



TEST REPORT

EUT Description WLAN and BT, 2x2 PCle M.2 1216 SD adapter card

Brand Name Intel® Wi-Fi 6E AX211

Model Name AX211D2W

FCC ID PD9AX211D2

Date of Test Start/End 2020-12-08 /2020-12-18

Features 802.11ax, Dual Band, 2x2 Wi-Fi 6 + Bluetooth® 5.2

(see section 5)

Applicant Intel Mobile Communications

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Reference Standards	FCC CFR Title 47 Part 15 E
Reference Standards	(see section 1)

Test Report identification 201120-03.TR39

Rev 00

Revision Control This test report revision replaces any previous test report revision

see section 8)

The test results relate only to the samples tested.

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FCC



1. Standards, reference documents and applicable test methods

- FCC Title 47 eCFR part 15 Subpart E Unlicensed National Information Infrastructure Devices. 2021-02-08
 Online edition
- FCC Title 47 eCFR part 15 Subpart C §15.209 Radiated emission limits; general requirements. 2021-02-08
 Online edition
- 3. FCC OET KDB 987594 D01 U-NII 6GHz General Requirements v01r02
- 4. FCC OET KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
- 5. FCC OET KDB 987594 D03 U-NII 6 GHz QA v01
- 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).
- 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.
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3. Environmental Conditions

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

Temperature	22.8°C ± 1.3°C
Humidity	39.2% ± 11.1%



4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note	
	201120-03.S09	WiFi 6E Module	AX211D2W	WFM:DF8834E4C92	2020-11-23		
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	Used for 1GHz- 9.5GHz Radiated	
	200611-01.S06	Adaptor	PowerBy SNJ A4	-	2020-11-30		
	200602-03.S06	Absorber	MCS0	-	2020-07-03	Spurious Emission tests, 9.5-18GHz MIMO Radiated	
#1	180000-01.S05	Socket	Adapter 1216SD to M.2	-	2017-08-09	Spurious Emission tests and 18GHz-	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	40GHz Radiated Spurious Emission	
	200611-03.S22	Antenna 6-7 GHz	WRF-BR-PIFA- V3.2	-	2020-07-20	tests	
	200611-03.S23	Antenna 6-7 GHz	WRF-BR-PIFA- V3.2	-	2020-07-20		
	201120-03.S08	WiFi 6E Module	AX211D2W	WFM:D8F8834E56AB	2020-11-23		
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01		
	200611-01.S07	Adaptor	PowerBy SNJ A4	-	2020-11-30	Used for 30MHz-	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	1GHz Radiated Spurious Emission	
#2	180000-01.S02	Socket	Adapter 1216SD to M.2	-	2017-08-09	tests and 9.5GHz- 18GHz SISO	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	Radiated Spurious Emission tests	
	200611-03.S24	Antenna 6-7 GHz	WRF-BR-PIFA- V3.2	-	2020-07-20		
	200611-03.S25	Antenna 6-7 GHz	WRF-BR-PIFA- V3.2	-	2020-07-20		



5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6E AX211					
Model Name	AX211D2W					
Software Version	DRTU Version: 1	1195_99_2100_5	51G			
Driver Version	99.0.58.3					
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 – 5850.0 MHz) 802.11ax 6.0GHz (5925.0 - 7125.0MHz)					
Antenna Information	Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz) Transmitter Ant A (Main) SISO Mode Manufacturer Intel Intel Intel Antenna Type PIFA antenna NA NA NA NA Declared Antenna gain (dBi) MIMO mode signal: Completely uncorrelated.					

6. Remarks and comments

1. Low, middle and high channels were tested over uninterrupted UNII-5 to UNII-8 bands. However additional channels were tested to cover each UNII band within 5.925-7.125 GHz.

7. Test Verdicts summary

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

7.1. 802.11 ax – U-NII- 5 to U-NII-8

FCC part	Test name	Verdict
15.407 (b) (5) 15.209	Undesirable emissions limits (radiated)	PASS

8. Document Revision History

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

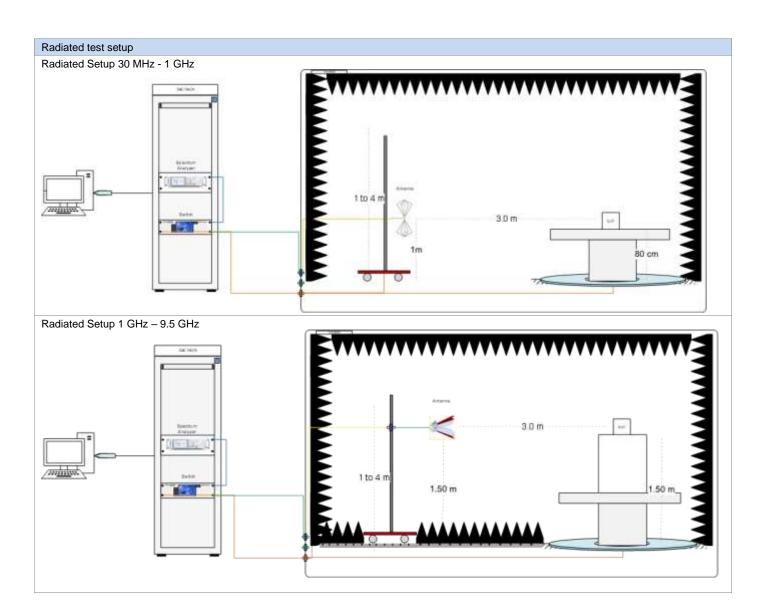


Annex A. Test & System Description

A.1 Measurement System

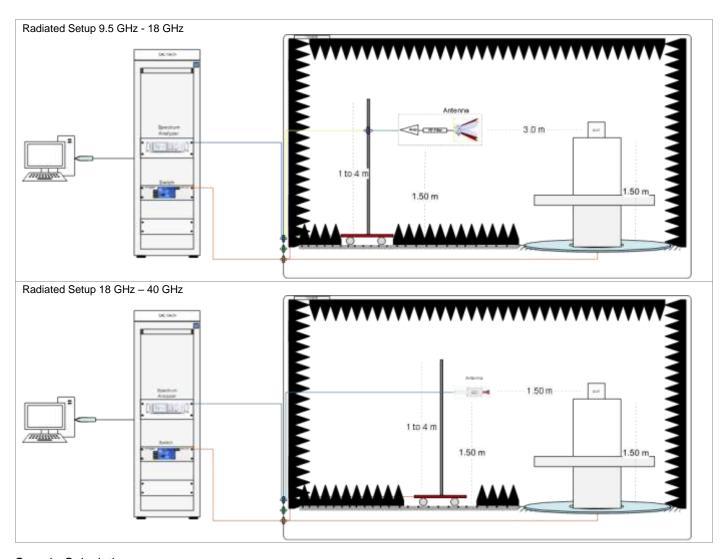
Measurements were performed using the following setups, made in accordance to the general provisions of ANSI 63.10-2013 Test Procedures.

The DUT is 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.





Rev. 00



Sample Calculation

The spurious received voltage V(dBµV) in the spectrum Analyzer is converted to Electric field strength using the transducer factor F corresponding to the Rx path Loss:

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:

$$E_{SpecLimit} = E_{Meas} + 20*log(D_{Meas}/D_{SpecLimit})$$

where

EspecLimit is the field strength of the emission at the distance specified by the limit, in dBµV/m E_{Meas} is the field strength of the emission at the measurement distance, in dB_µV/m D_{Meas} is the measurement distance, in m DspecLimit is the distance specified by the limit, in m



A.2 Test Equipment List

Radiated Setup #1

tadiated	Setup #1					
ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0135	Anechoic Chamber	FACT3	5720	ETS-Lindgren	2020-07-06	2022-01-07
0136	Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
0147	Switch & Positioning systems	EMC Center	00159757	ETS-Lindgren	N/A	N/A
0530	Measurement SW	EMC32, v10.40.10	100623	Rohde & Schwarz	N/A	N/A
1033	Boresight antenna mast	BAM 4.0-P	P/278/2890.01	Maturo	N/A	N/A
1076	Spectrum Analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
0993	Biconical antenna 30 MHz – 1 GHz	UBAA9115 + BBVU9135 + DGA9552N	0286 + CH 9044	Schwarzbeck	2019-11-22	2021-11-22
0325	Horn antenna	3117	00157734	ETS-Lindgren	2019-08-12	2021-08-12
0248	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-04-01	2022-04-01
0334	Double-Ridged Waveguide Horn with Pre-Amplifier 18 GHz to 40 GHz	3116C+PA	00169308bis + 00196308	ETS-Lindgren	2019-07-24	2021-07-24
0859	Cable 2.5m - 30MHz to 18GHz	0500990992500KE	19.23.395	Radiall	2020-11-27	2021-05-27
0206	Cable 1.2m – 18 to 40 GHz	UFA147A-0-0480- 200200	MFR 64639223720- 003	Micro-coax	2020-08-25	2021-02-25
0263	Cable 1m - 1GHz to 18GHz	UFA147A	-	Utilflex	2020-08-25	2021-02-25
0369	Cable 2m - 26.5GHz to 40GHz	794-9191-2000A	E00327	Atem	2020-08-25	2021-02-25
0371	Cable 1m – 30 MHz - 18GHz	UFB311A-0-0590- 50U50U	MFR 64639 223230- 001	Micro-coax	2020-08-25	2021-02-25
1099	Cable 7m DC-18 GHz	0501051057000GX	19.35.850	Radial	2020-11-27	2021-05-27
0809	Cable 7m - 18GHz to 40GHz	R286304009	-	Radiall	2020-08-25	2021-02-25
1098	Cable 1.5m - DC-18GHz	CBL-1.5M-SMSM+	202879	Mini-Circuits	2020-11-27	2021-05-27
0797	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-D0EB1A	Avtech	2019-07-04	2021-07-04

N/A: Not Applicable

Radiated Setup #2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0337	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2020-07-06	2022-07-06
0238	Switch & Positioner	EMCenter	00151232	ETS Lindgren	N/A	N/A
0382	Antenna Tower	2171B-3.0M	00150123	ETS Lindgren	N/A	N/A
0383	Turntable	-	-	ETS Lindgren	N/A	N/A
0329	Measurement SW,	EMC32 v10.50.10	100401	Rohde & Schwarz	N/A	N/A
0133	Spectrum Analyzer	FSV40	101358	Rohde & Schwarz	2020-02-25	2022-02-25
0138	Double Ridge Horn (1- 18GHz)	3117	00152266	ETS Lindgren	2020-03-08	2022-03-08
0248	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-04-01	2022-04-01
0334	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2019-07-24	2021-07-24
0871	RF Cable 1-18GHz, 1.5 m	0501050991200GX	19.21.710	Radiall	2020-08-20	2021-02-20
0860	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2020-08-20	2021-02-20
0275	RF Cable 1-18GHz - 6.5m	140-8500-11-51	001	Spectrum	2020-08-20	2021-02-20
0684	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2020-08-20	2021-02-20
0679	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2020-08-20	2021-02-20
0028	RF Cable 1.2m 40MHz- 40GHz	794-9191-1200A	DA585	Atem	2020-08-20	2021-02-20
0725	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2020-08-20	2021-02-20
0796	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-D4F316	Avtech	2019-07-05	2021-07-05

N/A: Not Applicable



Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0616	Power Sensor	NRP-Z81	104385	Rohde & Schwarz	2020-04-08	2022-04-08
0617	Power Sensor	NRP-Z81	104386	Rohde & Schwarz	2020-04-08	2022-04-08
0618	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 below table with a coverage factor of k = 2 to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Radiated tests <1GHz	±5.26	dB
Radiated tests 1GHz – 40 GHz	±4.85	dB



Annex B. Test Results UNII-5 to UNII-8

The herein test results were performed by:

Test case measurement	Test Engineer
Radiated spurious emissions	A. Lounes, N. Bui, N. Nachabe

B.1 Test Conditions

For 802.11ax20 (20 MHz channel bandwidth), 802.11ax40 (40MHz channel bandwidth), 802.11ax80 (80MHz channel bandwidth) and 802.11ax160 (160MHz 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 target values from the following table using the Intel DRTU tool and measuring the power by using a power meter.

Measured values for adjustment were within +/- 0.25 dB from the declared target values.

	U	NII-5 to UNII-8	Conducted Power, Target Value (dBm)				
Mode	BW (MHz)	Data Rate	CH#	Freq. (MHz)	SISO Chain A	SISO Chain B	MIMO at both ports A and B
			1	5955	15	15	15
802.11ax20	20	HE0	105	6475	15	15	15
002.114320	20	TIEU	117	6535	15	15	15
			229	7095	15	15	15
			3	5965	15	15	15
802.11ax40	000.44 5 40	HE0	99	6445	15	15	15
002.11ax40	40		115	6525	15	15	15
			227	7085	15	15	15
			7	5985	15	15	15
802.11ax80	80	HE0	103	6465	15	15	15
002.11ax00	80	ПЕО	135	6625	15	15	15
			215	7025	15	15	15
			15	6015	15	15	15
902 11 ov 160	160	160 HE0	111	6175	15	15	15
802.11ax160	100		143	6335	15	15	15
			207	6985	15	15	15

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	Mode	Bandwidth (MHz)	Worst Case Data Rate
SISO	802.11ax	20/40/80/160	HE0
MIMO	802.11ax	20/40/80/160	HE0



B.2 Radiated spurious emission

Standard references

FCC part		Limits					
15.407 (b) (5)			thin the 5.925-7. not exceed an e.i.		Any emissions of MHz.	outside of the	
15.35 (b)	When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, <i>e.g.</i> , see §§15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.						
15.407 (b) (8)			1 GHz must cor	mply with the ge	eneral field stren	gth limits set	
15.209	forth in §15.209. 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): Freq Range					loying CISPR mission limits	
		ring with peak d			z, there is also a to 20 dB above		

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.

- For frequencies less than or equal to 1000 MHz, measurements were made with the CISPR quasi-peak detector with a resolution bandwidth of 120kHz and a video bandwith 3 times of the resolution bandwidth.
- For restricted bands, measurements above 1000 MHz were performed using average and peak detectors with a minimum resolution bandwidth of 1 MHz and a video bandwith 3 times of the resolution bandwidth
- For unrestricted bands, measurements above 1000 MHz were performed using RMS and peak detectors with a minimum resolution bandwidth of 1 MHz and a video bandwith 3 times of the resolution bandwidth

Note: When peak measurements satisfy the RMS limit, then RMS measurements are not reported.

The final measurement is performed by varying the antenna height from 1 m to 4 m, the EUT rotating in azimuth over 360° for both vertical and horizontal polarizations.

The radiated spurious emission was measured on the worst case EUT configuration selected from the chapter B.1 and using the low, middle and high channels over uninterrupted UNII-5 to UNII-8 bands. Additional channels were tested to cover each UNII bands within 5.925-7.125 GHz.

Test Results

30 MHz - 1 GHz, Radiated spurious emissions

Radiated Spurious - All modes

Frequency	QuasiPeak	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dB	
73.9	33.3	40.0	6.7	V
127.7	36.8	43.5	6.7	V

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

802.11ax20

1 GHz - 40 GHz, 802.11ax20, HE0, Chain A

Radiated Spurious - CH1

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
3369.5	58.8		68.2	9.4	V
17795.1	55.1		74.0	18.9	Н
17795.1		42.3	54.0	11.7	V
39445.1		44.7	54.0	9.3	Н
39445.1	56.4		74.0	17.6	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBµV/m	dBµV/m	dB	
5179.9	51.9		68.2	16.3	Н
12933.5	52.4		68.2	15.8	V
12950.5	50.4		68.2	17.8	V
25900.3	49.7		68.2	18.5	V



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5216.9	53.7		68.2	14.5	Н
13053.5	50.1		68.2	18.1	V
13070.0	49.7		68.2	18.5	V
26140.2	47.8		68.2	20.4	V

Radiated Spurious - CH229

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5675.7	55.9		68.2	12.3	Н
17968.8		42.4	54.0	11.6	Н
17968.8	55.6		74.0	18.4	Н
28346.1	63.4		68.2	4.8	V

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

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dBµV/m	dB	
4763.8		42.1	54.0	11.9	Н
4769.5	53.3		74.0	20.7	V
17802.1		42.5	54.0	11.6	Н
17802.1	54.8		74.0	19.2	Н
39654.3		46.0	54.0	8.0	V
39654.3	56.7		74.0	17.3	V



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5179.5	52.4		68.2	15.8	Н
17822.0	54.8		74.0	19.2	Н
17822.0		42.1	54.0	11.9	V
25866.3	51.1		68.2	17.1	V
25900.3	49.9		68.2	18.3	V

Radiated Spurious - CH117

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5228.3	52.5		68.2	15.7	Н
17929.2		42.0	54.0	11.9	V
17929.2	54.8		74.0	19.2	Н
26140.6	48.7		68.2	19.5	V

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5675.7	55.9		68.2	12.3	Н
17907.9		41.6	54.0	12.4	Н
17907.9	54.5		74.0	19.4	V
28345.6	57.8		68.2	10.4	V
28379.4	50.9		68.2	17.3	Н



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

Radiated Spurious - CH1

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4763.8		43.7	54.0	10.3	Н
4764.2	51.7		74.0	22.3	Н
17873.4	55.2		74.0	18.8	V
17875.3		41.6	54.0	12.4	V
39715.5		44.9	54.0	9.2	Н
39715.5	57.5		74.0	16.5	Н

Radiated Spurious - CH105

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dBµV/m	dB	
5179.9	53.6		68.2	14.6	Н
12933.1	50.8		68.2	17.4	V
12949.6	49.5		68.2	18.7	V
25899.8	49.9		68.2	18.3	Н

Radiated Spurious - CH117

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	
5227.4	53.2		68.2	15.0	Н
13070.0	49.2		68.2	19.0	Н
26140.2	48.5		68.2	19.7	V

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5675.7	57.9		68.2	10.3	Н
17800.2		43.0	54.0	11.0	V
17802.6	54.7		74.0	19.3	Н
28346.6	51.3		68.2	16.9	Н
28379.9	51.1		68.2	17.1	Н

802.11ax40

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

Radiated Spurious - CH3

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
3302.0	59.9		68.2	8.3	Н
11894.2	50.1		74.0	23.9	Н
11894.2		39.0	54.0	15.0	V
11930.1		38.8	54.0	15.2	V
11930.1	50.8		74.0	23.2	V
39563.2	57.4		74.0	16.6	V
39563.7		44.8	54.0	9.2	V

Radiated Spurious - CH99

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5155.5	52.7		68.2	15.5	Н
12853.2	51.2		68.2	16.9	V
12890.6	49.6		68.2	18.6	V
25779.9	48.7		68.2	19.5	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5220.4	52.8		68.2	15.4	Н
13013.8	52.2		68.2	16.0	V
13049.7	49.2		68.2	19.0	V
26100.5	47.5		68.2	20.7	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBµV/m	dBµV/m	dB	
5667.9	56.0		68.2	12.2	Н
17794.6	54.4		74.0	19.6	V
17796.9		43.1	54.0	10.9	Н
28267.5	55.3		68.2	12.9	Н
28339.9	50.2		68.2	18.0	Н

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

Radiated Spurious - CH3

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4771.6		42.0	54.0	12.0	Н
4772.9	52.0		74.0	22.0	V
17798.8		42.6	54.0	11.3	V
17800.2	54.7		74.0	19.3	Н
39428.2	56.0		74.0	18.0	Н
39428.7		44.6	54.0	9.4	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5155.9	52.3		68.2	15.9	Н
17914.1		42.0	54.0	12.0	V
17914.5	54.8		74.0	19.2	V
25780.3	48.8		68.2	19.4	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5220.4	52.9		68.2	15.3	Н
17812.5	54.1		74.0	19.9	V
17815.4		42.6	54.0	11.4	V
26030.1	54.9		68.2	13.3	V

Radiated Spurious - CH227

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5667.9	56.1		68.2	12.1	Н
17774.8		42.4	54.0	11.6	V
17776.2	54.9		74.0	19.1	V
28267.5	52.8		68.2	15.4	Н
28340.3	49.9		68.2	18.3	Н

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

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	
4771.6	53.1		74.0	20.9	V
4772.1		42.8	54.0	11.2	Н
17806.4	55.0		74.0	19.0	V
17806.9		42.4	54.0	11.6	Н
39528.5		45.0	54.0	9.0	V
39528.5	57.2		74.0	16.8	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5156.4	53.5		68.2	14.7	Н
12859.4	51.0		68.2	17.2	Н
12890.6	49.7		68.2	18.5	Н
25780.3	48.6		68.2	19.6	Н

Radiated Spurious - CH115

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5220.0	54.2		68.2	14.0	Н
13014.3	50.0		68.2	18.2	V
13052.1	49.3		68.2	18.9	Н
26100.5	48.6		68.2	19.6	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5668.3	58.0		68.2	10.2	Н
17820.1		42.4	54.0	11.6	Н
17820.1	54.5		74.0	19.5	Н
28339.9	49.9		68.2	18.3	Н

802.11ax80

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

Radiated Spurious - CH7

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4787.8	51.8		74.0	22.2	Н
4787.8		42.3	54.0	11.7	Н
17803.1		42.6	54.0	11.4	V
17803.6	54.4		74.0	19.6	Н
39657.2	56.4		74.0	17.6	Н
39657.7		45.4	54.0	8.6	V

Radiated Spurious - CH103

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dBµV/m	dB	
5133.7	53.8		74.0	20.2	Н
5133.7		44.2	54.0	9.8	Н
5171.6	53.5		68.2	14.7	Н
12854.2	52.3		68.2	15.9	V
12929.8	49.1		68.2	19.1	V
25859.7	49.1		68.2	19.1	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5300.2	54.5		68.2	13.7	Н
17983.9		42.8	54.0	11.2	V
17983.9	55.8		74.0	18.2	V
26500.0	49.5		68.2	18.7	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5620.0	55.4		68.2	12.8	Н
17784.2		42.1	54.0	11.9	Н
17784.2	54.4		74.0	19.6	V
27946.4	52.1		68.2	16.1	Н
28099.8	50.2		68.2	18.0	Н

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

Radiated Spurious - CH7

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4787.8	52.2		74.0	21.8	Н
4787.8		42.4	54.0	11.6	Н
17795.5		42.9	54.0	11.2	V
17799.8	54.2		74.0	19.8	V
39635.5		45.0	54.0	9.1	Н
39635.5	56.6		74.0	17.4	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5133.7		44.1	54.0	9.3	Н
5134.1	54.0		74.0	20.0	Н
5172.1	53.5		68.2	14.7	Н
7719.7		46.7	54.0	7.3	V
7720.1	56.1		74.0	17.9	V
17802.6		42.5	54.0	11.5	Н
17802.6	54.6		74.0	19.4	V
25860.1	50.4		68.2	17.8	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5300.2	53.6		68.2	14.6	Н
17838.5		41.7	54.0	12.3	V
17838.5	54.9		74.0	19.1	V
26348.9	50.2		68.2	18.0	V
26500.0	49.8		68.2	18.4	V

Radiated Spurious - CH215

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5620.0	54.9		68.2	13.3	Н
17800.7		42.5	54.0	11.5	V
17800.7	55.0		74.0	19.0	V
27946.9	52.0		68.2	16.2	V
28100.2	51.5		68.2	16.7	Н
28107.5	46.6		68.2	21.6	Н

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

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	
4787.8		44.9	54.0	9.1	V
4788.2	52.2		74.0	21.8	Н
12144.9	49.0		74.0	25.0	Н
12144.9		38.9	54.0	15.1	V
39598.4	56.4		74.0	17.6	V
39598.9		44.9	54.0	9.1	V



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBµV/m	dBµV/m	dB	
5133.3	53.0		74.0	21.0	Н
5134.6		42.8	54.0	11.2	Н
5172.1	53.8		68.2	14.4	Н
7719.2	56.4		74.0	17.6	V
7720.1		45.7	54.0	8.0	Н
7758.0	54.3		68.2	13.9	V
12852.3	50.5		68.2	17.7	V
12929.8	49.9		68.2	18.3	V
25860.6	49.9		68.2	18.3	V

Radiated Spurious – CH135

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5299.7	54.6		68.2	13.6	Н
17766.2	54.8		74.0	19.2	Н
17771.4		42.5	54.0	11.4	Н
26500.0	50.0		68.2	18.2	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5620.0	56.0		68.2	9.4	Н
17738.4		41.0	54.0	13.0	V
17738.4	54.0		74.0	20.0	V
28099.8	50.7		68.2	17.5	Н

802.11ax160

1 GHz - 40 GHz, 802.11ax160, HE0, Chain A

Radiated Spurious - CH15

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4820.0	52.5		74.0	21.5	V
4820.0		44.8	54.0	9.2	Н
17792.7		42.8	54.0	11.2	V
17792.7	54.8		74.0	19.2	Н
39623.4		45.2	54.0	8.8	Н
39623.4	56.8		74.0	17.2	Н

Radiated Spurious – CH111

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dBµV/m	dB	
5125.9	56.0		74.0	18.0	Н
5125.9		46.0	54.0	7.8	Н
5203.4	53.0		68.2	15.2	Н
7728.4		47.8	54.0	6.2	Н
7728.8	56.4		74.0	17.6	Н
12854.7	51.6		68.2	16.6	V
13010.0	48.9		68.2	19.3	V
26019.8	48.9		68.2	19.3	V

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5332.0	55.3		68.2	12.9	Н
7585.9		45.3	54.0	8.7	Н
7587.6	56.0		74.0	18.0	Н
7920.1	55.6		68.2	12.6	Н
16411.4	54.3		68.2	13.9	Н
26378.2	49.8		68.2	18.4	Н
26660.1	50.1		68.2	18.1	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBµV/m	dBµV/m	dB	
5587.7	55.2		68.2	13.0	Н
17796.0	54.6		74.0	19.4	Н
17796.5		42.6	54.0	11.4	Н
27628.2	56.9		68.2	11.3	V
27939.2	49.7		68.2	18.5	V

1 GHz - 40 GHz, 802.11ax160, HE0, Chain B

Radiated Spurious - CH15

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4818.7	53.2		74.0	20.8	V
4820.0		44.9	54.0	9.1	Н
15875.0		41.8	54.0	12.2	Н
15875.9	53.0		74.0	21.0	Н
39602.2		44.9	54.0	9.1	V
39602.2	56.5		74.0	17.6	V

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5125.9		45.7	54.0	7.2	Н
5126.3	56.0		74.0	18.0	Н
5203.9	53.4		68.2	14.8	Н
7727.9	57.8		74.0	16.2	V
7728.8		47.9	54.0	5.7	V
17791.8		42.4	54.0	11.6	Н
17791.8	55.1		74.0	18.9	V
19280.2	48.8		74.0	25.2	V
19280.7		37.0	54.0	17.0	V
26019.8	49.1		68.2	19.1	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5332.0	53.6		68.2	14.6	Н
7917.9	57.3		68.2	10.9	Н
17872.5		41.6	54.0	12.4	V
17872.5	54.4		74.0	19.6	Н
19761.4		36.8	54.0	17.2	V
19762.8	46.2		74.0	27.8	V
26347.9	51.2		68.2	17.0	V
26659.6	49.1		68.2	19.1	Н

Radiated Spurious - CH207

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5588.2	55.8		68.2	12.4	Н
17834.7	54.6		74.0	19.4	V
17837.6		42.4	54.0	11.6	V
27626.8	55.6		68.2	12.6	V
27939.7	49.6		68.2	18.6	V

1 GHz - 40 GHz, 802.11ax160, HE0, Chain A+B

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
4820.0	52.6		74.0	21.4	Н
4820.0		48.6	54.0	5.4	Н
17816.8		42.5	54.0	11.5	V
17816.8	55.4		74.0	18.6	V
39563.7		44.6	54.0	9.4	Н
39563.7	56.7		74.0	17.3	Н



Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5125.4	54.6		74.0	19.4	Н
5126.3		44.8	54.0	9.2	Н
5203.4	55.3		68.2	12.9	Н
7728.4	57.0		74.0	17.0	Н
7728.4		47.3	54.0	6.7	V
12854.2	50.4		68.2	17.8	V
13010.0	49.2		68.2	19.0	V
26020.2	47.9		68.2	20.4	Н

Radiated Spurious - CH143

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBμV/m	dBμV/m	dB	
5332.0	57.5		68.2	10.7	Н
13330.2	50.4		74.0	23.6	V
13330.2		39.7	54.0	14.3	V
26659.1	50.1		68.2	18.1	Н

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	
5588.2	57.2		68.2	10.9	Н
17813.5		42.7	54.0	11.3	V
17815.8	54.7		74.0	19.3	V
27628.7	53.4		68.2	14.8	V
27939.7	52.1		68.2	16.1	Н