



TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1625 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX411
Model Name	AX411E2W
FCC ID / IC ID	FCC ID: PD9AX411E2/ IC 1000M-AX411E2
Date of Test Start/End	2021-07-18 / 2021-09-02
Features	802.11ax, Tri Band, 2x2 Wi-Fi 6E + Bluetooth® 5.2 + CDB (Concurrent Dual Band simultaneous wi-fi connection) (see section 5)

Applicant	Intel Mobile Communications
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Reference Standards	FCC CFR Title 47 Part 15 E RSS-247 issue 2, RSS-Gen issue 5 - A1 (see section 1)
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Test Report identification	210611-03.TR03
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

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1. Standards, reference documents and applicable test methods

FCC	<ol style="list-style-type: none"> 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.
ISED	<ol style="list-style-type: none"> 1. RSS-Gen Issue 5 Amendment 1 - General Requirements for Compliance of Radio Apparatus. 2. RSS-247 Issue 2 - Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices. 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

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED #1000Y.
- ✓ 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	22.5 °C ±2 °C
Humidity	47.1% ±14.1%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#1	210611-03.S04	WiFi 6E Module	AX411E2W	WM:3413E8F0D1BA	2021-07-05	RF Conducted except see #5
	170000-01.S02	Laptop	Latitude E5470	21HTPF2	2017-03-28	
	191003-02.S06	Extender	PCB00651_01	6513519-009	2019-10-29	
	210611-03.S24	Socket (GfP4 SD1625)	AX411E2W	-	2021-07-22	
#2	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 30MHz- 1GHz and 9.5- 18GHz Radiated Spurious Emissions tests
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	
	210611-02.S13	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S14	Aux Antenna	SkyCross	-	2021-07-02	
#3	210611-03.S02	WiFi 6E Module	AX411E2W	WM:3413E8F0DA75	2021-07-05	Used for 1GHz- 9.5GHz Radiated Spurious Emissions tests
	210611-03.S26	Socket	Adaptor 1625	-	2021-07-16	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	210611-02.S16	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	210611-02.S11	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S12	Aux Antenna	SkyCross	-	2021-07-02	
#4	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 18GHz - 40GHz Radiated Spurious Emissions tests
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	210611-02.S11	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S12	Aux Antenna	SkyCross	-	2021-07-02	
#5	210611-03.S03	WiFi 6E Module	AX411E2W	WM:3413E8F0D1AB	2021-07-05	RF Conducted -802.11ac80 MIMO CH155
	170000-01.S02	Laptop	Latitude E5470	21HTPF2	2017-03-28	
	191003-02.S06	Extender	PCB00651_01	6513519-009	2019-10-29	
	210611-03.S24	Socket (GfP4 SD1625)	AX411E2W	-	2021-07-22	

5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6E AX411		
Model Name	AX411E2W		
Software Version	DRTU Version: 99.2100.64.0-OEM.DRTU.12485 DRTU Version: 99.2100.66G-OEM.DRTU.12712		
Driver Version	99.0.63.5 99.0.66.4		
Prototype / Production	Production		
Supported Radios	802.11b/g/n/ax 802.11a/n/ac/ax 802.11 ax Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz) 5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5895.0 MHz) 6.0GHz (5925.0 - 7125.0MHz) 2.4GHz (2400.0 – 2483.5 MHz)	
Antenna Information	Transmitter	Main (chain A)	Aux (chain B)
	Manufacturer	SkyCross	Skycross
	Antenna type	PIFA antenna	PIFA antenna
	Part number	N/A	N/A
	Declared antenna gain (dBi)	+5	+5
Additional information	The EUT is a WiFi module supporting concurrent dual band (CDB) transmission modes		
	Mode	TX Chain B	TX Chain A
	CDB Mode + Co-run BT:		
	BT Co-run – CDB SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	BT BT
	CDB only SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	- -
	CDB only SISO	- -	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	CDB only MIMO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 5GHz + BT
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 6GHz + BT

6. Remarks and comments

1. No deviations were made from the test methods listed in section 1 of this report
2. The CDB mode has been evaluated in a separate report. Refer to report Identification 210611-03.TR51

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- 3

FCC part	RSS clause	Test name	Verdict
15.407 (e)	RSS-247 Clause 6.2.4.1	6dB Bandwidth	P
15.407 (a) (3)	RSS-247 Clause 6.2.4.1	Maximum output power	P
15.407 (a) (3)	RSS-247 Clause 6.2.4.1	Power spectral density	P
15.407 (b) (3)	RSS-247 Clause 6.2.4.2	Undesirable emissions limits: out of band (conducted)	P
15.407 (b) (3) 15.209	RSS-247 Clause 6.2.4.2 RSS-GEN A1 Clause 8.9	Undesirable emissions limits: Spurious emissions (radiated)	P

P: Pass

F: Fail

NM: Not Measured

NA: Not Applicable

8. Document Revision History

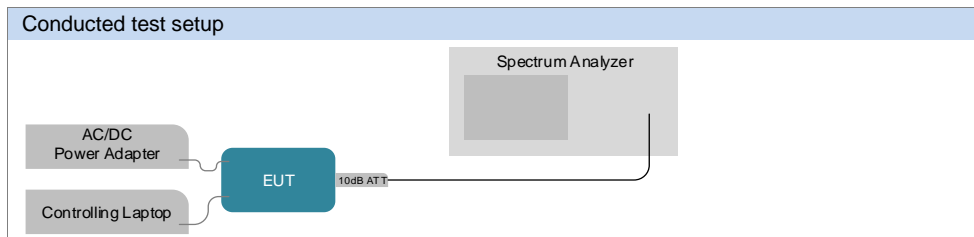
Revision #	Modified by	Revision Details
Rev. 00	N.Bui	First Issue

Annex A. Test & System Description

A.1 Measurement System

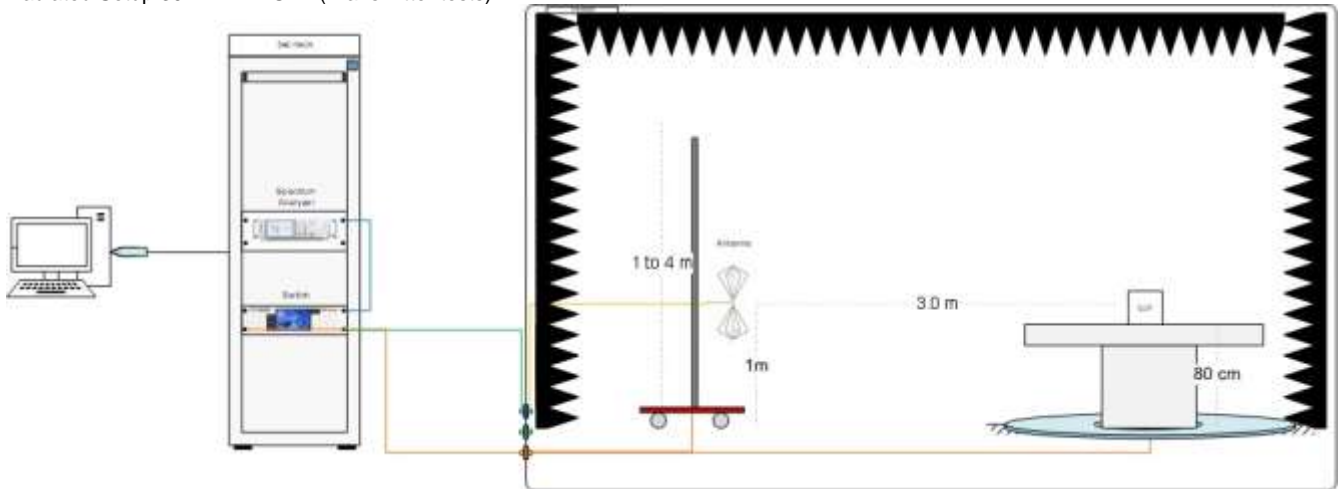
Measurements were performed using the following setups, made in accordance to the general provisions of FCC KDB 789033 D02 General UNII Test Procedures.

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.

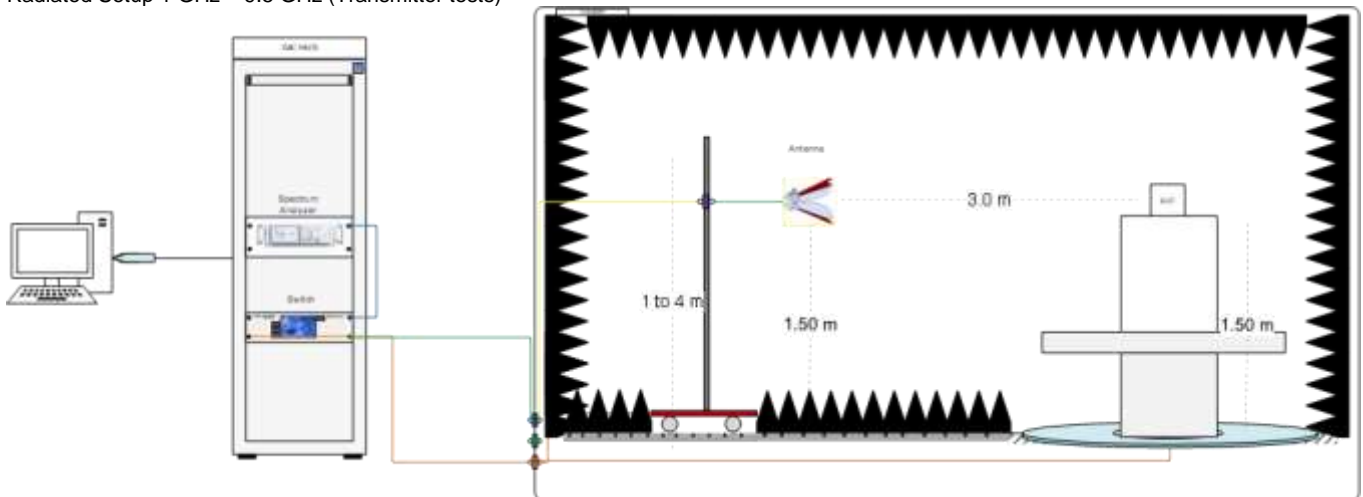


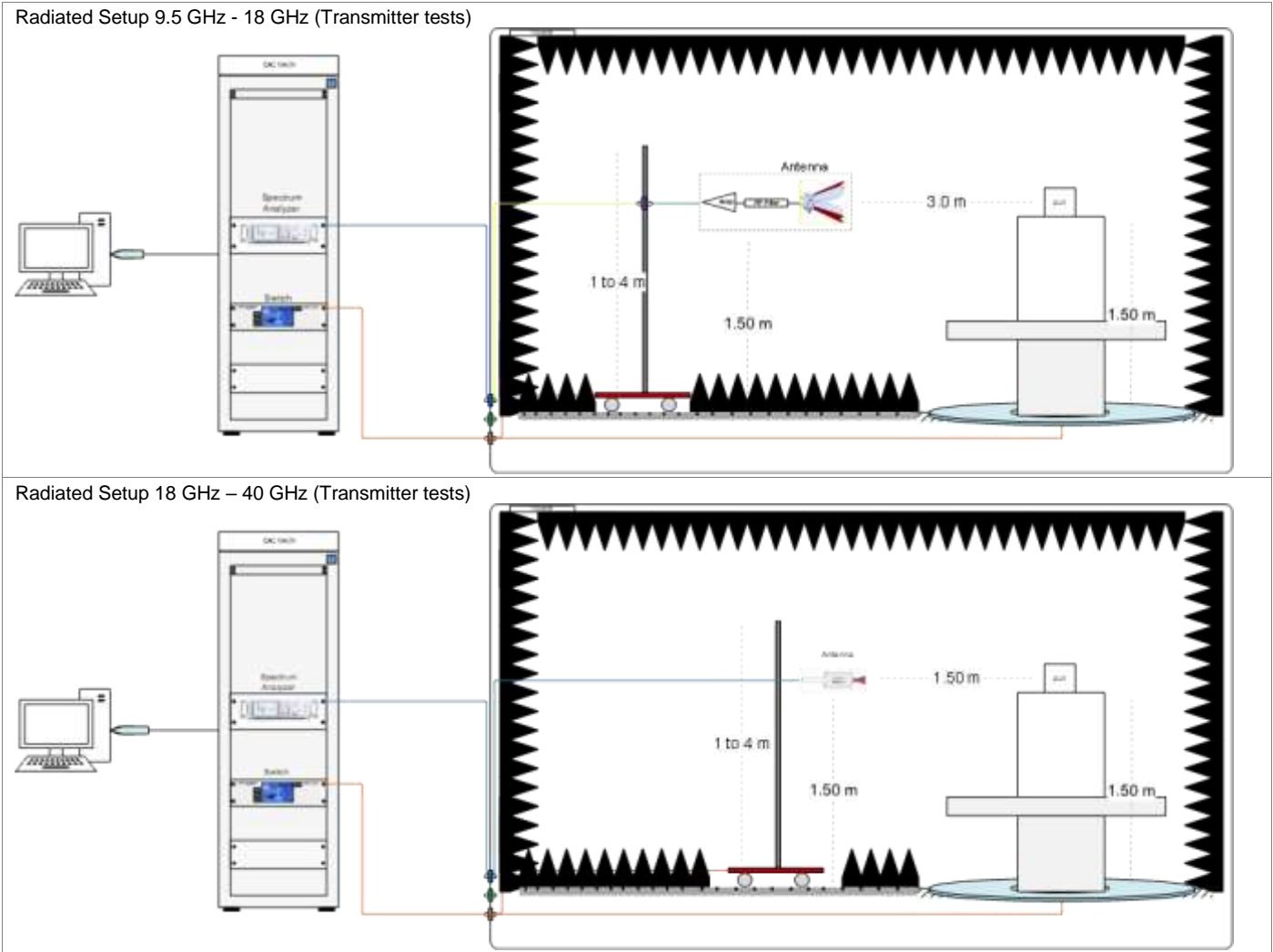
Radiated test setup

Radiated Setup 30 MHz - 1 GHz (Transmitter tests)



Radiated Setup 1 GHz - 9.5 GHz (Transmitter tests)





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_{Meas} is the field strength of the emission at the measurement distance, in $\text{dB}\mu\text{V/m}$
- D_{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
273-000	Spectrum Analyzer	FSV30	103309	Rohde & Schwarz	2019-09-02	2021-09-02
018-003	RF cable 50cm	PE360-50CM	N/A	PASTERNAK	2021-02-23	2022-02-23
018-001	10dB Attenuator + MH4	N/A	N/A	N/A	2021-02-23	2022-02-23
408-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	AVITECH	2021-06-03	2023-06-03
413-000	Measurement SW v1.5.4.2	Octopi	N/A	Step AT	N/A	N/A

Radiated Setup #1

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
006-000	Anechoic Chamber	FACT3	5720	ETS-Lindgren	2020-07-06	2022-01-07
006-001	Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
006-002	Switch & Positioning systems	EMC Center	00159757	ETS-Lindgren	N/A	N/A
006-008	Measurement SW	EMC32, v10.40.10	100623	Rohde & Schwarz	N/A	N/A
006-011	Boresight antenna mast	BAM 4.0-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	2019-11-22	2021-11-22
147-000	Spectrum analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
*006-020	Horn antenna 3117	3117	00157734	ETS-Lindgren	2019-08-12	2021-08-12
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	2019-07-24	2021-07-24
*006-039	Cable 2.5m - 30MHz to 18GHz	0500990992500KE	19.23.395	Radiall	2021-02-23	2021-08-23
*006-030	Cable 1.2m – 18 to 40 GHz	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-coax	2021-02-14	2021-08-14
*006-034	Cable 1m - 1GHz to 18GHz	UFA147A	-	Utilflex	2021-02-18	2021-08-18
*006-036	Cable 1m – 30 MHz - 18GHz	UFB311A-0-0590-50U50U	MFR 64639 223230-001	Micro-coax	2021-02-23	2021-08-23
*006-052	RF Cable 7.5m	0501051057000GX	19.35.850	Radiall	2021-02-23	2021-08-23
*006-038	Cable 7m - 18GHz to 40GHz	R286304009	-	Radiall	2021-02-14	2021-08-14
*006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2021-02-23	2021-08-23
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

*Items not used during out of calibration period

Radiated Setup #2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
007-000	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2020-07-06	2022-07-06
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	EMC32, V11.20.00	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	2019-07-24	2021-07-24
*007-022	RF Cable 1-18GHz, 1.5m	0501050991200GX	19.23.493	Radiall	2021-02-14	2021-08-14
*007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2021-02-14	2021-08-14
*007-011	RF Cable 1-18GHz - 6.5m	140-8500-11-51	001	Spectrum	2021-02-14	2021-08-14
*007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2021-02-15	2021-08-15
*007-01	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2021-02-14	2021-08-14
*007-023	RF Cable 1m DC-40GHz	PE360-100CM	-	Pasternack	2021-02-16	2021-08-16
*007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2021-02-15	2021-08-15
145-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	Avtech	2020-01-22	2022-01-22

N/A: Not Applicable

*Items not used during out of calibration period

Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
022-000	Power Sensor	NRP-Z81	104385	Rohde & Schwarz	2020-04-08	2022-04-08
061-000	Power Sensor	NRP-Z81	104386	Rohde & Schwarz	2020-04-08	2022-04-08
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	± 0.12	%
Power Spectral density	± 1.47	dB
Occupied bandwidth	± 2.07	%
Conducted Power	± 1.03	dB
Conducted Spurious Emission <40 GHz	± 3.45	dB
Radiated tests <1GHz	± 5.99	dB
Radiated tests 1GHz – 40 GHz	± 5.85	dB

Annex B. Test Results U-NII-3

The herein test results were performed by:

Test case measurement	Test Personnel
6dB and 99% Bandwidth	C.Requin . Y Haddad
Maximum output power & Maximum PSD	C.Requin . Y Haddad
Undesirable emission limits: out of band	C.Requin . Y Haddad
Radiated spurious emissions	A.Lounes, 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 and 802.11ax40 (40MHz channel bandwidth) 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The conducted RF output power at each chain was adjusted according to the client's supplied target values (see following table) using the Intel DRTU tool and measuring the power by using a spectrum analyser with the channel integration method according to section II) E) 2) e) (Method SA-2 Alternative) of Guidance FCC KDB 789033 D02 Measured values for adjustment were within +/- 0.25 dB from the declared target values..

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
	802.11ax	20	HE0
		40	HE0
80		HE0	
MIMO	802.11n	20/40	HT8
	802.11ac	80	VHT0
	802.11ax	20/40/80	HE0

B.2 Test Results Tables

B.2.1 6dB & 99% Bandwidth

Test limits

FCC part	RSS clause	Limits
15.407 (e)	RSS-247 Clause 6.2.4.1	For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 6dB & 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.

For the overlapped channels between U-NII-2C and U-NII-3 bands, and according to FCC KDB 789033 D02, the boundary frequency between the bands is used as one edge for defining the portion of the 6dB bandwidth that falls within a particular U-NII band. This rule is only applicable for the 6dB bandwidth and for those channels marked as overlapped.

Results tables

U-NII-3 channels

Mode	Rate	Antenna	Channel	Freq [MHz]	6dB BW [MHz]	99% BW [MHz]	
802.11a	6Mbps	SISO A	149	5745	13.86	16.76	
			157	5785	14.57	16.84	
			165	5825	15.04	16.80	
		SISO B	149	5745	15.12	16.84	
			157	5785	15.08	16.80	
			165	5825	15.05	16.96	
802.11n20	HT0	SISO A	149	5745	15.11	17.76	
			157	5785	15.32	17.88	
			165	5825	15.02	17.76	
		SISO B	149	5745	16.08	17.84	
			157	5785	15.03	17.88	
			165	5825	13.53	17.80	
	HT8	MIMO A	149	5745	14.56	17.84	
			157	5785	13.81	17.80	
			165	5825	14.43	17.96	
		MIMO B	149	5745	15.04	17.72	
			157	5785	16.05	18.00	
			165	5825	15.65	17.88	
802.11n40	HT0	SISO A	151	5755	34.97	36.16	
			159	5795	34.12	36.32	
		SISO B	151	5755	32.56	36.32	
			159	5795	35.01	36.32	
		HT8	MIMO A	151	5755	33.77	36.16
				159	5795	35.02	36.24
	MIMO B		151	5755	35.04	36.16	
			159	5795	35.08	36.32	
	802.11ac80	VHT0	SISO A	155	5775	75.07	75.00
			SISO B			72.60	75.00
			MIMO A			71.40	75.12
			MIMO B			71.37	75.00

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	6dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	149	5745	Full	17.22	18.96
					26/0	12.00	18.64
					52/37	16.97	18.28
					106/53	17.04	18.32
			157	5785	Full	16.16	18.96
					165	5825	Full
		SISO B	149	5745	Full	16.34	18.88
					26/0	2.01	18.52
					52/37	16.98	18.52
					106/53	17.08	18.32
			157	5785	Full	16.90	19.08
					165	5825	Full
		MIMO A	149	5745	Full	15.05	19.04
					26/0	2.03	18.04
					52/37	16.99	18.44
					106/53	17.14	18.20
			157	5785	Full	16.50	18.96
					165	5825	Full
		MIMO B	149	5745	Full	15.02	18.88
					26/0	17.01	18.68
					52/37	16.97	17.72
					106/53	17.09	18.24
			157	5785	Full	15.00	19.00
					165	5825	Full
802.11ax40	HE0	SISO A	151	5755	Full	36.02	37.52
					242/61	16.36	18.88
			159	5795	Full	35.54	37.52
					Full	35.35	37.44
		SISO B	151	5755	Full	35.35	37.44
					242/61	16.52	18.88
			159	5795	Full	35.80	37.60
					Full	35.01	37.60
		MIMO A	151	5755	Full	35.01	37.60
					242/61	16.19	18.88
			159	5795	Full	35.01	37.52
					Full	35.00	37.76
MIMO B	151	5755	Full	35.00	37.76		
			242/61	17.02	18.88		
	159	5795	Full	35.02	37.84		
			Full	35.02	37.84		
802.11ax80	HE0	SISO A	155	5775	Full	72.60	76.68
					484/65	34.33	37.56
		SISO B			Full	70.13	76.68
					484/65	35.50	37.56
		MIMO A			Full	75.13	76.68
					484/65	35.13	37.56
		MIMO B			Full	73.87	76.68
					484/65	34.53	37.44

Max Value

Overlapped channels between U-NII-2C and U-NII-3

Mode	Channel	Frequency (MHz)	Antenna	Chain	6dB BW [MHz]	26dB BW UNII-3 [MHz]
802.11n20	144	5720	SISO	A	3.76	7.33
				B	3.38	6.68
			MIMO	A	3.75	7.33
				B	3.16	6.63
802.11n40	142	5710	SISO	A	3.18	8.00
				B	3.17	8.00
			MIMO	A	3.17	7.37
				B	3.18	5.51
802.11ac80	138	5690	SISO	A	3.26	7.47
				B	3.18	7.09
			MIMO	A	3.18	7.09
				B	3.18	6.71
802.11ax20	144	5720	SISO	A	3.73	6.83
				B	4.23	6.78
			MIMO	A	4.07	7.08
				B	3.82	6.23
802.11ax40	142	5710	SISO	A	4.06	6.56
				B	4.04	6.19
			MIMO	A	4.00	6.19
				B	3.91	6.47
802.11ax80	138	5690	SISO	A	4.10	6.14
				B	4.09	6.71
			MIMO	A	4.05	6.71
				B	4.07	7.28

Max Value

Note, the 26dB bandwidth of the overlapped channels falling in U-NII-3 band is shown in the above table. These values were used to measure the maximum output power in the U-NII-3 band as specified in chapter B.2.2.

See Section B.3.1 and B.3.2 for the screenshot results.

B.2.2 Maximum output power & Maximum power spectral Density

Test limits

FCC part	RSS clause	Limits
15.407 (a) (3)	RSS-247 Clause 6.2.4.1	For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

Test procedure

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

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

In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device.

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.

For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 789033 D02, the power is computed based on the portion of the emission bandwidth (26dB) contained within that band. This rule is only applicable for those channels marked as overlapped.

Results tables

Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.37
		SISO B	97.37
802.11n20	HT0	SISO A	98.36
		SISO B	98.36
	HT8	MIMO A	98.26
		MIMO B	98.26
802.11ax20	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.31
		MIMO B	98.31
802.11n40	HT0	SISO A	98.33
		SISO B	98.33
	HT8	MIMO A	98.03
		MIMO B	98.03
802.11ax40	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.86
		MIMO B	98.86
802.11ac80	VHT0	SISO A	99.04
		SISO B	98.05
		MIMO A	97.98
		MIMO B	97.98
802.11ax80	HE0	SISO A	97.88
		SISO B	97.88
		MIMO A	97.9
		MIMO B	97.9

Maximum output power – U-NII-3 Channels

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	149	5745	SISO A	20.93	21.05	26.05	127.23	
				SISO B	20.94	21.06	26.06	127.52	
		157	5785	SISO A	20.89	21.01	26.01	126.06	
				SISO B	20.92	21.04	26.04	126.93	
		165	5825	SISO A	20.97	21.09	26.09	128.40	
				SISO B	20.94	21.06	26.06	127.52	
802.11n20	HT0	149	5745	SISO A	20.84	20.84	25.84	121.34	
				SISO B	20.95	20.95	25.95	124.45	
		157	5785	SISO A	20.94	20.94	25.94	124.17	
				SISO B	21.09	21.09	26.09	128.53	
		165	5825	SISO A	20.82	20.82	25.82	120.78	
				SISO B	20.88	20.88	25.88	122.46	
	HT8	149	5745	MIMO A	20.93	20.93	25.93	123.88	
				MIMO B	20.84	20.84	25.84	121.34	
				Combined A+B	23.90	23.90	28.90	245.22	
		157	5785	MIMO A	20.86	20.86	25.86	121.90	
				MIMO B	21.02	21.02	26.02	126.47	
				Combined A+B	23.95	23.95	28.95	248.37	
	165	5825	MIMO A	20.94	20.94	25.94	124.17		
			MIMO B	21.11	21.11	26.11	129.12		
			Combined A+B	24.04	24.04	29.04	253.29		
	802.11n40	HT0	151	5755	SISO A	20.66	20.66	25.66	116.41
					SISO B	20.94	20.94	25.94	124.17
			159	5795	SISO A	20.73	20.73	25.73	118.30
SISO B					20.73	20.73	25.73	118.30	
HT8		151	5755	MIMO A	20.38	20.38	25.38	109.14	
				MIMO B	20.13	20.13	25.13	103.04	
				Combined A+B	23.27	23.27	28.27	212.18	
		159	5795	MIMO A	20.58	20.58	25.58	114.29	
				MIMO B	20.72	20.72	25.72	118.03	
				Combined A+B	23.66	23.66	28.66	232.32	
802.11ac80	VHT0	155	5775	SISO A	19.20	19.20	24.20	83.18	
				SISO B	19.53	19.53	24.53	89.74	
				MIMO A	18.44	18.53	23.53	71.26	
				MIMO B	18.47	18.56	23.56	71.76	
				Combined A+B	21.47	21.55	26.55	143.02	

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

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	149	5745	SISO A	Full	20.93	20.93	25.93	123.88		
					26/0	19.60	19.60	24.60	91.20		
					52/37	20.55	20.55	25.55	113.50		
					106/53	20.77	20.77	25.77	119.40		
				SISO B	Full	20.93	20.93	25.93	123.88		
					26/0	19.83	19.83	24.83	96.16		
					52/37	20.80	20.80	25.80	120.23		
					106/53	21.10	21.10	26.10	128.82		
				MIMO A	Full	20.91	20.91	25.91	123.31		
					26/0	16.61	16.61	21.61	45.81		
					52/37	13.81	13.81	18.81	24.04		
					106/53	17.50	17.50	22.50	56.23		
		MIMO B	Full	20.99	20.99	25.99	125.60				
			26/0	16.17	16.17	21.17	41.40				
			52/37	13.65	13.65	18.65	23.17				
			106/53	17.60	17.60	22.60	57.54				
		Combined A+B	Full	23.96	23.96	28.96	248.91				
			26/0	19.41	19.41	24.41	87.21				
			52/37	16.74	16.74	21.74	47.22				
			106/53	20.56	20.56	25.56	113.78				
		157	5785	SISO A	Full	20.86	20.86	25.86	121.90		
				SISO B	Full	20.87	20.87	25.87	122.18		
				MIMO A	Full	20.97	20.97	25.97	125.03		
				MIMO B	Full	20.91	20.91	25.91	123.31		
				Combined A+B	Full	23.95	23.95	28.95	248.34		
		165	5825	SISO A	Full	20.97	20.97	25.97	125.03		
				SISO B	Full	20.88	20.88	25.88	122.46		
				MIMO A	Full	20.85	20.85	25.85	121.62		
				MIMO B	Full	20.83	20.83	25.83	121.06		
				Combined A+B	Full	23.85	23.85	28.85	242.68		
		802.11ax40	HE0	151	5755	SISO A	Full	20.76	20.76	25.76	119.12
							242/61	20.84	20.84	25.84	121.34
						SISO B	Full	20.85	20.85	25.85	121.62
							242/61	21.07	21.07	26.07	127.94
						MIMO A	Full	19.75	19.75	24.75	94.41
							242/61	20.86	20.86	25.86	121.90
MIMO B	Full					20.12	20.12	25.12	102.80		
	242/61					21.08	21.08	26.08	128.23		
Combined A+B	Full			22.95	22.95	27.95	197.21				
	242/61			23.98	23.98	28.98	250.13				
159	5795			SISO A	Full	20.69	20.69	25.69	117.22		
				SISO B	Full	20.85	20.85	25.85	121.62		
				MIMO A	Full	20.64	20.64	25.64	115.88		
				MIMO B	Full	20.61	20.61	25.61	115.08		
		Combined A+B	Full	23.64	23.64	28.64	230.96				
			Full	23.64	23.64	28.64	230.96				
802.11ax80	HE0	155	5775	SISO A	Full	19.37	19.46	24.46	88.37		
					484/65	20.30	20.39	25.39	109.47		
				SISO B	Full	19.68	19.77	24.77	94.91		
					484/65	20.72	20.81	25.81	120.59		
				MIMO A	Full	18.56	18.65	23.65	73.32		
					484/65	19.89	19.98	24.98	99.59		
				MIMO B	Full	18.65	18.74	23.74	74.85		
					484/65	19.99	20.08	25.08	101.91		
				Combined A+B	Full	21.62	21.71	26.71	148.17		
					484/65	22.95	23.04	28.04	201.50		

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

Max Value

Min Value

Maximum output power – Overlapped channels between U-NII-2C and U-NII-3

Mode	Channel	Freq (MHz)	Antenna	Chain	Average Cond. Output Power UNII-3 [dBm]	Max.* Cond. Output Power UNII-3 [dBm]	Max.* EIRP UNII-3 [dBm]	Max.* Cond. Output Power UNII-3 [mW]
802.11n20	144	5720	SISO	A	12.91	12.91	17.91	19.54
				B	12.66	12.66	17.66	18.45
			MIMO	A	12.84	12.84	17.84	19.23
				B	12.82	12.82	17.82	19.14
			Combined	A+B	15.84	15.84	20.84	38.37
802.11n40	142	5710	SISO	A	8.39	8.39	13.39	6.90
				B	8.43	8.43	13.43	6.97
			MIMO	A	7.80	7.80	12.80	6.03
				B	7.80	7.80	12.80	6.03
			Combined	A+B	10.81	10.81	15.81	12.05
802.11ac80	138	5690	SISO	A	5.96	5.96	10.96	3.94
				B	4.66	4.66	9.66	2.92
			MIMO	A	4.05	4.05	9.05	2.54
				B	4.16	4.16	9.16	2.61
			Combined	A+B	7.12	7.12	12.12	5.15
802.11ax20	144	5720	SISO	A	12.70	12.70	17.70	18.62
				B	13.36	13.36	18.36	21.68
			MIMO	A	13.06	13.06	18.06	20.23
				B	12.97	12.97	17.97	19.82
			Combined	A+B	16.03	16.03	21.03	40.05
802.11ax40	142	5710	SISO	A	9.09	9.09	14.09	8.11
				B	9.01	9.01	14.01	7.96
			MIMO	A	8.52	8.52	13.52	7.11
				B	8.51	8.51	13.51	7.10
			Combined	A+B	11.53	11.53	16.53	14.21
802.11ax80	138	5690	SISO	A	5.44	5.44	10.44	3.50
				B	5.21	5.21	10.21	3.32
			MIMO	A	4.83	4.83	9.83	3.04
				B	5.20	5.20	10.20	3.31
			Combined	A+B	8.03	8.03	13.03	6.35

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

Max Value

Min Value

Maximum Power Spectral Density (PSD) – U-NII-3 channels

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/500kHz]					
802.11a	6Mbps	149	5745	SISO A	7.05	7.17					
				SISO B	7.12	7.24					
		157	5785	SISO A	7.04	7.16					
				SISO B	7.08	7.20					
		165	5825	SISO A	7.07	7.19					
				SISO B	7.05	7.17					
802.11n20	HT0	149	5745	SISO A	6.81	6.81					
				SISO B	6.88	6.88					
		157	5785	SISO A	6.94	6.94					
				SISO B	7.07	7.07					
		165	5825	SISO A	6.77	6.77					
				SISO B	6.83	6.83					
	HT8	149	5745	MIMO A	6.93	6.93					
				MIMO B	6.83	6.83					
				Combined A+B	9.89	9.89					
		157	5785	MIMO A	6.80	6.80					
				MIMO B	7.04	7.04					
				Combined A+B	9.93	9.93					
	165	5825	MIMO A	6.94	6.94						
			MIMO B	7.02	7.02						
			Combined A+B	9.99	9.99						
	802.11n40	HT0	151	5755	SISO A	3.15	3.15				
					SISO B	3.44	3.44				
			159	5795	SISO A	3.22	3.22				
SISO B					3.16	3.16					
HT8		151	5755	MIMO A	2.79	2.79					
				MIMO B	2.44	2.44					
		159	5795	Combined A+B	5.63	5.63					
				MIMO A	2.95	2.95					
					MIMO B	3.18	3.18				
					Combined A+B	6.08	6.08				
					802.11ac80	VHT0	155	5775	SISO A	-1.38	-1.38
									SISO B	-1.06	-1.06
MIMO A	1.24	1.33									
MIMO B	-2.09	-2.00									
				Combined A+B	2.90	2.99					

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

Max Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/500kHz]		
802.11ax20	HE0	149	5745	SISO A	Full	6.69	6.69		
					26/0	13.81	13.81		
					52/37	11.78	11.78		
				SISO B	106/53	9.03	9.03		
					Full	6.74	6.74		
					26/0	14.01	14.01		
				MIMO A	52/37	12.00	12.00		
					106/53	9.24	9.24		
					Full	6.61	6.61		
				MIMO B	26/0	10.68	10.68		
					52/37	4.99	4.99		
					106/53	5.63	5.63		
		Combined A+B	Full	6.75	6.75				
			26/0	10.69	10.69				
			52/37	4.79	4.79				
		Combined A+B	106/53	5.81	5.81				
			Full	9.69	9.69				
			26/0	13.70	13.70				
		157	5785	SISO A	5785	Full	6.60	6.60	
						26/0	6.63	6.63	
						52/37	6.71	6.71	
				SISO B	106/53	6.62	6.62		
					Full	6.62	6.62		
					26/0	9.68	9.68		
				MIMO A	52/37	6.65	6.65		
					106/53	6.57	6.57		
					Full	6.56	6.56		
				MIMO B	26/0	6.52	6.52		
					52/37	6.52	6.52		
					106/53	9.55	9.55		
		165	5825	SISO A	5825	Full	3.09	3.09	
						242/61	6.45	6.45	
						52/37	3.15	3.15	
				SISO B	106/53	6.72	6.72		
					Full	1.91	1.91		
					242/61	6.40	6.40		
MIMO A	52/37			2.45	2.45				
	106/53			6.68	6.68				
	Full			5.20	5.20				
MIMO B	242/61			9.55	9.55				
	Full			2.99	2.99				
	242/61			3.15	3.15				
Combined A+B	52/37	2.93	2.93						
	106/53	2.88	2.88						
	Full	5.92	5.92						
802.11ax40	HE0	151	5755	SISO A	Full	-1.28	-1.19		
					484/65	2.67	2.76		
				SISO B	Full	-0.98	-0.89		
					484/65	3.11	3.20		
				MIMO A	Full	-2.18	-2.09		
					484/65	2.19	2.28		
		MIMO B	Full	-2.11	-2.02				
			484/65	2.42	2.51				
		159	5795	MIMO B	Full	0.87	0.96		
					484/65	5.32	5.41		
				Combined A+B	Full	0.87	0.96		
					484/65	5.32	5.41		
802.11ax80	HE0			155a	5775	SISO A	Full	-1.28	-1.19
							484/65	2.67	2.76
		SISO B	Full			-0.98	-0.89		
			484/65			3.11	3.20		
		MIMO A	Full			-2.18	-2.09		
			484/65			2.19	2.28		
		MIMO B	Full	-2.11	-2.02				
			484/65	2.42	2.51				
		155a	5775	MIMO B	Full	0.87	0.96		
					484/65	5.32	5.41		
				Combined A+B	Full	0.87	0.96		
					484/65	5.32	5.41		

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

Max Value

Maximum Power Spectral Density (PSD) – Overlapped channels between U-NII-2C and U-NII-3

Mode	Channel	Freq (MHz)	Antenna	Chain	Average conducted PSD UNII-3 [dBm/MHz]	Maximum* conducted PSD UNII-3 [dBm/MHz]
802.11n20	144	5720	SISO	A	5.83	5.83
				B	5.90	5.90
			MIMO	A	5.77	5.77
				B	5.77	5.77
			Combined	A+B	8.78	8.78
802.11n40	142	5710	SISO	A	0.95	0.95
				B	0.89	0.89
			MIMO	A	0.66	0.66
				B	0.58	0.58
			Combined	A+B	3.63	3.63
802.11ac80	138	5690	SISO	A	-2.92	-2.92
				B	-2.90	-2.90
			MIMO	A	-3.19	-3.19
				B	-3.21	-3.21
			Combined	A+B	-0.19	-0.19
802.11ax20	144	5720	SISO	A	5.70	5.70
				B	5.81	5.81
			MIMO	A	5.68	5.68
				B	5.38	5.38
			Combined	A+B	8.54	8.54
802.11ax40	142	5710	SISO	A	0.65	0.65
				B	0.61	0.61
			MIMO	A	3.40	3.40
				B	0.31	0.31
			Combined	A+B	0.46	0.46
802.11ax80	138	5690	SISO	A	-3.01	-3.01
				B	-3.07	-3.07
			MIMO	A	-3.16	-3.16
				B	-3.07	-3.07
			Combined	A+B	-0.10	-0.10

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

Max Value

See Section B.3.3 & B.3.4 for the screenshot results

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

FCC part	RSS clause	Limits
15.407 (b) (4)	RSS-247 Clause 6.2.4.2	For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

See Section B.3.4 for the screenshot results.

B.2.4 Radiated spurious emission

Standard references

FCC part	RSS clause	Limits																				
15.407 (b) (4)	RSS-247 Clause 6.2.4.2	For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.																				
15.209	RSS-GEN A1, Clause 8.9	<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 chapter B.1 and using the low, middle and high channels.

Test Results

Radiated spurious - 30 MHz – 1 GHz**Radiated Spurious – All modes**

Frequency	Quasi-Peak	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB	--
76.8	33.2	40.0	6.8	H
110.8	14.9	43.5	28.6	V
294.3	18.5	46.0	27.5	V
531.1	36.3	46.0	9.7	V

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

[802.11a](#)**1 GHz – 40 GHz, 802.11a, 6Mbps, Chain A****Radiated Spurious – CH149**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3393.0	58.8	---	68.2	9.4	H
11489.9	52.8	---	74.0	21.2	V
11489.9	---	46.0	54.0	8.0	V
22980.1	46.6	---	74.0	27.4	V
22980.1	---	40.9	54.0	13.1	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3394.5	58.9	---	68.2	9.3	H
11569.8	---	43.0	54.0	11.0	V
11570.2	50.0	---	74.0	24.0	V
23140.1	47.7	---	68.2	20.5	H

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3376.0	57.9	---	68.2	10.3	H
11649.6	---	41.4	54.0	12.6	V
11654.3	50.0	---	74.0	24.0	V
23299.8	47.0	---	68.2	21.2	V

1 GHz – 40 GHz, 802.11a, 6Mbps, Chain B

Radiated Spurious – CH149

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3370.5	58.2	---	68.2	10.0	V
11488.5	60.1	---	74.0	13.9	V
11489.0	---	52.3	54.0	1.7	V
22980.1	48.6	---	74.0	25.4	V
22980.1	---	43.4	54.0	10.6	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3376.5	58.8	---	68.2	9.4	V
11568.3	---	52.8	54.0	1.2	V
11569.8	61.6	---	74.0	12.4	V
23140.1	49.9	---	68.2	18.3	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3399.0	57.6	---	68.2	10.6	V
11647.7	---	49.5	54.0	4.5	V
11655.7	56.8	---	74.0	17.2	V
23303.1	52.4	---	68.2	15.8	V

802.11n

1 GHz – 40 GHz, 802.11n20, HT0, Chain A**Radiated Spurious – CH149**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3375.5	58.6	---	68.2	9.6	V
11489.9	52.1	---	74.0	21.9	V
11489.9	---	45.4	54.0	8.6	V
22980.1	47.6	---	74.0	26.4	V
22980.1	---	42.9	54.0	11.1	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3399.5	59.2	---	68.2	9.0	V
11569.8	49.7	---	74.0	24.3	V
11569.8	---	42.5	54.0	11.5	V
23140.1	48.5	---	68.2	19.7	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.0	58.8	---	68.2	9.4	H
11649.6	51.3	---	74.0	22.7	V
11649.6	---	41.3	54.0	12.7	V
23300.2	48.8	---	68.2	19.4	H

1 GHz – 40 GHz, 802.11n20, HT0, Chain B

Radiated Spurious – CH149

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3377.5	58.7	---	68.2	9.5	H
11489.5	57.5	---	74.0	16.5	V
11489.5	---	49.8	54.0	4.2	V
22980.1	48.2	---	74.0	25.8	V
22980.1	---	42.6	54.0	11.4	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3382.0	59.1	---	68.2	9.1	H
11571.6	60.1	---	74.0	13.9	V
11571.6	---	52.3	54.0	1.7	V
23140.1	49.4	---	68.2	18.8	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3372.0	59.0	---	68.2	9.2	V
11651.4	---	48.9	54.0	5.2	V
11655.7	57.4	---	74.0	16.6	V
23300.2	51.4	---	68.2	16.8	V

1 GHz – 40 GHz, 802.11n20, HT8, Chain A+B

Radiated Spurious – CH149

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.0	59.3	---	68.2	8.9	V
11483.8	58.9	---	74.0	15.1	V
11490.9	---	50.1	54.0	3.9	V
22980.1	47.3	---	74.0	26.7	V
22980.1	---	41.6	54.0	12.4	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3389.0	57.2	---	68.2	11.0	V
11571.2	---	53.0	54.0	1.0	V
11574.0	61.2	---	74.0	12.8	V
23142.0	49.7	---	68.2	18.5	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3375.5	58.4	---	68.2	9.8	V
11641.1	57.9	---	74.0	16.1	V
11649.1	---	49.2	54.0	4.8	V
23295.5	54.1	---	68.2	14.1	V

1 GHz – 40 GHz, 802.11n40, HT0, Chain A

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3373.0	59.5	---	68.2	8.8	H
11509.8	49.9	---	74.0	24.1	V
11509.8	---	42.5	54.0	11.5	V
23020.2	46.3	---	74.0	27.7	V
23020.2	---	41.1	54.0	12.9	V

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3385.5	59.0	---	68.2	9.2	V
11590.1	---	41.7	54.0	12.3	V
11590.5	50.4	---	74.0	23.6	H
23180.3	48.0	---	68.2	20.1	V

1 GHz – 40 GHz, 802.11n40, HT0, Chain B

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3375.5	58.4	---	68.2	9.8	H
11505.5	60.9	---	74.0	13.1	V
11511.2	---	51.1	54.0	2.9	V
23020.2	47.1	---	74.0	26.9	V
23020.2	---	42.2	54.0	11.8	V

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.0	59.2	---	68.2	9.0	V
11582.5	61.1	---	74.0	12.9	V
11582.5	---	51.0	54.0	3.0	V
23180.3	49.5	---	68.2	18.7	V

1 GHz – 40 GHz, 802.11n40, HT8, Chain A+B

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3371.5	58.4	---	68.2	9.8	V
11509.3	59.7	---	74.0	14.3	V
11509.3	---	51.0	54.0	3.0	V
23020.2	47.7	---	74.0	26.3	V
23020.2	---	39.5	54.0	14.5	V

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3373.0	58.8	---	68.2	9.4	V
11586.8	---	51.4	54.0	2.6	V
11588.6	61.6	---	74.0	12.4	V
23180.3	48.4	---	68.2	19.9	H

802.11ac

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A**Radiated Spurious – CH155**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3374.5	58.9	---	68.2	9.3	H
11540.0	50.1	---	74.0	23.9	V
11549.9	---	43.2	54.0	10.8	V
23100.0	48.4	---	74.0	25.6	H
23100.0	---	41.5	54.0	12.5	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B**Radiated Spurious – CH155**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3397.5	58.0	---	68.2	10.2	H
11548.0	---	48.9	54.0	5.1	V
11549.9	57.7	---	74.0	16.3	V
23100.0	48.5	---	74.0	25.5	V
23100.0	---	43.0	54.0	11.0	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A+B**Radiated Spurious – CH155**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3396.0	58.2	---	68.2	10.0	V
11088.6	49.1	---	74.0	24.9	V
11135.8	---	39.2	54.0	14.8	H
11549.9	---	48.2	54.0	5.8	V
11551.3	59.2	---	74.0	14.8	V
23100.0	47.1	---	74.0	26.9	V
23100.0	---	40.1	54.0	13.9	V

802.11ax

1 GHz – 40 GHz, 802.11ax20, HE0, Chain A**Radiated Spurious – CH149**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3399.5	58.1	---	68.2	10.1	H
11472.9	---	49.5	54.0	4.5	V
11473.4	57.1	---	74.0	16.9	V
11486.2	51.7	---	74.0	22.3	V
11489.9	---	43.0	54.0	11.0	V
22980.1	47.7	---	74.0	26.3	V
22980.1	---	42.8	54.0	11.2	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3373.0	59.1	---	68.2	9.1	V
11552.8	---	43.6	54.0	10.4	V
11554.2	53.1	---	74.0	20.9	H
11569.8	---	42.3	54.0	11.7	V
11570.7	50.2	---	74.0	23.8	V
23106.1	50.9	---	74.0	23.1	H
23106.1	---	41.8	54.0	12.2	H
23140.1	47.7	---	68.2	20.5	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3390.0	57.7	---	68.2	10.5	H
11633.0	---	42.2	54.0	11.8	V
11634.0	51.9	---	74.0	22.1	V
23266.2	51.4	---	68.2	16.8	V
23300.2	48.3	---	68.2	19.9	H

1 GHz – 40 GHz, 802.11ax20, HE0, Chain B

Radiated Spurious – CH149

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3382.0	59.3	---	68.2	8.9	H
11472.5	60.7	---	74.0	13.3	V
11472.9	---	52.3	54.0	1.7	V
22945.1	49.6	---	74.0	24.4	V
22945.1	---	39.6	54.0	14.4	V
22980.1	---	43.3	54.0	10.7	V
22980.1	47.5	---	74.0	26.5	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3400.0	58.1	---	68.2	10.1	H
11553.2	62.5	---	74.0	11.5	V
11553.2	---	49.5	54.0	4.5	V
23106.6	50.0	---	74.0	24.0	V
23106.6	---	42.1	54.0	11.9	V
23140.1	47.0	---	68.2	21.2	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3367.0	58.7	---	68.2	9.5	V
11632.1	60.9	---	74.0	13.1	V
11633.0	---	46.5	54.0	7.5	V
23266.2	56.8	---	68.2	11.4	V
23300.2	49.2	---	68.2	19.0	H

1 GHz – 40 GHz, 802.11ax20, HE0, Chain A+B

Radiated Spurious – CH149

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3365.5	58.6	---	68.2	9.6	V
11472.9	---	46.0	54.0	8.0	V
11473.9	58.5	---	74.0	15.5	V
22947.0	---	39.9	54.0	14.1	V
22947.0	49.2	---	74.0	24.8	V
22980.1	46.6	---	74.0	27.4	H
22980.1	---	41.1	54.0	12.9	V

Radiated Spurious – CH157

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3377.0	59.1	---	68.2	9.1	V
11553.2	57.2	---	74.0	16.8	V
11553.2	---	45.0	54.0	9.0	V
23106.1	---	43.1	54.0	10.9	V
23106.1	52.0	---	74.0	22.0	V
23140.1	47.4	---	68.2	20.8	V

Radiated Spurious – CH165

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3366.5	58.6	---	68.2	9.6	H
11632.6	---	40.7	54.0	13.3	V
11632.6	56.1	---	74.0	17.9	V
23265.8	57.3	---	68.2	10.9	V
23300.2	46.8	---	68.2	21.4	V

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3376.5	58.2	---	68.2	9.9	H
11509.8	49.5	---	74.0	24.5	V
11509.8	---	42.2	54.0	11.8	V
11515.9	54.2	---	74.0	19.8	V
11516.4	---	46.9	54.0	7.1	V
23020.2	48.0	---	74.0	26.0	V
23020.2	---	42.3	54.0	11.7	V
23033.4	---	39.2	54.0	14.8	H
23033.4	48.0	---	74.0	26.0	H

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3379.5	58.9	---	68.2	9.3	H
11589.6	49.2	---	74.0	24.8	V
11590.1	---	42.2	54.0	11.8	V
11596.2	---	40.8	54.0	13.2	V
11596.2	51.3	---	74.0	22.7	V
23180.3	47.1	---	68.2	21.1	H
23193.0	54.4	---	68.2	13.8	V

1 GHz – 40 GHz, 802.11ax40, HE0, Chain B

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3374.5	60.5	---	68.2	7.7	V
11516.9	61.6	---	74.0	12.3	V
11516.9	---	50.1	54.0	3.9	V
23020.2	48.0	---	74.0	26.0	H
23020.2	---	40.8	54.0	13.2	V
23033.9	---	39.6	54.0	14.4	V
23033.9	50.5	---	74.0	23.6	V

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3374.0	59.1	---	68.2	9.1	H
11596.2	---	50.8	54.0	3.2	V
11596.7	60.8	---	74.0	13.2	V
23179.8	48.2	---	68.2	20.0	H
23193.0	56.3	---	68.2	11.9	V

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A+B

Radiated Spurious – CH151

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3382.0	58.6	---	68.2	9.6	H
11516.4	---	45.7	54.0	8.3	V
11516.9	56.8	---	74.0	17.2	V
23020.2	47.6	---	74.0	26.4	V
23020.2	---	41.4	54.0	12.6	V
23032.5	---	42.2	54.0	11.8	V
23032.5	51.7	---	74.0	22.3	V

Radiated Spurious – CH159

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3380.0	58.8	---	68.2	9.4	V
11596.2	57.1	---	74.0	16.9	V
11596.7	---	43.3	54.0	10.7	V
23193.5	63.3	---	68.2	4.9	V
23219.9	49.5	---	68.2	18.7	V

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A

Radiated Spurious – CH155

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3369.0	59.0	---	68.2	9.2	V
11549.9	48.9	---	74.0	25.1	V
11549.9	---	43.0	54.0	11.1	V
11557.9	53.1	---	74.0	20.9	V
11558.9	---	42.5	54.0	11.5	V
23100.0	48.0	---	74.0	26.0	H
23100.0	---	41.1	54.0	12.9	H
23117.5	---	41.6	54.0	12.4	V
23117.5	51.3	---	74.0	22.7	V

1 GHz – 40 GHz, 802.11ax80, HE0, Chain B

Radiated Spurious – CH155

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3375.0	58.1	---	68.2	10.1	H
11558.9	---	52.5	54.0	1.5	V
11558.9	68.4	---	74.0	5.6	V
23100.0	48.6	---	74.0	25.4	V
23100.0	---	41.4	54.0	12.6	V
23117.5	51.2	---	74.0	22.8	V
23117.5	---	42.2	54.0	11.8	V

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A+B

Radiated Spurious – CH155

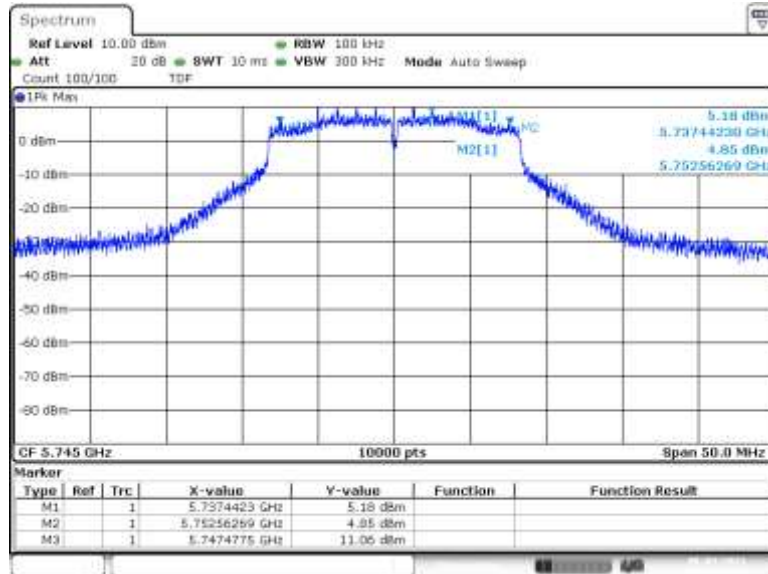
Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3374.5	59.4	---	68.2	8.8	H
11558.4	---	48.2	54.0	5.8	V
11559.8	60.5	---	74.0	13.5	V
23118.4	53.5	---	74.0	20.5	V
23118.4	---	48.7	54.0	5.3	V

B.3 Test Results Screenshot

B.3.1 6dB Bandwidth

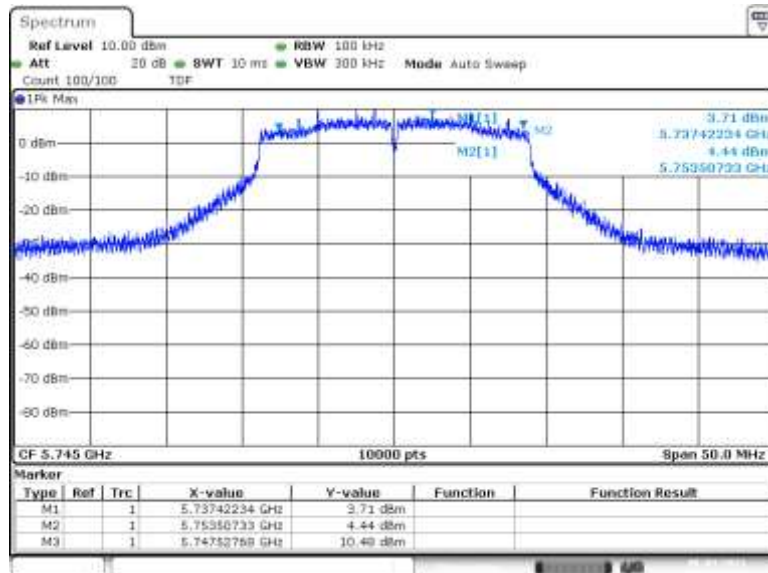
SISO-B, 802.11a, 6Mbps

Channel 149



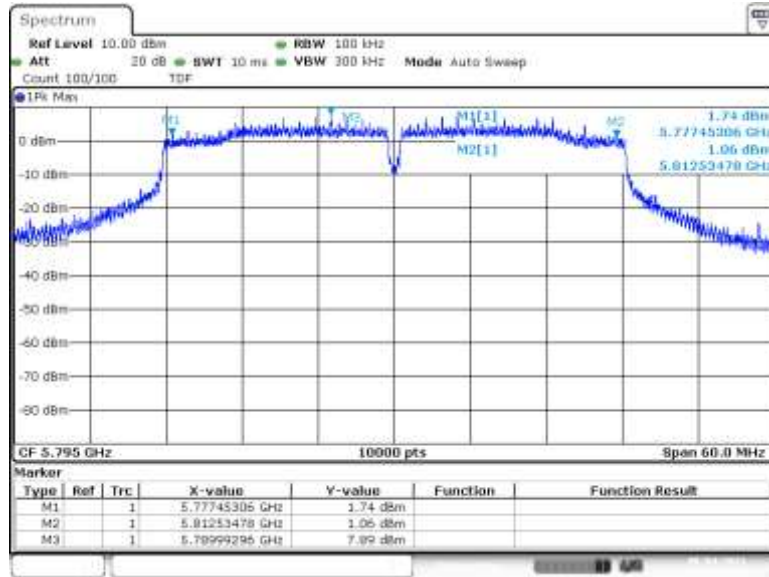
SISO-B, 802.11n20, HT0

Channel 149



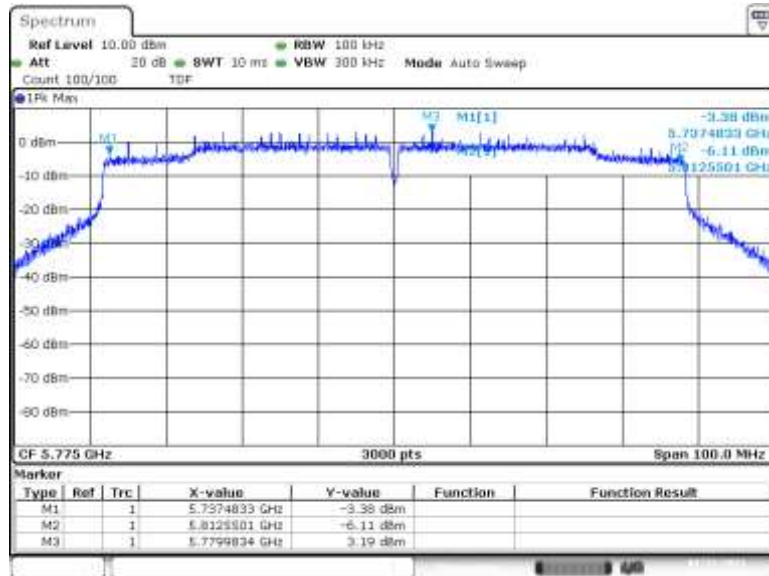
MIMO-B, 802.11n40, HT8

Channel 159



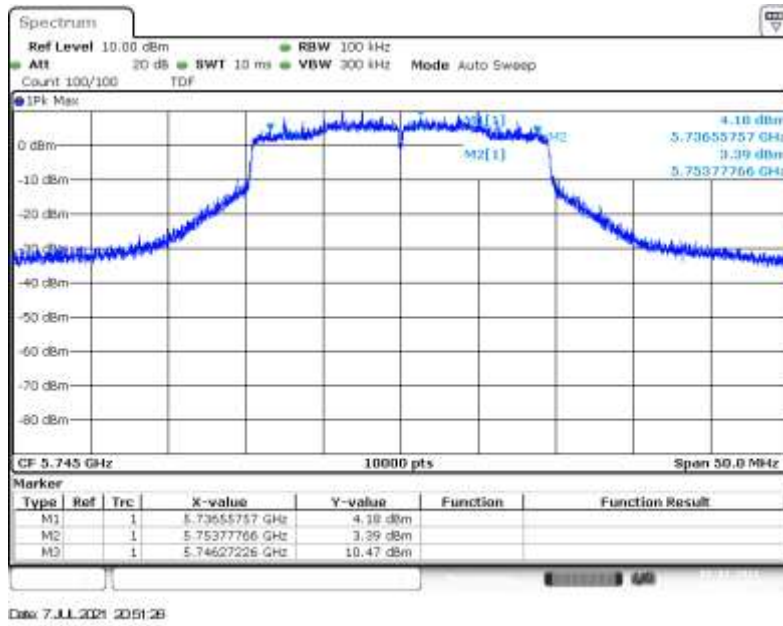
SISO-A, 802.11ac80, VHT0

Channel 155



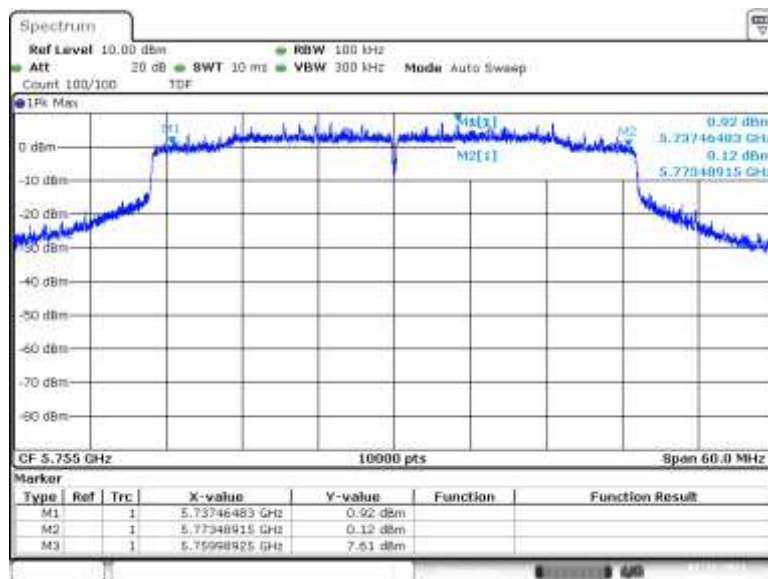
MIMO-A, 802.11ax20, HE0

Channel 149



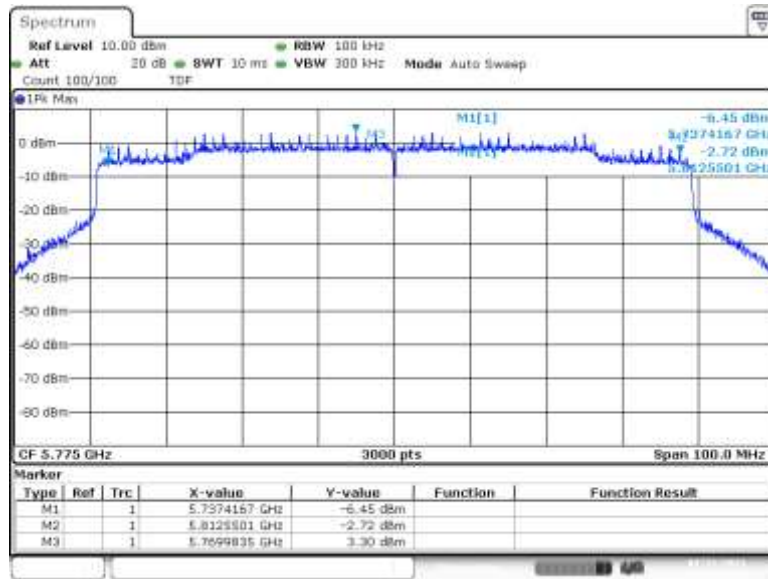
SISO-A, 802.11ax40, HE0

Channel 151



MIMO-A, 802.11ax80, HE0

Channel 155



B.3.2 99% Bandwidth

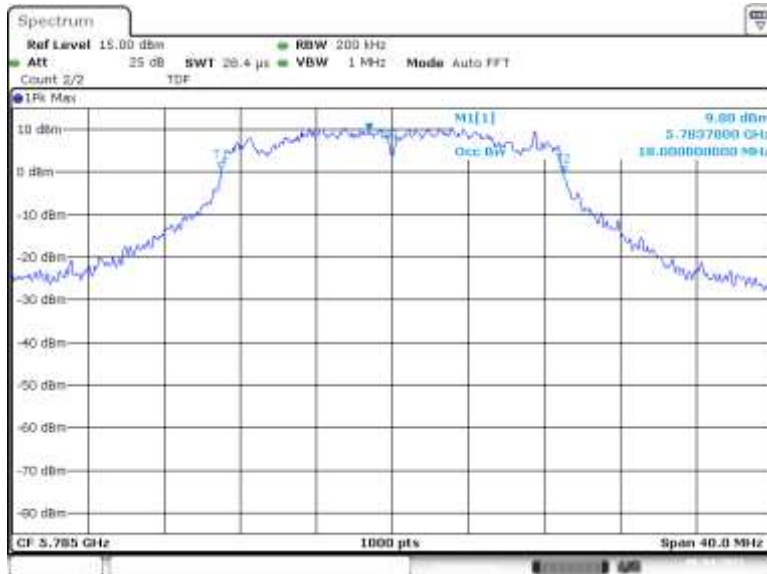
SISO-B, 802.11a, 6Mbps

Channel 165



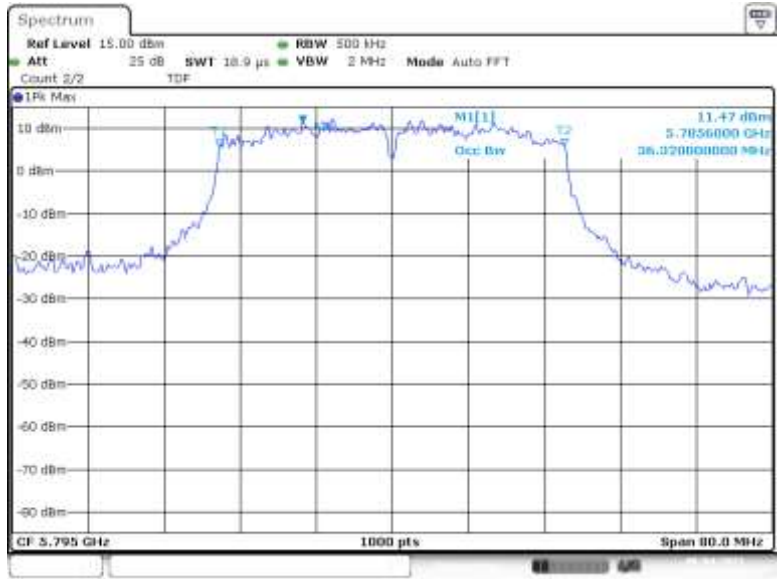
MIMO-B, 802.11n20, HT8

Channel 157



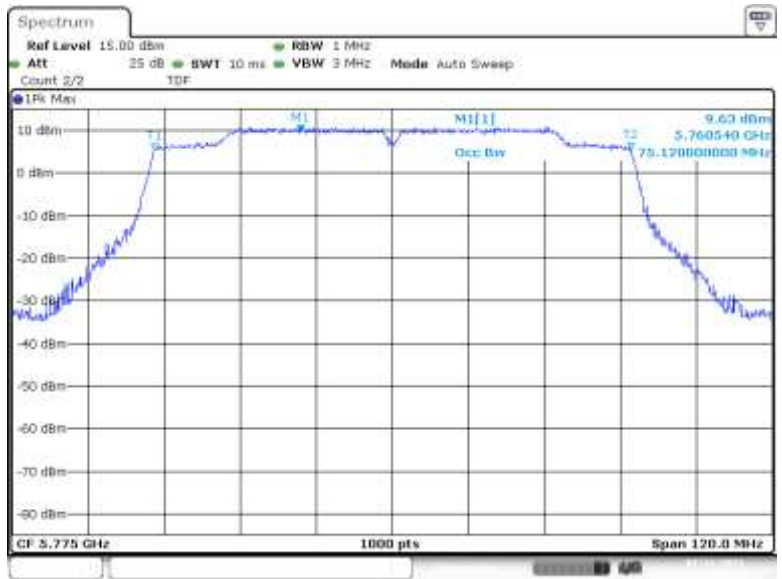
MIMO-B, 802.11n40, HT0

Channel 159



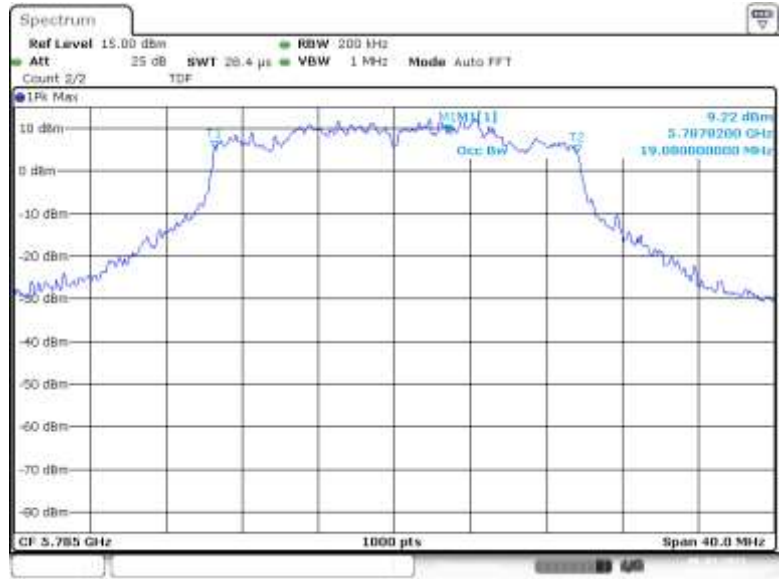
MIMO-A, 802.11ac80, VHT0

Channel 155



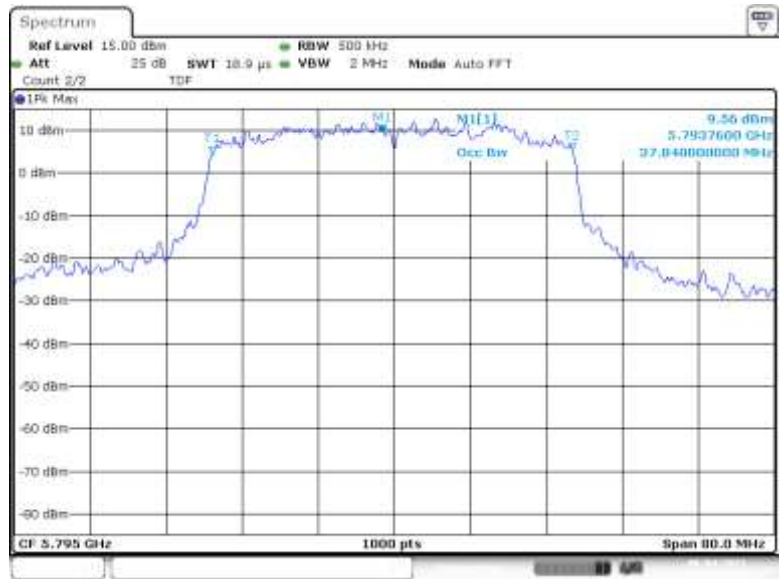
SISO-B, 802.11ax20, HE0

Channel 157



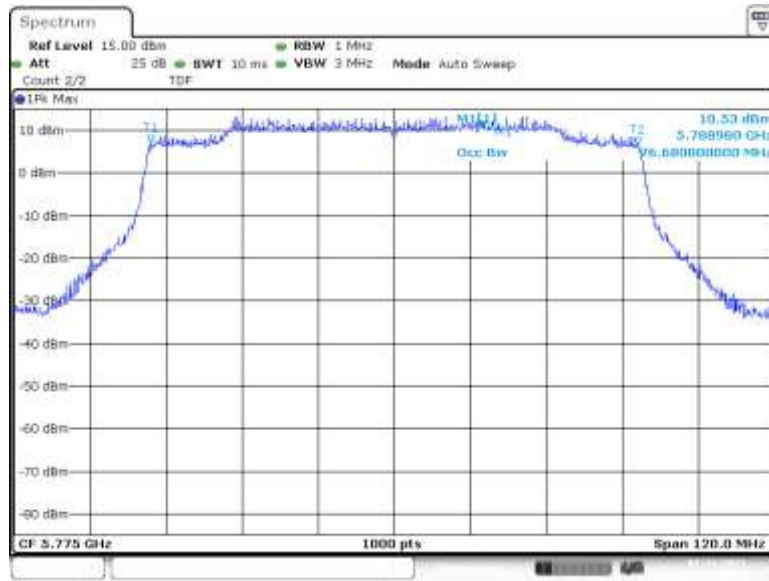
MIMO-B, 802.11ax40, HE0

Channel 159



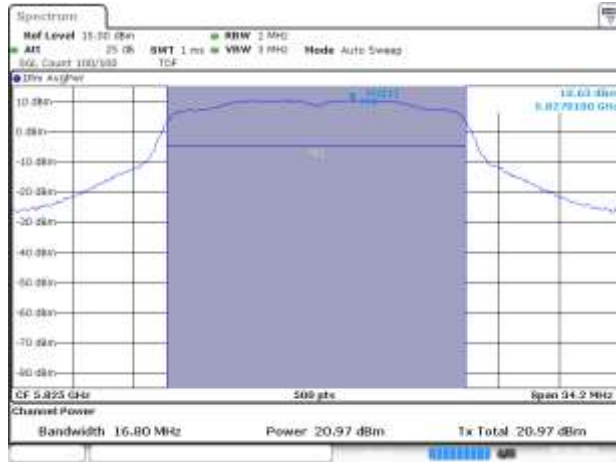
MIMO-A, 802.11ax80, HE0

Channel 155



B.3.3 Maximum output power

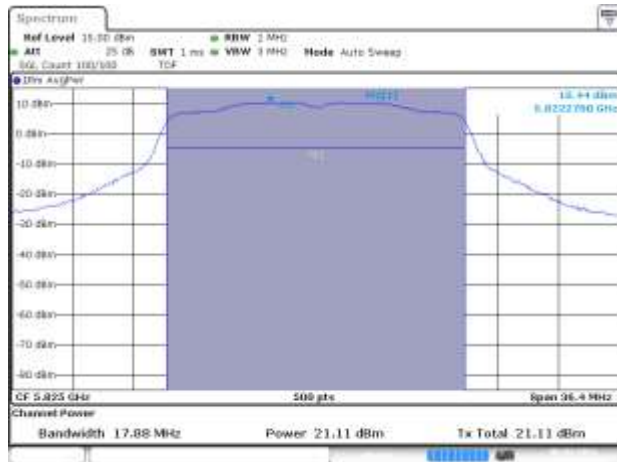
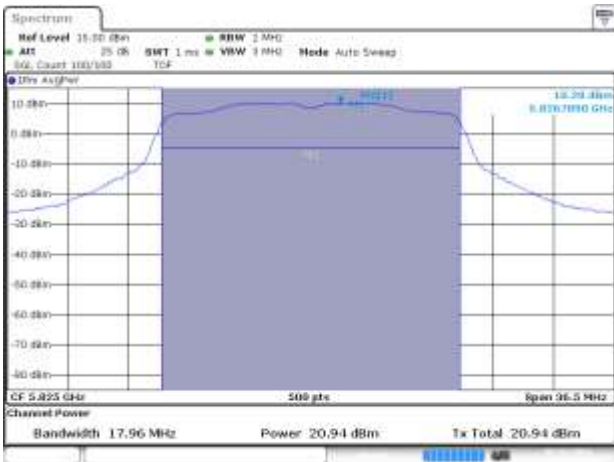
SISO-A, 802.11a, 6Mbps Channel 165



MIMO-A, 802.11n20,HT8

MIMO-B, 802.11n20,HT8

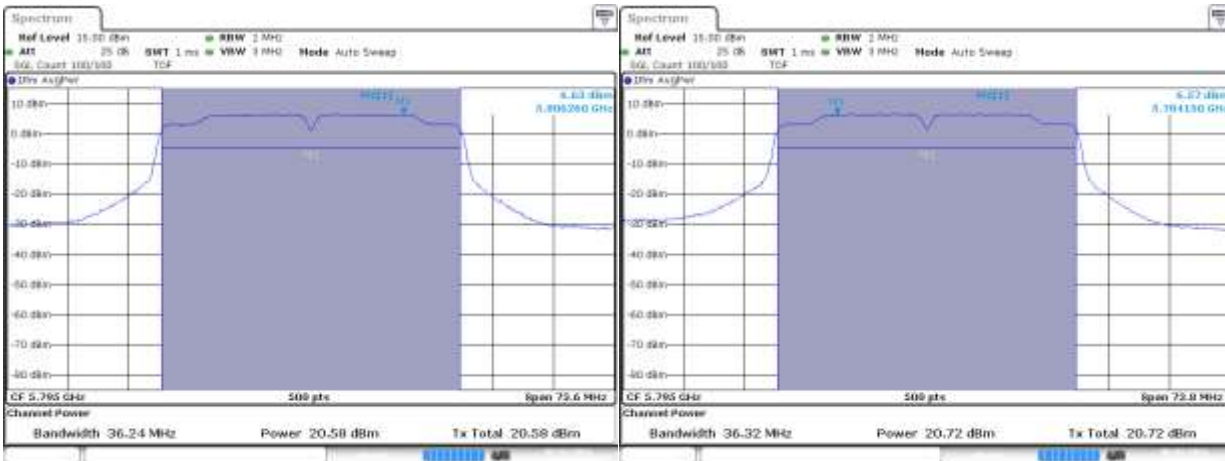
Channel 165



MIMO-A, 802.11n40,HT8

MIMO-B, 802.11n40,HT8

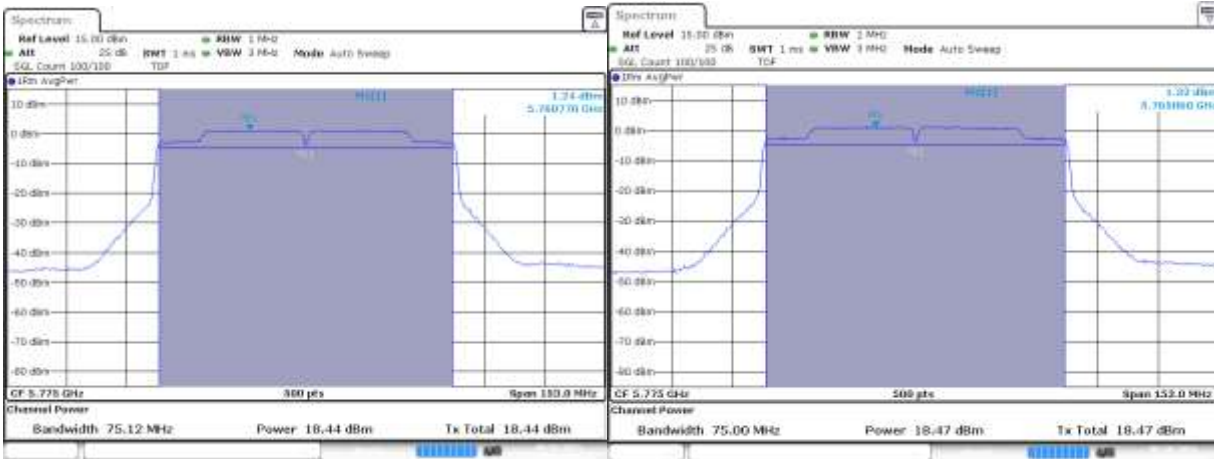
Channel 159



MIMO-A, 802.11ac80,VHT0

MIMO-B, 802.11ac80,VHT0

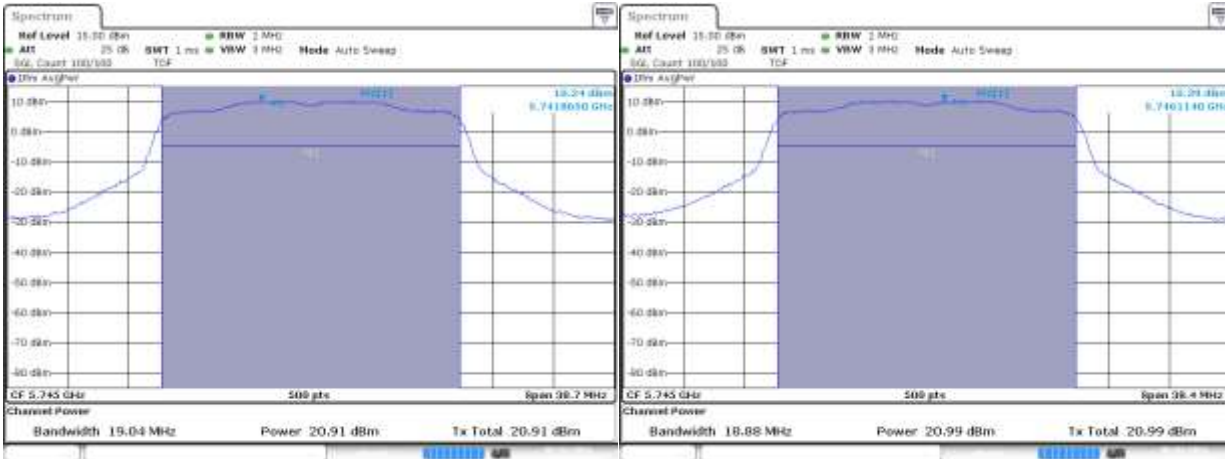
Channel 155



MIMO-A, 802.11ax20,HE0

MIMO-B, 802.11ax20,HE0

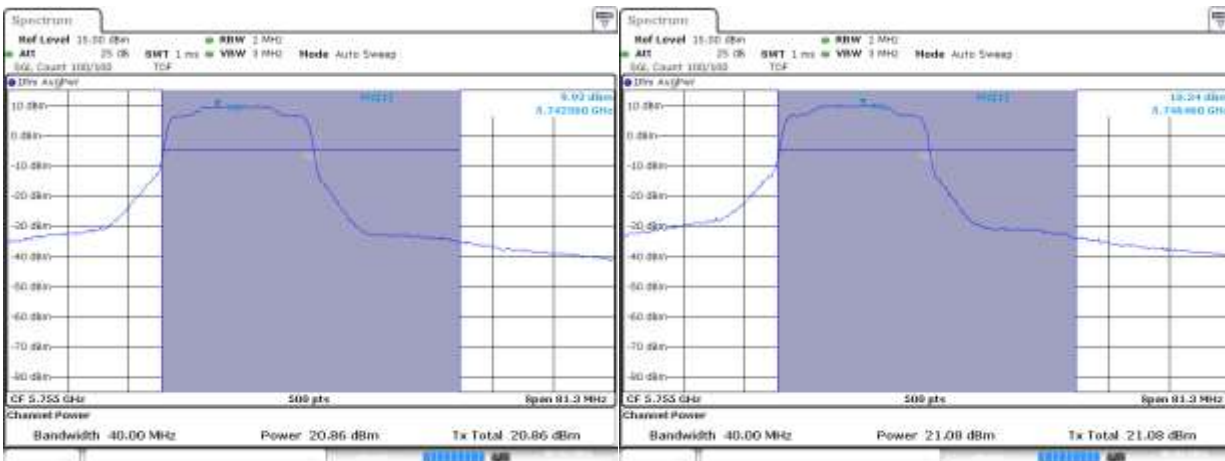
Channel 149



MIMO-A, 802.11ax40,HE0

MIMO-B, 802.11ax40,HE0

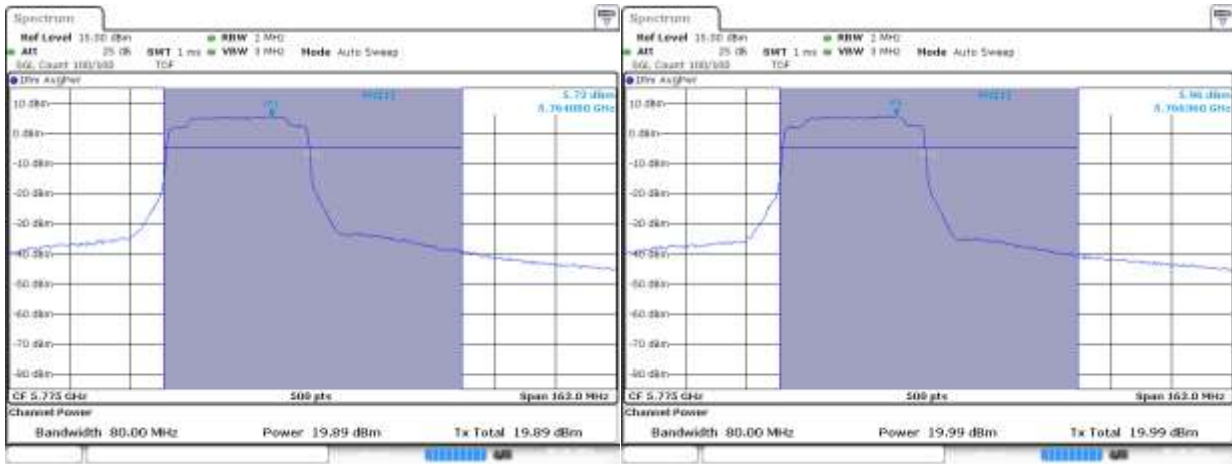
Channel 151



MIMO-A, 802.11ax80,HE0

MIMO-B, 802.11ax80,HE0

Channel 155

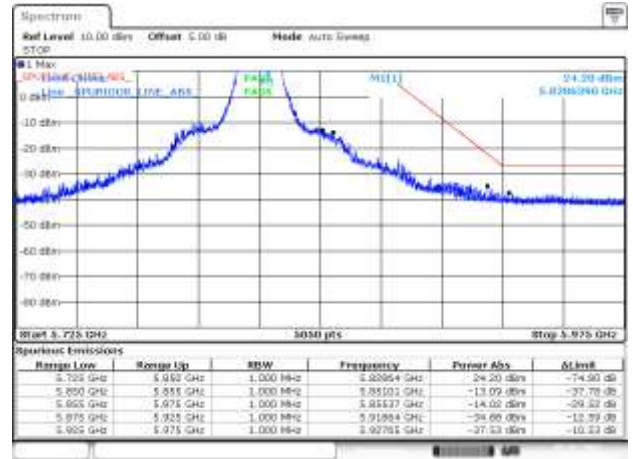


B.3.4 Undesirable emission limits : out of band (Conducted)

SISO-A



BE-NR-LOW, SISO-A, 802.11a-6Mbps, Ch149



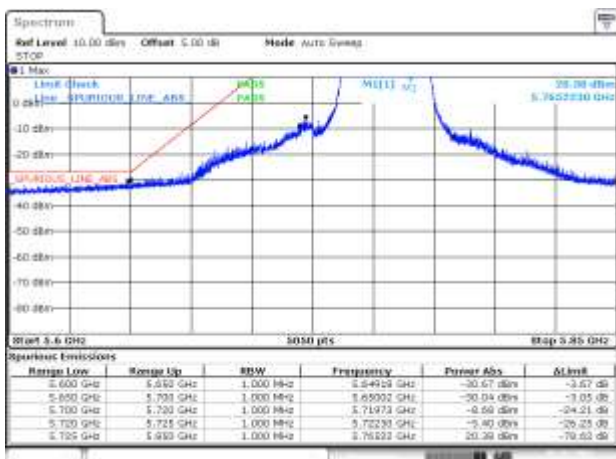
BE-NR-HIGH, SISO-A, 802.11a-6Mbps, Ch165



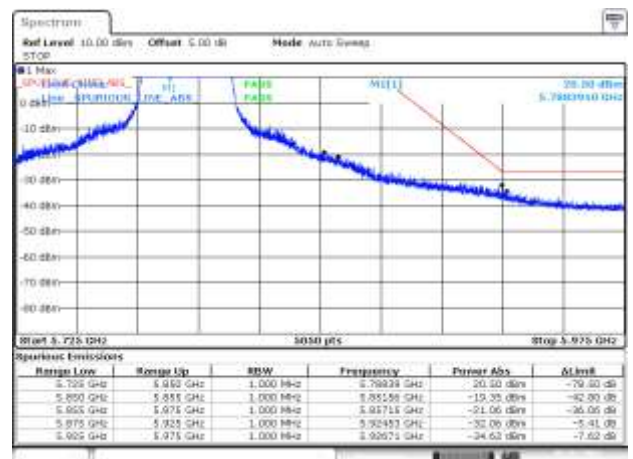
BE-NR-LOW, SISO-A, 802.11n20-HT0, Ch149



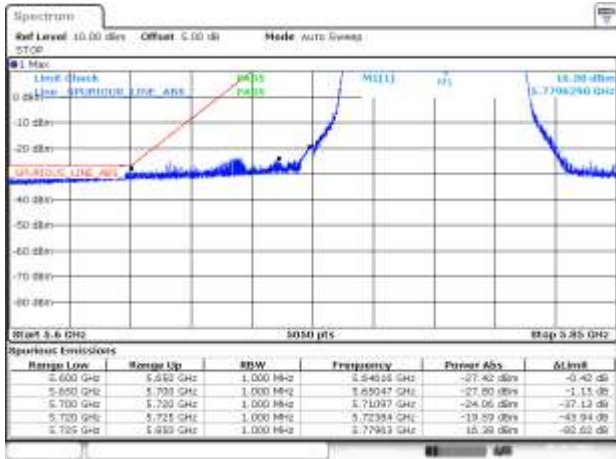
BE-NR-HIGH, SISO-A, 802.11n20-HT0, Ch165



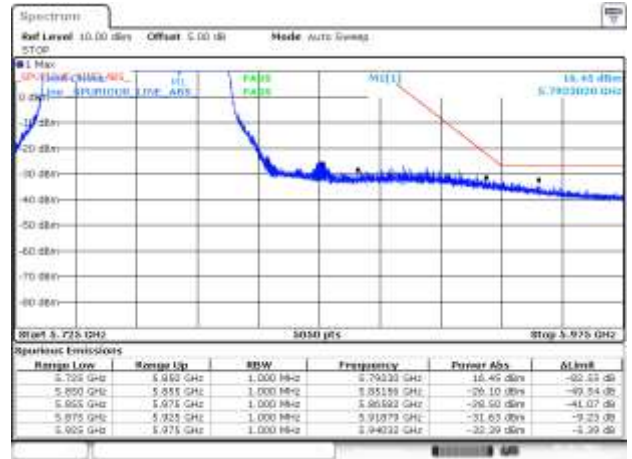
BE-NR-LOW, SISO-A, 802.11n40-HT0, Ch151



BE-NR-HIGH, SISO-A, 802.11n40-HT0, Ch159



BE-NR-LOW, SISO-A, 802.11ac80-VHT0, Ch155



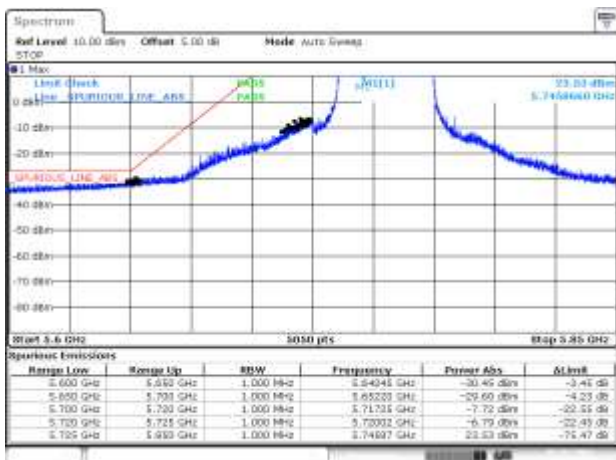
BE-NR-HIGH, SISO-A, 802.11ac80-VHT0, Ch155



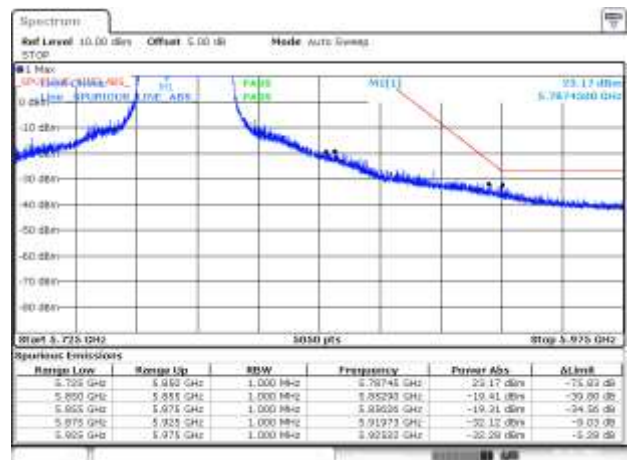
BE-NR-LOW, SISO-A, 802.11ax20-HE0, Ch149



BE-NR-HIGH, SISO-A, 802.11ax20-HE0, Ch165

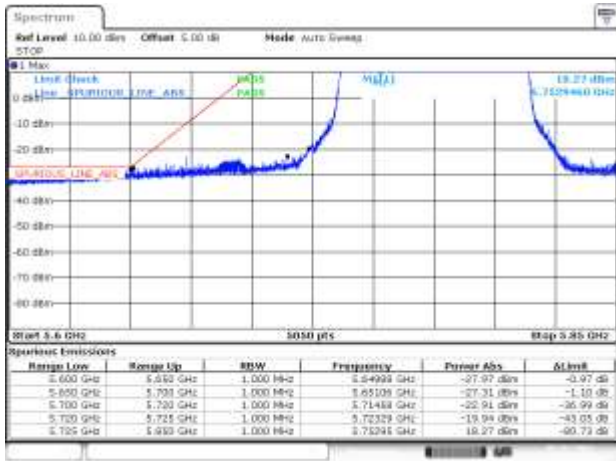


BE-NR-LOW, SISO-A, 802.11ax40-HE0, Ch151

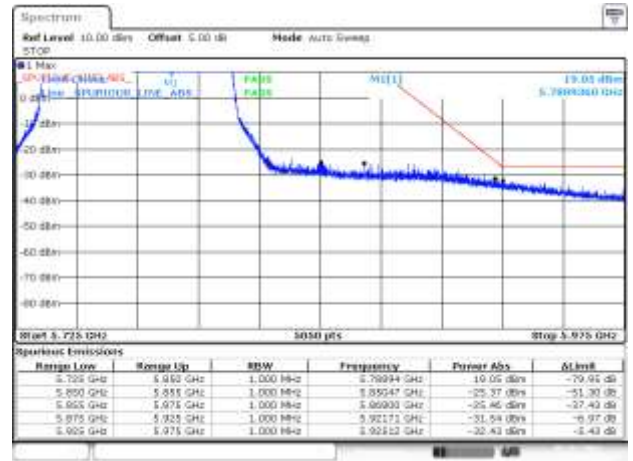


BE-NR-HIGH, SISO-A, 802.11ax40-HE0, Ch159

Test Report N° 210611-03.TR03

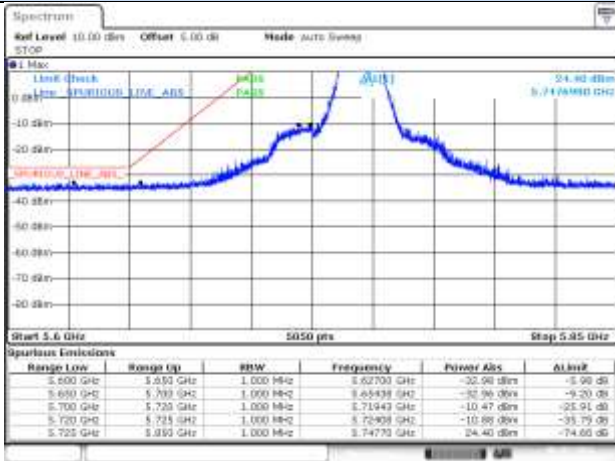


BE-NR-LOW, SISO-A, 802.11ax80-HE0, Ch155

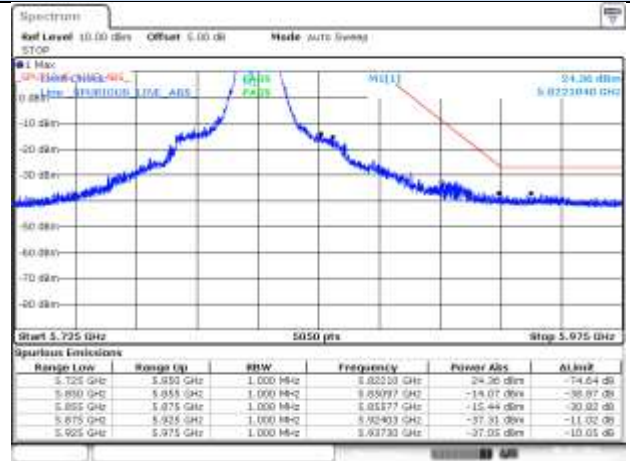


BE-NR-HIGH, SISO-A, 802.11ax80-HE0, Ch155

SISO-B



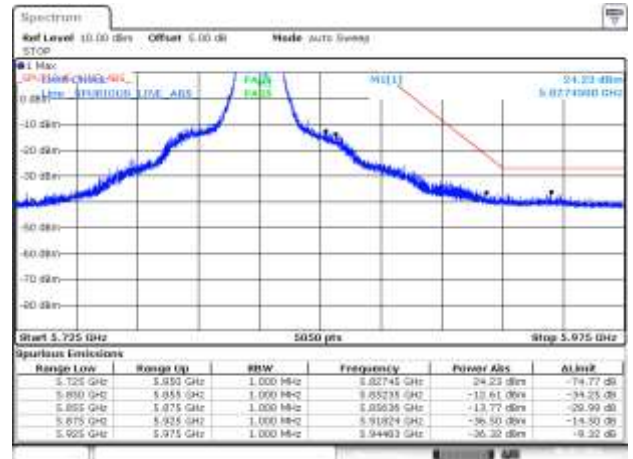
BE-NR-LOW, SISO-B, 802.11a-6Mbps, Ch149



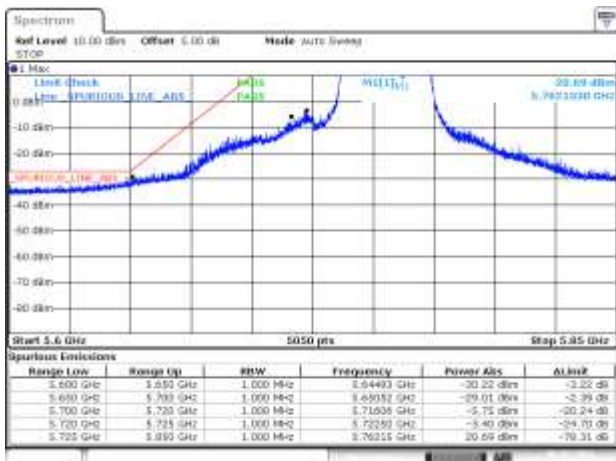
BE-NR-HIGH, SISO-B, 802.11a-6Mbps, Ch165



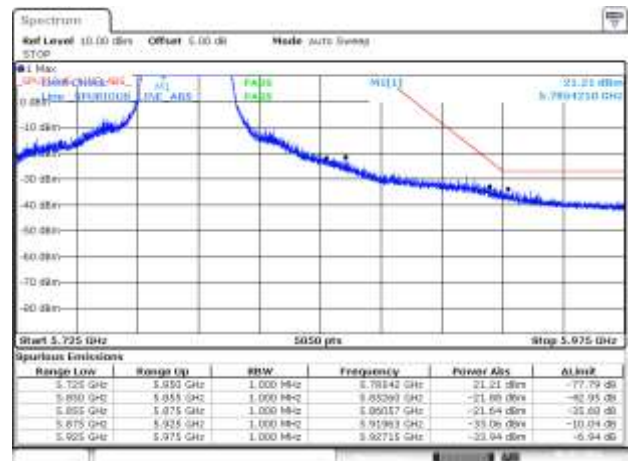
BE-NR-LOW, SISO-B, 802.11n20-HT0, Ch149



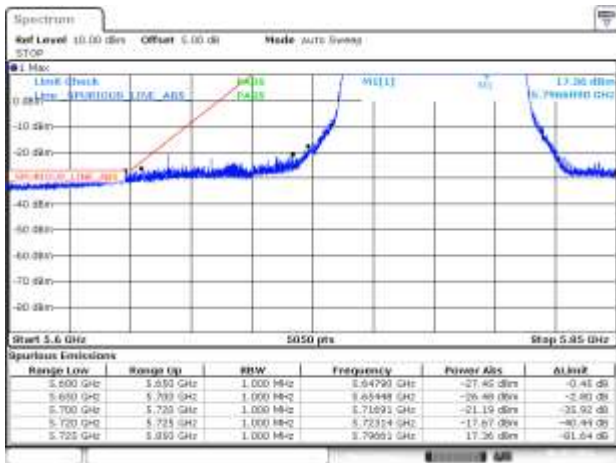
BE-NR-HIGH, SISO-B, 802.11n20-HT0, Ch165



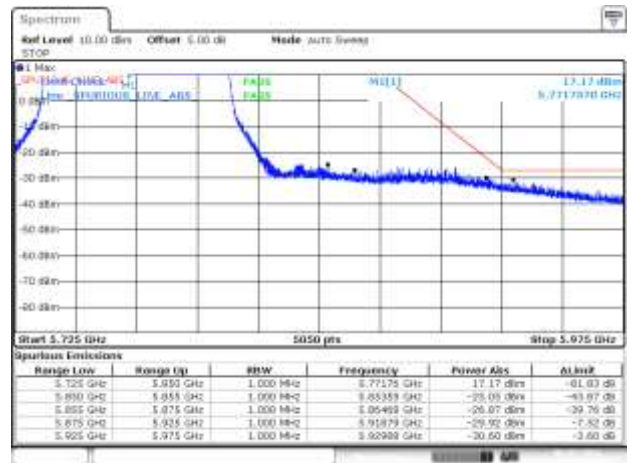
BE-NR-LOW, SISO-B, 802.11n40-HT0, Ch151



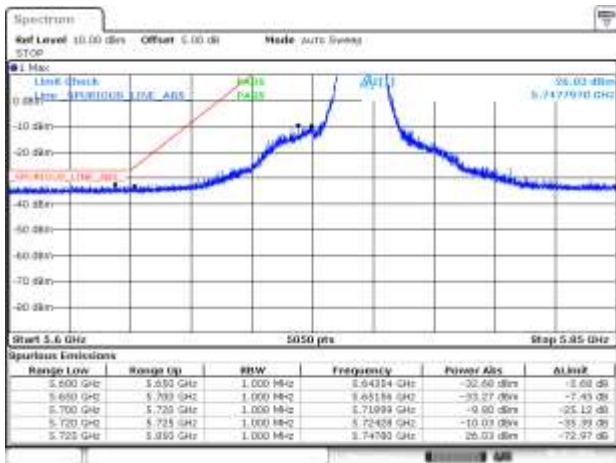
BE-NR-HIGH, SISO-B, 802.11n40-HT0, Ch159



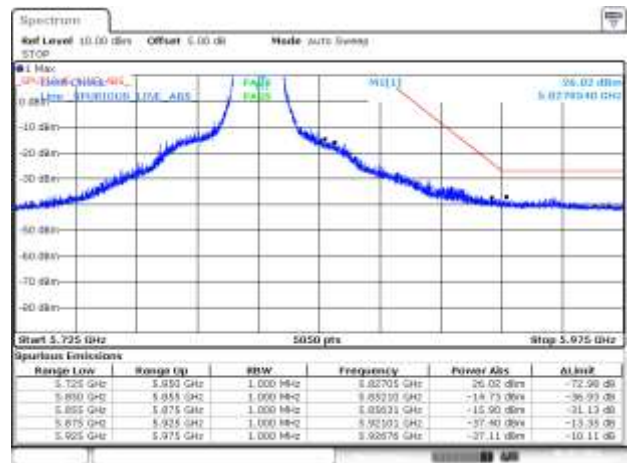
BE-NR-LOW, SISO-B, 802.11ac80-VHT0, Ch155



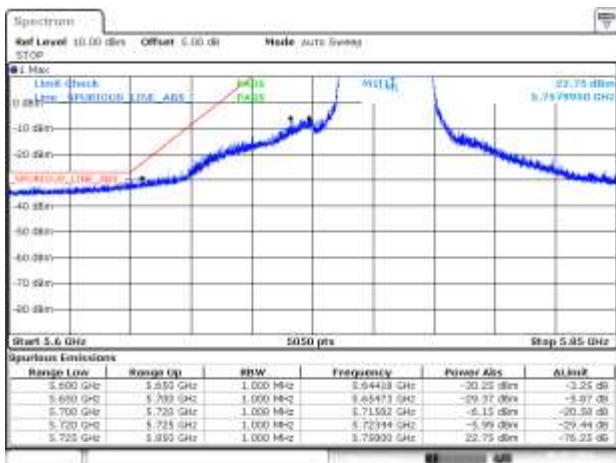
BE-NR-HIGH, SISO-B, 802.11ac80-VHT0, Ch155



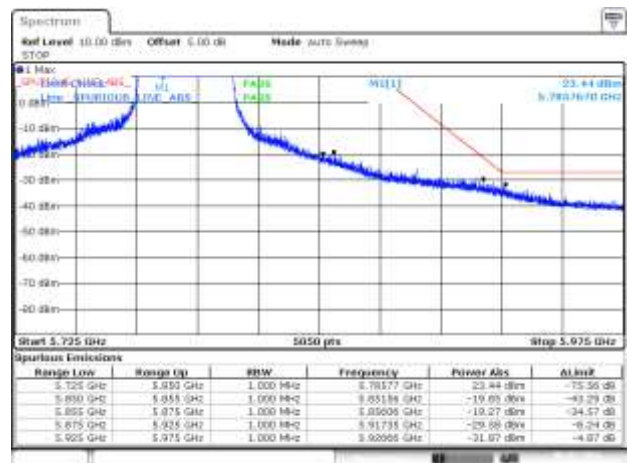
BE-NR-LOW, SISO-B, 802.11ax20-HE0, Ch149



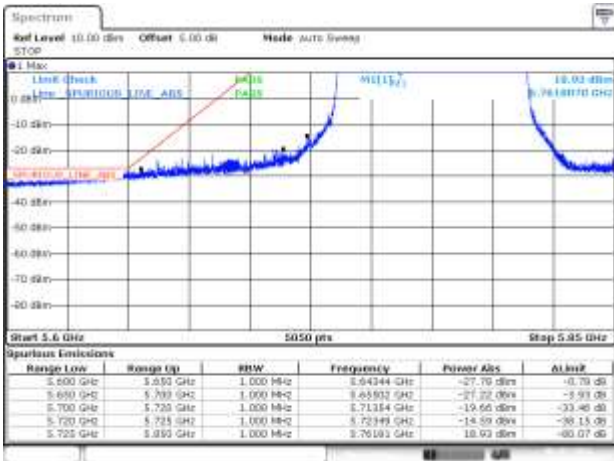
BE-NR-HIGH, SISO-B, 802.11ax20-HE0, Ch165



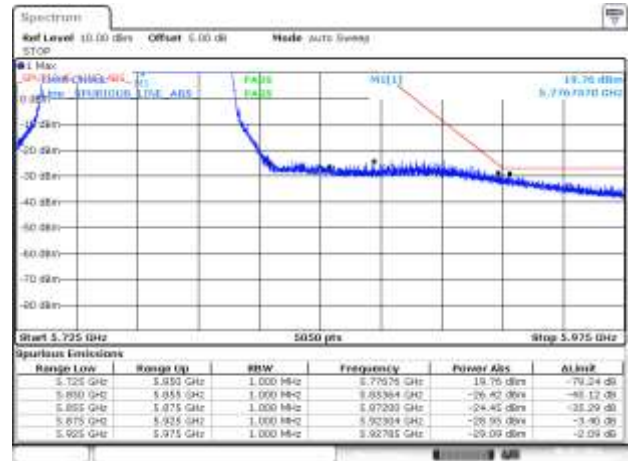
BE-NR-LOW, SISO-B, 802.11ax40-HE0, Ch151



BE-NR-HIGH, SISO-B, 802.11ax40-HE0, Ch159

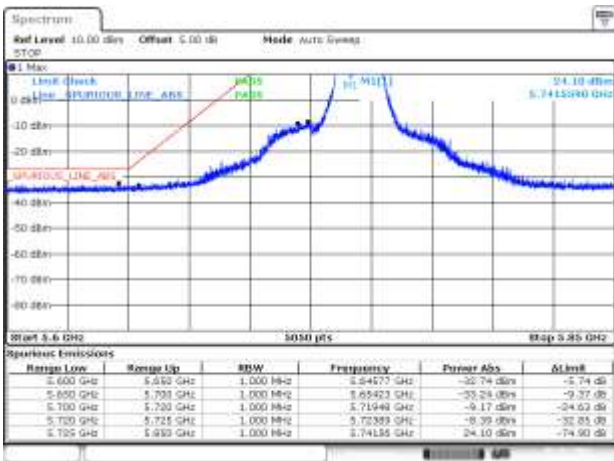


BE-NR-LOW, SISO-B, 802.11ax80-HE0, Ch155



BE-NR-HIGH, SISO-B, 802.11ax80-HE0, Ch155

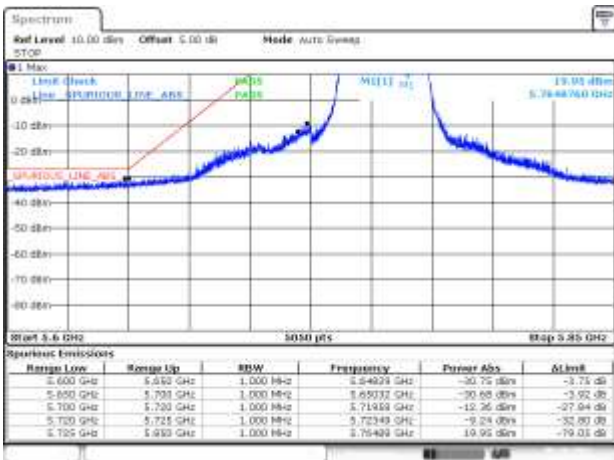
MIMO-A



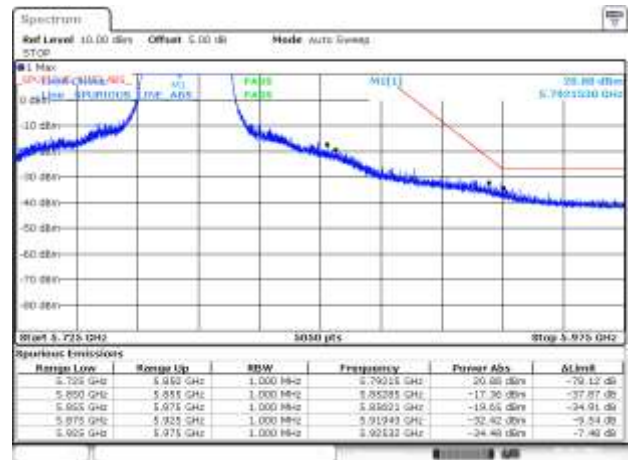
BE-NR-LOW, MIMO-A, 802.11n20-HT8, Ch149



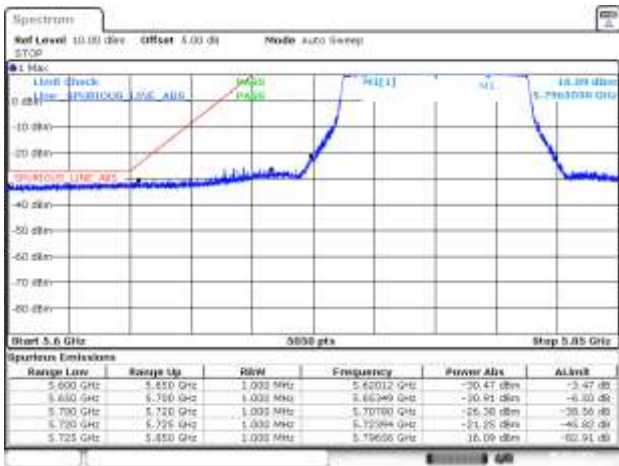
BE-NR-HIGH, MIMO-A, 802.11n20-HT8, Ch165



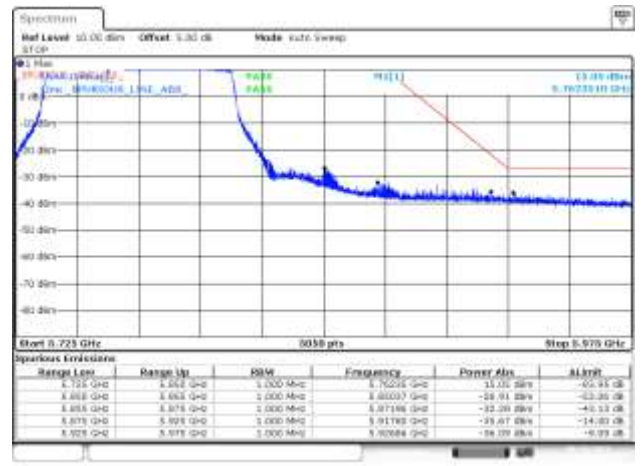
BE-NR-LOW, MIMO-A, 802.11n40-HT8, Ch151



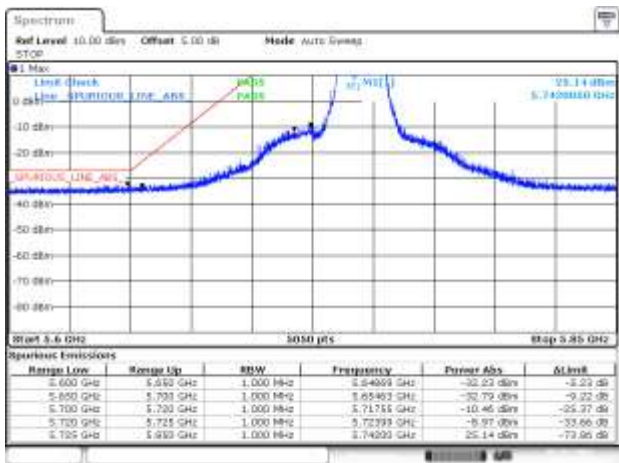
BE-NR-HIGH, MIMO-A, 802.11n40-HT8, Ch159



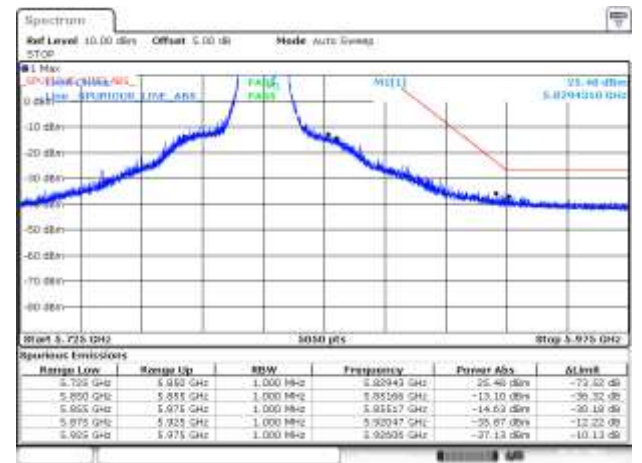
BE-NR-LOW, MIMO-A, 802.11ac80-VHT0, Ch155



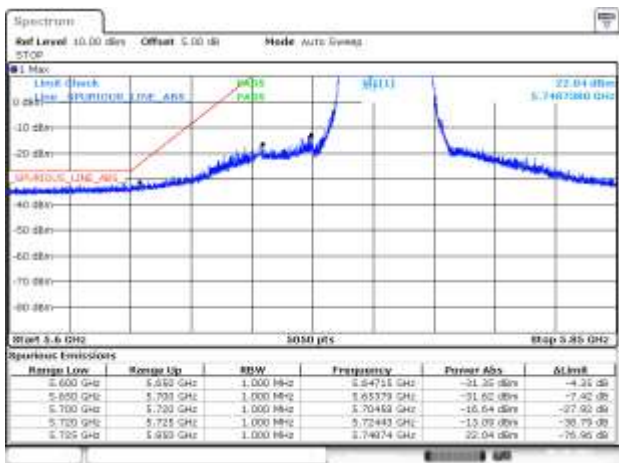
BE-NR-HIGH, MIMO-A, 802.11ac80-VHT0, Ch155



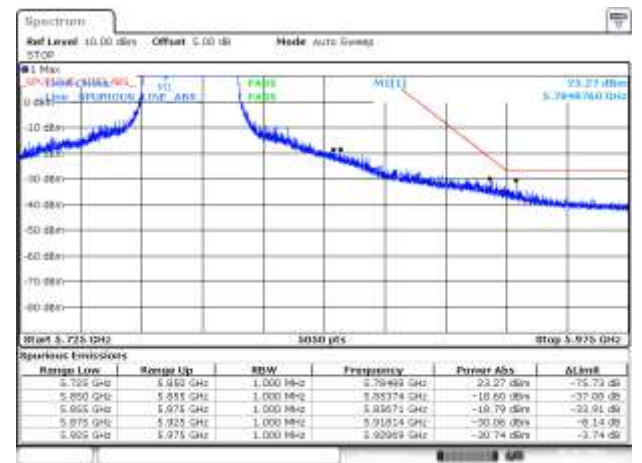
BE-NR-LOW, MIMO-A, 802.11ax20-HE0, Ch149



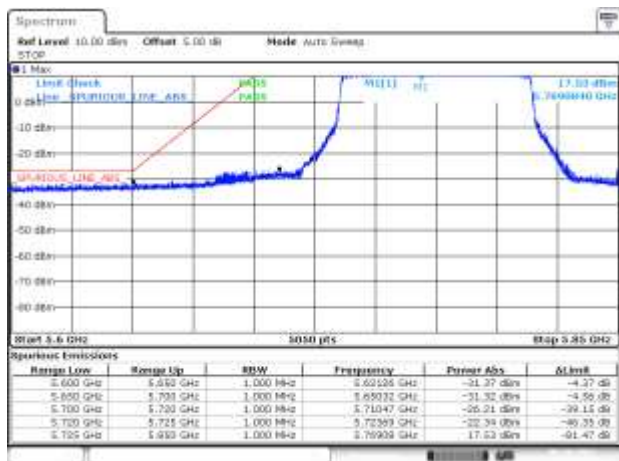
BE-NR-HIGH, MIMO-A, 802.11ax20-HE0, Ch165



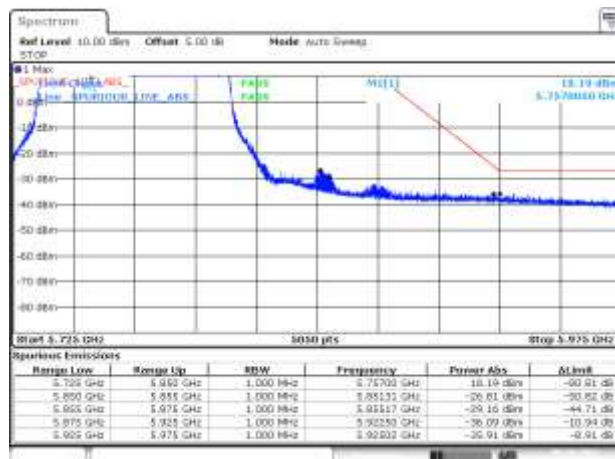
BE-NR-LOW, MIMO-A, 802.11ax40-HE0, Ch151



BE-NR-HIGH, MIMO-A, 802.11ax40-HE0, Ch159

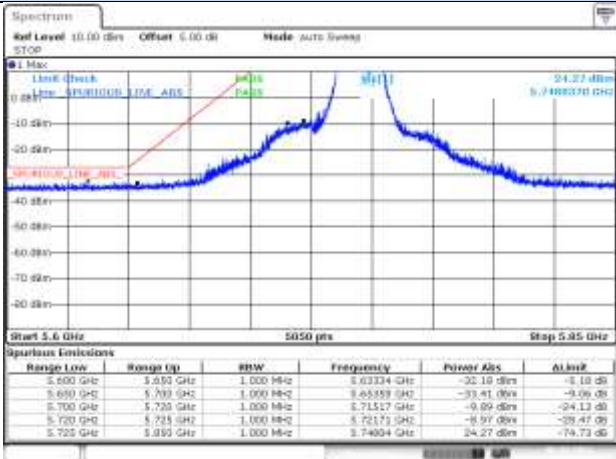


BE-NR-LOW, MIMO-A, 802.11ax80-HE0, Ch155

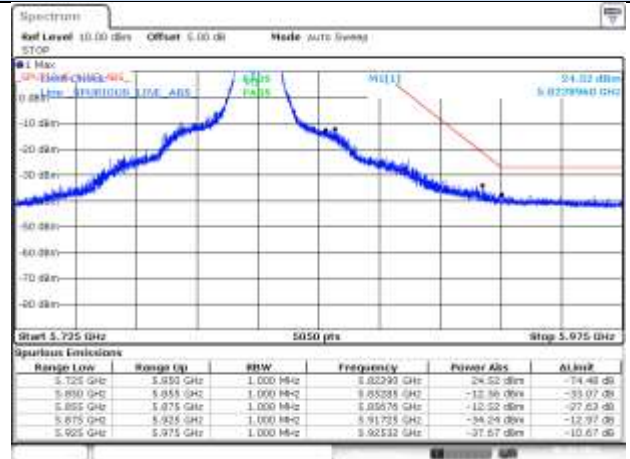


BE-NR-HIGH, MIMO-A, 802.11ax80-HE0, Ch155

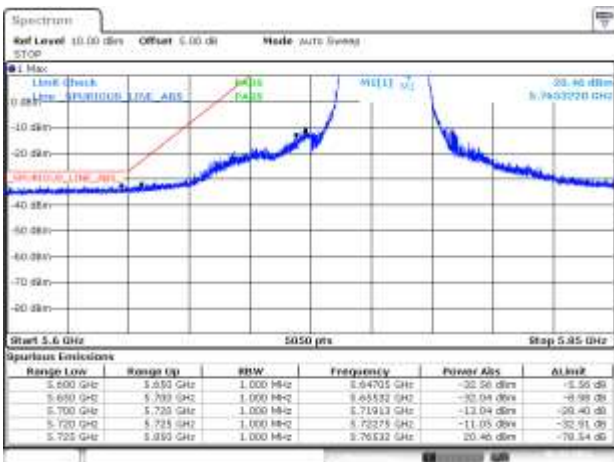
MIMO-B



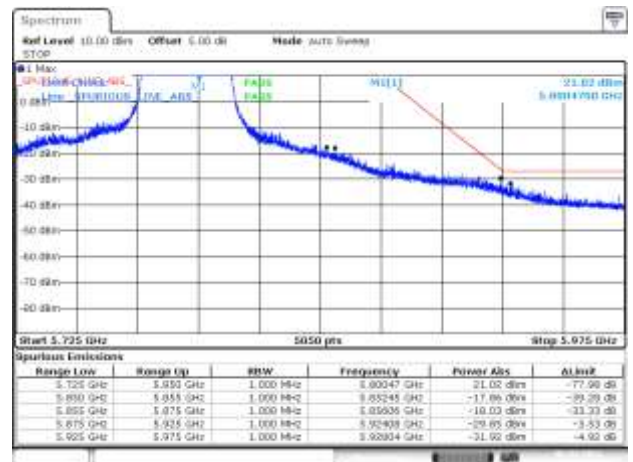
BE-NR-LOW, MIMO-B, 802.11n20-HT8, Ch149



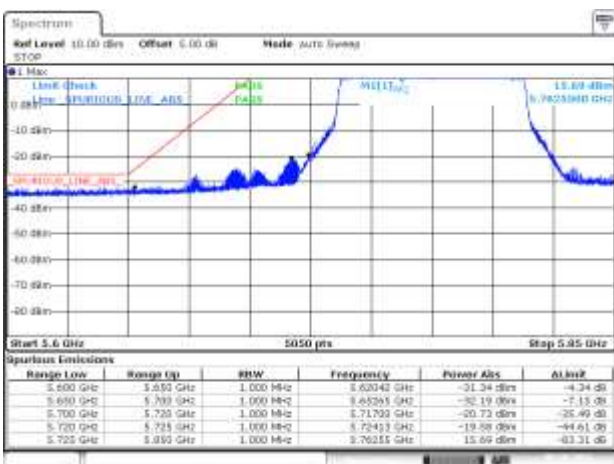
BE-NR-HIGH, MIMO-B, 802.11n20-HT8, Ch165



BE-NR-LOW, MIMO-B, 802.11n40-HT8, Ch151



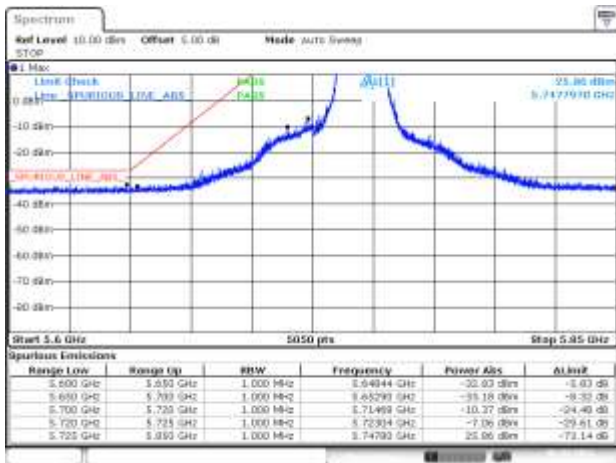
BE-NR-HIGH, MIMO-B, 802.11n40-HT8, Ch159



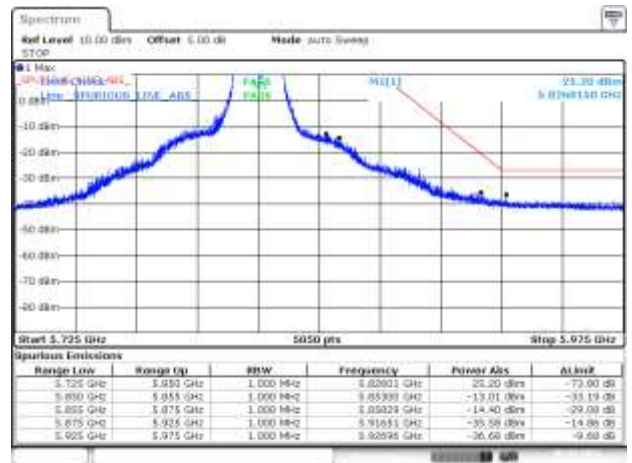
BE-NR-LOW, MIMO-B, 802.11ac80-VHT0, Ch155



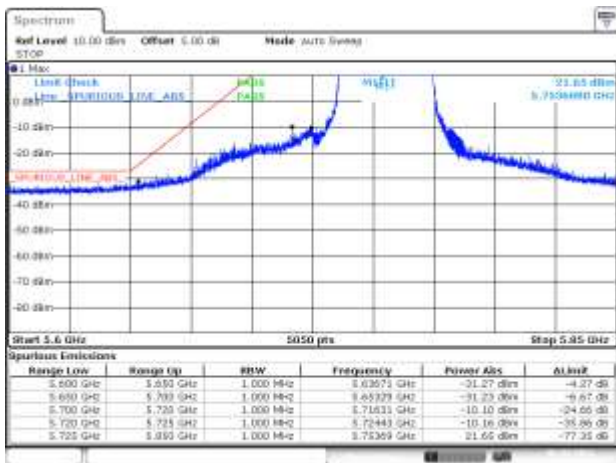
BE-NR-HIGH, MIMO-B, 802.11ac80-VHT0, Ch155



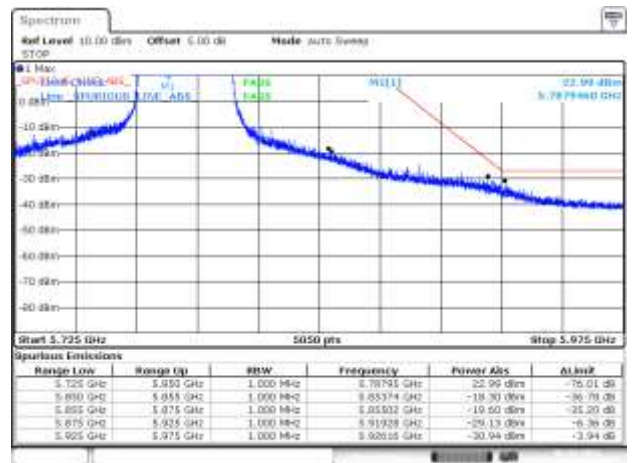
BE-NR-LOW, MIMO-B, 802.11ax20-HE0, Ch149



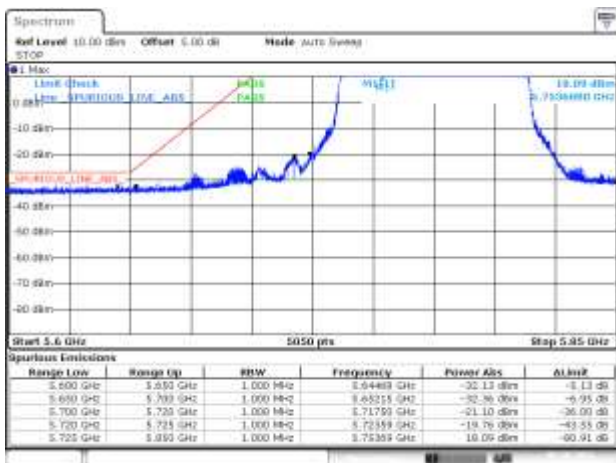
BE-NR-HIGH, MIMO-B, 802.11ax20-HE0, Ch165



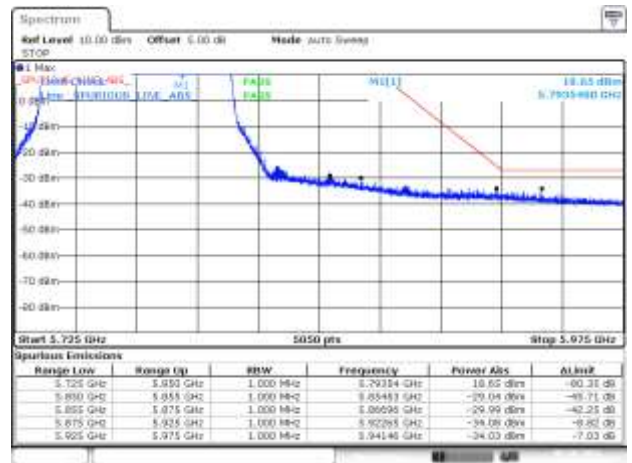
BE-NR-LOW, MIMO-B, 802.11ax40-HE0, Ch151



BE-NR-HIGH, MIMO-B, 802.11ax40-HE0, Ch159



BE-NR-LOW, MIMO-B, 802.11ax80-HE0, Ch155



BE-NR-HIGH, MIMO-B, 802.11ax80-HE0, Ch155