	33.4	Average	54.0	20.6	H
1241.3	48.7	Peak	74.0	25.3	H
3937.2	50.1	Peak	74.0	23.9	V
3937.7	41.2	Average	54.0	12.8	V
5415.3	45.6	Average	54.0	8.4	H
5415.8	56.0	Peak	74.0	18.0	H
5475.7	54.5	Peak	68.2	13.7	H
6547.7	56.8	Peak	68.2	11.4	V
10471.8	51.4	Peak	68.2	16.8	H
39639.2	47.8	Average	54.0	6.2	V
39650.0	57.1	Peak	74.0	16.9	V

## 802.11ax160, HE0, Chain B

### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1029.8	48.9	Peak	74.0	25.1	H
1030.2	40.3	Average	54.0	13.7	H
3935.3	49.5	Peak	74.0	24.5	V
3937.7	41.9	Average	54.0	12.1	V
5415.3	44.4	Average	54.0	9.6	H
5415.8	54.9	Peak	74.0	19.1	H
6547.2	56.5	Peak	68.2	11.7	V
6562.3	56.0	Peak	68.2	12.2	H
17986.8	55.3	Peak	74.0	18.7	V
17991.5	44.0	Average	54.0	10.0	H
39647.0	47.5	Average	54.0	6.5	H
39650.0	57.0	Peak	74.0	17.0	V

## 802.11ax160, HE0, Chain A+B

### CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1030.2	41.8	Average	54.0	12.2	H
1030.7	54.3	Peak	74.0	19.7	H
3937.7	51.3	Peak	74.0	22.7	V
3937.7	44.8	Average	54.0	9.2	V
5415.3	55.2	Peak	74.0	18.8	H
5415.3	45.2	Average	54.0	8.8	H
6546.7	56.3	Peak	68.2	11.9	H
6562.8	56.3	Peak	68.2	11.9	V
10469.9	49.5	Peak	68.2	18.7	V
39649.9	57.0	Peak	74.0	17.0	V
39647.0	47.5	Average	54.0	6.6	H

### B.3 Test Results Tables U-NII-2A

#### B.3.1 26dB & 99% Bandwidth

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 through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

Results tables

Mode	Rate	Antenna	Channel	Freq [MHz]	26dB BW [MHz]	99% BW [MHz]			
802.11a	6Mbps	SISO A	52	5260	24.55	16.80			
			56	5280	24.70	16.72			
			64	5320	24.20	16.68			
		SISO B	52	5260	25.25	16.84			
			56	5280	26.10	16.76			
			64	5320	23.90	16.56			
802.11n20	HT0	SISO A	52	5260	24.75	17.72			
			56	5280	24.95	17.80			
			64	5320	23.95	17.64			
		SISO B	52	5260	26.10	17.88			
			56	5280	27.05	18.00			
			64	5320	24.20	17.76			
	HT8	MIMO A	52	5260	25.05	17.76			
			56	5280	25.25	17.80			
			64	5320	25.25	17.80			
		MIMO B	52	5260	24.00	17.72			
			56	5280	24.05	17.80			
			64	5320	23.95	17.72			
802.11n40	HT0	SISO A	54	5270	45.00	36.24			
			62	5310	43.56	36.16			
		SISO B	54	5270	47.52	36.32			
			62	5310	43.29	36.08			
	HT8	MIMO A	54	5270	45.63	36.16			
			62	5310	44.01	36.16			
		MIMO B	54	5270	46.35	36.32			
			62	5310	42.84	36.24			
			802.11ac80	VHT0	SISO A	58	5290	88.16	75.05
					SISO B			87.59	75.05
MIMO A	87.59	75.05							
MIMO B	85.50	75.05							

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	52	5260	Full	25.55	18.92
			56	5280	Full	24.90	18.92
			64	5320	Full	24.05	18.92
					26/8	21.25	18.36
					52/40	21.75	18.16
					106/54	23.50	17.36
		SISO B	52	5260	Full	26.15	19.00
			56	5280	Full	26.90	19.12
			64	5320	Full	24.35	18.92
					26/8	21.30	18.48
					52/40	21.85	18.20
					106/54	24.05	18.08
		MIMO A	52	5260	Full	24.50	18.92
			56	5280	Full	23.65	18.96
			64	5320	Full	24.05	18.96
					26/8	21.40	18.52
					52/40	21.80	17.24
					106/54	22.50	18.08
		MIMO B	52	5260	Full	24.05	18.92
			56	5280	Full	23.75	18.88
			64	5320	Full	24.30	18.92
					26/8	20.60	18.28
					52/40	20.40	17.68
					106/54	22.40	17.92
802.11ax40	HE0	SISO A	54	5270	Full	44.28	37.68
			62	5310	Full	42.66	37.44
					242/62	24.66	18.72
		SISO B	54	5270	Full	46.26	37.44
			62	5310	Full	42.48	37.60
					242/62	24.12	18.88
		MIMO A	54	5270	Full	44.46	37.60
			62	5310	Full	43.11	37.52
					242/62	24.57	18.88
		MIMO B	54	5270	Full	45.36	37.76
			62	5310	Full	43.47	37.44
					242/62	24.57	18.72
802.11ax80	HE0	SISO A	58	5290	Full	85.50	76.57
					484/66	44.08	37.43
		SISO B			Full	83.03	76.76
		484/66			42.94	37.43	
		MIMO A			Full	84.74	76.57
		484/66			43.70	37.43	
		MIMO B			Full	84.17	76.57
					484/66	43.89	37.43

Max Value

See Section B.5.1 and Section B.5.2 for the screenshot results.

### B.3.2 Maximum Output power & Maximum power spectral density

#### Test limits

FCC part	Limits
15.407 (a) (2)	For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.

#### Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to section E) 2) e) (Method SA-2) of FCC OET KDB 789033 D02

The maximum power spectral density (PSD) was measured using the method according to section F (Method SA-2) of FCC OET KDB 789033 D02

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.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power. The declared maximum antenna gain is +5dBi.

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.

Results tables
Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.9
		SISO B	97.9
802.11n20	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax20	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.6
		MIMO B	98.6
802.11n40	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax40	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.3
		MIMO B	98.3
802.11ac80	VHT0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.4
		MIMO B	99.4
802.11ax80	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.4
		MIMO B	98.4
802.11ac160	VTH0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.1
		MIMO B	99.1
802.11ax160	HE0	SISO A	98.4
		SISO B	98.4
		MIMO A	98.3
		MIMO B	98.3

Maximum output power

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Output Power [dBm]	Avg Max* Conducted Output Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11a	6Mbps	52	5260	SISO A	18.72	18.81	27.20	76.07
				SISO B	18.53	18.62	27.01	72.81
		56	5280	SISO A	18.62	18.71	27.10	74.34
				SISO B	18.27	18.36	26.75	68.58
		64	5320	SISO A	18.71	18.80	27.19	75.90
				SISO B	18.44	18.53	26.92	71.32
802.11n20	HT0	52	5260	SISO A	18.64	18.64	27.03	73.11
				SISO B	18.43	18.43	26.82	69.66
		56	5280	SISO A	18.69	18.69	27.08	73.96
				SISO B	18.35	18.35	26.74	68.39
		64	5320	SISO A	17.95	17.95	26.34	62.37
				SISO B	18.40	18.40	26.79	69.18
	HT8	52	5260	MIMO A	15.98	15.98	24.37	39.63
				MIMO B	15.84	15.84	24.23	38.37
				Combined A+B	18.92	18.92	27.31	78.00
		56	5280	MIMO A	15.93	15.93	24.32	39.17
				MIMO B	15.70	15.70	24.09	37.15
				Combined A+B	18.83	18.83	27.22	76.33
		64	5320	MIMO A	15.36	15.36	23.75	34.36
				MIMO B	14.42	14.42	22.81	27.67
				Combined A+B	17.93	17.93	26.32	62.03
802.11n40	HT0	54	5270	SISO A	20.81	20.81	29.20	120.50
				SISO B	20.43	20.43	28.82	110.41
		62	5310	SISO A	15.65	15.65	24.04	36.73
				SISO B	15.56	15.56	23.95	35.97
	HT8	54	5270	MIMO A	18.14	18.14	26.53	65.16
				MIMO B	17.99	17.99	26.38	62.95
				Combined A+B	21.08	21.08	29.47	128.11
		62	5310	MIMO A	9.45	9.45	17.84	8.81
				MIMO B	10.92	10.92	19.31	12.36
Combined A+B	13.26	13.26	21.65	21.17				
802.11ac80	VHT0	58	5290	SISO A	14.26	14.26	22.65	26.67
				SISO B	14.77	14.77	23.16	29.99
				MIMO A	10.25	10.25	18.64	10.59
				MIMO B	9.35	9.35	17.74	8.61
				Combined A+B	12.83	12.83	21.22	19.20

\*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value



Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Output Power [dBm]	Avg Max* Conducted Output Power [dBm]	Avg Max* EIRP [dBm]	Avg Max* Conducted Power [mW]	
802.11ax20	HE0	52	5260	SISO A	Full	18.85	18.85	27.24	76.74	
				SISO B	Full	18.55	18.55	26.94	71.61	
				MIMO A	Full	16.13	16.13	24.52	41.02	
				MIMO B	Full	15.98	15.98	24.37	39.63	
		Combined A+B	Full	19.07	19.07	27.46	80.65			
		56	5280	SISO A	Full	18.60	18.60	26.99	72.44	
				SISO B	Full	18.55	18.55	26.94	71.61	
				MIMO A	Full	15.98	15.98	24.37	39.63	
				MIMO B	Full	15.81	15.81	24.20	38.11	
		Combined A+B	Full	18.91	18.91	27.30	77.73			
		64	5320	SISO A	Full	18.07	18.07	26.46	64.12	
					26/8	10.65	10.65	19.04	11.61	
					52/40	13.81	13.81	22.20	24.04	
					106/54	16.18	16.18	24.57	41.50	
				SISO B	Full	17.76	17.76	26.15	59.70	
					26/8	10.70	10.70	19.09	11.75	
	52/40				13.51	13.51	21.90	22.44		
	106/54				16.48	16.48	24.87	44.46		
	MIMO A			Full	14.43	14.43	22.82	27.73		
				26/8	7.99	7.99	16.38	6.30		
				52/40	10.49	10.49	18.88	11.19		
				106/54	13.51	13.51	21.90	22.44		
	MIMO B	Full	13.80	13.80	22.19	23.99				
		26/8	7.59	7.59	15.98	5.74				
		52/40	10.74	10.74	19.13	11.86				
		106/54	13.85	13.85	22.24	24.27				
	Combined A+B	Full	17.14	17.14	25.53	51.72				
		26/8	10.80	10.80	19.19	12.04				
		52/40	13.63	13.63	22.02	23.05				
		106/54	16.69	16.69	25.08	46.70				
	802.11ax40	HE0	54	5270	SISO A	Full	20.48	20.48	28.87	111.69
					SISO B	Full	20.32	20.32	28.71	107.65
MIMO A					Full	18.28	18.28	26.67	67.30	
MIMO B					Full	16.97	16.97	25.36	49.77	
Combined A+B			Full	20.68	20.68	29.07	117.07			
62			5310	SISO A	Full	15.24	15.24	23.63	33.42	
				242/62	18.40	18.40	26.79	69.18		
				SISO B	Full	15.45	15.45	23.84	35.08	
		242/62		18.02	18.02	26.41	63.39			
MIMO A		Full	10.54	10.54	18.93	11.32				
		242/62	11.80	11.80	20.19	15.14				
		MIMO B	Full	10.82	10.82	19.21	12.08			
		242/62	11.83	11.83	20.22	15.24				
Combined A+B		Full	13.69	13.69	22.08	23.40				
		242/62	14.83	14.83	23.22	30.38				
		802.11ax80	HE0	58	5290	SISO A	Full	14.49	14.49	22.88
	484/66						12.99	12.99	21.38	19.91
SISO B	Full					14.83	14.83	23.22	30.41	
	484/66					12.45	12.45	20.84	17.58	
MIMO A	Full					11.24	11.24	19.63	13.30	
	484/66					12.77	12.77	21.16	18.92	
MIMO B	Full	11.55	11.55	19.94	14.29					
	484/66	9.40	9.40	17.79	8.71					
Combined A+B	Full	14.41	14.41	22.80	27.59					
	484/66	14.41	14.41	22.80	27.63					

\*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max/Min Value

**Maximum Power Spectral Density (PSD)**

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]				
802.11a	6Mbps	52	5260	SISO A	8.18	8.27				
				SISO B	8.01	8.10				
		56	5280	SISO A	8.23	8.32				
				SISO B	7.81	7.90				
		64	5320	SISO A	8.34	8.43				
				SISO B	8.04	8.13				
802.11n20	HT0	52	5260	SISO A	8.04	8.04				
				SISO B	7.69	7.69				
		56	5280	SISO A	7.97	7.97				
				SISO B	7.61	7.61				
		64	5320	SISO A	7.23	7.23				
				SISO B	7.73	7.73				
	HT8	52	5260	MIMO A	5.26	5.26				
				MIMO B	5.13	5.13				
				Combined A+B	8.21	8.21				
		56	5280	MIMO A	5.35	5.35				
				MIMO B	5.03	5.03				
				Combined A+B	8.20	8.20				
		64	5320	MIMO A	4.56	4.56				
				MIMO B	3.86	3.86				
				Combined A+B	7.23	7.23				
802.11n40	HT0	54	5270	SISO A	6.85	6.85				
				SISO B	6.43	6.43				
		62	5310	SISO A	1.46	1.46				
				SISO B	1.53	1.53				
	HT8	54	5270	MIMO A	4.04	4.04				
				MIMO B	3.94	3.94				
				Combined A+B	7.00	7.00				
		62	5310	MIMO A	-4.15	-4.15				
				MIMO B	-3.14	-3.14				
				Combined A+B	-0.61	-0.61				
				802.11ac80	VHT0	58	5290	SISO A	-2.99	-2.99
								SISO B	-2.36	-2.36
MIMO A	-6.91	-6.91								
MIMO B	-7.76	-7.76								
Combined A+B	-4.30	-4.30								

\* Maximum values are the duty cycle compensated values calculated from the measured average values

Mode	Rate	#Ch	Freq [MHz]	Antenna	RU config.	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]
802.11ax20	HE0	52	5260	SISO A	Full	8.05	8.05
				SISO B	Full	7.62	7.62
				MIMO A	Full	5.29	5.29
				MIMO B	Full	5.15	5.15
				Combined A+B	Full	8.23	8.23
		56	5280	SISO A	Full	8.04	8.04
				SISO B	Full	7.70	7.70
				MIMO A	Full	5.14	5.14
				MIMO B	Full	5.22	5.22
				Combined A+B	Full	8.19	8.19
		64	5320	SISO A	Full	7.31	7.31
					26/8	8.27	8.27
					52/40	8.39	8.39
					106/54	7.74	7.74
				SISO B	Full	7.04	7.04
					26/8	8.02	8.02
					52/40	8.31	8.31
					106/54	8.11	8.11
				MIMO A	Full	3.67	3.67
					26/8	5.34	5.34
					52/40	5.22	5.22
					106/54	5.06	5.06
				MIMO B	Full	3.39	3.39
					26/8	5.01	5.01
52/40	5.31	5.31					
106/54	5.40	5.40					
Combined A+B	Full	6.54	6.54				
	26/8	8.19	8.19				
	52/40	8.28	8.28				
	106/54	8.24	8.24				
802.11ax40	HE0	54	5270	SISO A	Full	6.28	6.28
				SISO B	Full	6.17	6.17
				MIMO A	Full	4.09	4.09
				MIMO B	Full	2.84	2.84
				Combined A+B	Full	6.52	6.52
		62	5310	SISO A	Full	1.20	1.20
					242/62	7.43	7.43
					Full	1.33	1.33
				SISO B	242/62	7.11	7.11
					Full	-3.05	-3.05
					242/62	1.29	1.29
				MIMO B	Full	-3.16	-3.16
					242/62	0.84	0.84
					Full	-0.09	-0.09
Combined A+B	242/62	4.08	4.08				
	Full	-2.58	-2.58				
802.11ax80	HE0	58	5290	SISO A	Full	-2.58	-2.58
					484/66	-1.37	-1.37
				SISO B	Full	-2.03	-2.03
					484/66	-1.88	-1.88
				MIMO A	Full	-5.85	-5.85
					484/66	-1.40	-1.40
				MIMO B	Full	-5.75	-5.75
					484/66	-4.89	-4.89
				Combined A+B	Full	-2.79	-2.79
					484/66	0.21	0.21

\* Maximum values are the duty cycle compensated values calculated from the measured average values

**See Section B.5.3 for the screenshot results.**

### B.3.3 Undesirable emissions limits : out of band (Conducted)

Test limits

FCC part	Limits																				
15.407 (b) (2)	For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz.																				
15.209	<p>Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):</p> <table border="1"> <thead> <tr> <th>Freq Range (MHz)</th> <th>Field Strength (μV/m)</th> <th>Field Strength (dBμV/m)</th> <th>Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td>30-88</td> <td>100</td> <td>40</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>43.5</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>46</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>54</td> <td>3</td> </tr> </tbody> </table> <p>The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</p>	Freq Range (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Meas. Distance (m)	30-88	100	40	3	88-216	150	43.5	3	216-960	200	46	3	Above 960	500	54	3
Freq Range (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Meas. Distance (m)																		
30-88	100	40	3																		
88-216	150	43.5	3																		
216-960	200	46	3																		
Above 960	500	54	3																		

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the Band Edge 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 (Nant) = 3dB for Nant = 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.

In case of out of band measurements falling in restricted bands, the declared antenna gain is also compensated in the graph.

For out of band measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBμV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values	
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
960-25000	3	500	53.98	-41.2

**See Section B.5.4 for the screenshot results.**

### B.3.4 Radiated spurious emission

Standard references

FCC part	Limits																				
15.407 (a) (2)	For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.																				
15.209	<p>Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):</p> <table border="1"> <thead> <tr> <th>Freq Range (MHz)</th> <th>Field Strength (µV/m)</th> <th>Field Strength (dBµV/m)</th> <th>Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td>30-88</td> <td>100</td> <td>40</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>43.5</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>46</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>54</td> <td>3</td> </tr> </tbody> </table> <p>The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</p>	Freq Range (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Meas. Distance (m)	30-88	100	40	3	88-216	150	43.5	3	216-960	200	46	3	Above 960	500	54	3
Freq Range (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Meas. Distance (m)																		
30-88	100	40	3																		
88-216	150	43.5	3																		
216-960	200	46	3																		
Above 960	500	54	3																		

Test procedure

The radiated setups shown in section *Test & System Description* were used to measure the radiated spurious emissions. Depending of the frequency range and bands being tested, different antennas and filters were used. The final measurement is done by varying the antenna height, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration selected from the section B.2.2 and using the low, middle and high channels.

Test Results

**Radiated spurious - 30 MHz to 1 GHz**

**All modes**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
33.6	28.1	Quasi-Peak	40.0	11.9	V
33.8	27.1	Quasi-Peak	40.0	12.9	V
48.5	25.9	Quasi-Peak	40.0	14.1	V
51.0	23.9	Quasi-Peak	40.0	16.1	V

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

**Radiated spurious – 1 GHz to 40 GHz**

**802.11a**

**802.11a, 6Mbps, Chain A**

**CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1053.8	52.5	Peak	74.0	21.5	H
1053.8	42.7	Average	54.0	11.3	H
10520.5	53.8	Peak	68.2	14.4	H
39729.2	47.6	Average	54.0	6.4	V
39733.1	56.5	Peak	74.0	17.5	V

**CH56**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1075.1	53.0	Peak	74.0	21.0	H
1076.5	46.6	Average	54.0	7.4	H
1711.6	44.2	Peak	68.2	24.0	H
4783.9	40.2	Average	54.0	13.8	H
4785.8	55.1	Peak	74.0	18.9	H
10562.5	56.0	Peak	68.2	12.2	V
39651.4	47.5	Average	54.0	6.5	H
39653.9	57.2	Peak	74.0	16.8	H

**CH64**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1113.3	41.9	Average	54.0	12.1	H
1113.3	52.7	Peak	74.0	21.3	H
10640.4	54.7	Peak	74.0	19.3	H
10641.8	44.9	Average	54.0	9.1	H
39957.5	46.6	Average	54.0	7.4	V
39957.5	57.0	Peak	74.0	17.0	V

**802.11a, 6Mbps, Chain B**

**CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1055.7	51.9	Peak	74.0	22.1	H
1055.7	43.0	Average	54.0	11.0	H
10519.1	50.1	Peak	68.2	18.1	H
39960.9	47.8	Average	54.0	6.2	V
39962.4	56.7	Peak	74.0	17.3	V

**CH56**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1075.1	52.3	Peak	74.0	21.7	H
1075.6	41.8	Average	54.0	12.2	H
6980.7	59.6	Peak	68.2	8.6	H
10557.3	51.0	Peak	68.2	17.2	H
39618.2	56.2	Peak	74.0	17.8	V
39618.7	47.8	Average	54.0	6.2	H

**CH64**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1115.2	39.3	Average	54.0	14.7	V
1115.2	50.8	Peak	74.0	23.2	V
10638.5	50.8	Peak	74.0	23.2	V
10641.4	40.0	Average	54.0	14.0	V
39643.1	47.6	Average	54.0	6.4	H
39646.0	57.2	Peak	74.0	16.8	V

**802.11n**
**802.11n20, HT0, Chain A**
**CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1053.8	53.6	Peak	74.0	20.4	H
1055.2	42.9	Average	54.0	11.1	H
10519.5	55.2	Peak	68.2	13.0	V
39639.7	47.6	Average	54.0	6.3	H
39644.1	56.2	Peak	74.0	17.8	H



**CH56**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1074.6	52.9	Peak	74.0	21.1	H
1075.1	43.7	Average	54.0	10.3	H
10562.5	55.6	Peak	68.2	12.6	H
39651.4	55.6	Peak	74.0	18.4	V
39652.4	47.8	Average	54.0	6.2	H

**CH64**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1113.8	50.9	Peak	74.0	23.1	H
1114.3	40.8	Average	54.0	13.2	H
10641.8	45.1	Average	54.0	8.9	H
10643.2	54.1	Peak	74.0	19.9	H
39650.9	57.4	Peak	74.0	16.6	V
39652.4	47.4	Average	54.0	6.6	V

**802.11n20, HT0, Chain B****CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1053.8	42.6	Average	54.0	11.4	H
1054.3	50.6	Peak	74.0	23.4	H
10514.3	50.2	Peak	68.2	17.9	H
39660.7	56.7	Peak	74.0	17.3	H
39662.7	47.9	Average	54.0	6.2	H

**CH56**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1074.6	42.6	Average	54.0	11.4	V
1075.1	51.7	Peak	74.0	22.3	H
10558.2	51.9	Peak	68.2	16.3	H
39657.8	47.6	Average	54.0	6.4	H
39658.8	56.4	Peak	74.0	17.6	H

**CH64**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1115.2	49.4	Peak	74.0	24.6	V
1115.2	39.6	Average	54.0	14.4	V
10643.2	49.8	Peak	74.0	24.2	H
10643.7	39.9	Average	54.0	14.1	H
39908.6	55.6	Peak	74.0	18.4	V
39909.6	47.2	Average	54.0	6.8	V

**802.11n20, HT8, Chain A+B****CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1053.8	43.4	Average	54.0	10.6	H
1054.3	53.8	Peak	74.0	20.2	H
3944.8	43.3	Average	54.0	10.7	V
3945.2	52.3	Peak	74.0	21.7	V
10519.5	52.5	Peak	68.2	15.7	V
39826.4	47.7	Average	54.0	6.3	H
39827.9	56.1	Peak	74.0	17.9	H

**CH56**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1075.6	43.9	Average	54.0	10.1	H
1076.0	54.2	Peak	74.0	19.8	H
3959.9	43.1	Average	54.0	10.8	V
3960.4	53.2	Peak	74.0	20.8	H
10559.7	52.5	Peak	68.2	15.7	H
39633.3	47.4	Average	54.0	6.6	H
39633.8	59.0	Peak	74.0	15.0	V

**CH64**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1114.3	50.6	Peak	74.0	23.4	H
1114.3	42.5	Average	54.0	11.6	H
3989.6	52.5	Peak	74.0	21.5	V
3989.6	43.1	Average	54.0	10.9	V
10640.9	52.9	Peak	74.0	21.1	H
10640.9	42.5	Average	54.0	11.5	H
39657.8	47.9	Average	54.0	<b>6.1</b>	H
39662.7	57.7	Peak	74.0	16.3	H

**802.11n40, HT0, Chain A**
**CH54**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1061.9	40.4	Average	54.0	13.6	H
1063.3	50.5	Peak	74.0	23.5	H
10543.6	53.2	Peak	68.2	15.0	H
39637.2	56.2	Peak	74.0	17.8	H
39637.2	47.9	Average	54.0	6.1	V

**CH62**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1103.9	38.5	Average	54.0	15.5	H
1104.4	49.6	Peak	74.0	24.4	H
10614.4	53.6	Peak	74.0	20.4	H
10617.3	42.8	Average	54.0	11.2	H
39648.5	56.6	Peak	74.0	17.4	H
39651.4	47.7	Average	54.0	6.3	V

**802.11n40, HT0, Chain B**

**CH54**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1063.3	40.2	Average	54.0	13.8	H
1063.3	51.3	Peak	74.0	22.7	V
3952.3	50.1	Peak	74.0	23.9	V
3952.3	41.6	Average	54.0	12.4	V
10542.7	49.4	Peak	68.2	18.8	H
39651.9	56.4	Peak	74.0	17.6	H
39651.9	46.5	Average	54.0	7.5	V

**CH62**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1103.9	38.7	Average	54.0	15.3	H
1106.2	49.2	Peak	74.0	24.8	H
10619.2	39.1	Average	54.0	14.8	H
10620.1	49.5	Peak	74.0	24.5	H
39661.2	57.2	Peak	74.0	16.8	H
39663.6	47.9	Average	54.0	<b>6.1</b>	H

## 802.11n40, HT8, Chain A+B

### CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1061.9	40.4	Average	54.0	13.6	H
1067.5	51.7	Peak	74.0	22.3	H
3951.9	51.5	Peak	74.0	22.5	H
3952.3	43.7	Average	54.0	10.3	V
10545.0	52.9	Peak	68.2	15.3	H
39629.9	56.6	Peak	74.0	17.4	H
39630.4	47.6	Average	54.0	6.4	H

### CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1106.2	51.0	Peak	74.0	23.0	H
1106.2	39.8	Average	54.0	14.2	H
3981.1	51.7	Peak	74.0	22.3	H
3982.6	41.9	Average	54.0	12.1	H
10620.6	40.9	Average	54.0	13.1	H
10621.1	52.6	Peak	74.0	21.4	H
39657.8	47.9	Average	54.0	6.2	H
39658.3	56.9	Peak	74.0	17.1	H

**802.11ac**

**802.11ac80, VHT0, Chain A**

**CH58**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1081.2	40.9	Average	54.0	13.2	H
1086.4	51.6	Peak	74.0	22.4	H
10575.7	52.2	Peak	68.2	16.0	H
39947.2	57.0	Peak	74.0	17.0	H
39949.2	47.7	Average	54.0	6.3	H

**802.11ac80, VHT0, Chain B**

**CH58**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1080.3	38.3	Average	54.0	15.7	H
1082.6	47.7	Peak	74.0	26.3	H
3963.7	50.7	Peak	74.0	23.3	V
3967.4	42.0	Average	54.0	12.0	V
17998.1	55.5	Peak	74.0	18.5	V
18000.0	44.4	Average	54.0	9.7	V
39650.0	56.8	Peak	74.0	17.2	H
39653.4	47.2	Average	54.0	6.8	V

## 802.11ac80, VHT8, Chain A+B

### CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1084.1	49.9	Peak	74.0	24.1	H
1084.5	37.8	Average	54.0	16.2	H
17997.6	55.1	Peak	74.0	18.9	V
17999.5	44.1	Average	54.0	9.9	H
39876.8	55.5	Peak	74.0	18.5	H
39877.3	47.8	Average	54.0	6.2	H

### 802.11ax

## 802.11ax20, HE0, Chain A

### CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1046.3	51.1	Peak	74.0	22.9	H
1046.3	43.2	Average	54.0	10.8	H
1057.6	33.3	Average	54.0	20.7	H
1057.6	43.7	Peak	74.0	30.3	H
3944.8	42.5	Average	54.0	11.5	V
3944.8	51.2	Peak	74.0	22.8	V
5431.3	54.2	Peak	74.0	19.8	H
5431.3	45.1	Average	54.0	8.9	H
5491.8	54.2	Peak	68.2	14.0	H
10503.9	52.7	Peak	68.2	15.5	V
39649.5	57.4	Peak	74.0	16.6	H
39655.8	47.5	Average	54.0	6.5	H

## CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1066.6	42.3	Average	54.0	11.7	H
1066.6	50.6	Peak	74.0	23.4	H
3959.9	50.2	Peak	74.0	23.8	V
3959.9	42.3	Average	54.0	11.7	V
5450.7	53.6	Peak	74.0	20.4	H
5451.6	44.4	Average	54.0	9.6	H
5510.7	53.8	Peak	68.2	14.4	H
10544.1	52.1	Peak	68.2	16.1	H
39646.5	47.9	Average	54.0	6.2	V
39648.0	57.6	Peak	74.0	16.4	H

## CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1106.2	49.0	Peak	74.0	25.0	H
1106.2	40.5	Average	54.0	13.5	H
1114.8	42.4	Peak	74.0	31.6	H
1114.8	31.9	Average	54.0	22.1	H
5500.8	54.5	Peak	68.2	13.7	V
5551.3	55.8	Peak	68.2	12.4	H
10622.9	42.4	Average	54.0	11.6	H
10623.9	52.5	Peak	74.0	21.5	H
39700.3	57.2	Peak	74.0	16.8	V
39705.7	47.7	Average	54.0	6.3	H



## 802.11ax20, HE0, Chain B

### CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1046.3	47.5	Peak	74.0	26.5	H
1046.3	39.8	Average	54.0	14.2	H
3944.3	50.1	Peak	74.0	23.9	V
3944.8	42.2	Average	54.0	11.8	V
5425.2	53.0	Peak	74.0	21.0	H
5430.9	43.7	Average	54.0	10.3	H
5491.8	53.1	Peak	68.2	15.1	V
6566.6	56.8	Peak	68.2	11.4	H
10507.2	48.8	Peak	68.2	19.4	H
39649.5	57.0	Peak	74.0	17.0	H
39652.9	47.5	Average	54.0	6.5	V

### CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1066.6	47.3	Peak	74.0	26.7	H
1066.6	39.1	Average	54.0	14.9	H
3959.4	50.2	Peak	74.0	23.8	V
3959.9	42.2	Average	54.0	11.8	V
10543.1	49.5	Peak	68.2	18.7	H
39942.3	47.7	Average	54.0	6.3	V
39951.1	56.0	Peak	74.0	18.0	V

## CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1106.2	46.3	Peak	74.0	27.7	H
1106.2	37.7	Average	54.0	16.3	H
1472.2	40.2	Peak	74.0	33.8	H
1472.2	32.5	Average	54.0	21.6	H
10622.9	48.8	Peak	74.0	25.2	H
10622.9	38.6	Average	54.0	15.4	H
39650.9	57.2	Peak	74.0	16.8	H
39655.3	47.9	Average	54.0	6.1	H

## 802.11ax20, HE0, Chain A+B

## CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1046.3	41.0	Average	54.0	13.0	H
1046.8	51.5	Peak	74.0	22.5	H
1059.5	33.0	Average	54.0	21.1	H
1059.5	43.1	Peak	74.0	30.9	H
3944.8	51.0	Peak	74.0	23.0	V
3944.8	45.2	Average	54.0	8.8	V
5431.3	55.1	Peak	74.0	18.9	H
5431.8	44.7	Average	54.0	9.3	H
5491.3	54.4	Peak	68.2	13.8	H
6575.1	56.5	Peak	68.2	11.7	H
10503.0	50.6	Peak	68.2	17.6	H
39638.7	47.9	Average	54.0	6.1	H
39639.2	57.4	Peak	74.0	16.6	H

## CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1066.1	40.6	Average	54.0	13.4	H
1066.6	51.9	Peak	74.0	22.1	H
1078.9	42.0	Peak	74.0	31.9	H
1078.9	32.4	Average	54.0	21.6	H
3959.9	50.9	Peak	74.0	23.1	V
3959.9	45.0	Average	54.0	8.9	V
6600.6	55.4	Peak	68.2	12.8	V
10543.6	50.4	Peak	68.2	17.8	H
39665.1	56.6	Peak	74.0	17.4	H
39666.1	47.6	Average	54.0	6.3	H

## CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1106.2	39.7	Average	54.0	14.3	H
1106.7	51.8	Peak	74.0	22.2	H
3989.6	49.9	Peak	74.0	24.1	V
3989.6	42.2	Average	54.0	11.8	V
6649.2	58.5	Peak	68.2	9.7	V
10622.5	49.3	Peak	74.0	24.7	H
10622.5	39.4	Average	54.0	14.6	H
39651.9	47.6	Average	54.0	6.4	H
39654.4	56.8	Peak	74.0	17.2	H

## 802.11ax40, HE0, Chain A

### CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1068.0	43.1	Average	54.0	10.8	H
1068.0	51.7	Peak	74.0	22.3	H
1595.9	44.1	Peak	74.0	29.9	H
1595.9	31.2	Average	54.0	22.8	H
3951.9	49.9	Peak	74.0	24.1	V
3952.3	42.3	Average	54.0	11.7	V
5453.5	44.6	Average	54.0	9.4	H
5454.0	55.0	Peak	74.0	18.9	H
10545.5	53.0	Peak	68.2	15.2	H
39699.3	47.5	Average	54.0	6.5	V
39701.3	57.0	Peak	74.0	17.0	H

### CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1108.1	41.8	Average	54.0	12.2	H
1108.6	50.5	Peak	74.0	23.5	H
3982.6	49.9	Peak	74.0	24.1	V
3982.6	41.3	Average	54.0	12.7	V
5494.1	54.8	Peak	68.2	13.4	H
5552.7	54.5	Peak	68.2	13.7	H
5631.1	55.5	Peak	68.2	12.7	V
10626.2	42.7	Average	54.0	11.3	H
10627.7	51.6	Peak	74.0	22.4	H
39659.7	47.9	Average	54.0	6.1	H
39661.7	56.2	Peak	74.0	17.8	V

## 802.11ax40, HE0, Chain B

### CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1068.0	48.0	Peak	74.0	26.0	H
1068.0	39.6	Average	54.0	14.4	H
3951.9	50.7	Peak	74.0	23.3	V
3952.3	42.3	Average	54.0	11.7	V
5453.1	44.0	Average	54.0	10.1	H
5453.5	53.5	Peak	74.0	20.5	H
10546.0	49.6	Peak	68.2	18.6	H
39670.5	47.8	Average	54.0	6.2	H
39677.8	57.4	Peak	74.0	16.6	V

### CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1108.1	38.7	Average	54.0	15.3	H
1108.6	47.2	Peak	74.0	26.8	H
3982.1	49.6	Peak	74.0	24.4	V
3982.6	42.2	Average	54.0	11.8	V
5547.0	54.6	Peak	68.2	13.6	H
10625.8	38.6	Average	54.0	15.4	H
10626.2	50.1	Peak	74.0	23.9	H
39667.6	47.7	Average	54.0	6.3	V
39669.5	57.3	Peak	74.0	16.7	V

## 802.11ax40, HE0, Chain A+B

### CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1068.0	41.2	Average	54.0	12.8	H
1068.5	52.7	Peak	74.0	21.3	H
3952.3	52.8	Peak	74.0	21.2	V
3952.3	45.3	Average	54.0	8.7	V
6587.3	56.0	Peak	68.2	12.2	V
10546.4	51.0	Peak	68.2	17.2	H
39649.0	58.2	Peak	74.0	15.8	H
39651.9	47.8	Average	54.0	6.2	H

### CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1107.7	51.7	Peak	74.0	22.3	H
1108.1	40.0	Average	54.0	14.0	H
3982.6	51.3	Peak	74.0	22.7	V
3982.6	43.2	Average	54.0	10.8	V
5456.4	44.8	Average	54.0	9.2	H
5456.8	54.9	Peak	74.0	19.1	H
5554.1	54.3	Peak	68.2	13.9	H
6637.9	56.4	Peak	68.2	11.8	V
10626.2	49.0	Peak	74.0	25.0	V
10626.7	39.5	Average	54.0	14.5	H
39797.6	57.7	Peak	74.0	16.3	H
39797.6	47.7	Average	54.0	6.3	H

## 802.11ax80, HE0, Chain A

### CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1088.8	51.9	Peak	74.0	22.1	H
1089.2	43.1	Average	54.0	10.9	H
1173.8	33.9	Average	54.0	20.1	V
1173.8	43.4	Peak	74.0	30.6	V
3967.4	50.4	Peak	74.0	23.6	V
3967.4	42.2	Average	54.0	11.8	V
5474.8	54.1	Peak	68.2	14.1	H
5534.8	54.8	Peak	68.2	13.4	H
10589.4	53.6	Peak	68.2	14.6	H
39669.5	47.8	Average	54.0	6.2	V
39671.0	56.8	Peak	74.0	17.2	V

## 802.11ax80, HE0, Chain B

### CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dB $\mu$ V/m	---	dB $\mu$ V/m	dB	---
1088.8	48.4	Peak	74.0	25.6	H
1089.2	38.7	Average	54.0	15.3	H
3965.6	49.5	Peak	74.0	24.5	V
3967.4	42.5	Average	54.0	11.5	V
10588.9	50.9	Peak	68.2	17.4	H
39651.4	47.5	Average	54.0	6.5	H
39654.8	56.4	Peak	74.0	17.6	V

**802.11ax80, HE0, Chain A+B****CH58**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	$\text{dB}\mu\text{V}/\text{m}$	---	$\text{dB}\mu\text{V}/\text{m}$	dB	---
1089.2	52.2	Peak	74.0	21.8	H
1089.2	40.3	Average	54.0	13.7	H
3967.4	51.0	Peak	74.0	23.0	V
3967.4	44.0	Average	54.0	10.0	V
6616.1	56.5	Peak	68.2	11.7	V
10100.2	51.4	Peak	68.2	16.8	V
10588.5	50.2	Peak	68.2	18.0	V
39646.5	57.9	Peak	74.0	16.1	H
39649.0	47.4	Average	54.0	6.6	V

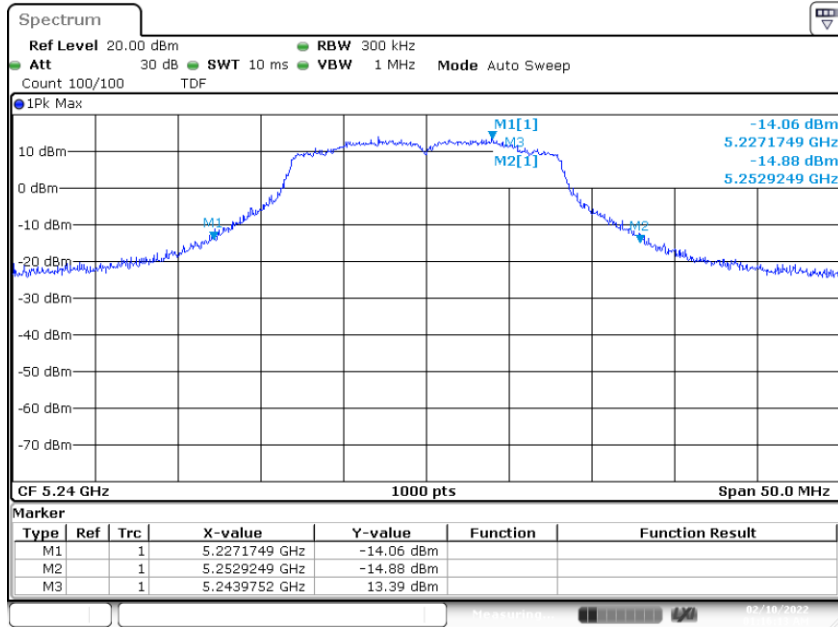


### B.4 Test Results Screenshot U-NII-1

#### B.4.1 26dB Bandwidth

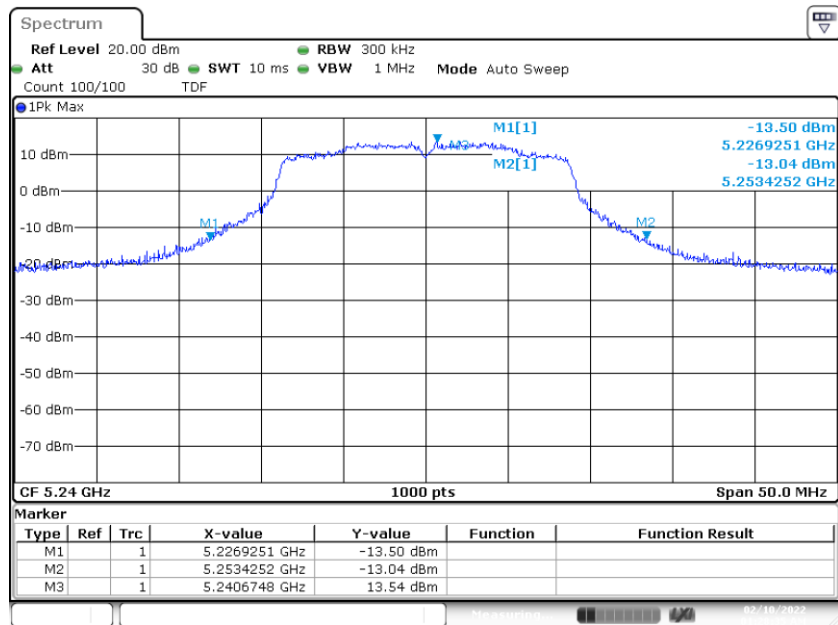
## SISO-B, 802.11a, 6Mbps

Channel 48



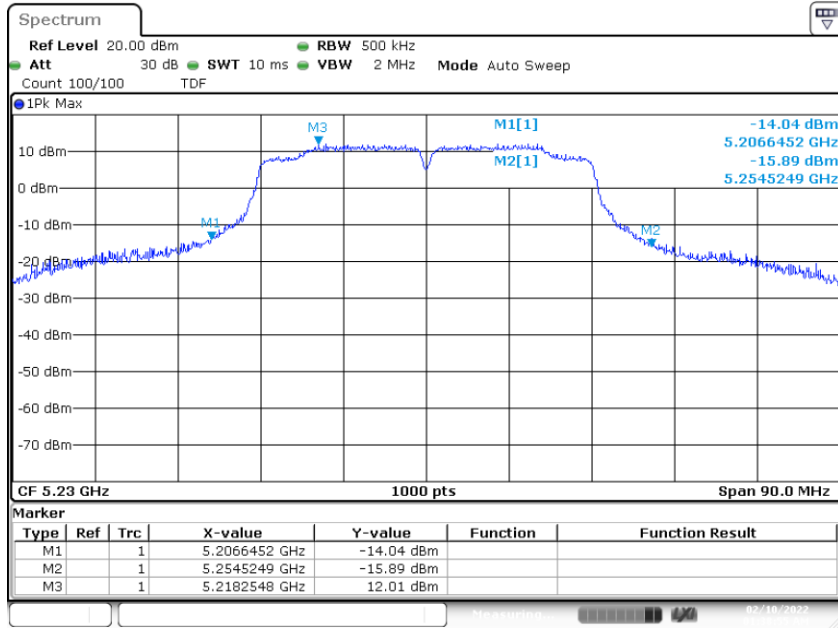
## SISO-B, 802.11n20, HT0

Channel 48



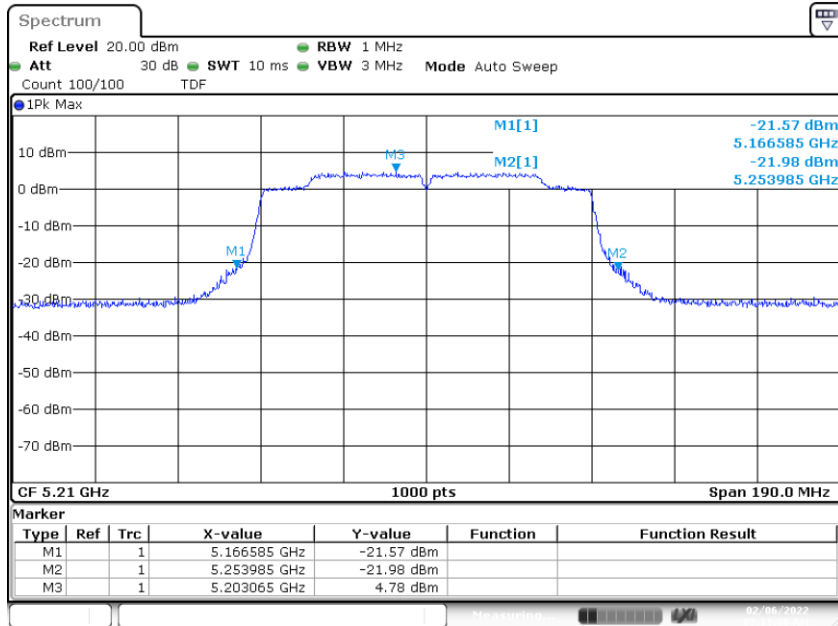
# SISO-B, 802.11n40, HT0

Channel 46



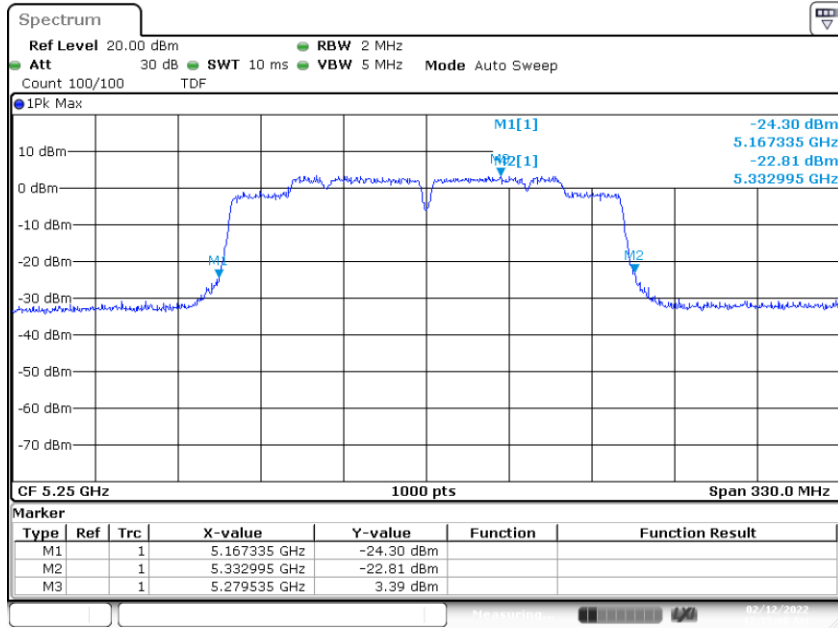
# MIMO-A, 802.11ac80, VHT0

Channel 42



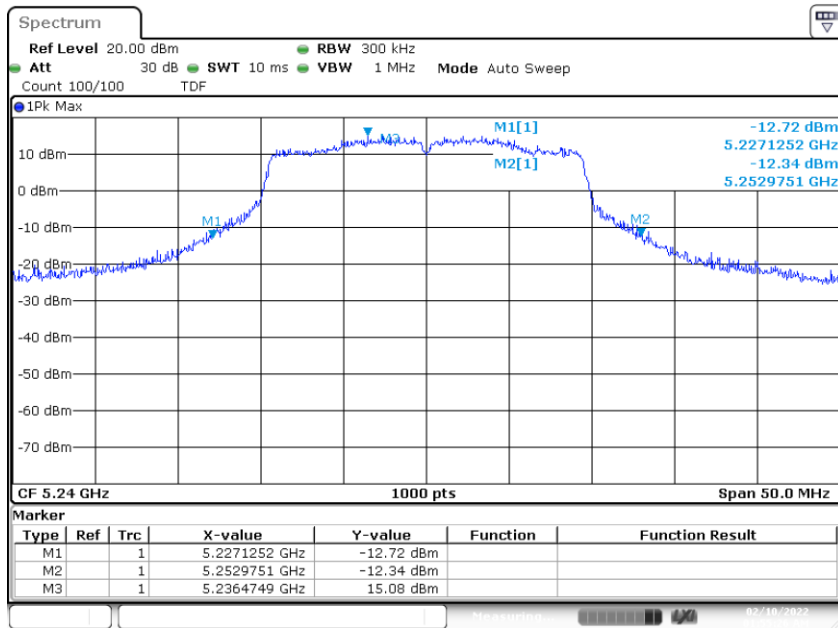
# MIMO-B, 802.11ac160, VHT0

Channel 50



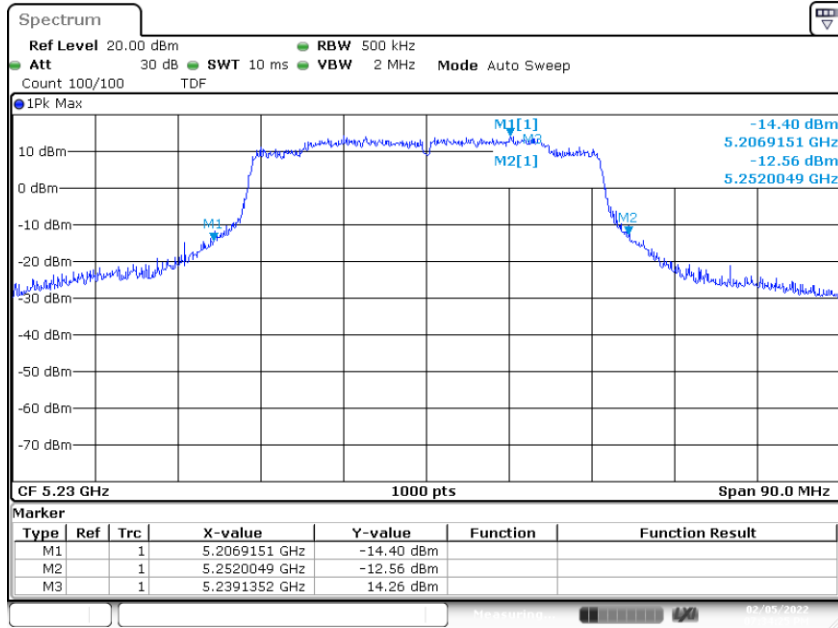
# SISO-B, 802.11ax20, HE0

Channel 48



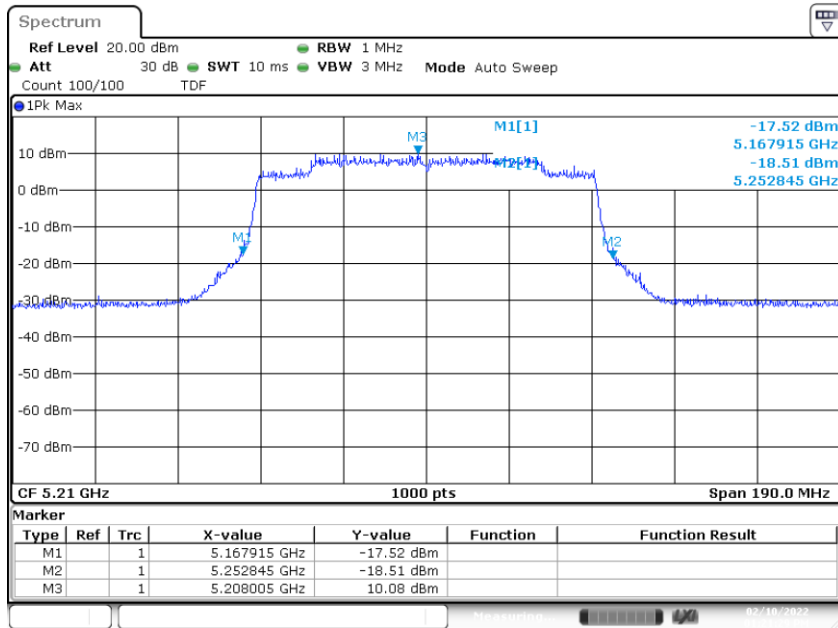
# SISO-A, 802.11ax40, HE0

Channel 46



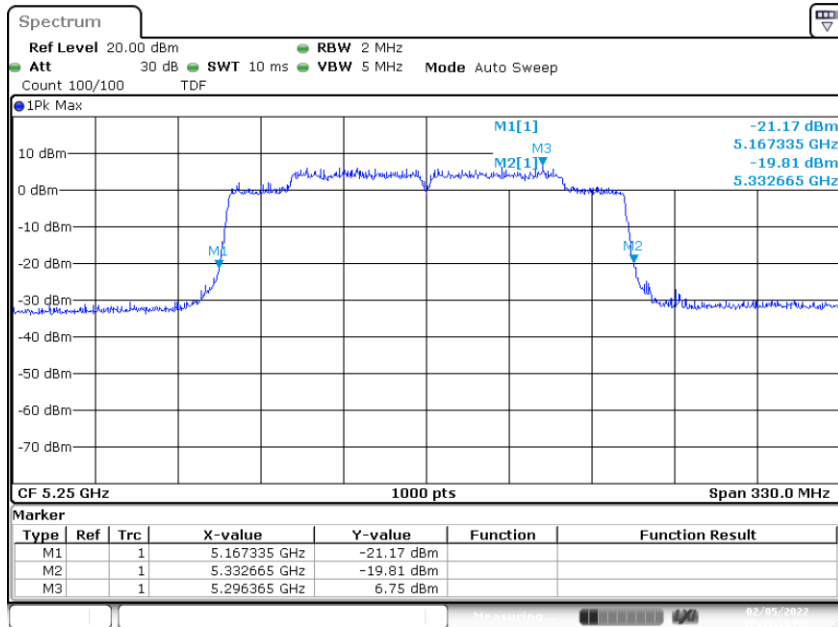
# SISO-B, 802.11ax80, HE0

Channel 42



# SISO-A, 802.11ax160, HE0

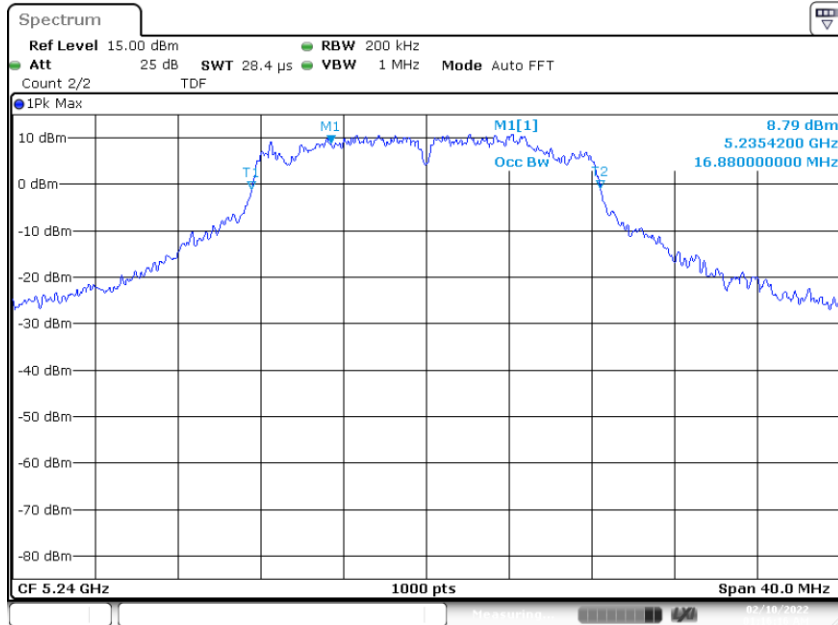
Channel 50



### B.4.2 99% Bandwidth

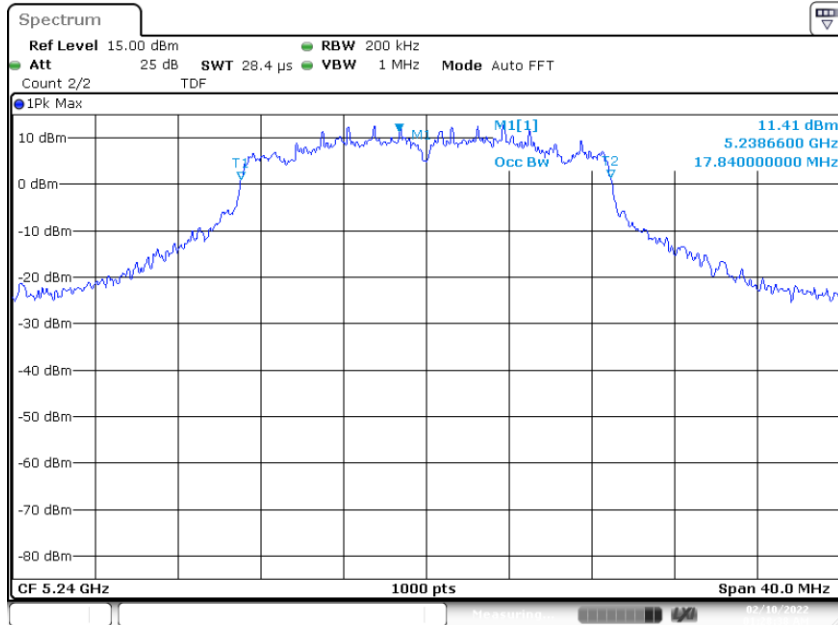
## SISO-B, 802.11a, 6Mbps

Channel 48



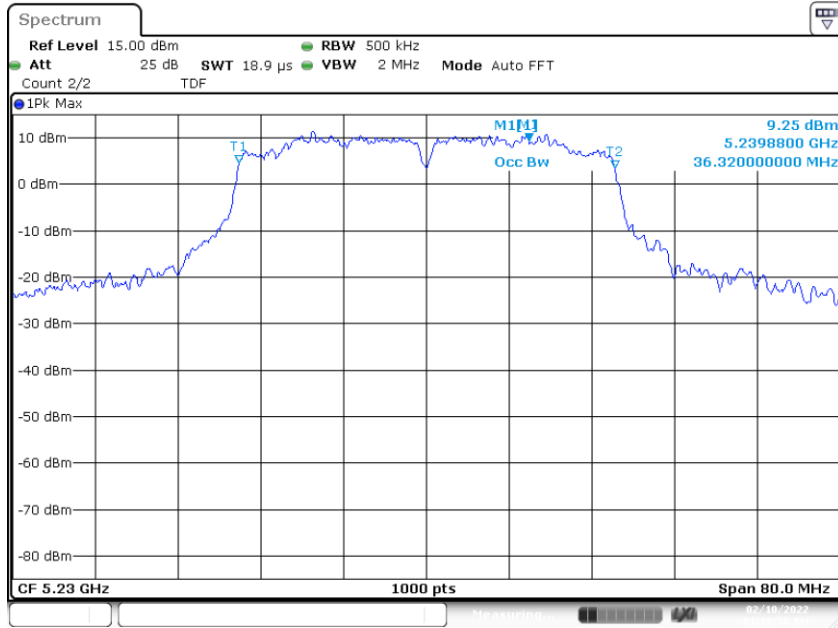
## SISO-B, 802.11n20, HT0

Channel 48



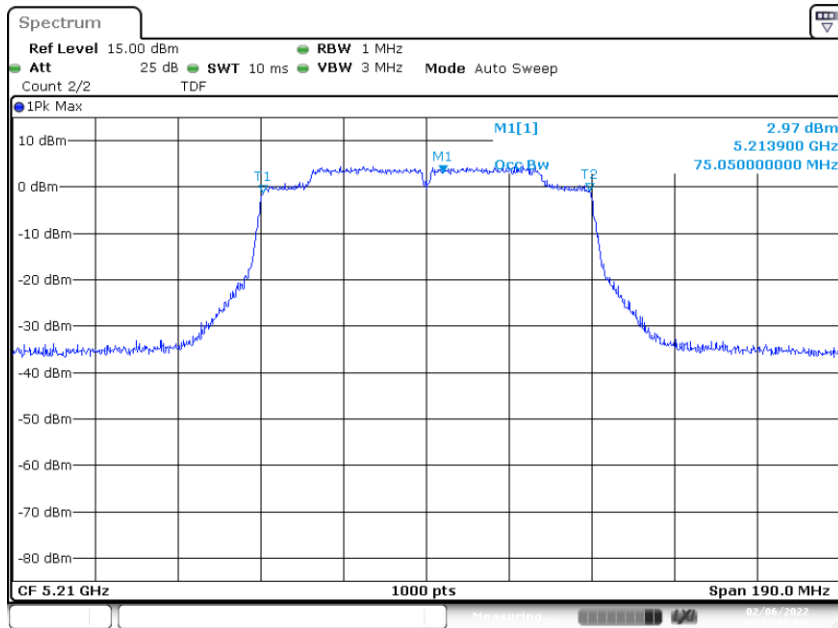
# SISO-B, 802.11n40, HT0

Channel 46



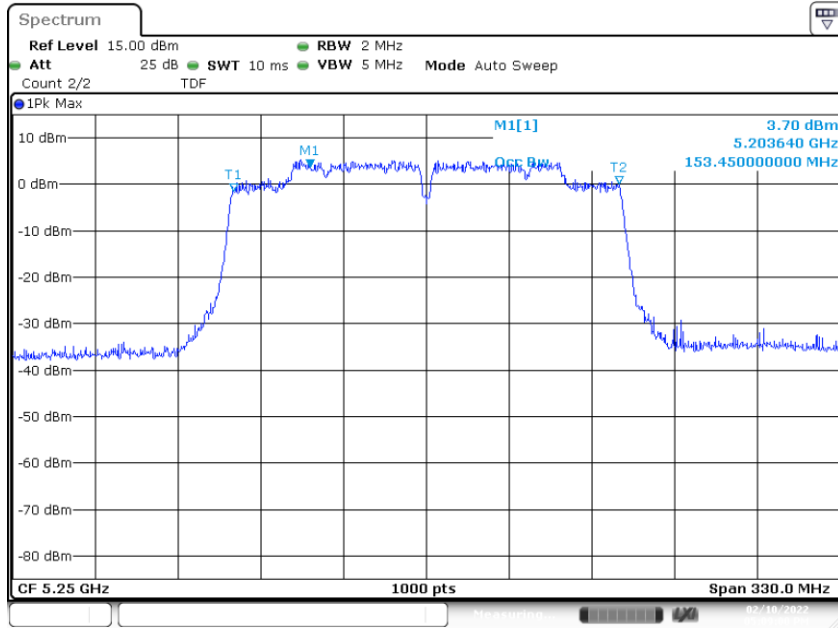
# MIMO-A, 802.11ac80, VHT0

Channel 42



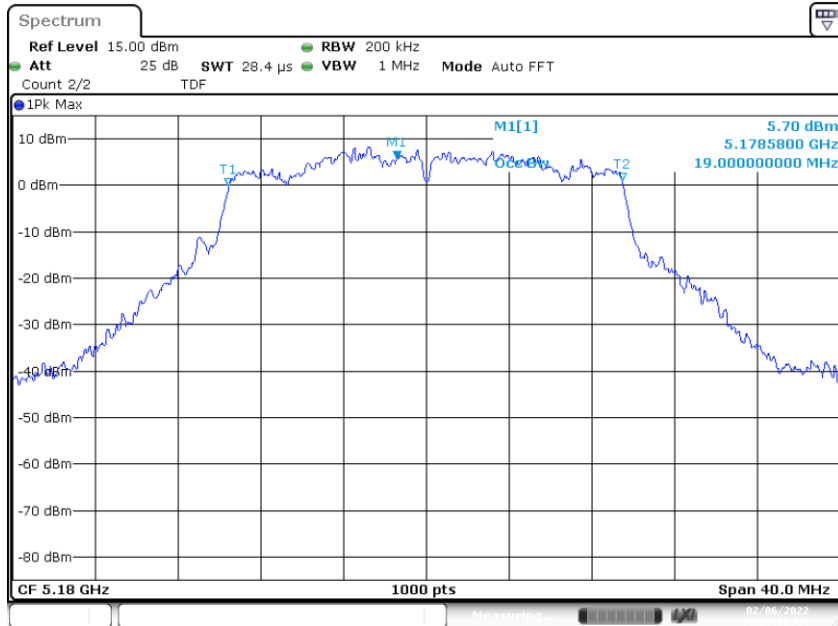
# SISO-B, 802.11ac160, VHT0

Channel 50



# MIMO-A, 802.11ax20, HE0

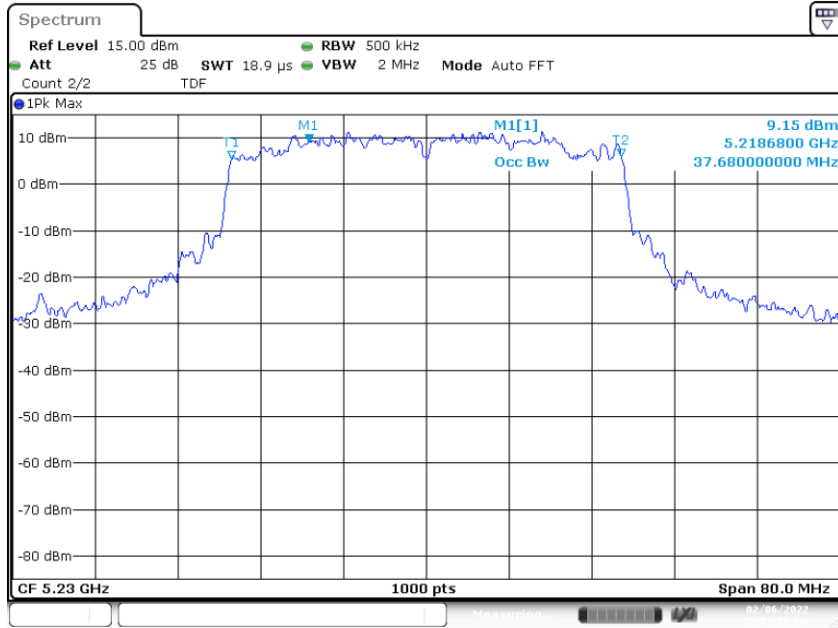
Channel 36





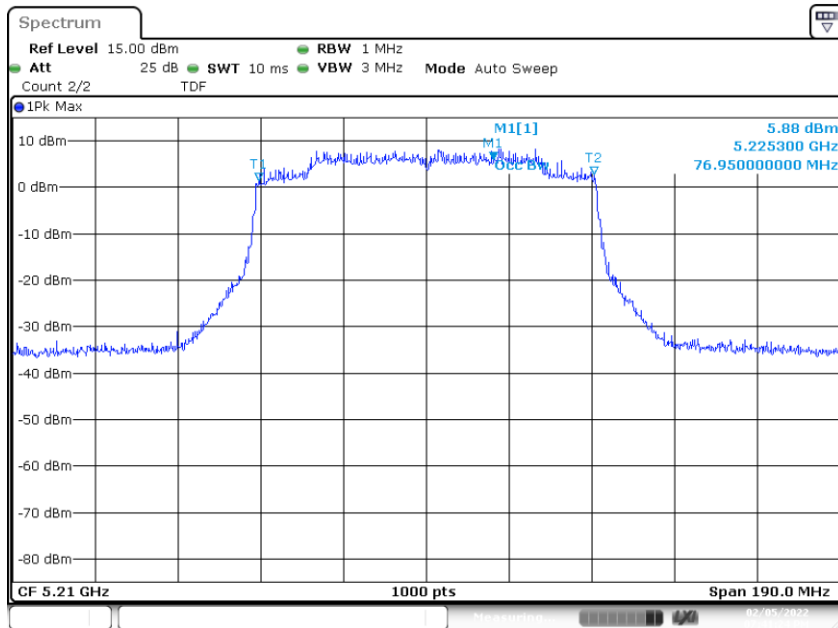
# MIMO-A, 802.11ax40, HE0

Channel 46



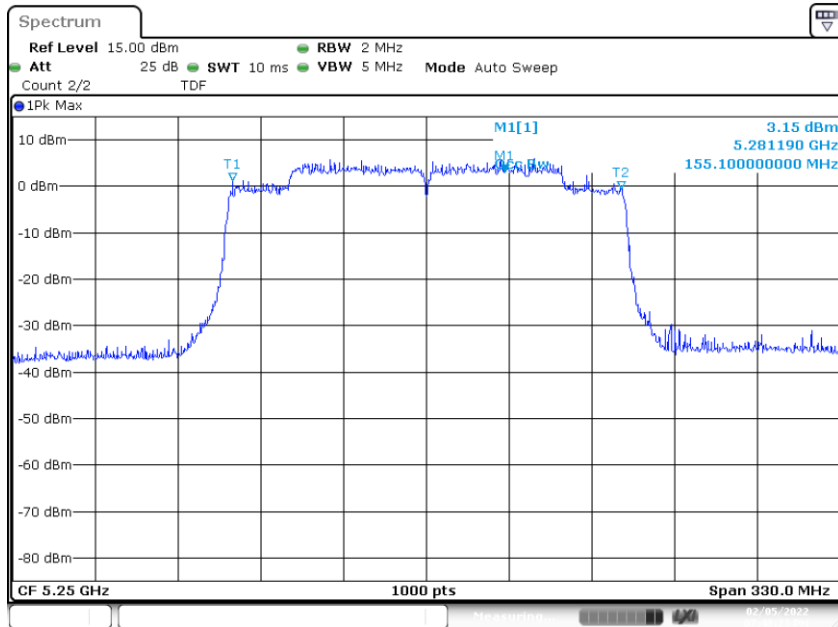
# SISO-A, 802.11ax80, HE0

Channel 42



# SISO-A, 802.11ax160, HE0

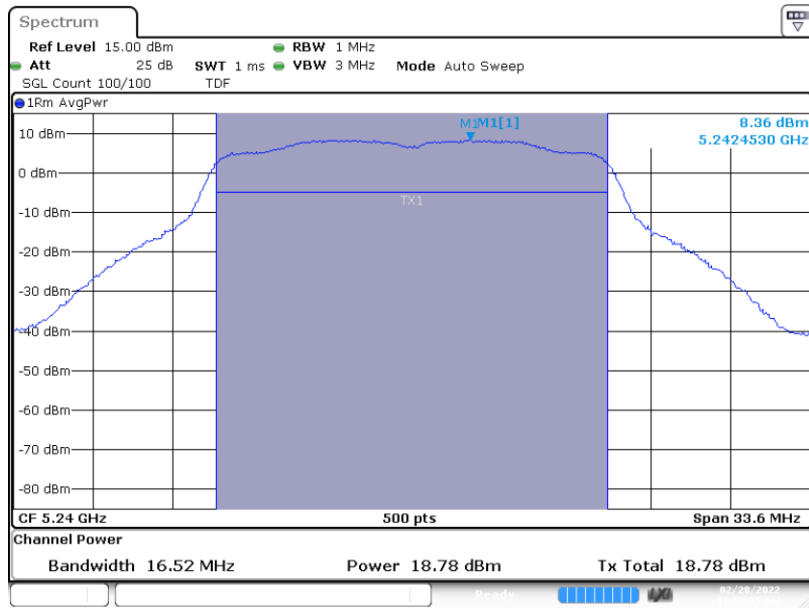
Channel 50



### B.4.3 Maximum Output power & Maximum power spectral density

## SISO-A, 802.11a, 6Mbps

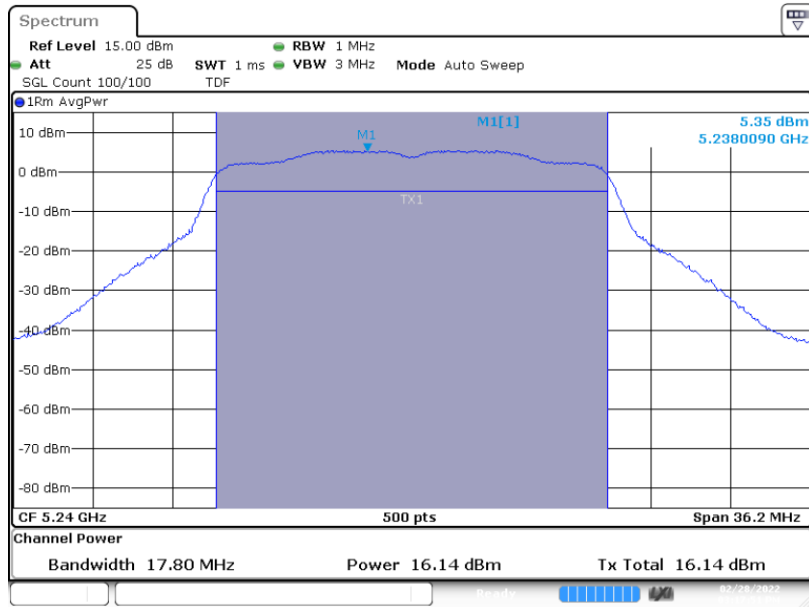
Channel 48



Date 28 FEB 2022 11:52:36

# MIMO-A, 802.11n20, HT8

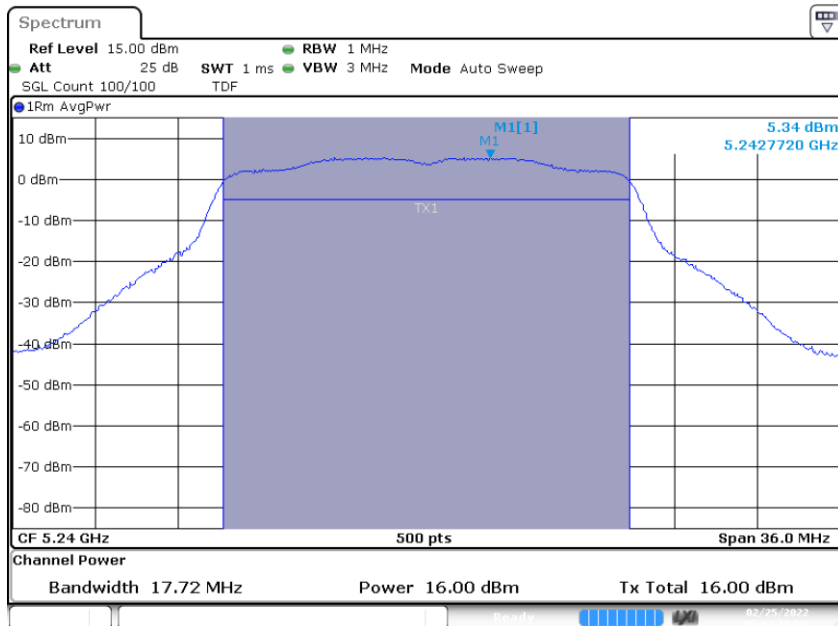
Channel 48



Date 28 FEB 2022 15:17:52

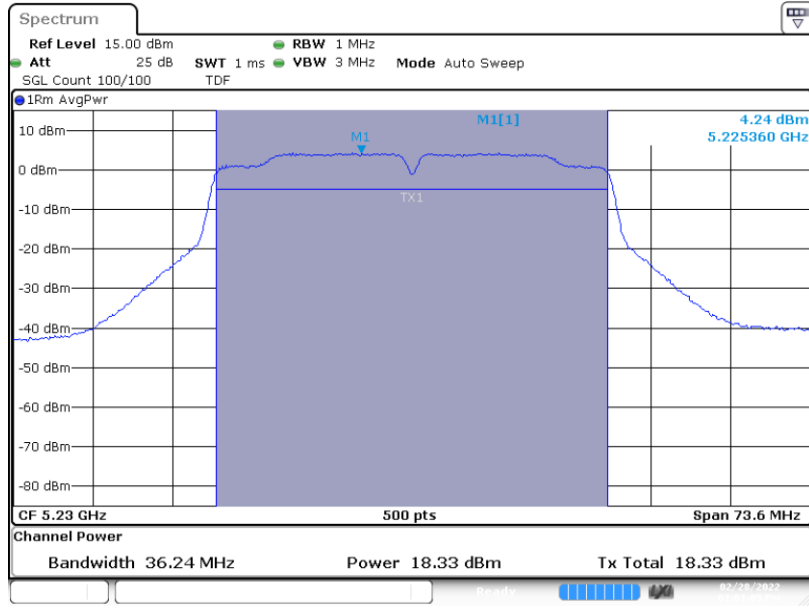
# MIMO-B, 802.11n20, HT8

Channel 48



# MIMO-A, 802.11n40, HT8

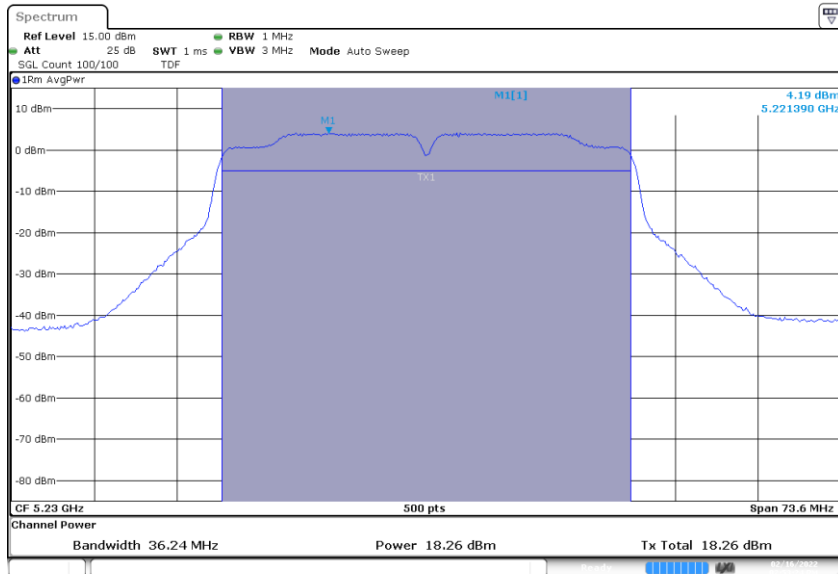
Channel 46



Date 28 FEB 2022 15:01:06

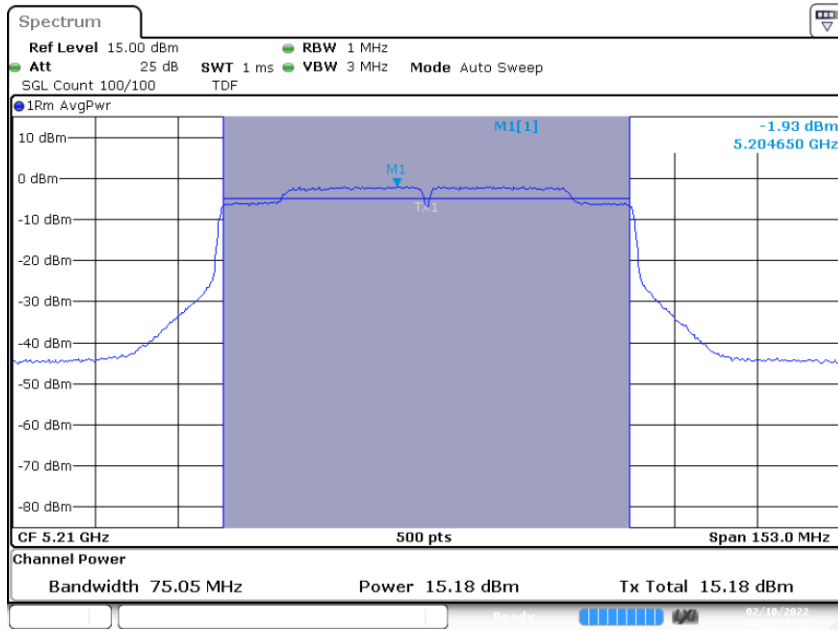
# MIMO-B, 802.11n40, HT8

Channel 46



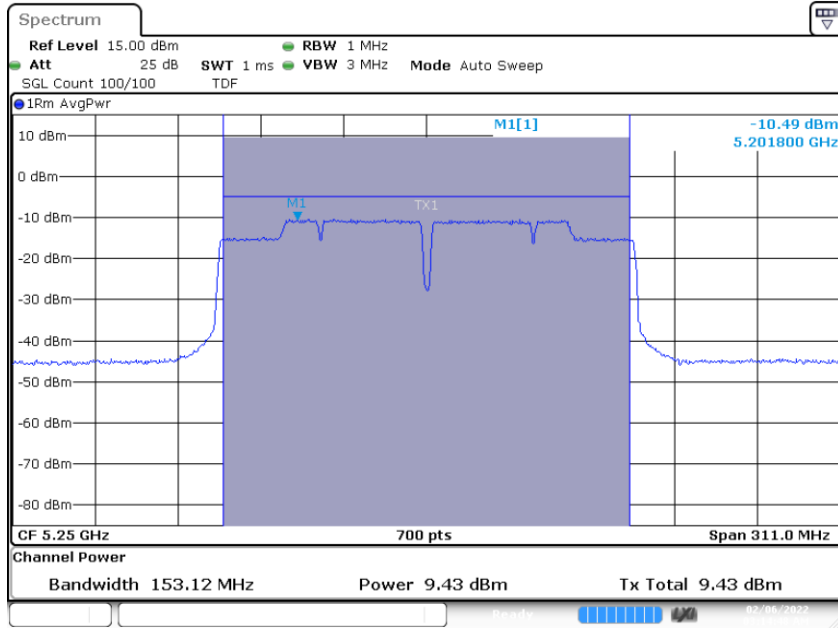
# SISO-B, 802.11ac80, VHT0

Channel 42



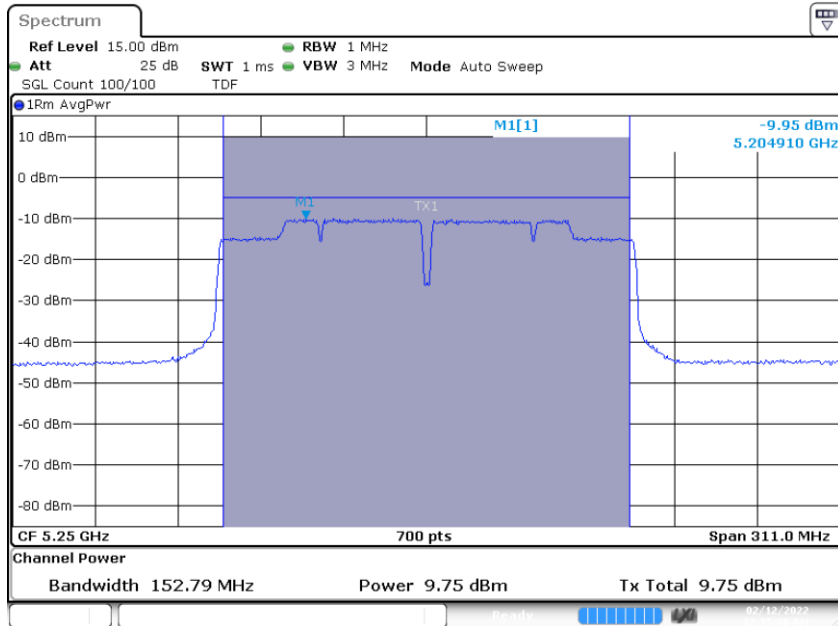
# MIMO-A, 802.11ac160, VHT0

Channel 50



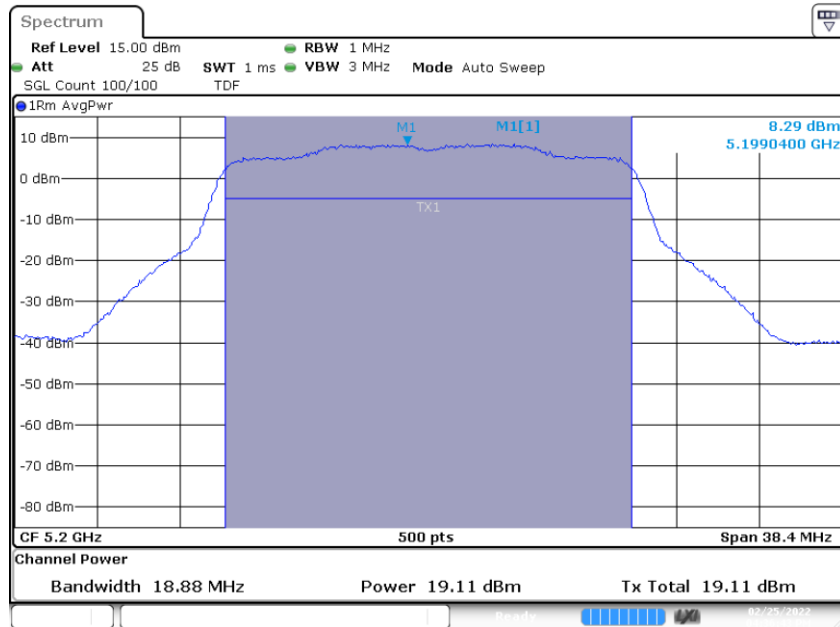
# MIMO-B, 802.11ac160, VHT0

Channel 50



# SISO-B, 802.11ax20, HE0

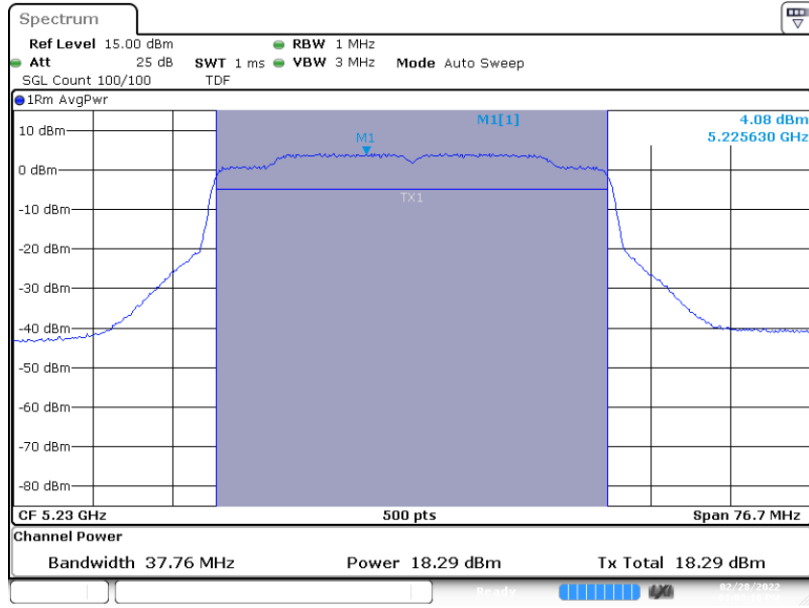
Channel 40





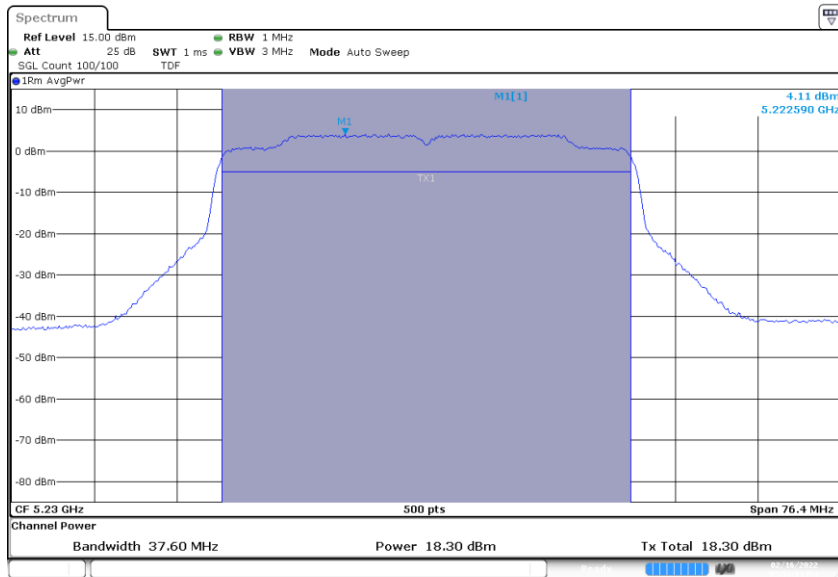
# MIMO-A, 802.11ax40, HE0

Channel 46



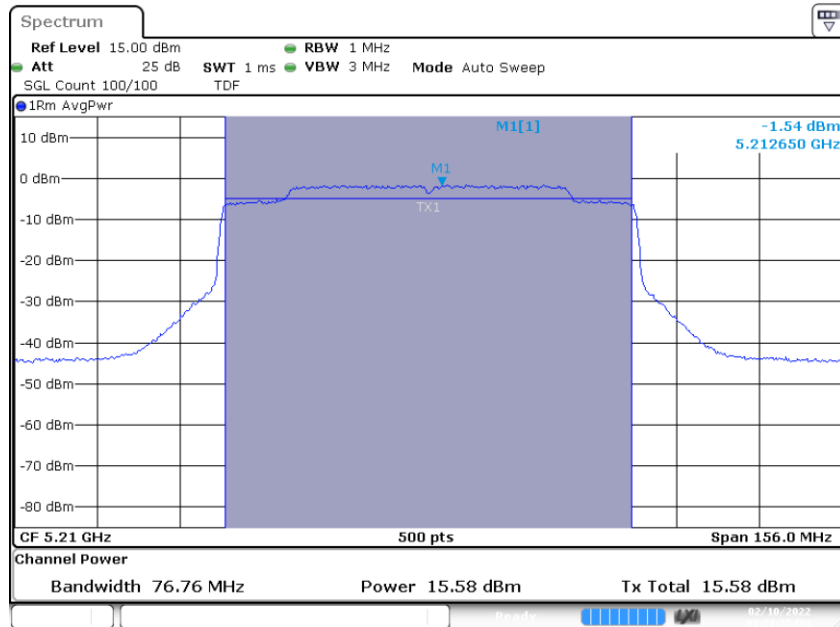
# MIMO-B, 802.11ax40, HE0

Channel 46



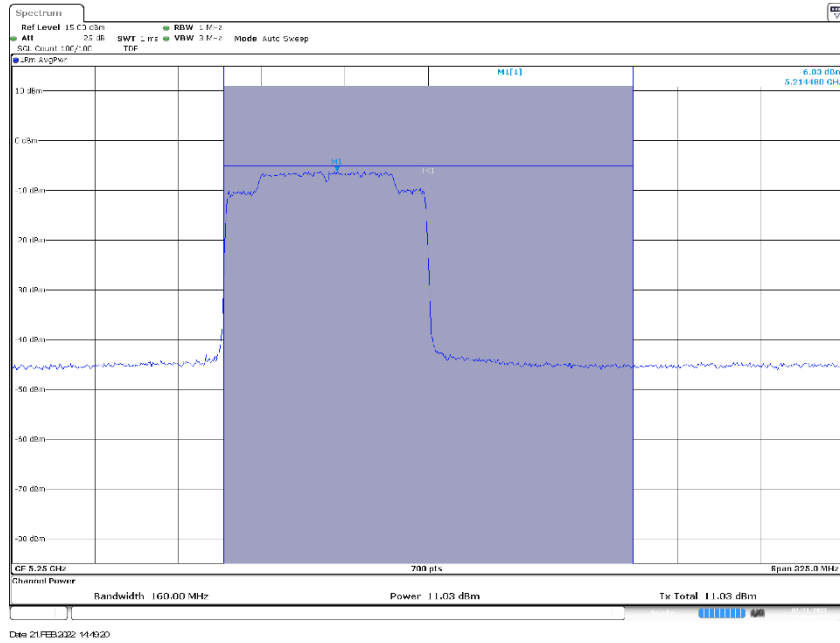
# SISO-B, 802.11ax80, HE0

Channel 42



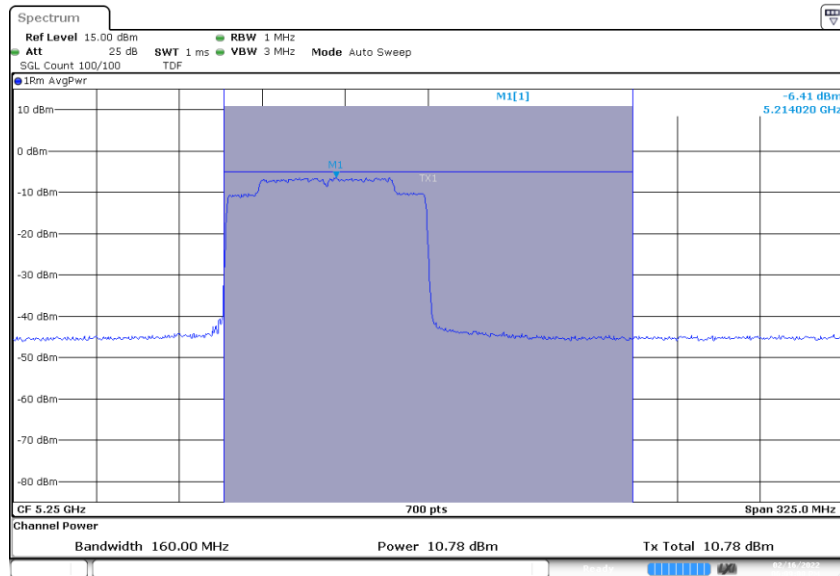
# MIMO-A, 802.11ax160, HE0

Channel 50

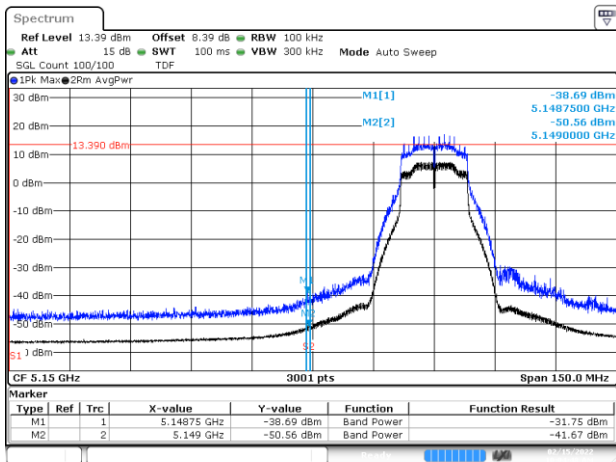


# MIMO-B, 802.11ax160, HE0

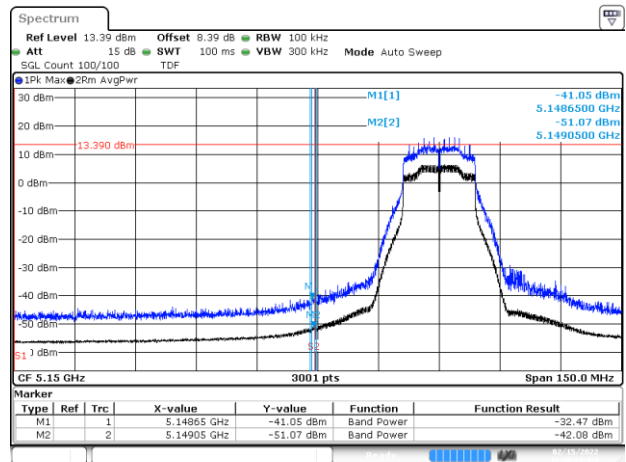
Channel 50



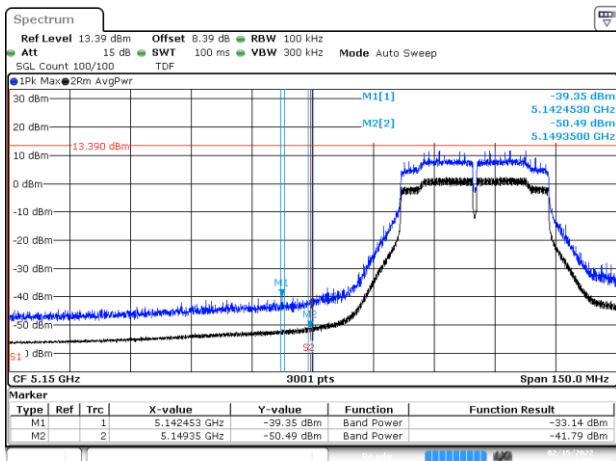
## B.4.4 Undesirable emission limits : out of band (Conducted)



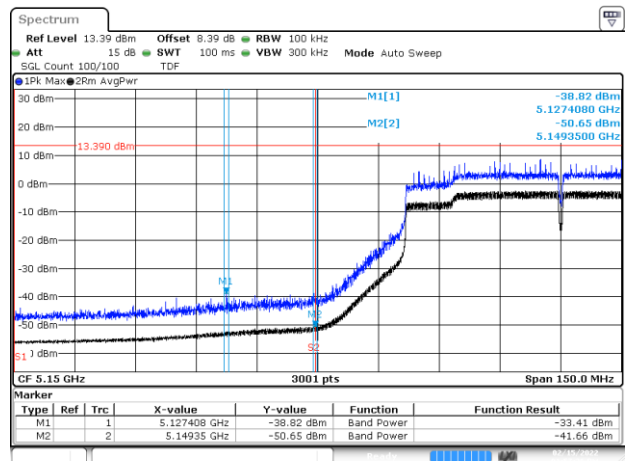
BE-R-LOW, SISO-A, 802.11a20-6Mbps, Ch36



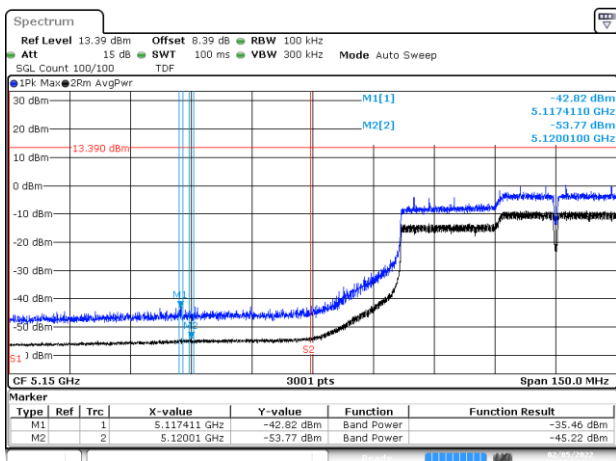
BE-R-LOW, SISO-A, 802.11n20-HT0, Ch36



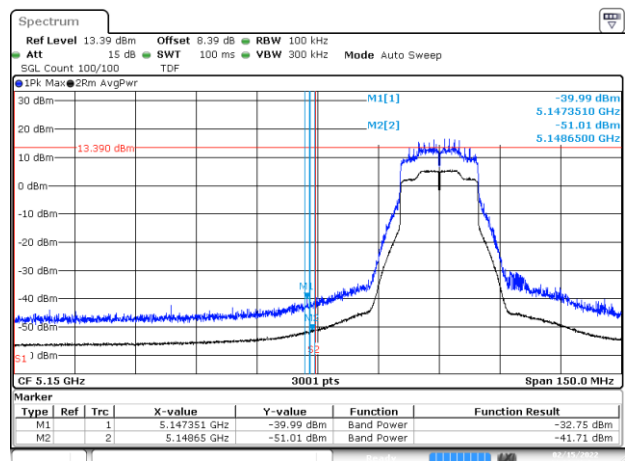
BE-R-LOW, SISO-A, 802.11n40-HT0, Ch38



BE-R-LOW, SISO-A, 802.11ac80-VHT0, Ch42



BE-R-LOW, SISO-A, 802.11ac160-VHT0, Ch50



BE-R-LOW, SISO-A, 802.11ax20-HE0, Ch36