CERTIFICATE #3478.01

TEST REPORT

EUT Description	**WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card**
Brand Name	**Intel® Wi-Fi 6E AX211**
Model Name	**AX211D2W**
FCC ID	**E2KAX211D2**
Date of Test Start/End	**2020-12-05 / 2022-11-24**
Features	**802.11ax, Dual Band, 2x2 Wi-Fi + Bluetooth® 5.2** (see section 5)

Applicant	**Dell Inc.**
Address	**One Dell Way, Round Rock, TX78682, USA**
Contact Person	**Don Bobo**
Telephone/Fax/ Email	**Don.Bobo@Dell.com**

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

Test Report identification	**220928-01.TR04**
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
Digitally signed by Khodor RIDA Date: 2022.12.12 11:08:41 +01'00'	Date: 2022.12.12 11:20:17 +01'00'
Khodor RIDA (Test Engineer Lead)	Zayd OUACHICHA (Technical Manager)

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

Table of Contents

1. Standards, reference documents and applicable test methods 3
2. General conditions, competences and guarantees 3
3. Environmental Conditions 3
4. Test samples 4
5. EUT Features 5
6. Remarks and comments 5
7. Test Verdicts summary 6
7.1. 802.11 A/N/AC/AX – U-NII- 4 6
8. Document Revision History 6
Annex A. Test & System Description 7
A.1 MEASUREMENT SYSTEM 7
A.2 TEST EQUIPMENT LIST 9
A.3 MEASUREMENT UNCERTAINTY EVALUATION 12
Annex B. Test Results U-NII-4 13
B.1 TEST CONDITIONS 13
B.2 TEST RESULTS TABLES 14
B.2.1 6dB & 99% Bandwidth 14
B.2.2 Maximum output power & Maximum power spectral Density 16
B.2.3 Undesirable emission limits : out of band (Conducted) 22
B.2.4 Radiated spurious emission 23
B.3 TEST RESULTS SCREENSHOT 45
B.3.1 6dB Bandwidth 45
B.3.2 99% Bandwidth 49
B.3.3 Maximum output power 54
B.3.4 Maximum Power Spectral Density 58
B.3.5 Undesirable emission limits : out of band (Conducted) 61
B.3.6 Undesirable emission limits : out of band Peak (Conducted) 73
Annex C. Photographs 81
C.1 TEST SETUP 81
C.2 TEST SAMPLE 83

1. Standards, reference documents and applicable test methods

FCC	1. FCC Title 47 CFR part 15 – Subpart E – Unlicensed National Information Infrastructure Devices. 2020-10-01 Edition 2. FCC Title 47 CFR part 15 – Subpart C – §15.209 Radiated emission limits; general requirements. 2010-10-01 Edition 3. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band. 4. FCC OET KDB 789033 D02 v02r01 - Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) devices part 15, subpart E 5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. 6. FCC OET KDB 291074 D01 v01 - General Requirements 7. FCC OET KDB 291074 D02 v01 - EMC Measurement 8. FCC OET KDB 291074 D03 v01 - QA General Questions and Answers 9. FCC OET KDB 291074 D04 v01 – UN5GHz Checklist v01

2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA 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 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	24ºC ± 5.9ºC
Humidity	45.2% ±16%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	201120-03.S07	WiFi 6E Module	AX211D2W	WFM: D8F8834E56F1	2020-11-23	RF Conducted
	200611-01.S11	XVT EXTENDER SNJ A4 (GfP)	PCB00651_01	-	2020-11-30	
	180001-01.S21	Socket Adapter	Socket	-	2021-05-07	
	170000-01.S13	Laptop	Latitude E5470	FT6LMC2	2017-05-30	
#02	201120-03.S09	WiFi 6E Module	AX211D2W	WFM:DF8834E4C92	2020-11-23	Used 1GHz-6.4GHz Radiated Spurious Emission tests, 6.4-18GHz MIMO Radiated Spurious Emission tests and 18GHz-40GHz Radiated Spurious Emission tests
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	
	200611-01.S06	Adaptor	PowerBy SNJ A4	-	2020-11-30	
	200602-03.S06	Absorber	HE0	-	2020-07-03	
	180000-01.S05	Socket	Adapter 1216SD to M.2	-	2017-08-09	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	
	200611-03.S28	Main Antenna	SkyCross	-	2020-07-01	
	200611-03.S29	Aux Antenna	SkyCross	-	2020-07-01	
#03	201120-03.S08	WiFi 6E Module	AX211D2W	WFM:D8F8834E56AB	2020-11-23	Used for 30MHz-1GHz Radiated Spurious Emission tests and 6.4GHz-18GHz SISO Radiated Spurious Emission tests
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	200611-01.S07	Adaptor	PowerBy SNJ A4	-	2020-11-30	
	200602-03.S06	Absorber	HE0	-	2020-07-03	
	180000-01.S02	Socket	Adapter 1216SD to M.2	-	2017-08-09	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	200928-03.S08	Main Antenna	SkyCross	-	2020-09-01	
	200928-03.S09	Aux Antenna	SkyCross	-	2020-09-01	
#04	201120-03.S03	WiFi 6E Module	AX211D2W	WFM: D8F8834C251B	2020-11-23	RF Conducted Only for Band Edge testing with Peak detection
	200611-01.S19	XVT EXTENDER SNJ A4 (GfP)	-	-	2021-02-06	
	170000-01.S13	Laptop	Latitude E5470	FT6LMC2	2017-05-30	

5. EUT Features

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

Brand Name	Intel® Wi-Fi 6E AX211
Model Name	AX211D2W
Software Version	DRTU Version: 11195_99_2100_51G
Driver Version	99.0.58.3 (99.0.63.5 for 6dB Bandwidth (n40 and ax40) and Undesirable emission limits: Band Edge Non-Restricted High (Conducted))
Prototype / Production	Production
Supported Radios	802.11b/g/n/ax — 2.4 GHz (2400.0 – 2483.5 MHz) 802.11a/n/ac/ax — 5.2 GHz (5150.0 – 5350.0 MHz) 5.6 GHz (5470.0 – 5725.0 MHz) 5.8 GHz (5725.0 – 5895.0 MHz) 5.9 GHz (5850.0 – 5895.0 MHz) 802.11ax — 6.0 GHz (5925.0 – 7125.0MHz) Bluetooth 5.2 — 2.4 GHz (2400.0 – 2483.5 MHz)
Antenna Information	

Transmitter	Main (chain A)	Aux (chain B)
Manufacturer	SkyCross	Skycross
Antenna type	PIFA antenna	PIFA antenna
Declared antenna gain (dBi)	+5	+5

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- 4

FCC part	Test name	Verdict
15.407 (a) (3)	Maximum output power	P
14.407 (e)	6dB Emission Bandwith	P
15.407 (a) (3)	Power spectral density	P
15.407 (b) (5)	Undesirable emissions limits: out of band (conducted)	P
15.407 (b) (3) 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	C.Requin	First Issue

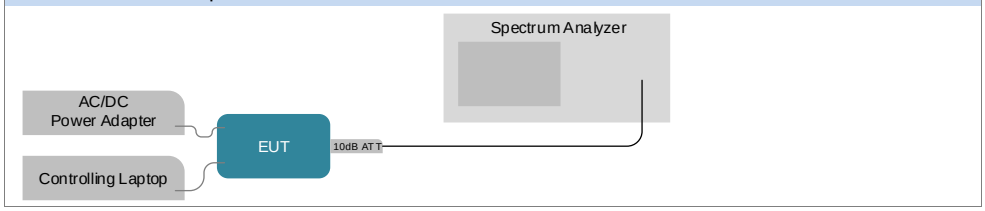
Annex A. Test & System Description

A.1 Measurement System

Measurements were performed using the following setups, made in accordance to the general provisions of ANSI C63.10 2013.

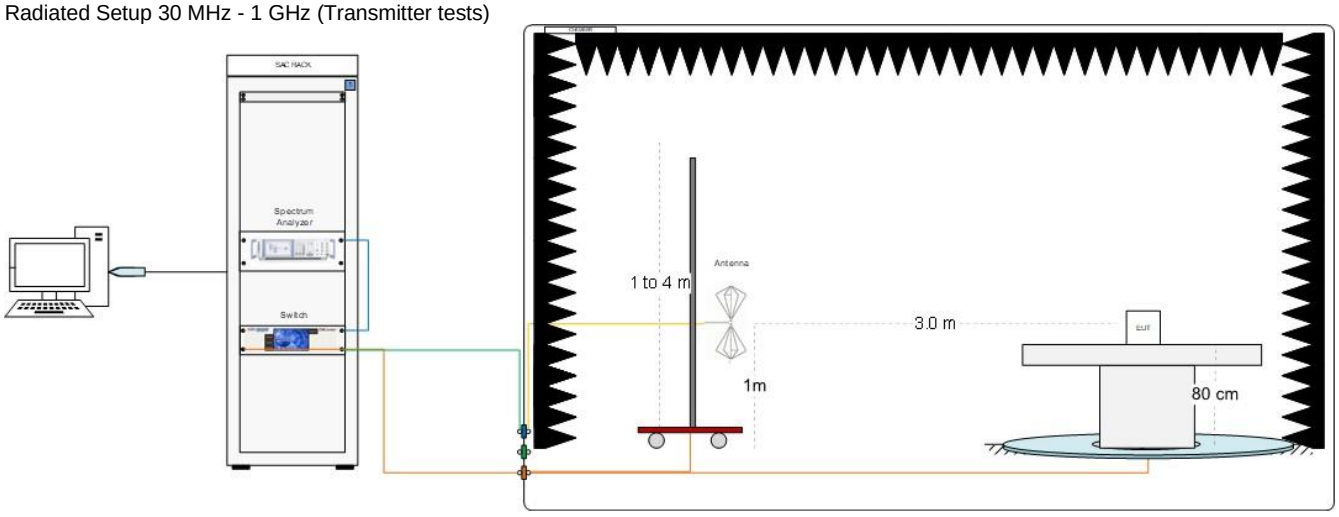
The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary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

Conducted test setup

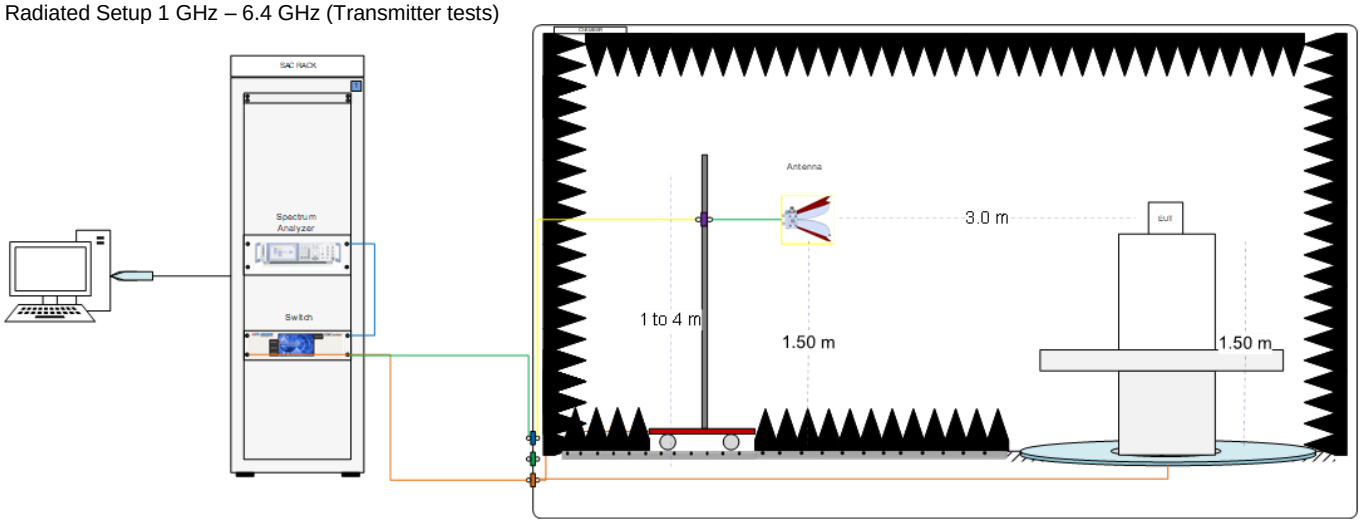


Radiated test setup

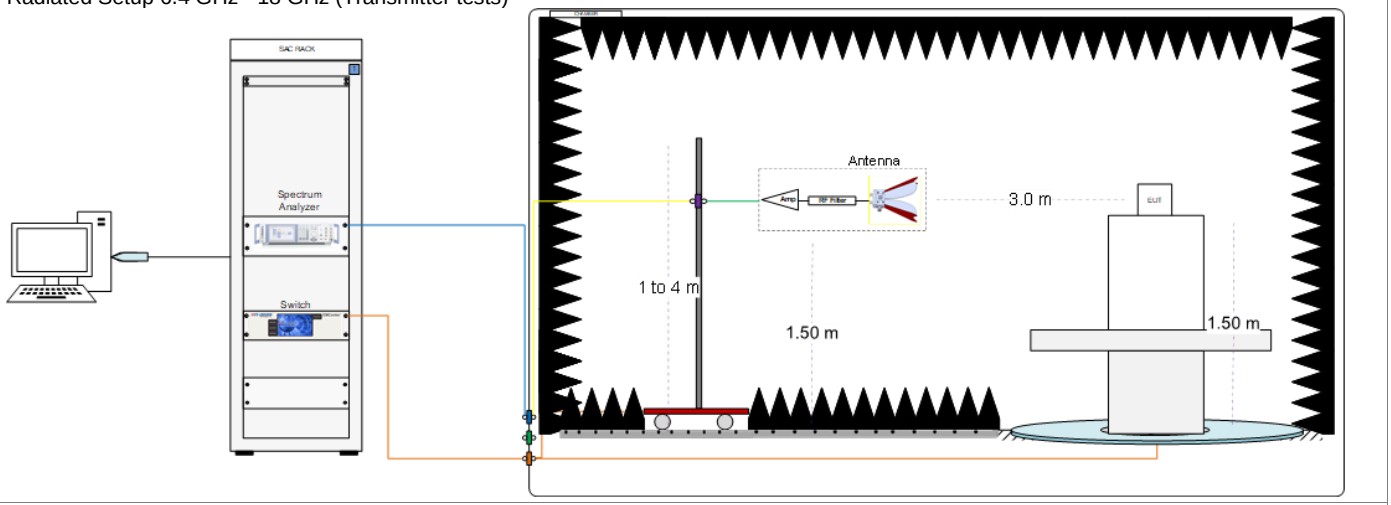
Radiated Setup 30 MHz - 1 GHz (Transmitter tests)



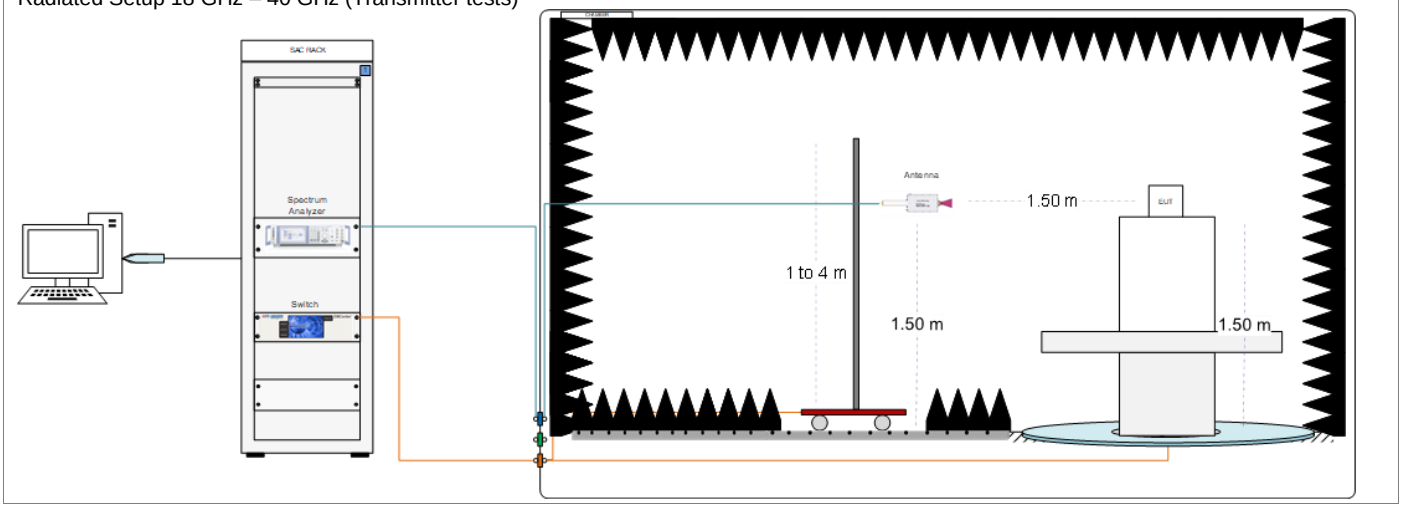
Radiated Setup 1 GHz – 6.4 GHz (Transmitter tests)



Radiated Setup 6.4 GHz - 18 GHz (Transmitter tests)



Radiated Setup 18 GHz – 40 GHz (Transmitter tests)



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:

F (dB/m)= Rx Antenna Factor (dB/m) + Cable losses (dB) – Amplifiers Gain (dBi)
E (dBµV/m) = V(dBµV) + F (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:

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

where

$E_{SpecLimit}$ 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 dBµV/m
D_{Meas} is the measurement distance, in m
$D_{SpecLimit}$ is the distance specified by the limit, in m

A.2 Test Equipment List

Conducted setup #1 except 6dB Bandwidth n40 and ax40 and Undesirable emission limit (Band Edge Non-Restricted High)

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
134-000*	Spectrum Analyzer	FSV30	103308	Rohde & Schwarz	2021-04-21	2023-04-21
018-003*	RF cable 50cm	PE360-50CM	N/A	PASTERNACK	2021-02-23	2022-02-23
018-001*	10dB Attenuator + MH4	N/A	N/A	N/A	2021-02-23	2022-02-23
349-000*	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-E16F48	AVTECH	2019-06-26	2021-06-26
408-000*	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-E21FC8	AVTECH	2021-06-26	2023-06-03
413-000	Measurement SW v1.5.4.2	Octopi	N/A	Step AT	N/A	N/A

N/A: not applicable
The items were not used in the out of calibration period

Conducted setup #2 for 6dB Bandwidth n40 and ax40 and Undesirable emission limit (Band Edge Non-Restricted High)

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	PASTERNACK	2021-08-24	2022-02-24
019-002*	10dB Attenuator + MH4	N/A	N/A	N/A	2021-08-24	2022-02-24
322-000*	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89702	AVITECH	2021-09-02	2023-09-02
413-000	Measurement SW v1.5.4.2	Octopi	N/A	Step AT	N/A	N/A

N/A: not applicable
The items were not used in the out of calibration period

Conducted setup #3 for undesirable emission limits with Peak Detection

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
*265-000	Spectrum Analyzer	FSV30	101318	Rohde & Schwarz	2022-06-22	2024-06-22
*019-000	RF cable 100cm	PE360-100CM	N/A	PASTERNACK	2022-09-02	2023-03-02
*019-002	10dB Attenuator + MH4	N/A	N/A	N/A	2022-09-02	2023-03-02
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

N/A: not applicable
*The items were not used in the out of calibration period

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	2022-07-06
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, v10.40.10	EMC32	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
*056-000	Horn Antenna 3117 + Amplifier + HPF6.4	3117	00157736	ETS-Lindgren	2020-04-01	2022-04-01
*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
363-000	Temperature & Humidity logger	RA12E-TH1-RAS	RA12-D0EB1A	Avtech	2019-07-03	2021-07-03

N/A: Not Applicable
*The equipment were 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, 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
*056-000	Horn Antenna 3117 + Amplifier + HPF6.4	3117	00157736	ETS-Lindgren	2020-04-01	2022-04-01
*007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2019-07-24	2021-07-24
*007-021	RF Cable 1-18GHz, 1.5 m	0501050991200GX	19.21.710	Radiall	2020-08-20	2021-02-20
*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	2021-02-14	2021-08-14
*007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2021-02-15	2021-08-15
*007-010	RF Cable 1.2m 40MHz-40GHz	794-9191-1200A	DA585	Atem	2020-08-20	2021-02-20
*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
*362-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-D4F316	Avtech	2019-07-05	2021-07-05

N/A: Not Applicable
*The equipment were 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	±6.24	dB
Radiated tests 1GHz – 40 GHz	±6.04	dB

Annex B. Test Results U-NII-4

The herein test results were performed by:

Test case measurement	Test Personnel
6dB and 99% Bandwidth	C.Requin
Maximum output power & Maximum PSD	C.Requin
Undesirable emission limits: out of band	C.Requin, V.Kaculini
Radiated spurious emissions	A. Lounes, N. Bui, N. Nachabe

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	80/160	VHT0
	802.11ax	20/40/80/160	HE0
MIMO	802.11n	20/40	HT8
	802.11ac	80/160	VHT0
	802.11ax	20/40/80/160	HE0

B.2 Test Results Tables

B.2.1 6dB & 99% Bandwidth

Test limits

FCC part	Limits
15.407 (e)	For equipment operating in the band 5725-5895 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.

Results tables

Mode	Rate	Antenna	Channel	Freq [MHz]	6dB BW [MHz]	99% BW [MHz]
802.11a	6Mbps	SISO A	169	5845	15.08	16.56
			173	5865	15.11	16.60
			177	5885	15.00	16.64
		SISO B	169	5845	15.08	16.60
			173	5865	15.14	16.60
			177	5885	15.35	16.80
802.11n20	HT0	SISO A	169	5845	13.77	17.80
			173	5865	15.05	17.72
			177	5885	15.08	17.84
		SISO B	169	5845	15.10	17.68
			173	5865	13.19	17.76
			177	5885	15.08	17.80
	HT8	MIMO A	169	5845	14.40	17.80
			173	5865	15.01	17.76
			177	5885	14.96	17.76
		MIMO B	169	5845	16.25	17.80
			173	5865	15.70	17.80
			177	5885	16.29	17.72
802.11n40	HT0	SISO A	167	5835	32.56	36.48
			175	5875	32.59	36.56
		SISO B	167	5835	35.03	36.48
			175	5875	34.02	36.24
	HT8	MIMO A	167	5835	33.86	36.24
			175	5875	31.27	36.32
		MIMO B	167	5835	35.08	36.08
			175	5875	35.09	36.32
802.11ac80	VHT0	SISO A	171	5855	72.64	75.20
		SISO B			63.89	75.20
		MIMO A			72.64	75.20
		MIMO B			75.09	75.04
802.11ac160	VHT0	SISO A	163	5815	150.08	153.28
		SISO B			118.93	153.50
		MIMO A			128.88	153.60
		MIMO B			153.83	153.28

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	6dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	169	5845	16.02	18.96
			173	5865	17.24	18.96
			177	5885	17.62	18.92
		SISO B	169	5845	15.10	18.92
			173	5865	15.50	18.96
			177	5885	16.90	18.88
		MIMO A	169	5845	14.68	18.88
			173	5865	15.35	18.92
			177	5885	16.14	18.84
		MIMO B	169	5845	15.67	18.96
			173	5865	16.42	18.96
			177	5885	15.10	18.92
802.11ax40	HE0	SISO A	167	5835	35.02	37.60
			175	5875	35.26	37.60
		SISO B	167	5835	35.70	37.84
			175	5875	35.10	37.68
		MIMO A	167	5835	35.96	37.60
			175	5875	35.45	37.68
		MIMO B	167	5835	35.05	37.60
			175	5875	35.02	37.76
802.11ax80	HE0	SISO A	171	5855	75.15	76.64
		SISO B			73.87	76.80
		MIMO A			73.87	76.96
		MIMO B			73.92	76.64
802.11ax160	HE0	SISO A	163	5815	142.63	155.20
		SISO B			150.13	155.20
		MIMO A			150.13	155.20
		MIMO B			151.38	155.20

Max Value

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

B.2.2 Maximum output power & Maximum power spectral Density

Test limits

FCC part	Limits
15.407 (a) (3) (iii)	For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.
15.407 (a) (12)	Power spectral density measurement: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. Measurements in the 5.725-5.895 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.

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) 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.

Results tables

Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.60
		SISO B	97.60
802.11n20	HT0	SISO A	98.00
		SISO B	98.00
	HT8	MIMO A	98.00
		MIMO B	98.00
802.11ax20	HE0	SISO A	98.00
		SISO B	98.00
		MIMO A	98.00
		MIMO B	98.00
802.11n40	HT0	SISO A	98.00
		SISO B	98.00
	HT8	MIMO A	98.00
		MIMO B	98.00
802.11ax40	HE0	SISO A	98.00
		SISO B	98.00
		MIMO A	98.00
		MIMO B	98.00
802.11ac80	VHT0	SISO A	98.40
		SISO B	98.40
		MIMO A	97.70
		MIMO B	97.70
802.11ax80	HE0	SISO A	98.00
		SISO B	98.00
		MIMO A	97.10
		MIMO B	97.10
802.11ac160	VTH0	SISO A	97.60
		SISO B	97.60
		MIMO A	96.20
		MIMO B	96.20
802.11ax160	HE0	SISO A	97.10
		SISO B	97.10
		MIMO A	94.00
		MIMO B	94.00

Maximum output power – U-NII-4 Channels

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Ouput Power [mW]
802.11a	6Mbps	169	5845	SISO A	19.58	19.69	24.69	93.01
				SISO B	19.63	19.74	24.74	94.09
		173	5865	SISO A	19.57	19.68	24.68	92.80
				SISO B	19.33	19.44	24.44	87.81
		177	5885	SISO A	19.35	19.46	24.46	88.22
				SISO B	19.43	19.54	24.54	89.86
802.11n20	HT0	169	5845	SISO A	19.73	19.73	24.73	93.97
				SISO B	19.56	19.56	24.56	90.36
		173	5865	SISO A	19.85	19.85	24.85	96.61
				SISO B	19.91	19.91	24.91	97.95
		177	5885	SISO A	19.28	19.28	24.28	84.72
				SISO B	19.88	19.88	24.88	97.27
	HT8	169	5845	MIMO A	16.90	16.90	21.90	48.98
				MIMO B	16.83	16.83	21.83	48.19
				Combined A+B	19.88	19.88	24.88	97.17
		173	5865	MIMO A	16.96	16.96	21.96	49.66
				MIMO B	16.91	16.91	21.91	49.09
				Combined A+B	19.95	19.95	24.95	98.75
		177	5885	MIMO A	16.65	16.65	21.65	46.24
				MIMO B	16.89	16.89	21.89	48.87
				Combined A+B	19.78	19.78	24.78	95.10
802.11n40	HT0	167	5835	SISO A	21.06	21.06	26.06	127.64
				SISO B	21.17	21.17	26.17	130.92
		175	5875	SISO A	21.09	21.09	26.09	128.53
				SISO B	20.84	20.84	25.84	121.34
	HT8	167	5835	MIMO A	20.23	20.23	25.23	105.44
				MIMO B	20.03	20.03	25.03	100.69
				Combined A+B	23.14	23.14	28.14	206.13
		175	5875	MIMO A	20.21	20.21	25.21	104.95
				MIMO B	20.06	20.06	25.06	101.39
				Combined A+B	23.15	23.15	28.15	206.35
802.11ac80	VHT0	171	5855	SISO A	20.45	20.45	25.45	110.92
				SISO B	20.38	20.38	25.38	109.14
				MIMO A	19.75	19.85	24.85	96.63
				MIMO B	19.35	19.45	24.45	88.13
				Combined A+B	22.56	22.67	27.67	184.75
802.11ac160	VHT0	163	5815	SISO A	17.32	17.43	22.43	55.28
				SISO B	17.09	17.20	22.20	52.43
				MIMO A	16.97	17.14	22.14	51.74
				MIMO B	15.84	16.01	21.01	39.89
				Combined A+B	19.45	19.62	24.62	91.63

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

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Ouput Power [mW]
802.11ax20	HE0	169	5845	SISO A	19.91	19.91	24.91	97.95
				SISO B	20.02	20.02	25.02	100.46
				MIMO A	16.90	16.90	21.90	48.98
				MIMO B	16.96	16.96	21.96	49.66
				Combined A+B	19.94	19.94	24.94	98.64
		173	5865	SISO A	19.99	19.99	24.99	99.77
				SISO B	19.79	19.79	24.79	95.28
				MIMO A	16.97	16.97	21.97	49.77
				MIMO B	16.97	16.97	21.97	49.77
				Combined A+B	19.98	19.98	24.98	99.55
		177	5885	SISO A	19.64	19.64	24.64	92.04
				SISO B	19.90	19.90	24.90	97.72
				MIMO A	16.62	16.62	21.62	45.92
				MIMO B	16.67	16.67	21.67	46.45
				Combined A+B	19.66	19.66	24.66	92.37
802.11ax40	HE0	167	5835	SISO A	21.08	21.08	26.08	128.23
				SISO B	21.12	21.12	26.12	129.42
				MIMO A	20.53	20.53	25.53	112.98
				MIMO B	20.42	20.42	25.42	110.15
				Combined A+B	23.49	23.49	28.49	223.13
		175	5875	SISO A	20.90	20.90	25.90	123.03
				SISO B	20.81	20.81	25.81	120.50
				MIMO A	20.14	20.14	25.14	103.28
				MIMO B	20.26	20.26	25.26	106.17
				Combined A+B	23.21	23.21	28.21	209.45
802.1axc80	HE0	171	5855	SISO A	20.70	20.70	25.70	117.49
				SISO B	20.34	20.34	25.34	108.14
				MIMO A	19.61	19.74	24.74	94.14
				MIMO B	19.68	19.81	24.81	95.67
				Combined A+B	22.66	22.78	27.78	189.81
802.11ax160	HE0	163	5815	SISO A	17.38	17.51	22.51	56.34
				SISO B	16.98	17.11	22.11	51.38
				MIMO A	17.02	17.29	22.29	53.56
				MIMO B	16.08	16.35	21.35	43.14
				Combined A+B	19.59	19.85	24.85	96.70

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

Max Value

Min Value

See Section B.3.3 for the screenshot results

Maximum Power Spectral Density (PSD) – U-NII-4 channels

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/MHz]	EIRP PSD* [dBm/MHz]
802.11a	6Mbps	169	5845	SISO A	5.68	5.79	8.80	13.80
				SISO B	5.79	5.90	8.91	13.91
		173	5865	SISO A	5.64	5.75	8.76	13.76
				SISO B	5.49	5.60	8.61	13.61
		177	5885	SISO A	5.64	5.75	8.76	13.76
				SISO B	5.70	5.81	8.82	13.82
802.11n20	HT0	169	5845	SISO A	5.70	5.70	8.71	13.71
				SISO B	5.50	5.50	8.51	13.51
		173	5865	SISO A	5.74	5.74	8.75	13.75
				SISO B	5.76	5.76	8.77	13.77
		177	5885	SISO A	5.38	5.38	8.39	13.39
				SISO B	5.93	5.93	8.94	13.94
	HT8	169	5845	MIMO A	2.80	2.80	5.81	10.81
				MIMO B	2.81	2.81	5.82	10.82
				Combined A+B	5.82	5.82	8.83	13.83
		173	5865	MIMO A	2.84	2.84	5.85	10.85
				MIMO B	2.85	2.85	5.86	10.86
				Combined A+B	5.86	5.86	8.87	13.87
		177	5885	MIMO A	2.71	2.71	5.72	10.72
				MIMO B	2.91	2.91	5.92	10.92
				Combined A+B	5.82	5.82	8.83	13.83
802.11n40	HT0	167	5835	SISO A	3.58	3.58	6.59	11.59
				SISO B	3.62	3.62	6.63	11.63
		175	5875	SISO A	3.67	3.67	6.68	11.68
				SISO B	3.43	3.43	6.44	11.44
	HT8	167	5835	MIMO A	2.73	2.73	5.74	10.74
				MIMO B	2.59	2.59	5.60	10.60
				Combined A+B	5.67	5.67	8.68	13.68
		175	5875	MIMO A	2.87	2.87	5.88	10.88
				MIMO B	2.67	2.67	5.68	10.68
				Combined A+B	5.78	5.78	8.79	13.79
802.11ac80	VHT0	171	5855	SISO A	0.20	0.20	3.21	8.21
				SISO B	0.10	0.10	3.11	8.11
				MIMO A	-2.06	-1.96	1.05	6.05
				MIMO B	-1.21	-1.11	1.90	6.90
				Combined A+B	1.40	1.50	4.51	9.51
802.11ac160	VHT0	163	5815	SISO A	-6.02	-5.91	-2.90	2.10
				SISO B	-5.86	-5.75	-2.74	2.26
				MIMO A	-6.21	-6.04	-3.03	1.97
				MIMO B	-7.04	-6.87	-3.86	1.14
				Combined A+B	-3.59	-3.43	-0.42	4.58

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

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/500kHz]	Max.* conducted PSD [dBm/MHz]	EIRP PSD* [dBm/MHz]
802.11ax20	HE0	169	5845	SISO A	5.67	5.67	8.68	13.68
				SISO B	5.76	5.76	8.77	13.77
				MIMO A	2.66	2.66	5.67	10.67
				MIMO B	2.68	2.68	5.69	10.69
				Combined A+B	5.68	5.68	8.69	13.69
		173	5865	SISO A	5.68	5.68	8.69	13.69
				SISO B	5.52	5.52	8.53	13.53
				MIMO A	2.70	2.70	5.71	10.71
				MIMO B	2.68	2.68	5.69	10.69
				Combined A+B	5.70	5.70	8.71	13.71
		177	5885	SISO A	5.53	5.53	8.54	13.54
				SISO B	5.74	5.74	8.75	13.75
				MIMO A	2.50	2.50	5.51	10.51
				MIMO B	2.61	2.61	5.62	10.62
				Combined A+B	5.57	5.57	8.58	13.58
802.11ax40	HE0	167	5835	SISO A	3.41	3.41	6.42	11.42
				SISO B	3.44	3.44	6.45	11.45
				MIMO A	2.88	2.88	5.89	10.89
				MIMO B	2.82	2.82	5.83	10.83
				Combined A+B	5.86	5.86	8.87	13.87
		175	5875	SISO A	3.40	3.40	6.41	11.41
				SISO B	3.29	3.29	6.30	11.30
				MIMO A	2.67	2.67	5.68	10.68
				MIMO B	2.68	2.68	5.69	10.69
				Combined A+B	5.69	5.69	8.70	13.70
802.1ax80	HE0	171	5855	SISO A	0.13	0.13	3.14	8.14
				SISO B	-0.22	-0.22	2.79	7.79
				MIMO A	-1.02	-0.89	2.12	7.12
				MIMO B	-1.15	-1.02	1.99	6.99
				Combined A+B	1.93	2.05	5.06	10.06
802.11ax160	HE0	163	5815	SISO A	-6.25	-6.12	-3.11	1.89
				SISO B	-6.03	-5.90	-2.89	2.11
				MIMO A	-6.31	-6.04	-3.03	1.97
				MIMO B	-7.35	-7.08	-4.07	0.93
				Combined A+B	-3.79	-3.52	-0.51	4.49

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

Note :PSD [dBm/500KHz] corresponds to the measurement done using RBW = 500KHz. To obtain the PSD [dBm/1MHz] a correction factor is applied: $10log\left(\frac{1MHz}{500kHz}\right) = +3.01dB$

See Section B.3.4 for the screenshot results

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

Test limits

FCC part	Limits
15.407 (b) (4)	All emisions below 5.725 GHz shall not exceed an e.i.r.p of −27 dBm/MHz at 5.65GHz increasing linearly to 10dBm/MHz at 5.7 GHz, and from 5.7GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72GHz, and from 5.72 GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.
15.407 (b) (5) (ii)	All emissions at or above 5.895GHz shall not exceed an e.i.r.p of -5dBm/MHz and shall decrease linearly to an e.i.r.p of -27dBm/MHz at or above 5.925GHz.

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 lower OOBE, Peak detector is used according to FCC OET KDB 789033 D02 v02r01.

For upper OOBE, RMS detector is used according to FCC OET KDB 291074 D01 v01.

Integration method as described in KDB Publication 789033.3.d)(ii) can be used in order to optimize the power. In this report, the integration method is applied in the band 5895 - 5896MHz and compared with interpolation limit of curve (-5.367dBm/MHz EIRP) at 5895.5MHz.

The RBW is set to 100KHz according to the integration method, the applicable limit is updated accordingly (Shifted by 10dB)

According to FCC OET KDB 291074 D04 v01, Band Edge measurements above 5895 MHz should also include Peak plots to show compliance with 15.35(b) where the peak emissions must be limited to no more than 20 dB above the average limit.

See Section B.3.5 and B.3.6 for the screenshot results.

B.2.4 Radiated spurious emission

Standard references

<table>
<tr><th>FCC part</th><th>Limits</th></tr>
<tr><td>15.407 (b) (5) (iii)</td><td>For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more 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 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.
.</td></tr>
<tr><td>15.407 (b) (5) (ii)</td><td>For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz</td></tr>
<tr><td>15.209</td><td>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):
<table>
<tr><th>Freq Range (MHz)</th><th>Field Strength (µV/m)</th><th>Field Strength (dBµV/m)</th><th>Meas. Distance (m)</th></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>
</table>
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.
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.</td></tr>
</table>

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 360º 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

30 MHz – 1 GHz, Radiated spurious emissions

Radiated Spurious – All modes

Frequency	QuasiPeak	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	---
73.2	30.9	40.0	9.1	V

Note 1: The detected spurious signals 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 – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3380.5	56.9	Peak	88.2	31.3	H
3385.0	46.0	RMS	68.2	22.2	H
11690.1	48.2	Peak	74.0	25.8	H
11690.1	38.5	Average	54.0	15.5	V
39703.0	46.0	Average	54.0	8.0	V
39845.2	57.9	Peak	74.0	16.1	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3386.0	56.9	Peak	88.2	31.3	V
3388.0	46.0	RMS	68.2	22.2	V
11732.6	40.3	Average	54.0	13.7	V
11735.0	50.5	Peak	74.0	23.5	H
39506.8	58.0	Peak	74.0	16.0	H
39694.3	46.4	Average	54.0	**7.6**	H

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3373.5	58.7	Peak	88.2	29.5	H
3373.5	46.5	RMS	68.2	21.7	V
17106.8	52.5	Peak	88.2	35.8	H
17106.8	41.6	RMS	68.2	26.6	V
39495.7	57.4	Peak	74.0	16.6	H
39609.9	46.0	Average	54.0	8.0	H

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3380.5	57.1	Peak	88.2	31.1	H
3385.0	46.1	RMS	68.2	22.1	V
17835.7	55.6	Peak	74.0	18.4	V
17836.2	43.5	Average	54.0	10.5	V
39645.1	56.6	Peak	74.0	17.4	V
39663.0	46.4	Average	54.0	7.6	H

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3390.0	57.6	Peak	88.2	30.6	H
3392.5	45.9	RMS	68.2	22.3	V
17927.5	43.3	Average	54.0	10.7	H
17927.5	55.6	Peak	74.0	18.4	H
39601.3	46.1	Average	54.0	7.9	V
39602.7	58.5	Peak	74.0	15.5	V

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3374.0	58.6	Peak	88.2	29.6	H
3374.0	46.4	RMS	68.2	21.8	H
17146.9	52.8	Peak	88.2	35.4	V
17146.9	41.2	RMS	68.2	27.0	H
23540.1	53.8	Peak	88.2	34.4	V
23540.1	42.4	RMS	68.2	25.8	V

802.11n

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3377.5	57.6	Peak	88.2	30.6	H
3378.5	46.1	RMS	68.2	22.1	H
11694.4	49.3	Peak	74.0	24.7	V
11694.4	38.4	Average	54.0	15.7	V
39660.6	57.4	Peak	74.0	16.6	H
39760.4	45.8	Average	54.0	8.2	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3371.5	46.6	RMS	68.2	21.6	V
3373.0	59.0	Peak	88.2	29.2	V
11732.1	40.3	Average	54.0	13.7	V
11736.0	50.7	Peak	74.0	23.3	V
39636.0	57.6	Peak	74.0	16.4	V
39654.3	46.1	Average	54.0	7.9	H

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3387.5	58.4	Peak	88.2	29.8	V
3387.5	46.0	RMS	68.2	22.2	V
17091.3	53.2	Peak	88.2	35.0	V
17091.3	41.2	RMS	68.2	27.0	V
39630.7	57.7	Peak	74.0	16.3	H
39632.6	46.5	Average	54.0	7.5	V

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3376.0	58.6	Peak	88.2	29.6	H
3376.5	46.2	RMS	68.2	22.0	H
17911.5	43.4	Average	54.0	10.6	V
17911.5	56.0	Peak	74.0	18.0	H
39645.1	58.3	Peak	74.0	15.7	V
39654.3	46.5	Average	54.0	7.5	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3363.5	59.0	Peak	88.2	29.2	V
3373.0	46.5	RMS	68.2	21.8	H
17899.0	43.1	Average	54.0	10.9	H
17899.0	56.1	Peak	74.0	17.9	V
39620.6	57.0	Peak	74.0	16.9	H
39655.3	46.4	Average	54.0	7.6	H

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3393.5	58.4	Peak	88.2	29.8	V
3393.5	46.1	RMS	68.2	22.1	V
17057.5	53.0	Peak	88.2	35.2	H
17057.5	41.4	RMS	68.2	26.8	H
23540.1	53.5	Peak	88.2	34.7	V
23540.1	43.8	RMS	68.2	24.4	V

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3384.0	57.4	Peak	88.2	30.8	H
3385.0	46.3	RMS	68.2	21.9	H
11690.1	53.3	Peak	74.0	20.7	H
11690.1	47.0	Average	54.0	7.0	H
23372.9	50.7	Peak	88.2	37.5	V
23375.3	39.5	RMS	68.2	28.7	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3374.0	58.5	Peak	88.2	29.7	H
3377.0	46.2	RMS	68.2	21.9	H
11729.7	53.5	Peak	74.0	20.5	H
11729.7	47.1	Average	54.0	6.9	V
23450.4	47.9	Peak	88.2	40.3	V
23460.3	37.8	RMS	68.2	30.4	V

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3389.0	58.5	Peak	88.2	29.7	V
3389.0	45.9	RMS	68.2	22.3	V
11764.0	58.8	Peak	74.0	15.2	V
11771.8	48.9	Average	54.0	**5.1**	V
39611.9	46.4	Average	54.0	7.6	H
39637.4	57.4	Peak	74.0	16.6	H

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3368.0	59.4	Peak	88.2	28.8	H
3369.5	46.5	RMS	68.2	21.8	V
17919.8	43.3	Average	54.0	10.7	H
17919.8	55.8	Peak	74.0	18.2	H
39550.2	56.7	Peak	74.0	17.3	H
39650.4	46.0	Average	54.0	8.0	V

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3398.5	58.5	Peak	88.2	29.7	V
3399.0	46.3	RMS	68.2	21.9	H
11744.7	41.8	Average	54.0	12.2	H
11754.4	52.1	Peak	74.0	21.9	H
39673.6	57.6	Peak	74.0	16.4	H
39694.8	46.3	Average	54.0	7.7	V

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3371.0	58.9	Peak	88.2	29.3	H
3371.0	46.8	RMS	68.2	21.4	V
17985.0	44.1	Average	54.0	9.9	V
17985.0	56.0	Peak	74.0	18.0	V
39636.0	46.1	Average	54.0	7.9	H
39650.0	56.7	Peak	74.0	17.3	H

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3381.0	59.4	Peak	88.2	28.8	V
3382.5	46.4	RMS	68.2	21.8	V
17871.0	54.5	Peak	74.0	19.5	H
17876.8	42.8	Average	54.0	11.2	V
39593.1	56.8	Peak	74.0	17.2	V
39609.9	46.5	Average	54.0	**7.5**	V

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3387.5	57.6	Peak	88.2	30.6	H
3388.0	45.7	RMS	68.2	22.5	V
11670.8	49.7	Peak	74.0	24.3	V
11670.8	42.1	Average	54.0	11.9	H
23341.8	48.0	Peak	68.2	20.2	V

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3392.5	57.9	Peak	88.2	30.3	H
3392.5	46.2	RMS	68.2	22.0	H
17881.1	42.3	Average	54.0	11.7	V
17987.4	52.4	Peak	74.0	21.6	H
39631.2	46.4	Average	54.0	7.6	V
39632.6	56.5	---	74.0	17.5	H

802.11ax

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3392.0	46.1	RMS	68.2	22.1	H
3397.5	59.0	Peak	88.2	29.2	H
11673.2	39.5	Average	54.0	14.5	H
11674.1	50.0	Peak	74.0	24.0	V
17509.9	47.8	RMS	68.2	20.4	H
17510.4	56.5	Peak	88.2	31.7	H
39578.6	57.3	Peak	74.0	16.7	H
39625.9	46.2	Average	54.0	7.8	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3372.5	58.5	Peak	88.2	29.7	H
3375.0	46.4	RMS	68.2	21.8	V
11712.8	43.5	Average	54.0	10.4	H
11713.3	51.8	Peak	74.0	22.2	H
17569.8	55.1	Peak	88.2	33.1	V
17569.8	45.5	RMS	68.2	22.7	V
39657.2	46.0	Average	54.0	8.0	H
39658.2	57.3	Peak	74.0	16.7	V

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3380.5	58.8	Peak	88.2	29.4	H
3380.5	46.1	RMS	68.2	22.1	H
11752.9	50.0	Peak	74.0	24.0	V
11752.9	40.1	Average	54.0	13.9	H
17629.8	51.1	Peak	88.2	37.1	H
17630.3	41.7	RMS	68.2	26.5	H
39671.7	57.2	Peak	74.0	16.8	H
39677.4	46.4	Average	54.0	7.6	H

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3367.0	46.7	RMS	68.2	21.5	H
3371.5	59.4	Peak	88.2	28.8	V
17509.4	48.0	RMS	68.2	20.2	H
17511.3	57.0	Peak	88.2	31.2	H
23346.0	42.4	RMS	68.2	25.8	V
23346.0	51.7	Peak	88.2	36.5	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3378.5	46.4	RMS	68.2	21.8	H
3384.5	57.9	Peak	88.2	30.3	V
17569.8	47.5	RMS	68.2	20.7	H
17570.8	57.4	Peak	88.2	30.8	H
23426.8	40.4	RMS	68.2	27.8	V
23427.2	50.0	Peak	88.2	38.2	H

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3389.0	58.3	Peak	88.2	29.9	H
3389.0	46.1	RMS	68.2	22.2	V
17629.3	51.6	Peak	88.2	36.6	V
17629.8	42.9	RMS	68.2	25.3	V
23505.6	50.6	Peak	88.2	37.6	V
23505.6	40.7	RMS	68.2	27.5	V

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

Radiated Spurious – CH169

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3367.0	58.5	Peak	88.2	29.8	V
3369.5	46.3	RMS	68.2	21.9	H
6495.7	36.6	RMS	68.2	31.6	V
6498.6	47.8	Peak	88.2	40.4	V
11673.2	58.3	Peak	74.0	15.7	V
11673.2	50.7	Average	54.0	**3.3**	H
11683.3	50.8	Peak	74.0	23.2	H
11683.3	39.0	Average	54.0	15.0	H
11698.8	38.9	Average	54.0	15.1	H
11698.8	51.6	Peak	74.0	22.4	H
17508.5	56.6	Peak	88.2	31.6	H
17508.5	45.6	RMS	68.2	22.6	V
23346.0	45.4	RMS	68.2	22.8	V
23348.9	54.9	Peak	88.2	33.3	V

Radiated Spurious – CH173

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3372.0	46.2	RMS	68.2	22.0	H
3384.5	59.0	Peak	88.2	29.2	H
11713.3	57.0	Peak	74.0	17.0	H
11713.3	50.2	Average	54.0	3.8	H
17569.8	45.6	RMS	68.2	22.6	H
17571.3	55.5	Peak	88.2	32.7	V
23424.9	51.9	Peak	88.2	36.3	V
23426.3	42.6	RMS	68.2	25.6	V

Radiated Spurious – CH177

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3377.0	59.2	Peak	88.2	29.0	V
3377.0	46.6	RMS	68.2	21.6	H
11753.4	43.0	Average	54.0	11.0	V
11753.9	51.6	Peak	74.0	22.4	V
17630.3	43.8	RMS	68.2	24.4	H
17630.7	52.1	Peak	88.2	36.1	H
23505.6	50.0	Peak	88.2	38.2	V
23505.6	36.9	RMS	68.2	31.3	V

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3370.5	59.1	Peak	88.2	29.1	H
3371.5	46.6	RMS	68.2	21.6	H
11634.5	51.1	Peak	74.0	22.9	H
11634.5	40.8	Average	54.0	13.2	H
17449.5	57.6	Peak	88.2	30.6	H
17451.4	48.2	RMS	68.2	20.0	H
39662.5	56.6	Peak	74.0	17.4	H
39678.9	46.2	Average	54.0	7.8	H

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3392.5	46.4	RMS	68.2	21.8	V
3394.0	58.3	Peak	88.2	29.9	V
11713.8	50.5	Average	54.0	**3.5**	H
11715.7	58.1	Peak	74.0	15.9	H
17570.3	44.5	RMS	68.2	23.7	H
17571.8	54.4	Peak	88.2	33.8	V
39675.0	46.6	Average	54.0	7.4	H
39677.9	57.9	Peak	74.0	16.1	V

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3377.0	58.5	Peak	88.2	29.8	H
3379.5	46.1	RMS	68.2	22.1	V
11634.0	38.5	Average	54.0	15.5	H
11635.0	49.2	Peak	74.0	24.8	V
17451.4	57.7	Peak	88.2	30.5	H
17451.4	48.6	RMS	68.2	19.6	H
23268.6	42.2	RMS	68.2	26.0	V
23268.6	53.0	Peak	88.2	35.2	V

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3395.5	46.1	RMS	68.2	22.1	V
3397.5	57.8	Peak	88.2	30.4	H
17569.8	56.0	Peak	88.2	32.2	V
17571.3	47.4	RMS	68.2	20.8	V
23428.2	43.5	RMS	68.2	24.7	V
23431.0	53.1	Peak	88.2	35.1	V

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

Radiated Spurious – CH167

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3375.0	58.4	Peak	88.2	29.8	H
3375.0	46.4	RMS	68.2	21.8	V
11633.5	55.9	Peak	74.0	18.1	V
11633.5	50.0	Average	54.0	4.0	V
17452.9	57.0	Peak	88.2	11.2	V
23267.6	57.4	Peak	88.2	30.8	V
23268.1	47.7	RMS	68.2	20.5	V
23291.2	50.5	Peak	88.2	37.7	V
23291.2	40.3	RMS	68.2	27.9	V

Radiated Spurious – CH175

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3397.0	46.2	RMS	68.2	22.0	H
3398.0	58.5	Peak	88.2	29.7	H
11713.8	56.1	Peak	74.0	17.9	H
11713.8	47.5	Average	54.0	6.5	H
17570.8	59.5	Peak	88.2	28.7	V
17570.8	48.8	RMS	68.2	19.4	V
23428.2	39.3	RMS	68.2	28.9	V
23429.1	50.7	Peak	88.2	37.5	V

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

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3388.0	46.1	RMS	68.2	22.1	V
3389.5	58.8	Peak	88.2	29.4	H
11721.5	49.5	Peak	74.0	24.5	V
11722.5	39.6	Average	54.0	14.4	H
27339.9	49.9	Peak	88.2	38.3	V
27339.9	42.4	RMS	68.2	25.8	V
27739.6	49.3	Peak	88.2	38.9	H
27740.1	41.4	RMS	68.2	26.8	H

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

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3385.0	58.8	Peak	88.2	29.4	H
3387.0	46.4	RMS	68.2	21.8	H
17726.0	53.9	Peak	74.0	20.1	H
17726.9	41.9	Average	54.0	12.1	V
39591.6	58.4	Peak	74.0	15.6	H
39666.4	46.3	Average	54.0	7.7	H

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

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3370.0	46.8	RMS	68.2	21.4	H
3373.5	59.8	Peak	88.2	28.4	H
17857.4	42.8	Average	54.0	11.2	V
17883.5	54.4	Peak	74.0	19.6	V
39985.5	58.0	Peak	74.0	16.0	H
39985.5	47.9	Average	54.0	**6.1**	H

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

Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
6049.0	64.9	Peak	88.2	23.3	V
6049.0	45.3	RMS	68.2	22.9	V
7190.2	49.4	Peak	88.2	38.8	V
7190.2	40.8	RMS	68.2	27.4	V
7268.6	45.3	Peak	74.0	28.7	V
7268.6	36.5	Average	54.0	17.5	V
11474.0	49.8	Average	54.0	**4.2**	V
11475.0	57.6	Peak	74.0	16.4	V
39655.3	46.5	Average	54.0	7.5	H
39671.2	57.6	Peak	74.0	16.4	H

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

Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
5580.5	56.0	Peak	88.2	32.2	H
5581.0	45.2	RMS	68.2	23.0	V
7190.2	40.2	RMS	68.2	28.0	H
7190.7	48.1	Peak	88.2	40.1	H
7268.6	37.2	Average	54.0	16.8	H
7270.0	46.0	Peak	74.0	28.0	H
11474.5	47.7	Average	54.0	6.3	V
11475.0	55.7	Peak	74.0	18.3	H
17210.7	55.9	Peak	88.2	32.3	V
17211.2	47.4	RMS	68.2	20.8	V
22947.9	48.2	Peak	74.0	25.8	H
22947.9	38.3	Average	54.0	15.7	V

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

Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
5424.5	57.8	Peak	74.0	16.2	H
5424.5	46.1	Average	54.0	7.9	H
5580.5	57.6	Peak	88.2	30.6	H
5581.0	47.9	RMS	68.2	20.3	H
6049.4	66.0	Peak	88.2	22.1	H
6049.4	53.1	RMS	68.2	15.1	H
7190.3	49.8	Peak	88.2	38.4	H
7190.3	39.0	RMS	68.2	29.2	H
11473.5	51.6	Peak	74.0	22.4	H
11473.5	42.1	Average	54.0	11.9	H
22947.5	39.6	Average	54.0	14.4	V
22947.9	48.9	Peak	74.0	25.1	V

802.11ac

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3388.0	46.1	RMS	68.2	22.1	V
3389.5	58.8	Peak	88.2	29.4	H
11721.5	49.5	Peak	74.0	24.5	V
11722.5	39.6	Average	54.0	14.4	H
27339.4	49.8	Peak	88.2	38.4	V
27339.9	42.4	RMS	68.2	25.8	V
27739.6	48.3	Peak	88.2	39.9	H
27740.1	41.4	RMS	68.2	26.8	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3385.0	59.1	Peak	88.2	29.1	H
3387.0	46.4	RMS	68.2	21.8	H
17726.0	53.9	Peak	74.0	20.1	H
17726.9	41.9	Average	54.0	12.1	V
39591.6	58.4	Peak	74.0	15.6	H
39666.4	46.3	Average	54.0	7.7	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A+B

Radiated Spurious – CH171

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3370.0	46.8	RMS	68.2	21.4	H
3373.5	59.8	Peak	88.2	28.4	H
17857.4	42.8	Average	54.0	11.2	V
17883.5	54.4	Peak	74.0	19.6	V
39985.5	58.0	Peak	74.0	16.0	H
39985.5	47.9	Average	54.0	**6.1**	H

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A

Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
2952.0	60.5	Peak	88.2	27.8	H
2952.0	47.0	RMS	68.2	21.2	V
17868.5	42.4	Average	54.0	11.6	V
17898.0	53.0	Peak	74.0	21.0	H
39620.1	46.3	Average	54.0	**7.7**	V
39639.8	56.9	Peak	74.0	17.1	V

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain B

Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
2985.0	60.5	Peak	88.2	27.7	V
2985.0	46.9	RMS	68.2	21.3	V
17848.2	42.8	Average	54.0	11.2	V
17850.2	53.1	Peak	74.0	20.9	H
27339.4	49.9	Peak	88.2	38.3	V
27339.9	42.1	RMS	68.2	26.1	V
27739.6	42.1	RMS	68.2	26.1	H
27740.1	49.1	Peak	88.2	39.1	H

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A+B

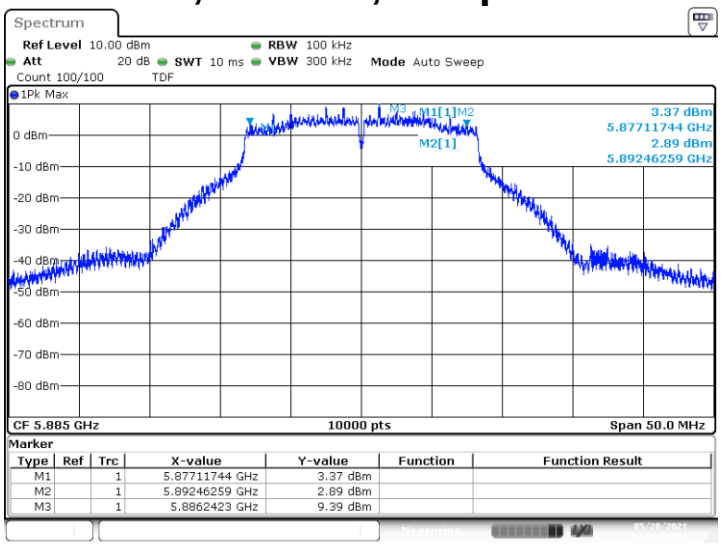
Radiated Spurious – CH163

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
2995.0	59.3	Peak	88.2	28.9	H
2995.0	46.8	RMS	68.2	21.4	V
17865.6	41.7	Average	54.0	12.3	H
17899.5	52.4	Peak	74.0	21.6	V
39899.7	46.3	Average	54.0	7.7	V
39914.7	57.8	Peak	74.0	16.2	V

B.3 Test Results Screenshot

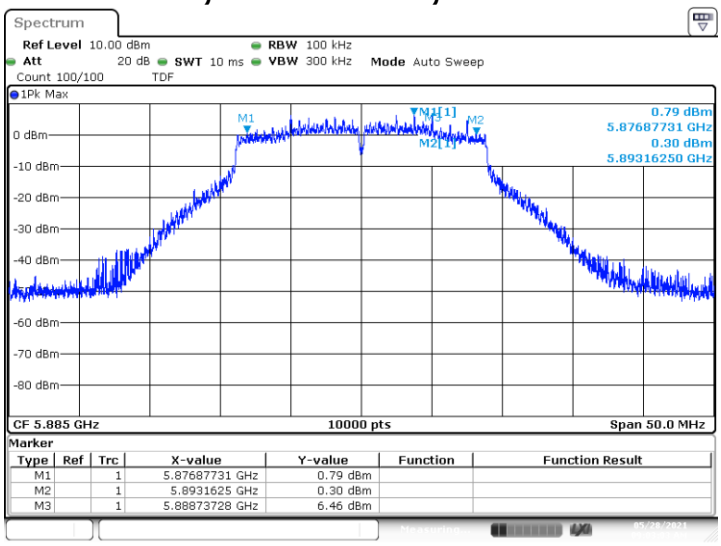
B.3.1 6dB Bandwidth

SISO-B, 802.11a, 6Mbps-CH177



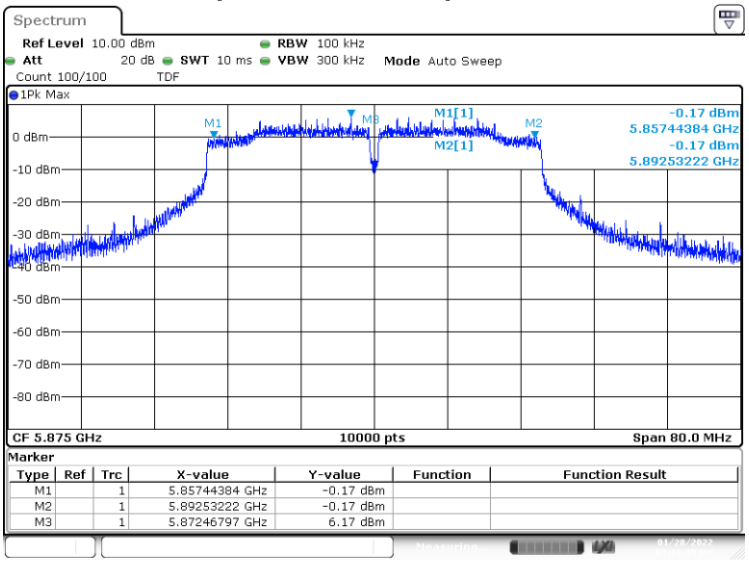
Date: 28.MAY.2021 15:50:53

MIMO-B, 802.11n20, HT8-CH177

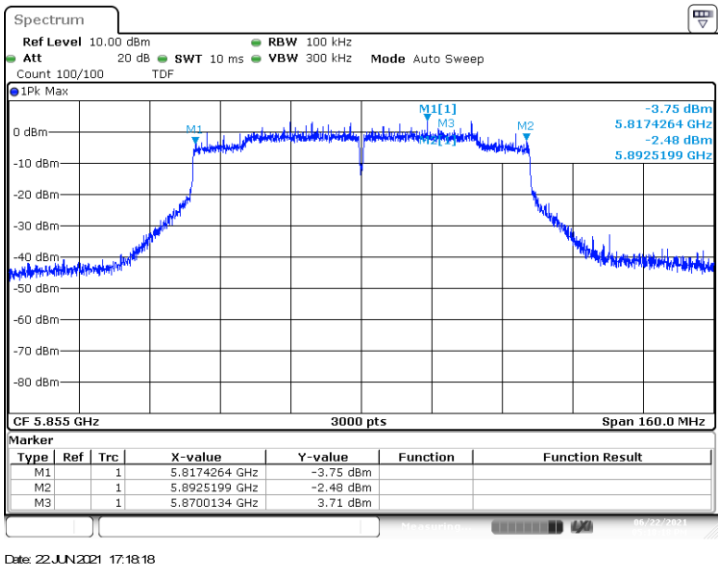


Date: 28.MAY.2021 09:03:04

MIMO-B, 802.11n40, HT8-CH175

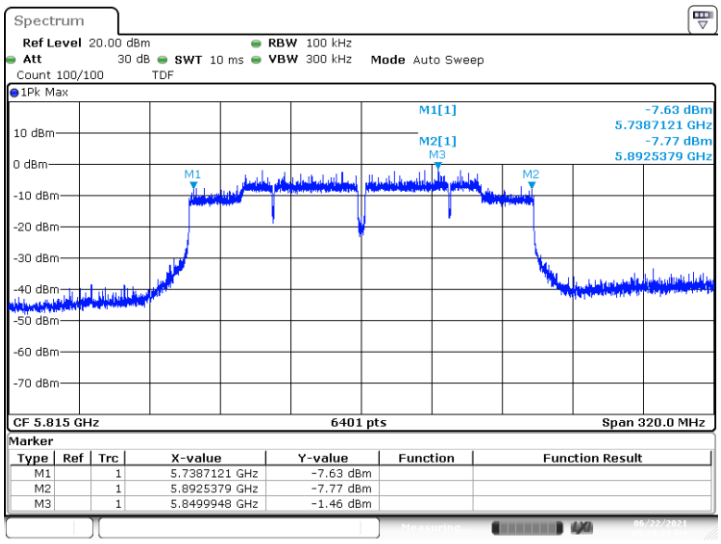


MIMO-B, 802.11ac80, VHT0-CH171



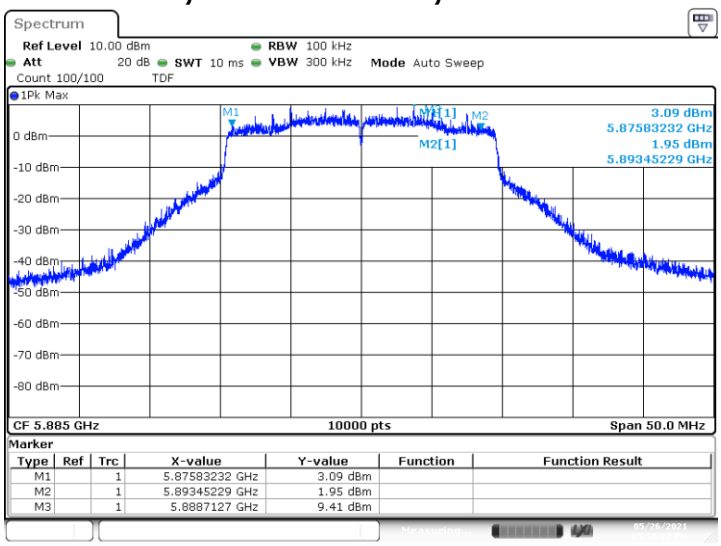
Date: 22.JUN.2021 17:18:18

MIMO-B, 802.11ac160, VHT0-CH163



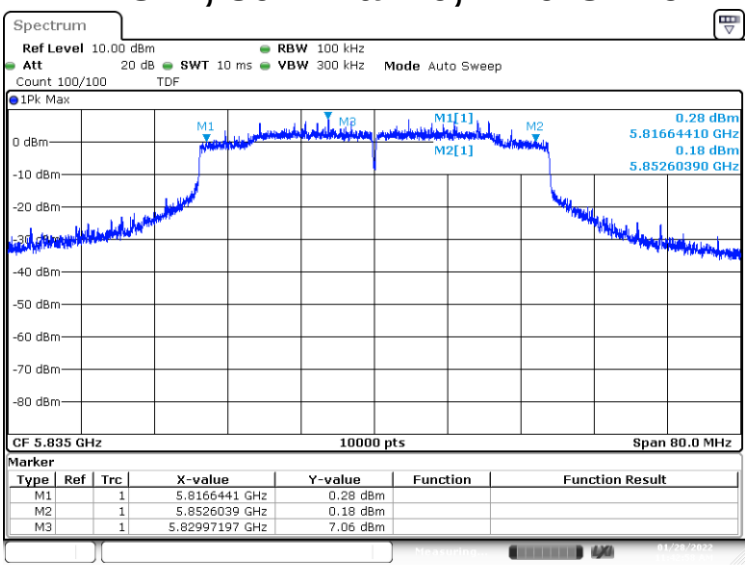
Date: 22.JUN.2021 17:20:35

SISO-A, 802.11ax20, HE0-CH177

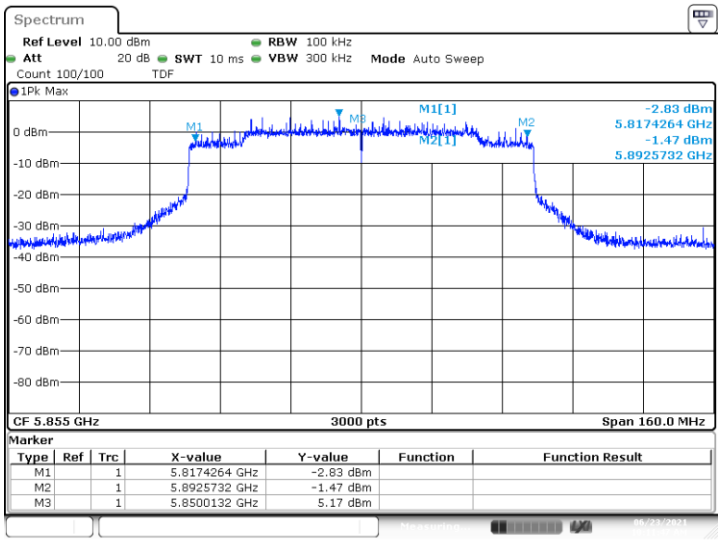


Date: 26.MAY.2021 17:50:12

MIMO-A, 802.11ax40, HE0-CH167

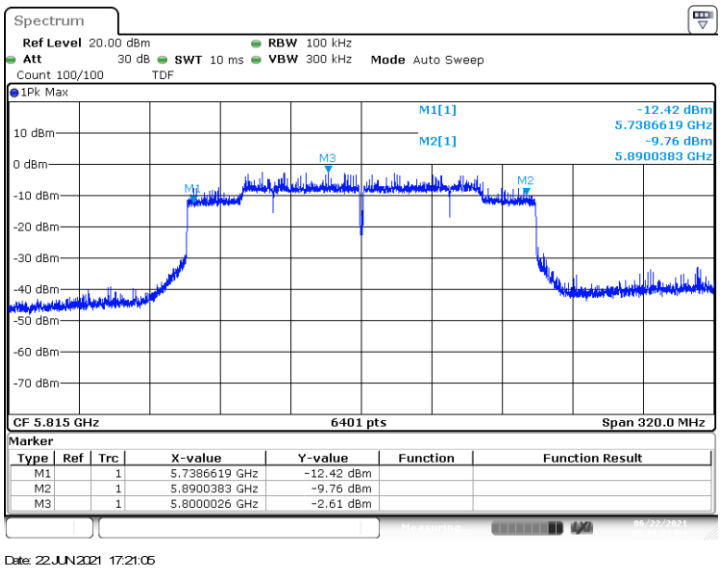


SISO-A, 802.11ax80, HE0-CH171



Date: 23.JUN.2021 10:11:47

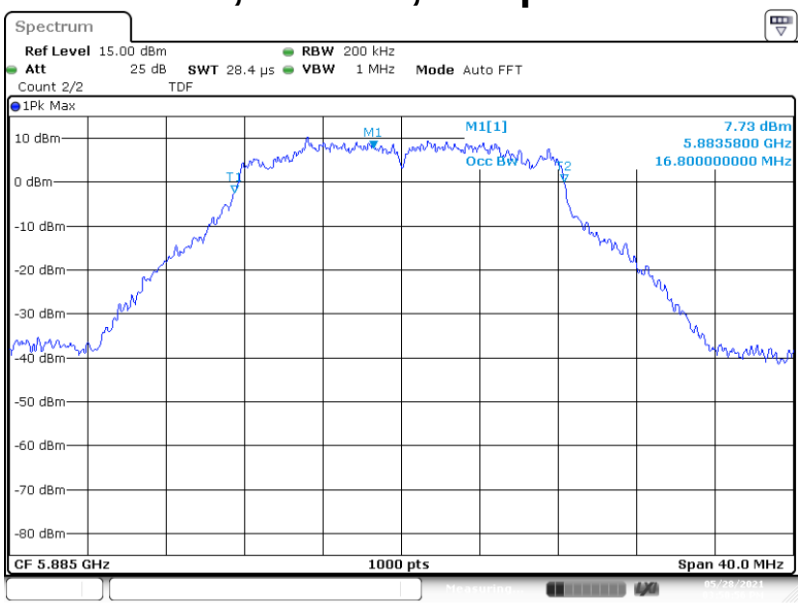
MIMO-B, 802.11ax160, HE0-CH163



Date: 22.JUN.2021 17:21:05

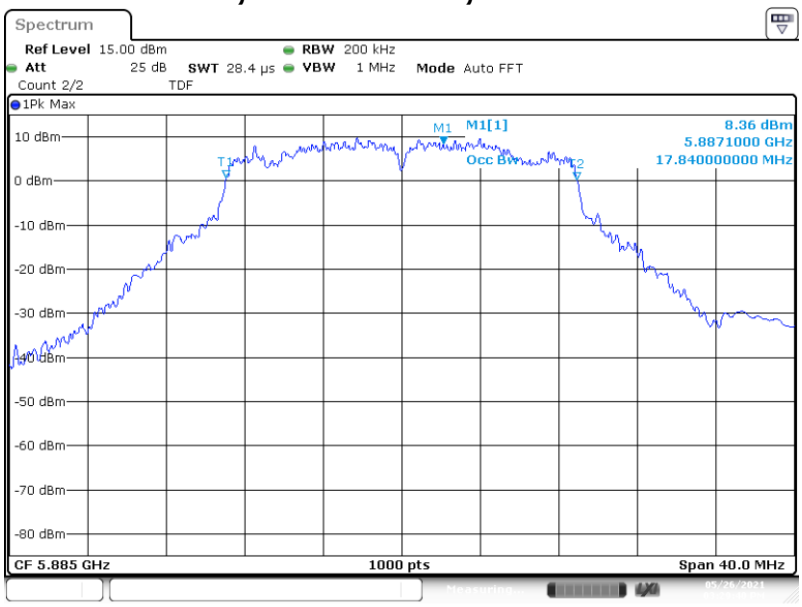
B.3.2 99% Bandwidth

SISO-B, 802.11a, 6Mbps-CH177



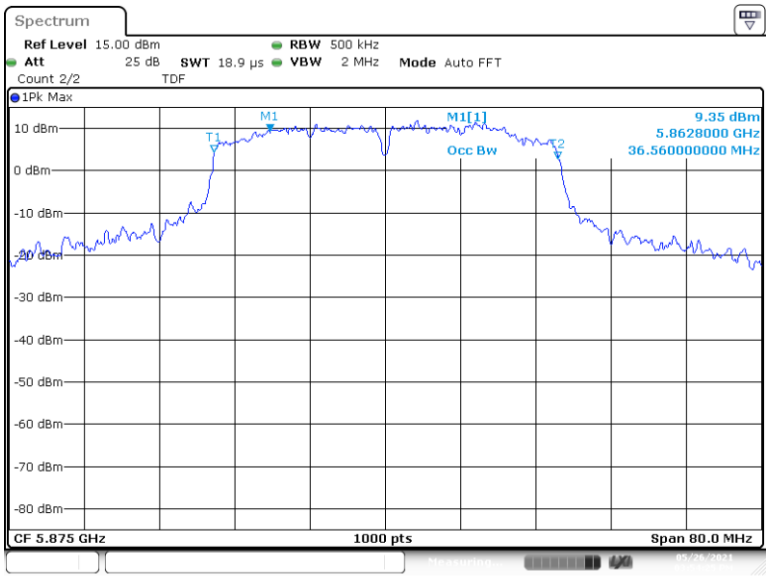
Date: 28.MAY.2021 15:50:56

SISO-A, 802.11n20, HT0-CH177



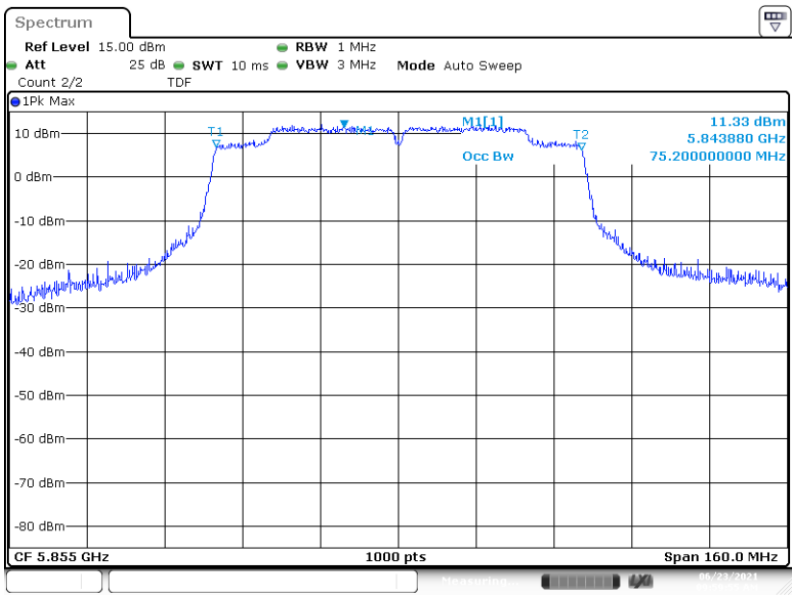
Date: 26.MAY.2021 15:29:40

SISO-A, 802.11n40, HT0-CH175



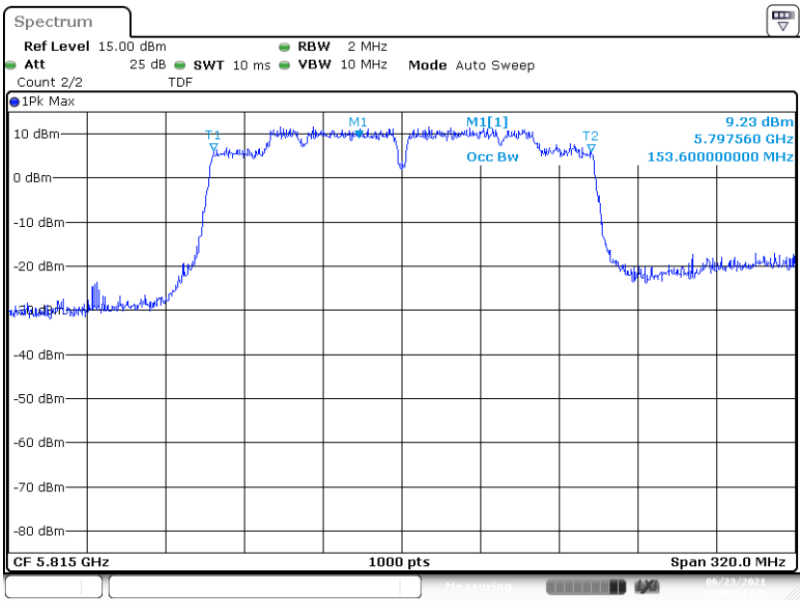
Date: 26.MAY.2021 15:54:25

MIMO-A, 802.11ac80, VHT0-CH171



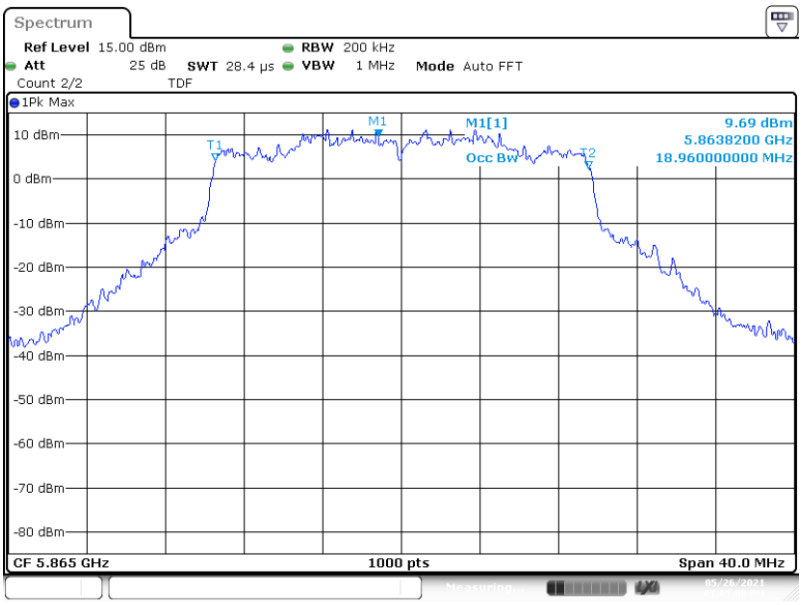
Date: 23.JUN.2021 09:59:55

MIMO-A, 802.11ac160, VHT0-CH163



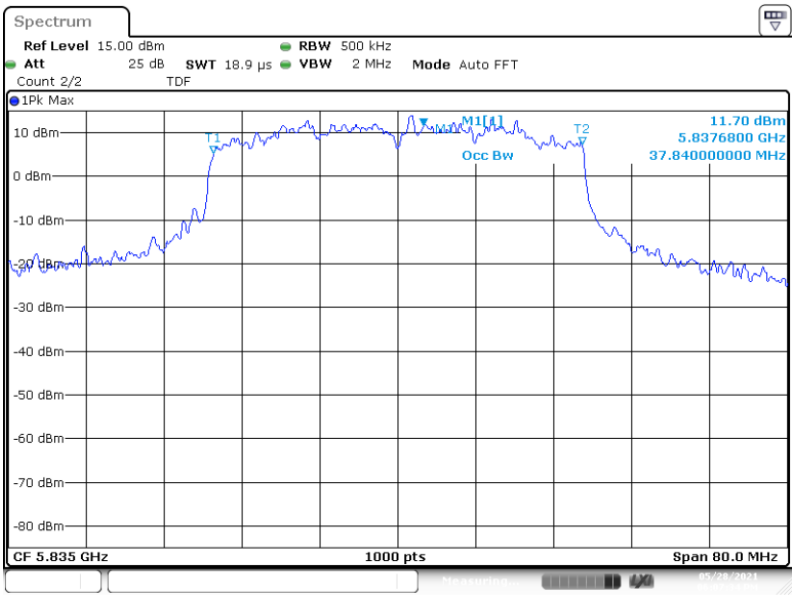
Date: 23.JUN.2021 10:00:24

SISO-A, 802.11ax20, HE0-CH173



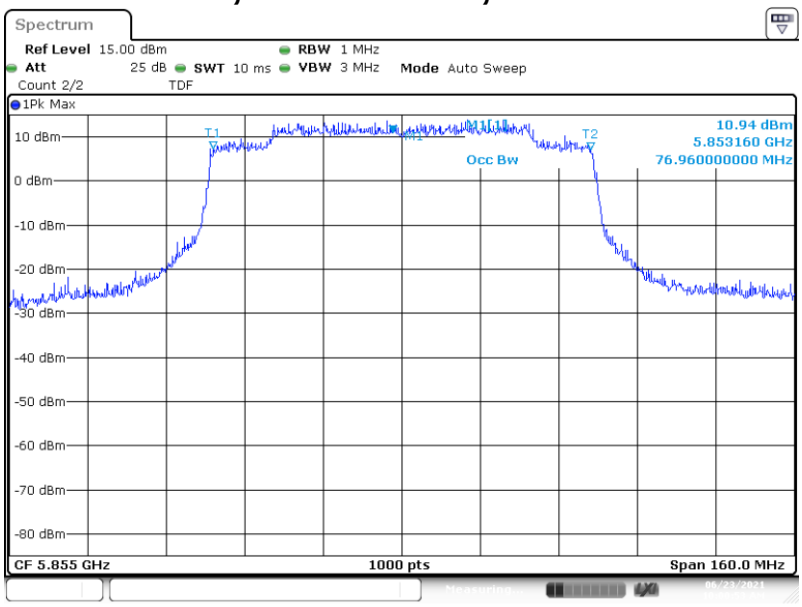
Date: 26.MAY.2021 17:05:00

SISO-B, 802.11ax40, HE0-CH167



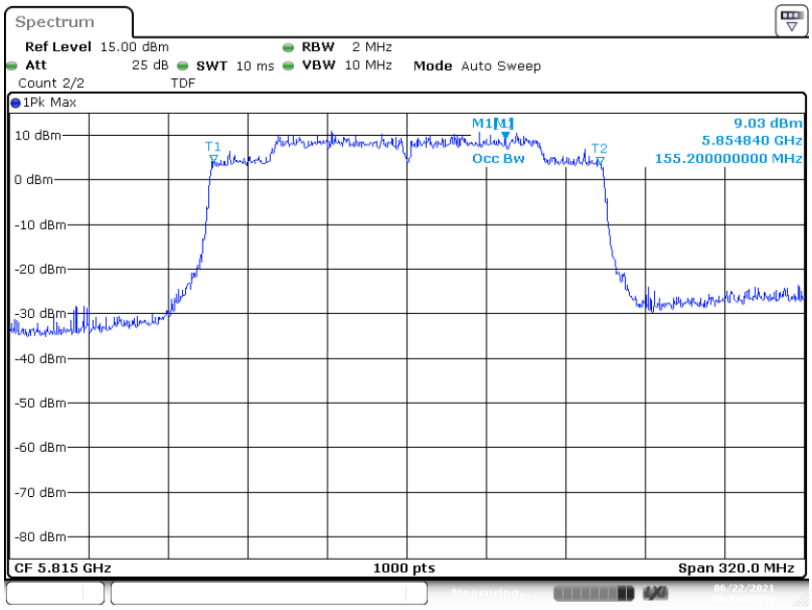
Date: 28.MAY.2021 18:07:35

MIMO-A, 802.11ax80, HE0-CH171



Date: 23.JUN.2021 10:00:53

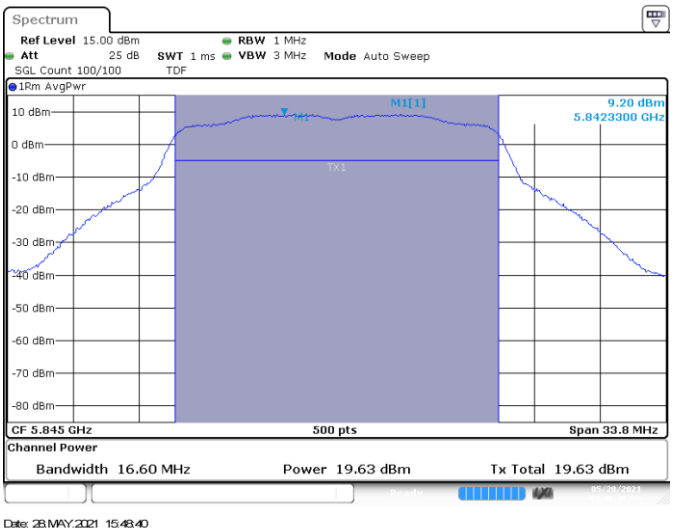
MIMO-B, 802.11ax160, HE0-CH163



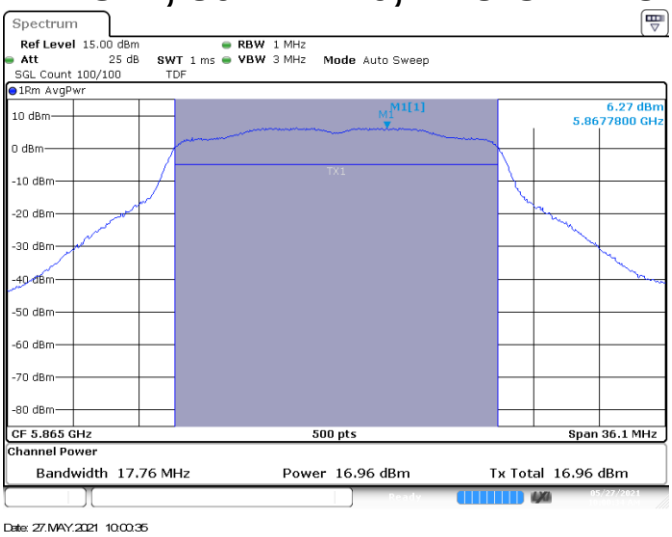
Date: 22.JUN.2021 17:23:03

B.3.3 Maximum output power

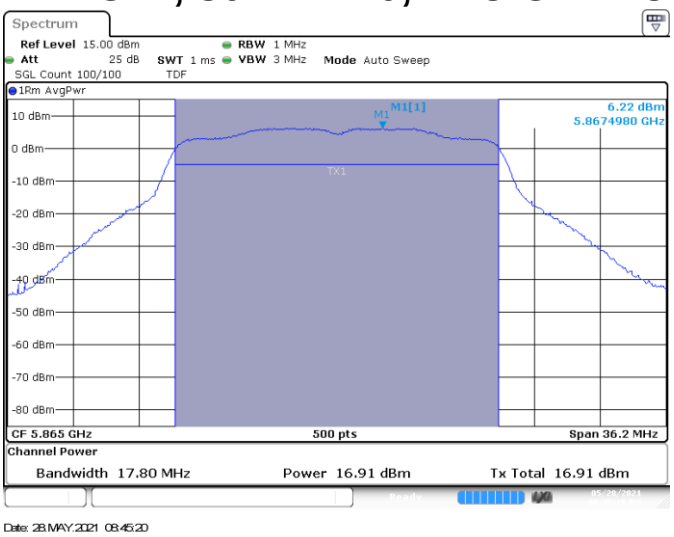
SISO-B, 802.11a, 6Mbps-CH-169



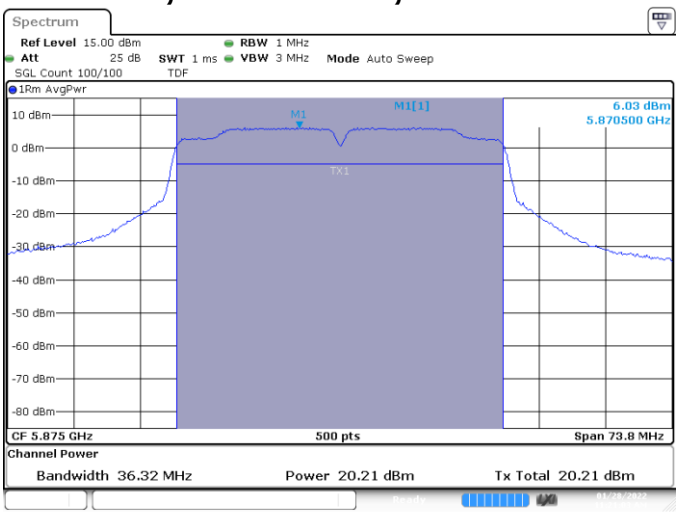
MIMO-A, 802.11n20, HT8-CH-173



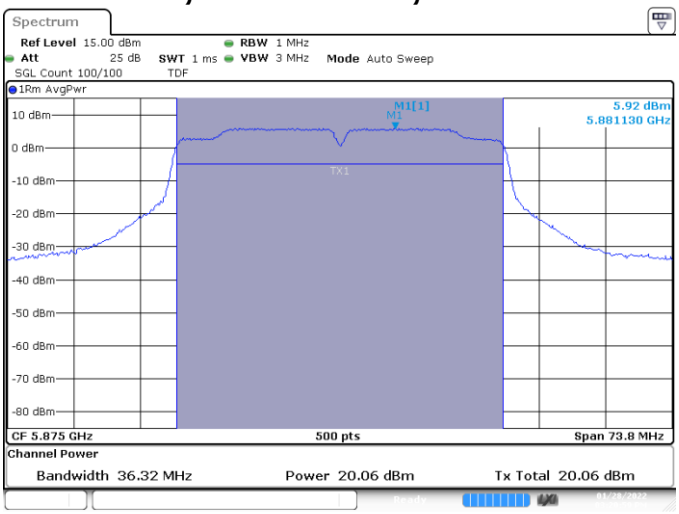
MIMO-B, 802.11n20, HT8-CH-173



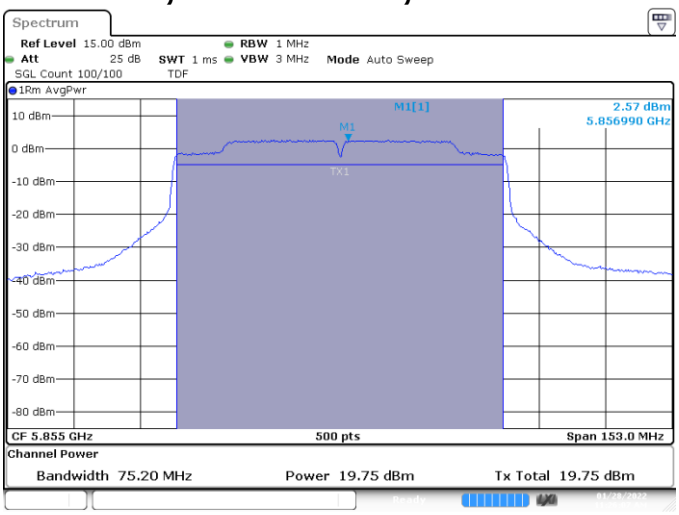
MIMO-A, 802.11n40, HT8-CH-175



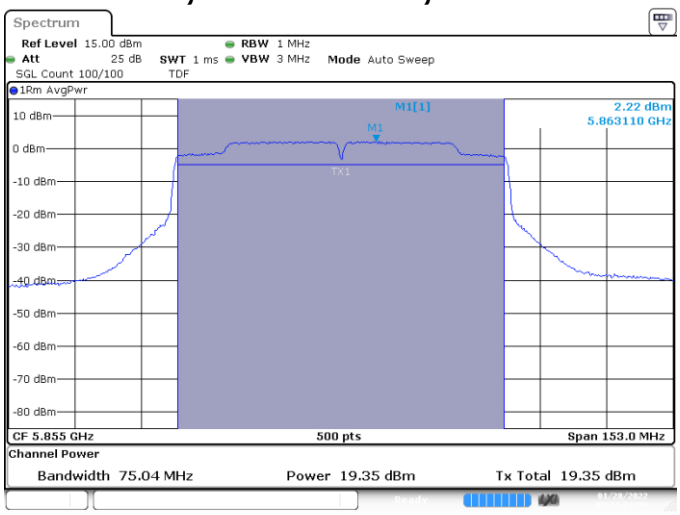
MIMO-B, 802.11n40, HT8-CH-175



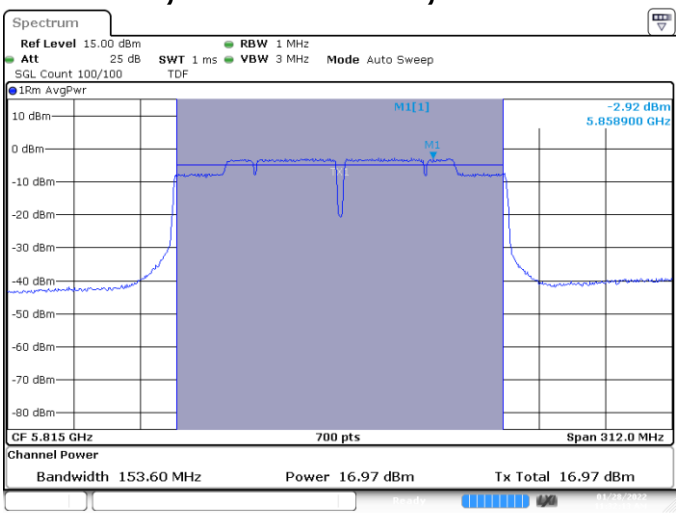
MIMO-A,802.11ac80, VHT0-CH171



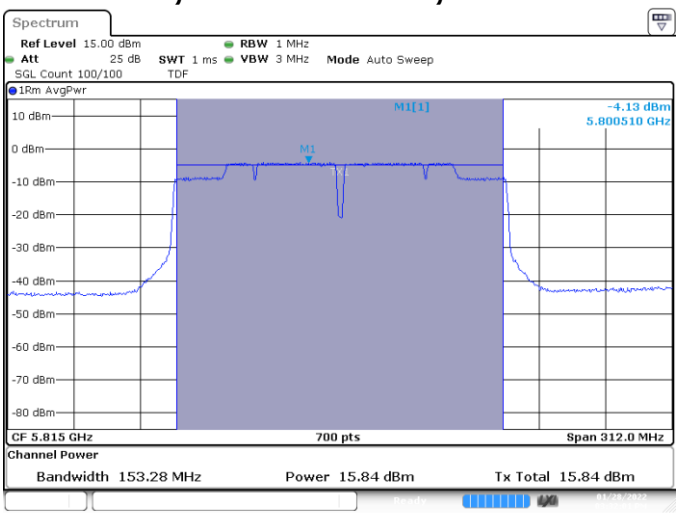
MIMO-B,802.11ac80, VHT0-CH171



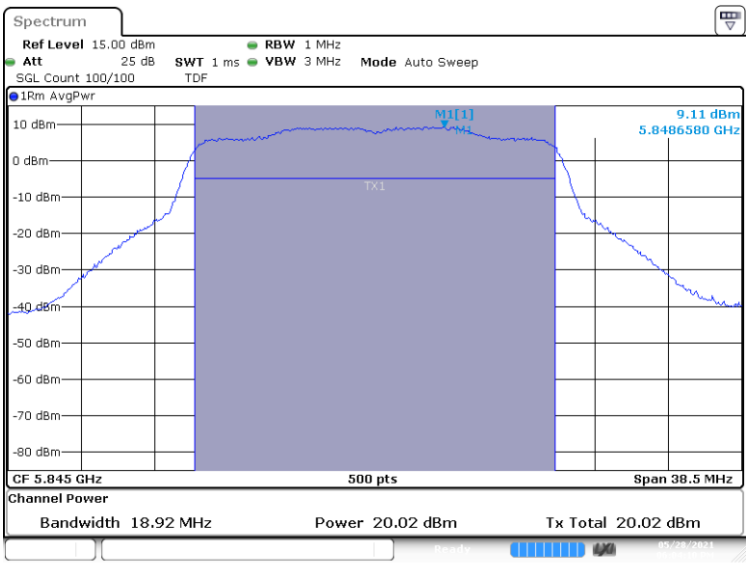
MIMO-A,802.11ac160,VHT0-CH163



MIMO-B,802.11ac160,VHT0-CH163

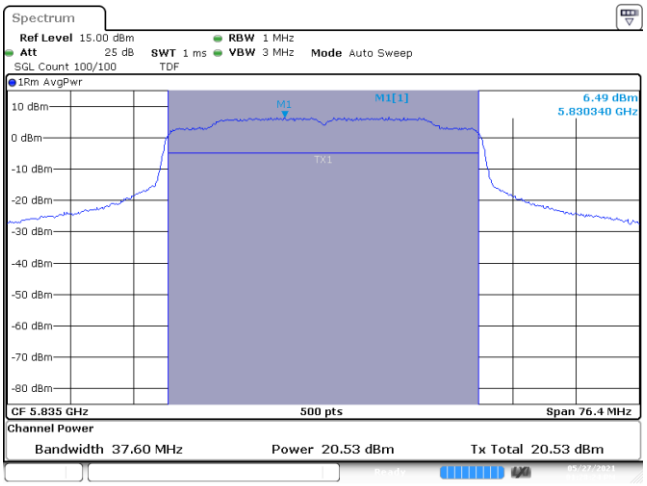


SISO-B, 802.11ax20, HE0-CH-169

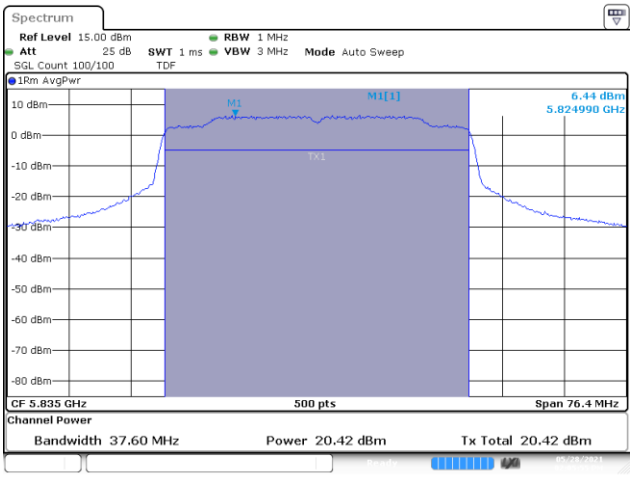


Date: 28.MAY.2021 18:04:10

MIMO-A,802.11ax40,HE0-CH167 MIMO-B,802.11ax40,HE0-CH167

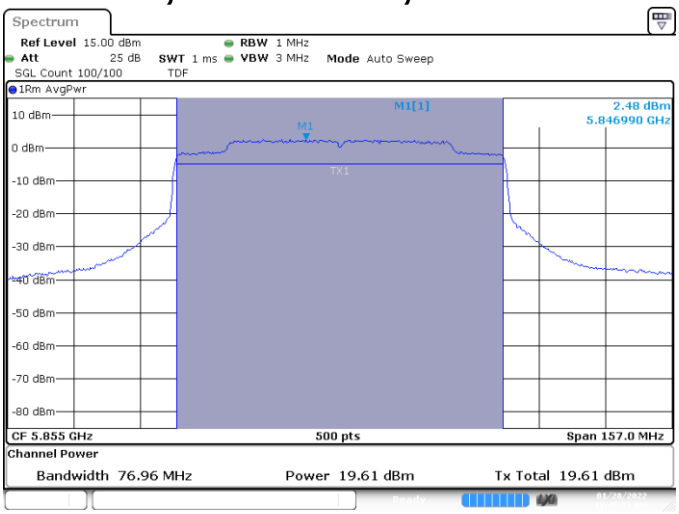


Date: 27.MAY.2021 13:28:24

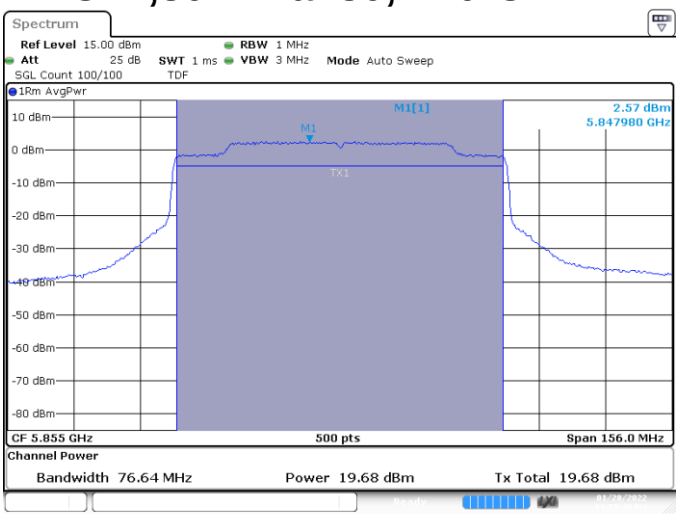


Date: 28.MAY.2021 14:05:56

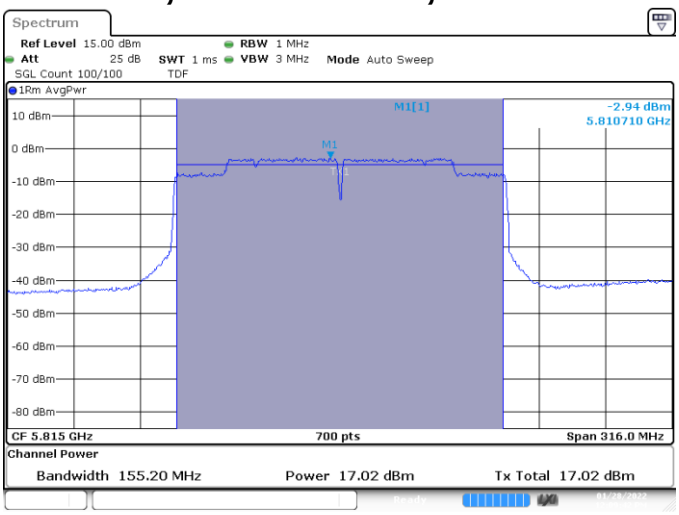
MIMO-A,802.11ax80,HE0-CH171



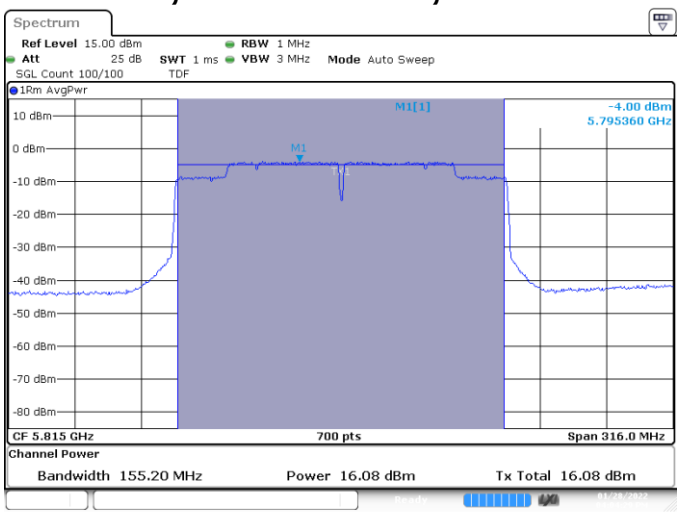
MIMO-B,802.11ax80,HE0-CH171



MIMO-A,802.11ax160,HE0-CH163

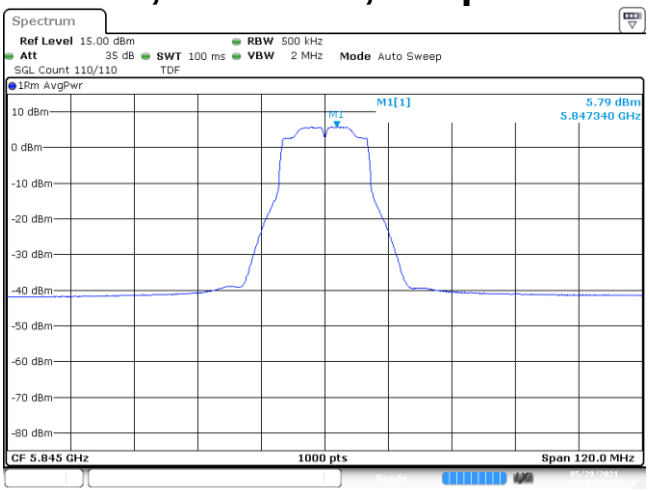


MIMO-B,802.11ax160,HE0-CH163



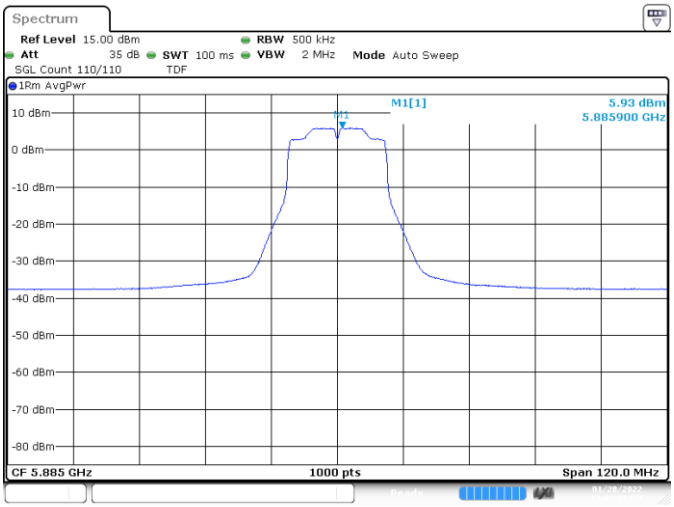
B.3.4 Maximum Power Spectral Density

SISO-B,802.11a20,6Mbps-CH169

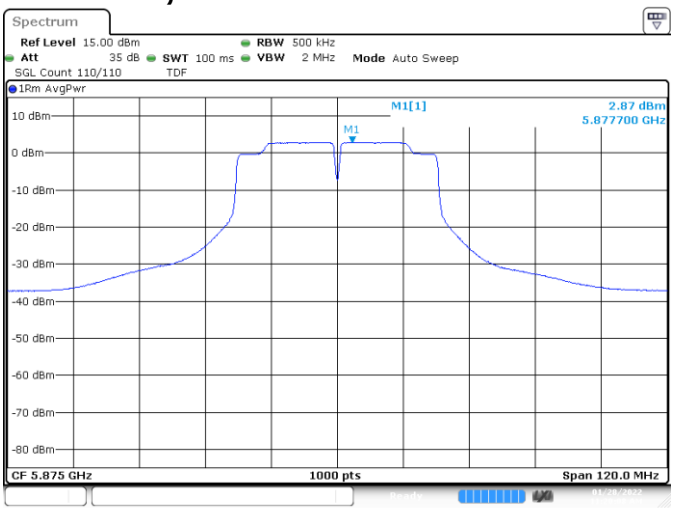


Date: 28.MAY.2021 15:48:54

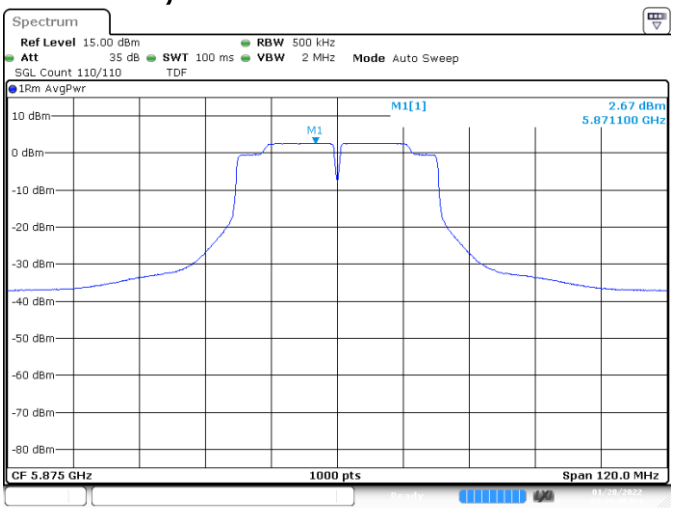
SISO-B,802.11n20-HT0-CH177



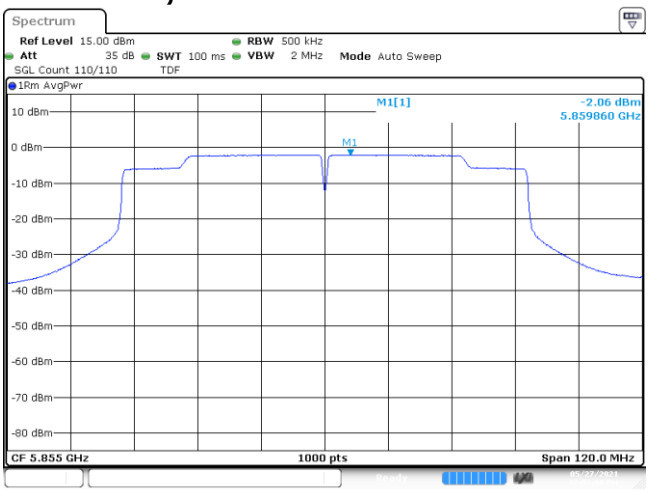
MIMO-A,802.11n40-HT8-CH175



MIMO-B,802.11n40-HT8-CH175

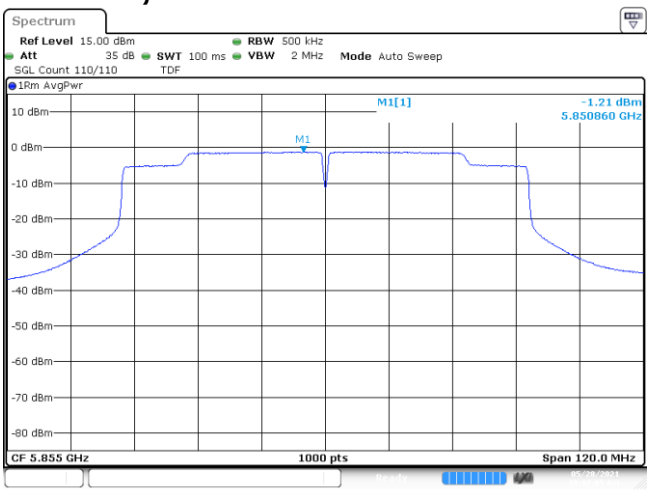


MIMO-A,802.11ac80-VHT0-CH171



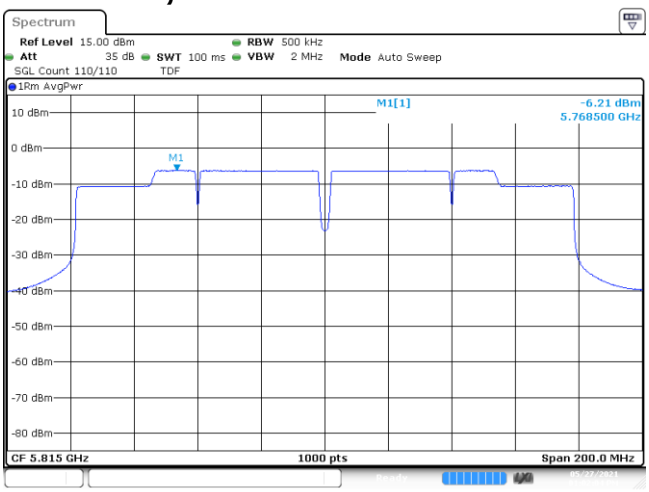
Date: 27.MAY.2021 12:53:01

MIMO-B,802.11ac80-VHT0-CH171



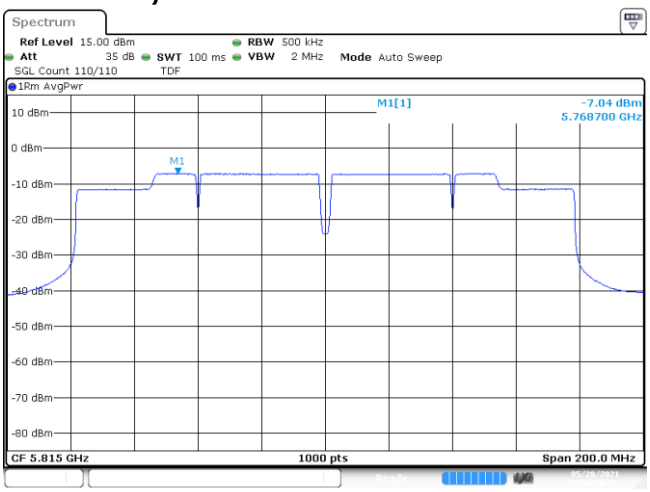
Date: 28.MAY.2021 10:17:05

MIMO-A,802.11ac160-VHT0-CH163



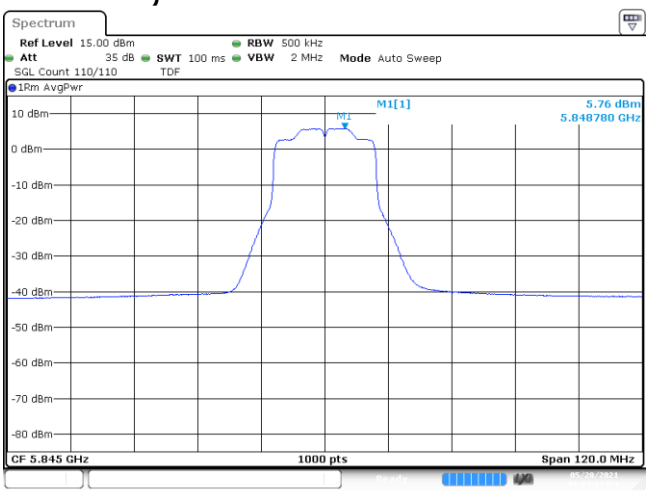
Date: 27.MAY.2021 13:02:04

MIMO-B,802.11ac160-VHT0-CH163



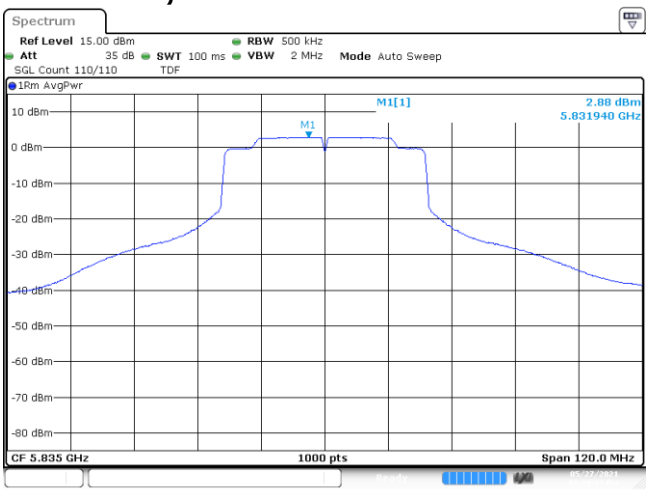
Date: 28.MAY.2021 10:38:10

SISO-B,802.11ax20-HE0-CH169



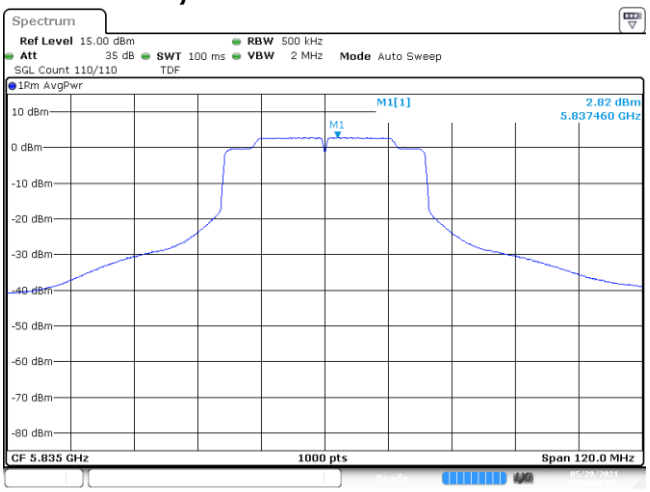
Date: 28.MAY.2021 18:04:24

MIMO-A,802.11ax40-HE0-CH167



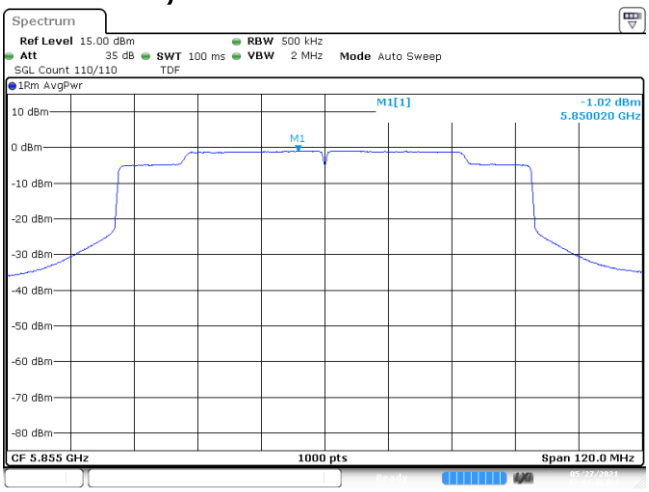
Date: 27.MAY.2021 13:28:37

MIMO-B,802.11ax40-HE0-CH167



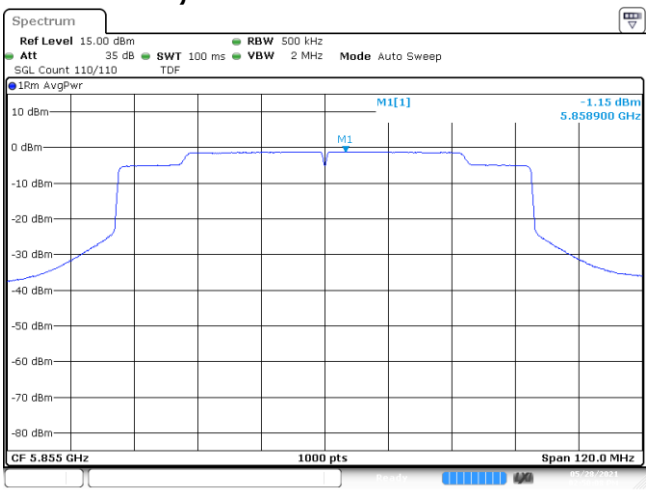
Date: 28.MAY.2021 14:03:09

MIMO-A,802.11ax80-HE0-CH171



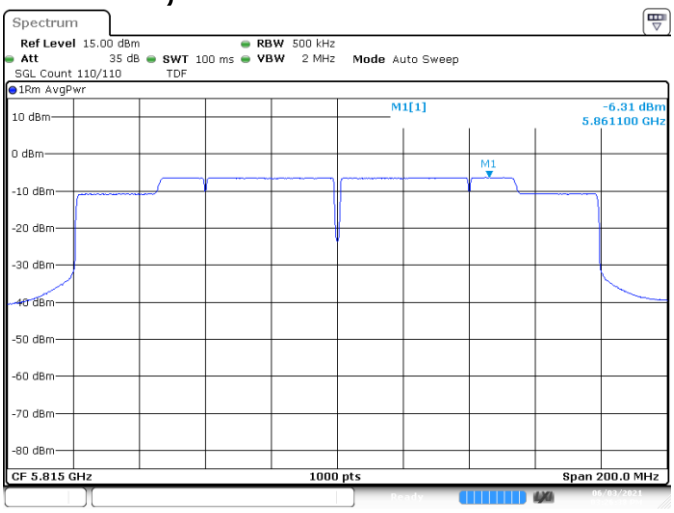
Date: 27.MAY.2021 14:01:47

MIMO-B,802.11ax80-HE0-CH171

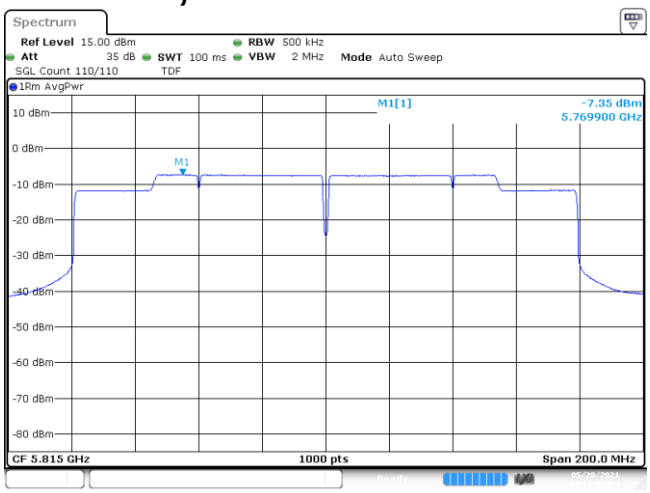


Date: 28.MAY.2021 14:50:08

MIMO-A,802.11ax160-HE0-CH163

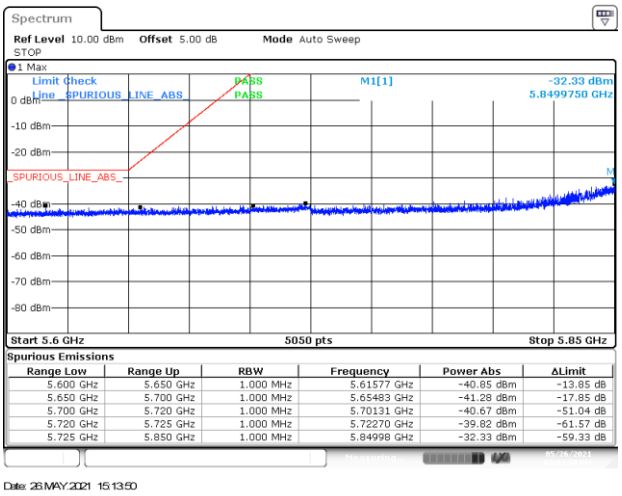


MIMO-B,802.11ax160-HE0-CH163

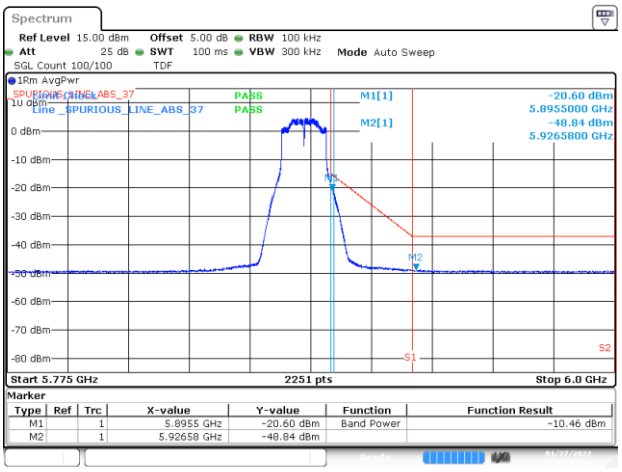


Date: 28.MAY.2021 15:11:33

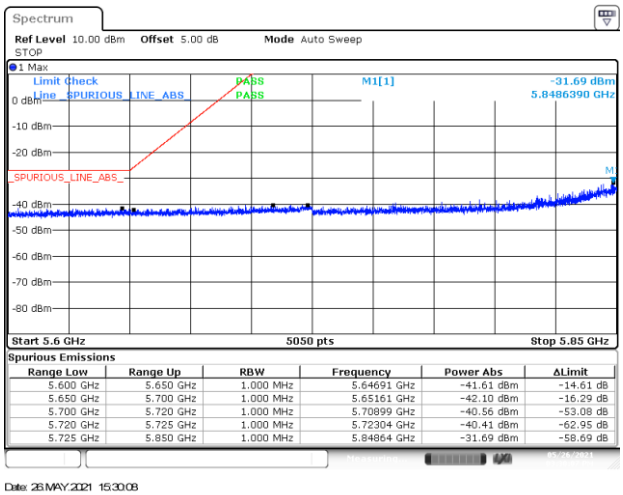
B.3.5 Undesirable emission limits : out of band (Conducted)



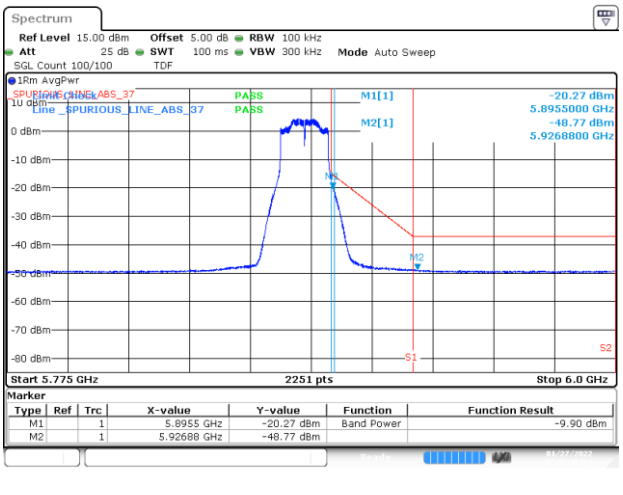
BE-NR-LOW, SISO-A, 802.11a20-6Mbps, Ch177



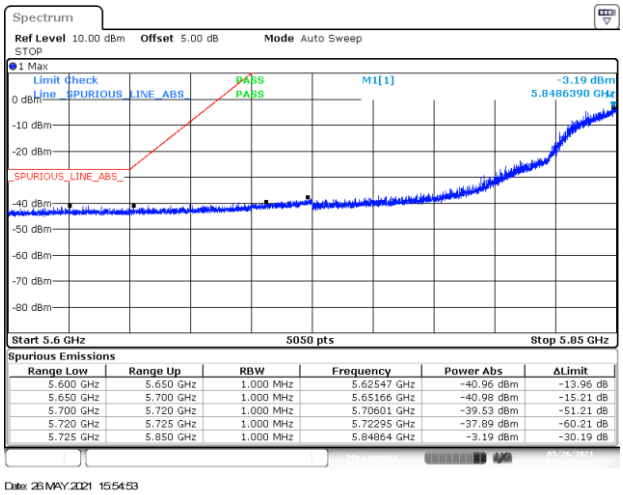
BE-NR-HIGH, SISO-A, 802.11a20-6Mbps, Ch177



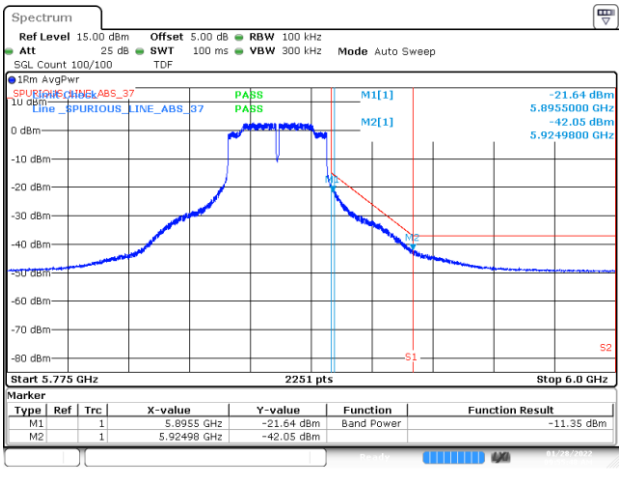
BE-NR-LOW, SISO-A, 802.11n20-HT0, Ch177



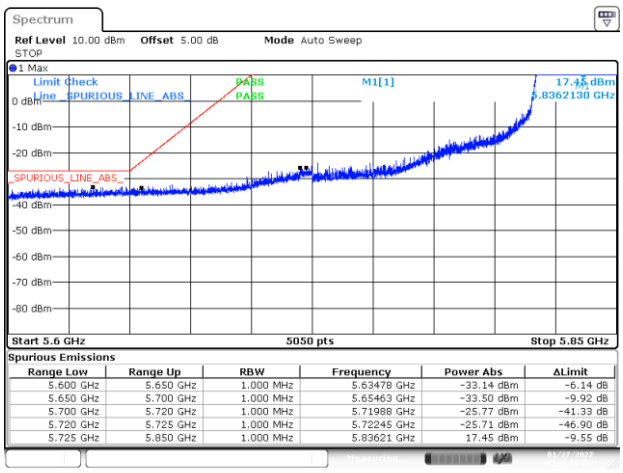
BE-NR-HIGH, SISO-A, 802.11n20-HT0, Ch177



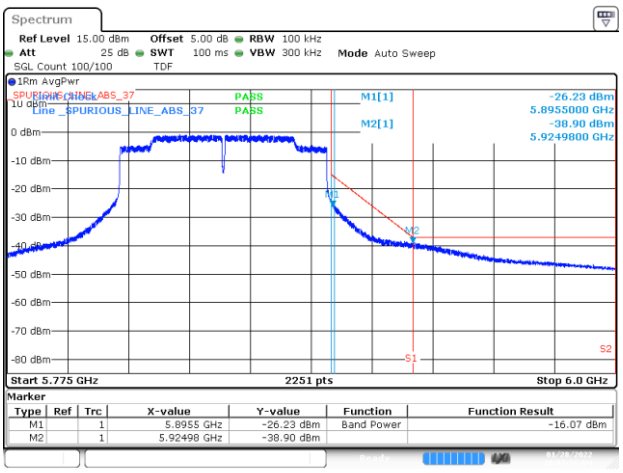
BE-NR-LOW, SISO-A, 802.11n40-HT0, Ch175



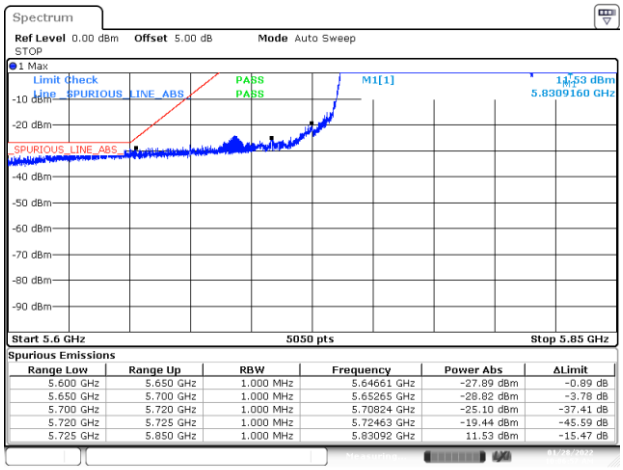
BE-NR-HIGH, SISO-A, 802.11n40-HT0, Ch175



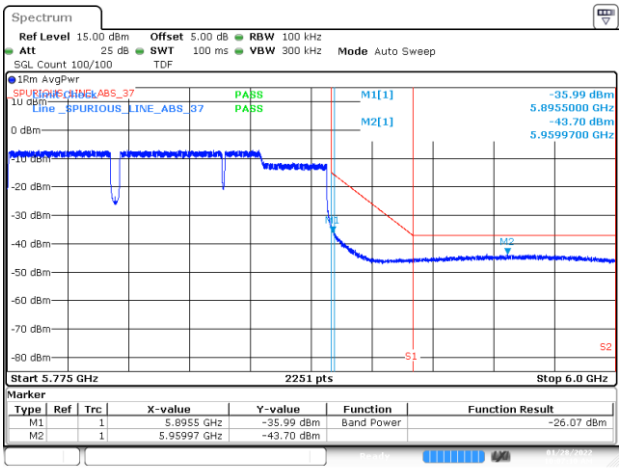
BE-NR-LOW, SISO-A, 802.11ac80-VHT0, Ch171



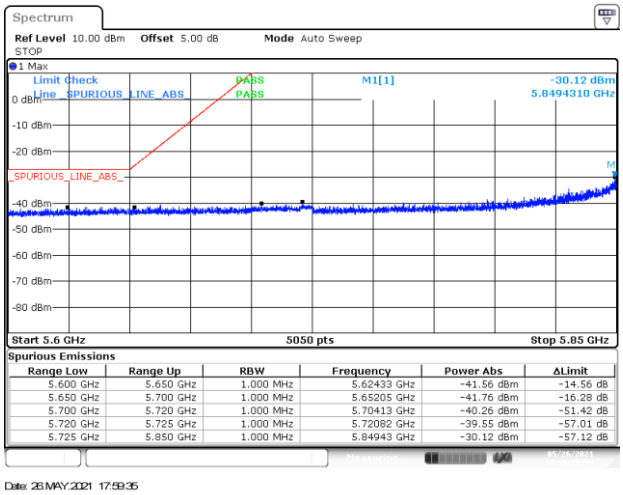
BE-NR-HIGH, SISO-A, 802.11ac80-VHT0, Ch171



BE-NR-LOW, SISO-A, 802.11ac160-VHT0, Ch163

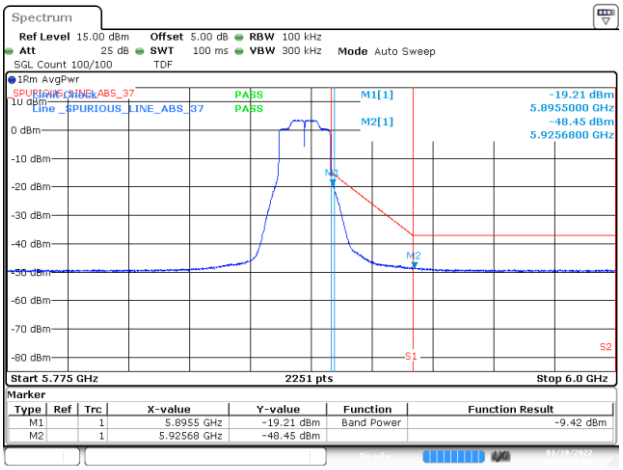


BE-NR-HIGH, SISO-A, 802.11ac160-VHT0, Ch163

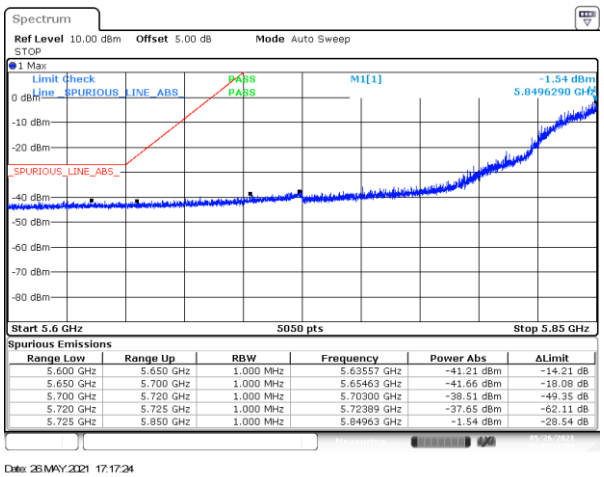


Date: 26.MAY.2021 17:59:35

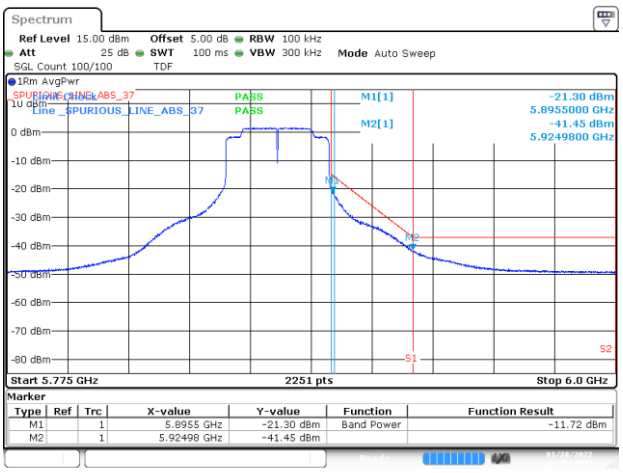
BE-NR-LOW, SISO-A, 802.11ax20-HE0, Ch177



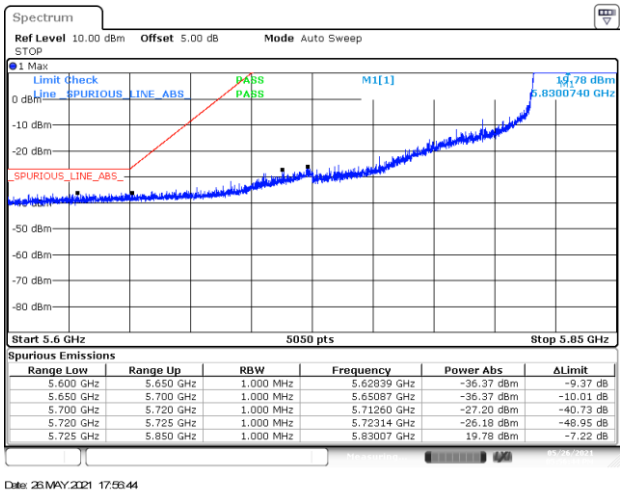
BE-NR-HIGH, SISO-A, 802.11ax20-HE0, Ch177



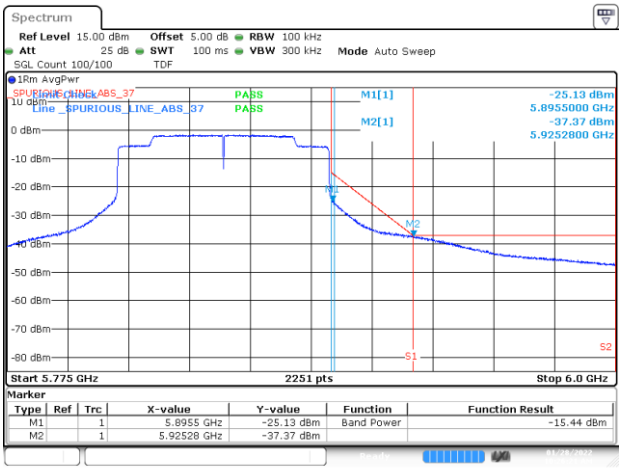
BE-NR-LOW, SISO-A, 802.11ax40-HE0, Ch175



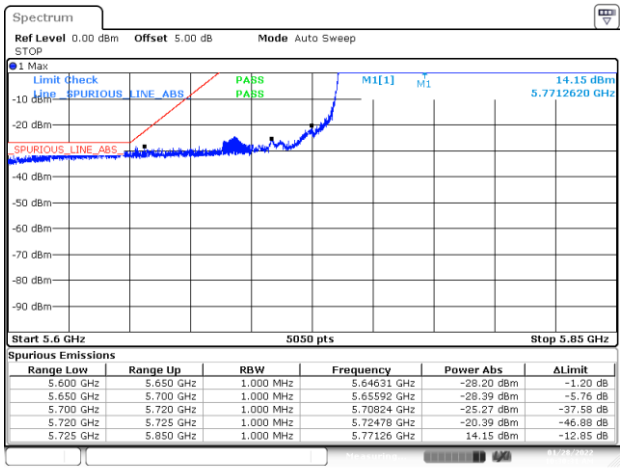
BE-NR-HIGH, SISO-A, 802.11ax40-HE0, Ch175



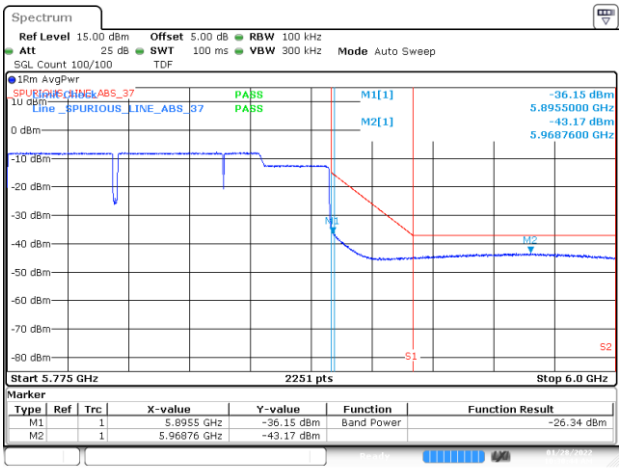
BE-NR-LOW, SISO-A, 802.11ax80-HE0, Ch171



BE-NR-HIGH, SISO-A, 802.11ax80-HE0, Ch171



BE-NR-LOW, SISO-A, 802.11ax160-HE0, Ch163



BE-NR-HIGH, SISO-A, 802.11ax160-HE0, Ch163