

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25TVWY 001	Auftrags-Nr.: <i>Order no.:</i>	48273452	Seite 1 von 35 Page 1 of 35												
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-02-26													
Auftraggeber: <i>Client:</i>	BenQ Corporation 16 Jihu Road, Neihu, Taipei 114, Taiwan															
Prüfgegenstand: <i>Test item:</i>	InstaShow															
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	WDC15T															
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15E Test report (WiFi 5GHz)															
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart E Section 15.407															
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-04-17															
Prüfmuster-Nr.: <i>Test sample no:</i>	A003974860-001 A003974860-011															
Prüfzeitraum: <i>Testing period:</i>	2025-04-21 - 2025-05-17															
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site															
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories															
Prüfergebnis*: <i>Test result*:</i>	Pass															
überprüft von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>															
Datum: <i>Date:</i>	2025-06-02	Ausstellungsdatum: <i>Issue date:</i>	2025-06-02													
Stellung / Position:	Allen Yu Section Manager	Stellung / Position:	Brenda Chen Senior Project Manager													
Sonstiges / Other:																
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>														
<table><tr><td>* Legende:</td><td>1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)</td><td>2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td><td>3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td><td>4 = ausreichend N/A = nicht anwendbar</td><td>5 = mangelhaft N/T = nicht getestet</td></tr><tr><td>* Legend:</td><td>1 = very good P(ass) = passed a.m. test specification(s)</td><td>2 = good F(ail) = failed a.m. test specification(s)</td><td>3 = satisfactory F(ail) = failed a.m. test specification(s)</td><td>4 = sufficient N/A = not applicable</td><td>5 = poor N/T = not tested</td></tr></table>					* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet	* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
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Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>																

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.407(a) & 15.203	Antenna Requirement	Pass
5.1.2	15.407(a)	Maximum Conducted Output Power	Pass
-	15.407(h)(1)	Transmit Power Control (TPC)	N/A
5.1.3	15.407(a)	26 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.407(e)	6 dB Bandwidth (U-NII-3 Band only)	Pass
5.1.5	15.407(g)	Frequency Stability	Pass
5.1.6	15.407(a)	Power Spectral Density	Pass
5.1.7	15.407(b) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
-	15.407(h) & KDB 905462 D02	Dynamic Frequency Selection	N/A
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX B - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2025-06-02

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart E Section 15.407
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a InstaShow. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	InstaShow
Type Identification	WDC15T
FCC ID	JVPWDC15T

Technical Specification of EUT

Item	EUT information
Operating Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 4: 5745 MHz ~ 5825 MHz
Channel Number	Band 1: 4 for 802.11a, 802.11n HT20, 802.11ac VHT20 2 for 802.11n HT40, 802.11ac VHT40 1 for 802.11ac VHT80 Band 4: 5 for 802.11a, 802.11n HT20, 802.11ac VHT20 2 802.11n HT40, 802.11ac VHT40 1 for 802.11ac VHT80
Data Rate	802.11a: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7 802.11ac: up to MCS9
Operation Voltage	5 Vdc
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Maximum Output Power (mW)	5180 ~ 5240 MHz: 72.78 5745 ~ 5825 MHz: 33.57
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

802.11a		802.11n HT20 802.11ac VHT20		802.11n HT40 802.11ac VHT40		802.11ac VHT80	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
36	56	36	56	38	44	42	42
40	56	40	56	46	56	155	50
48	56	48	56	151	50		
149	50	149	50	159	50		
157	50	157	50				
165	50	165	50				

4.2 Carrier Frequency and Channel

Band	Channel	Frequency (MHz)	802.11a 802.11n HT20 802.11ac VHT20	802.11n HT40 802.11ac VHT40	802.11ac VHT80
U-NII-1 (Band 1)	36	5180	V		
	38	5190		V	
	40	5200	V		
	42	5210			V
	44	5220	V		
	46	5230		V	
	48	5240	V		
U-NII-3 (Band 4)	149	5745	V		
	151	5755		V	
	153	5765	V		
	155	5775			V
	157	5785	V		
	159	5795		V	
	161	5805	V		
	165	5825	V		

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with UART interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	Tera Term
---------------	-----------

The samples were used as follows:

A003974860-001

A003974860-011

Full test was applied on all test modes, but only worst case was shown.

The EUT provides one transmitter and receiver.

Modulation Mode	Tx Function
802.11a	1TX
802.11n HT20	1TX
802.11n HT40	1TX
802.11ac VHT20	1TX
802.11ac VHT40	1TX
802.11ac VHT80	1TX

* The modulation and bandwidth are similar for 802.11n mode HT20/HT40 and 802.11ac mode VHT20/VHT40, therefore investigated worse case as representative mode in test report.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	6.0
-		5745-5825	149 to 165	149, 157, 165	
-	802.11n HT20 (Power only)	5180-5240	36 to 48	36, 40, 48	MCS0
-		5745-5825	149 to 165	149, 157, 165	
-	802.11n HT40 (Power only)	5180-5240	38 to 46	38, 46	MCS0
-		5745-5825	151 to 159	151, 159	
-	802.11ac VHT20	5180-5240	36 to 48	36, 40, 48	NSS1 MCS0
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ac VHT40	5180-5240	38 to 46	38, 46	NSS1 MCS0
-		5745-5825	151 to 159	151, 159	
-	802.11ac VHT80	5180-5240	42	42	NSS1 MCS0
-		5745-5825	155	155	

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	6.0
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ac VHT20	5180-5240	36 to 48	36, 40, 48	NSS1 MCS0
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ac VHT40	5180-5240	38 to 46	38, 46	NSS1 MCS0
-		5745-5825	151 to 159	151, 159	
-	802.11ac VHT80	5180-5240	42	42	NSS1 MCS0
-		5745-5825	155	155	

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36	6.0

Mains Conducted Emission Test

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36	6.0

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Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	23.8-24.5 °C	63-65 %	Andy Chen
Radiated Spurious Emissions above 1 GHz	22.6-24.1 °C	53-55 %	Chuan Chu
Radiated Spurious Emissions below 1 GHz	22.6-24.1 °C	53-55 %	Chuan Chu
Mains Conducted Emission	24.2 °C	55 %	Chuan Chu

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

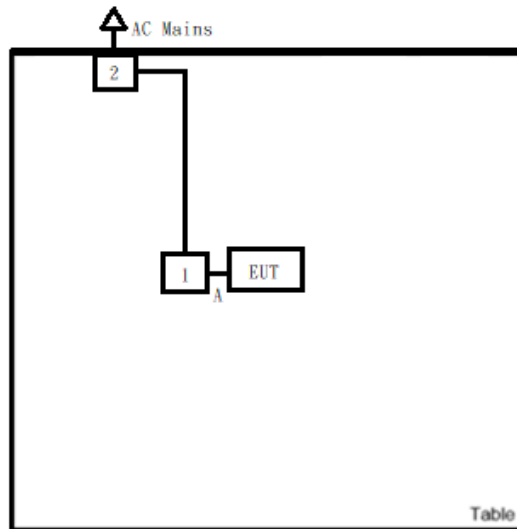
No.	Product	Brand	Model	Description
-	USB-C Cable	WANSIH ELECTRONIC CO.,LTD.	4102-00000111-50U	--
A	HDMI to Type C Cable	WANSIH ELECTRONIC CO.,LTD.	4102-00000111-50U	--

Support Unit

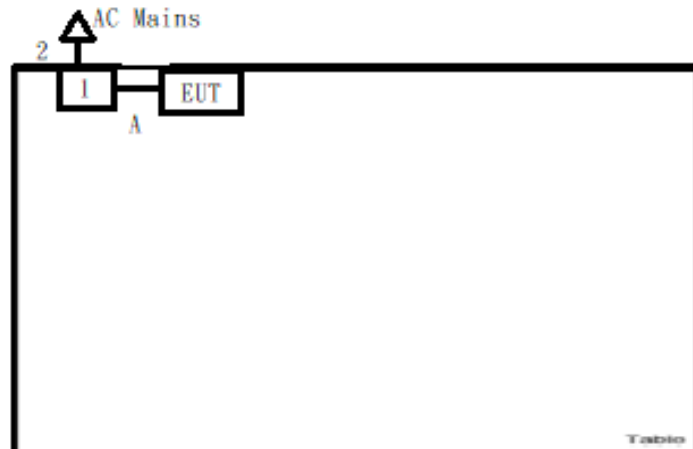
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	Mac mini	APPLE	A3238	N/A	-	-	-	--
2	Power Cord	APPLE	159+C17	N/A	NO	NO	180	--
-	Notebook	LENOVO	TP00094A	PF-1GT015	-	-	-	--
-	UART	JIN HUA	CP2102	NA	-	-	-	--
-	USB Cable	TUV	TUV-06	1	NO	NO	150	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>

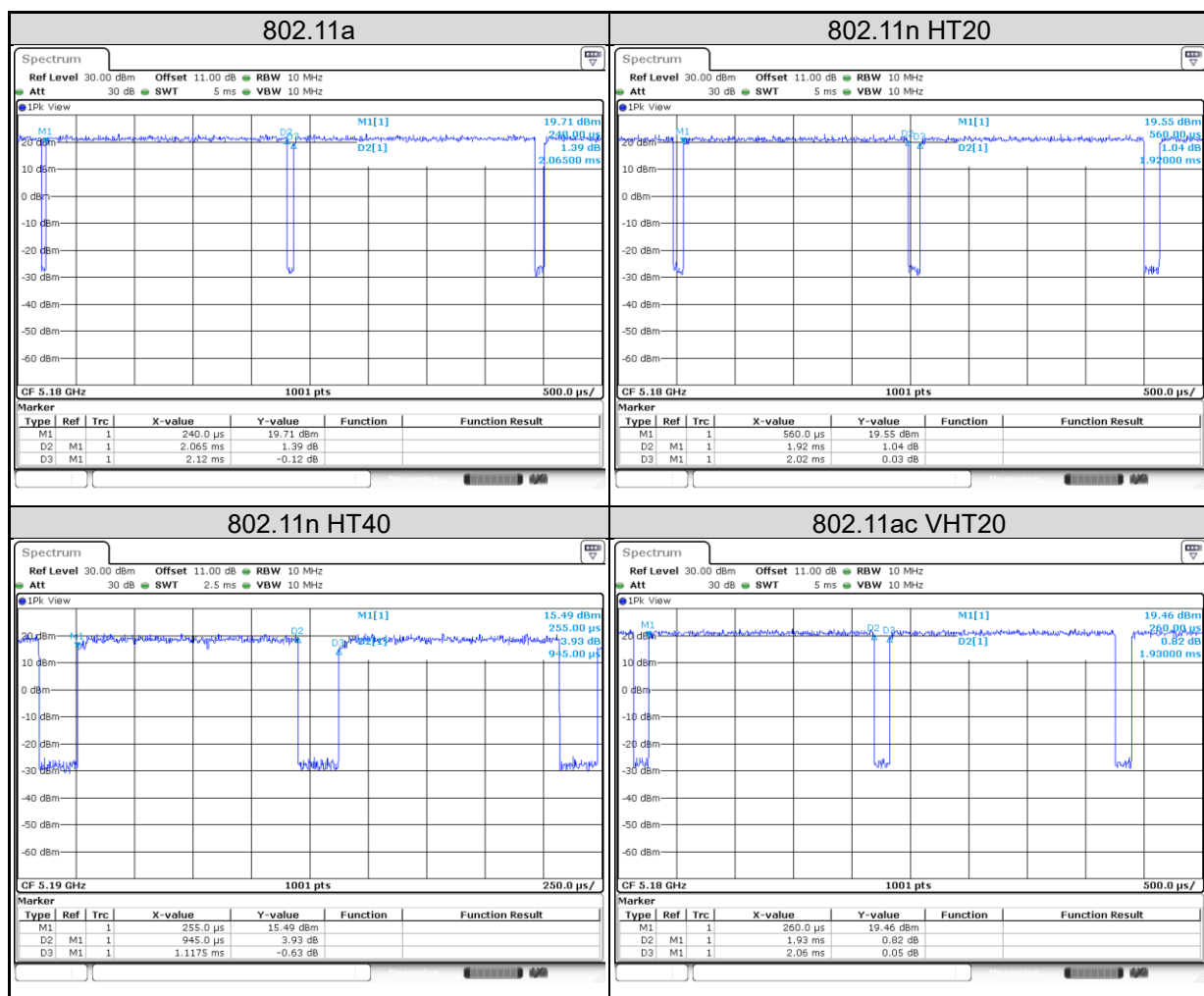


<Mains Conducted Emission mode>



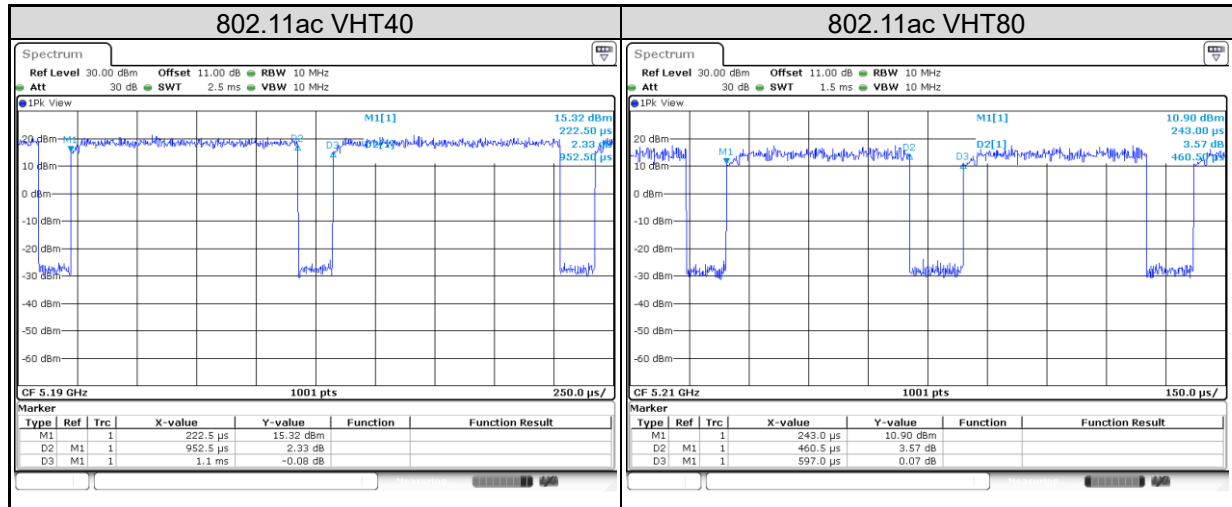
4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	2.120	2.065	97.41	0.11
802.11n HT20	2.020	1.920	95.05	0.22
802.11n HT40	1.118	0.945	84.56	0.73
802.11ac VHT20	2.060	1.930	93.69	0.28
802.11ac VHT40	1.100	0.953	86.59	0.63
802.11ac VHT80	0.597	0.461	77.14	1.13



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Antenna Type	Antenna Gain (dBi)
PIFA Antenna	0.85

Refer to EUT photo for details.

5.1.2 Maximum Conducted Output Power

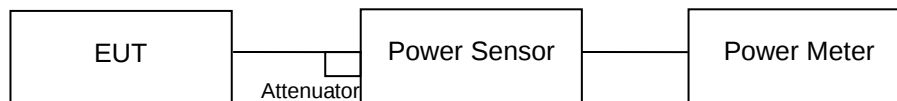
Limit

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-2C	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-3	---	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in megahertz

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2025/02/26	2026/02/25	2025/4/21	2025/5/14
Power Sensor	Anritsu	MA2411B	1725269	2025/02/26	2026/02/25	2025/4/21	2025/5/14

Test Procedures

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

Test Result

<802.11a>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
36	5180	18.62	72.78	24.00
40	5200	18.53	71.29	24.00
48	5240	18.48	70.47	24.00
149	5745	15.26	33.57	30.00
157	5785	14.01	25.18	30.00
165	5825	13.04	20.14	30.00

<802.11n HT20>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
36	5180	18.51	70.96	24.00
40	5200	18.43	69.66	24.00
48	5240	18.38	68.87	24.00
149	5745	14.99	31.55	30.00
157	5785	13.77	23.82	30.00
165	5825	12.61	18.24	30.00

<802.11n HT40>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
38	5190	13.98	25.00	24.00
46	5230	18.40	69.18	24.00
151	5755	14.92	31.05	30.00
159	5795	13.70	23.44	30.00

<802.11ac VHT20>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
36	5180	18.61	72.61	24.00
40	5200	18.52	71.12	24.00
48	5240	18.46	70.15	24.00
149	5745	15.09	32.28	30.00
157	5785	13.86	24.32	30.00
165	5825	12.72	18.71	30.00

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<802.11ac VHT40>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
38	5190	14.09	25.64	24.00
46	5230	18.51	70.96	24.00
151	5755	15.03	31.84	30.00
159	5795	13.79	23.93	30.00

<802.11ac VHT80>

Channel	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	(mW)	
42	5210	12.58	18.11	24.00
155	5775	14.34	27.16	30.00

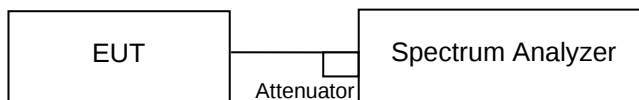
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5.1.3 26 dB Bandwidth and 99% Occupied Bandwidth

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/4/21	2025/5/14

Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- For 99% Bandwidth Measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

Test Results

Please refer to Appendix A

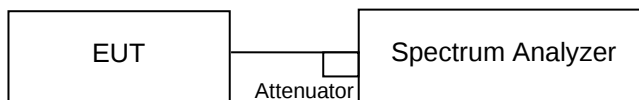
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5.1.4 6 dB Bandwidth (5725-5850MHz)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/4/21	2025/5/14

Test Procedure

MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Results

Please refer to Appendix A

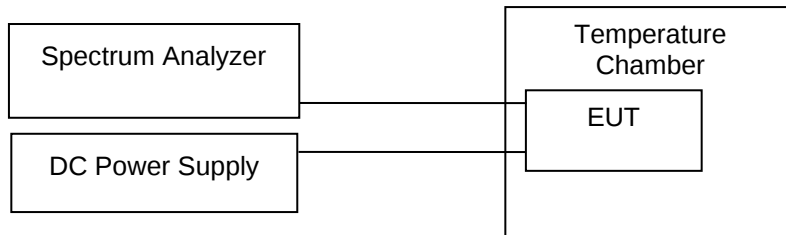
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5.1.5 Frequency Stability Measurement

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/4/21	2025/5/14
Thermal Chamber	Giant Force	GHT-150-40-CP-SD	MAA1902-011	2025/04/14	2026/04/13	2025/4/21	2025/5/14

Test Procedure

- To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

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Test Results

Frequency (MHz)	5180			
Voltage (V)	Measurement Frequency (MHz)			Max. Deviation (ppm)
5.5	5179.98263			3.353
5	5179.98177			3.519
4.5	5179.98263			3.353
Temperature (°C)	Measurement Frequency (MHz)			
	0 Minute	2 Minute	5 Minute	10 Minute
40	5179.98263	5179.98263	5179.98263	5179.98263
30	5179.99219	5179.98784	5179.98698	5179.98698
20	5179.98177	5179.98177	5179.9822	5179.98263
10	5180.01129	5180.01129	5180.01172	5180.01172
0	5180.02562	5180.02648	5180.02648	5180.02648
Max. Deviation (ppm)	4.946	5.112	5.112	5.112

5.1.6 Power Spectral Density

Limit

For the 5.15~5.25GHz Bands:

For mobile and portable client devices in the 5.15~5.25GHz band, the Maximum Power spectral density shall not exceed 11dBm/MHz. For an indoor access point operating in the band 5.15~5.25GHz, the maximum power spectral density shall not exceed 17dBm/MHz.

For the 5.25~5.35GHz and 5.47~5.725GHz Bands:

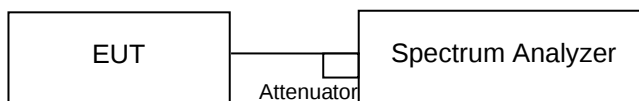
The maximum power spectral density shall not exceed 11dBm/MHz.

For the 5.745~5.85GHz Bands:

The maximum power spectral density shall not exceed 30dBm/500kHz.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/4/21	2025/5/14

Test Procedure**For U-NII-1:**

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

※For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
4. Sweep time = auto, trigger set to "free run".
5. Trace average at least 100 traces in power averaging mode.
6. Record the max value and add 10 log (1/duty cycle)

For MIMO mode, calculation method follows FCC KDB 662911 Method 2) a) of power density measurement using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

Test Results

Please refer to Appendix A

5.1.7 Radiated Spurious Emissions

Limit

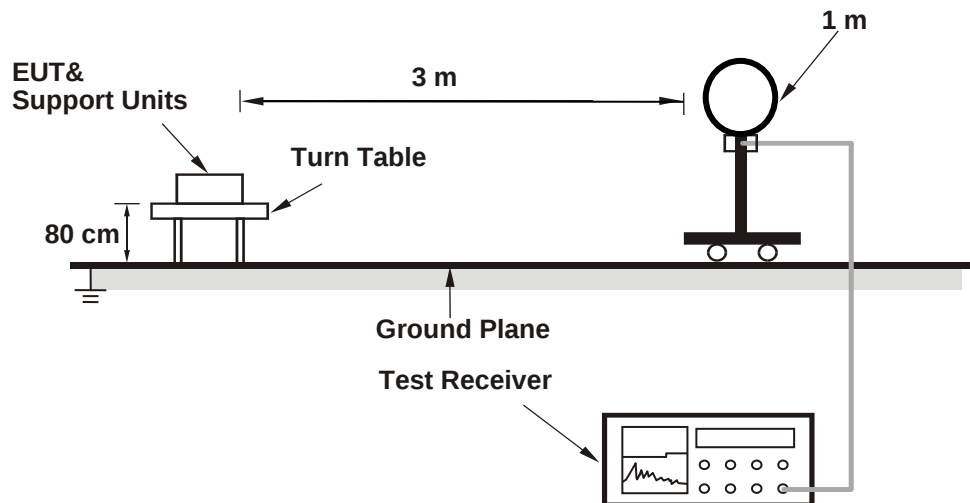
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.407(b).

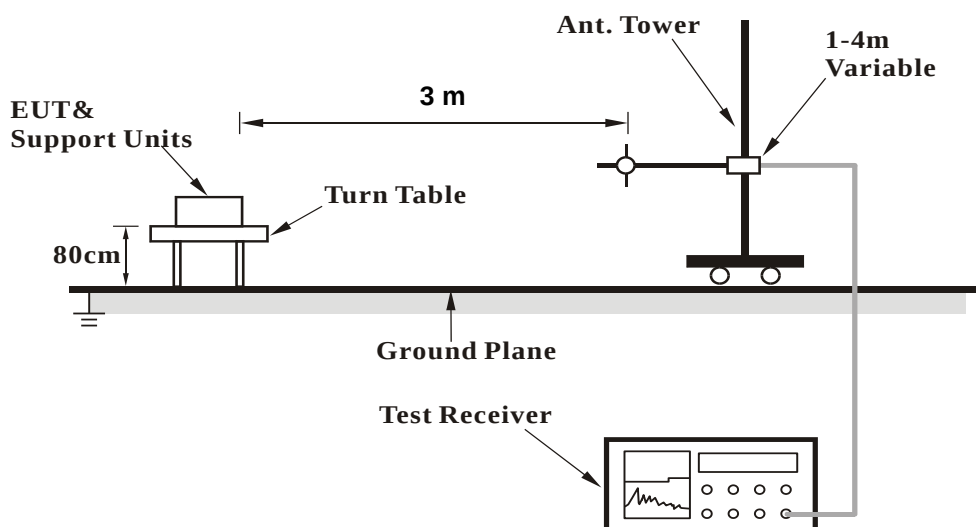
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

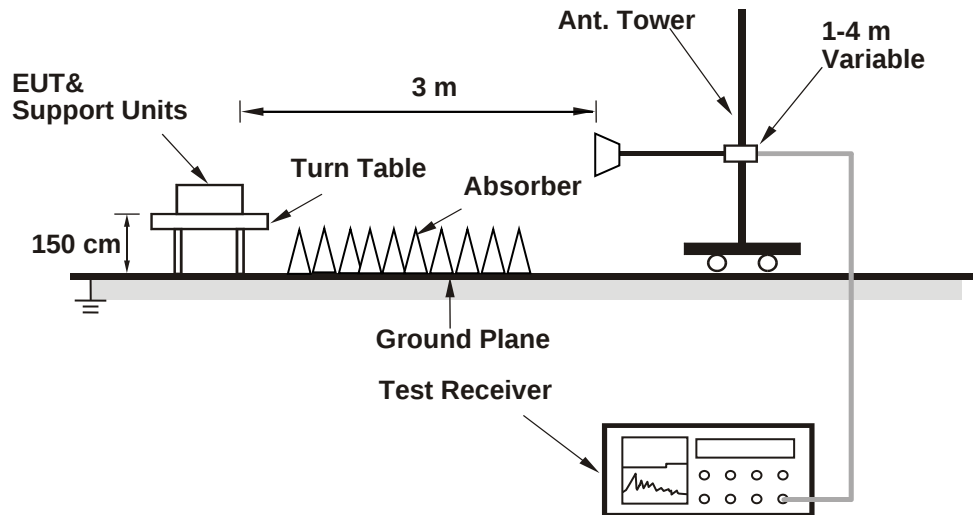
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101512	2025/2/26	2026/2/25
Horn Antenna	ETS-Lindgren	3117	00218929	2024/11/21	2025/11/20
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2025/3/28	2026/3/27
HF-AMP + AC source	EMCI	EMC051845SE	980633	2025/1/15	2026/1/14
HF-AMP + AC source	EMCI	EMC184045SE	980656	2025/1/15	2026/1/14
Test Software	Audix E3	15914a_20191 106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102108	2024/7/4	2025/7/3
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2025/4/8	2026/4/7
LF-AMP	Agilent	8447D	2727A05146	2025/1/15	2026/1/14
Test Software	Audix E3	15914a_20191 106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102108	2024/7/4	2025/7/3
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/12/11	2025/12/10
Test Software	Audix E3	15914a_20191 106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

5.2 Mains Emission

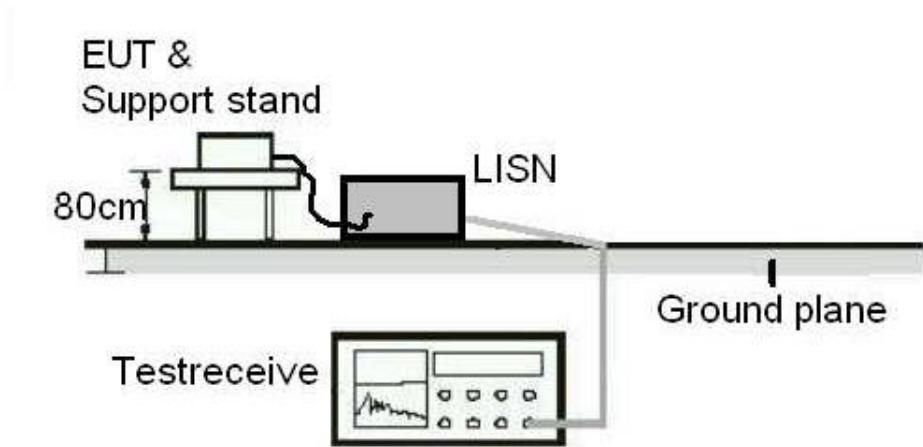
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2024/10/22	2025/10/21
EMI Test Receiver	R&S	ESCI	101094	2024/11/25	2025/11/24

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

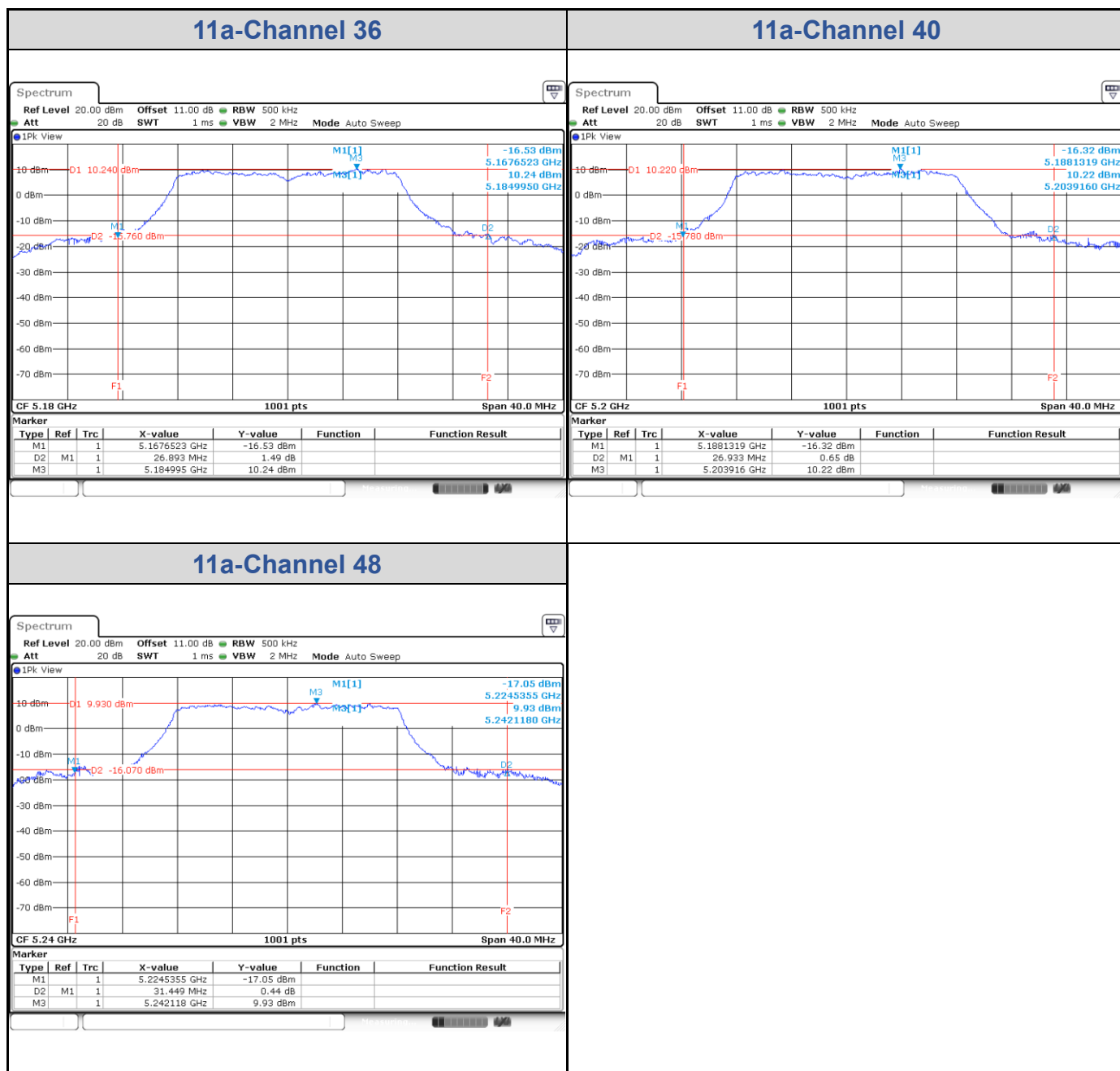
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 26 dB Bandwidth

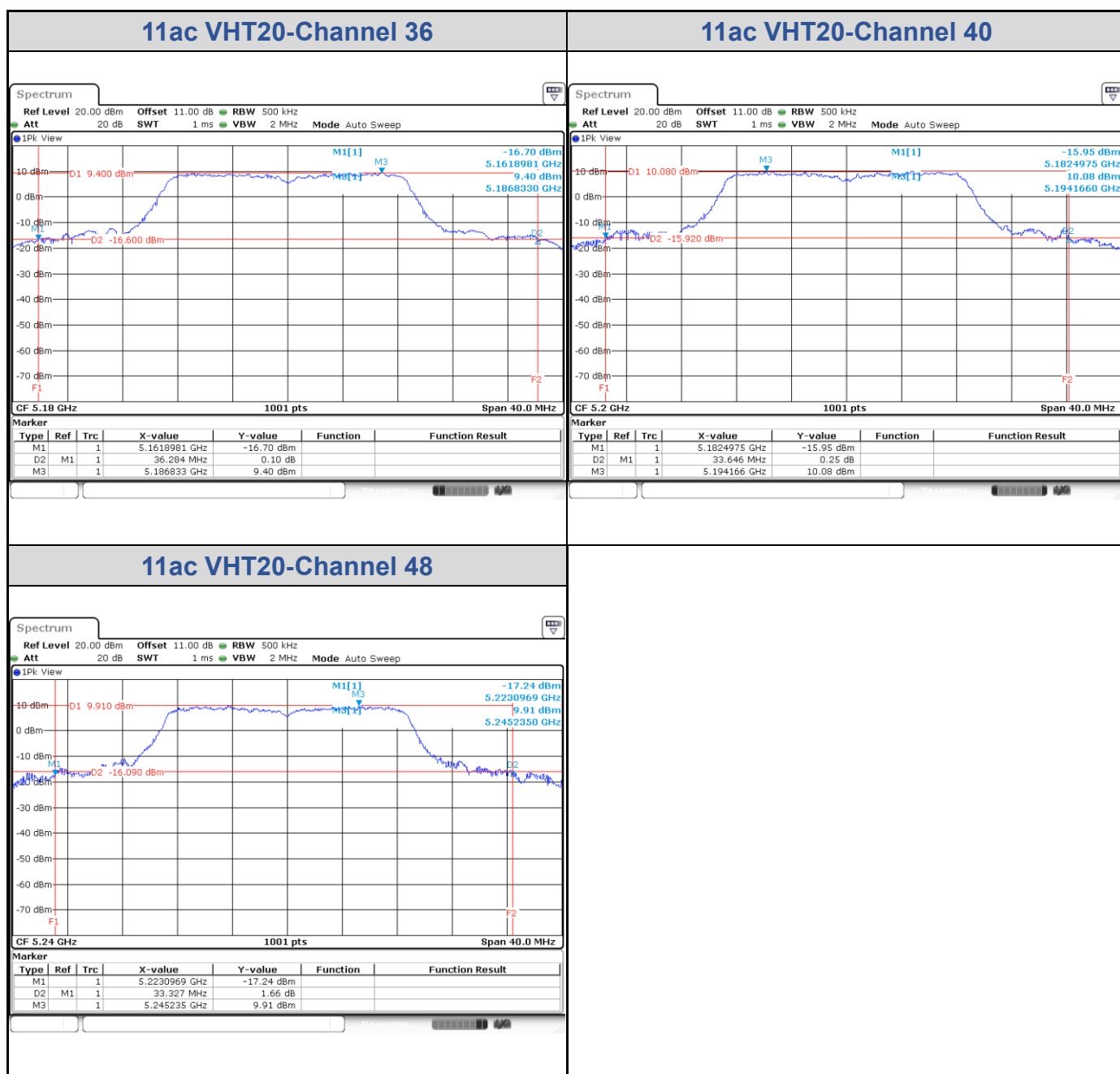
802.11a

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
U-NII-1	36	5180	26.89
	40	5200	26.93
	48	5240	31.45



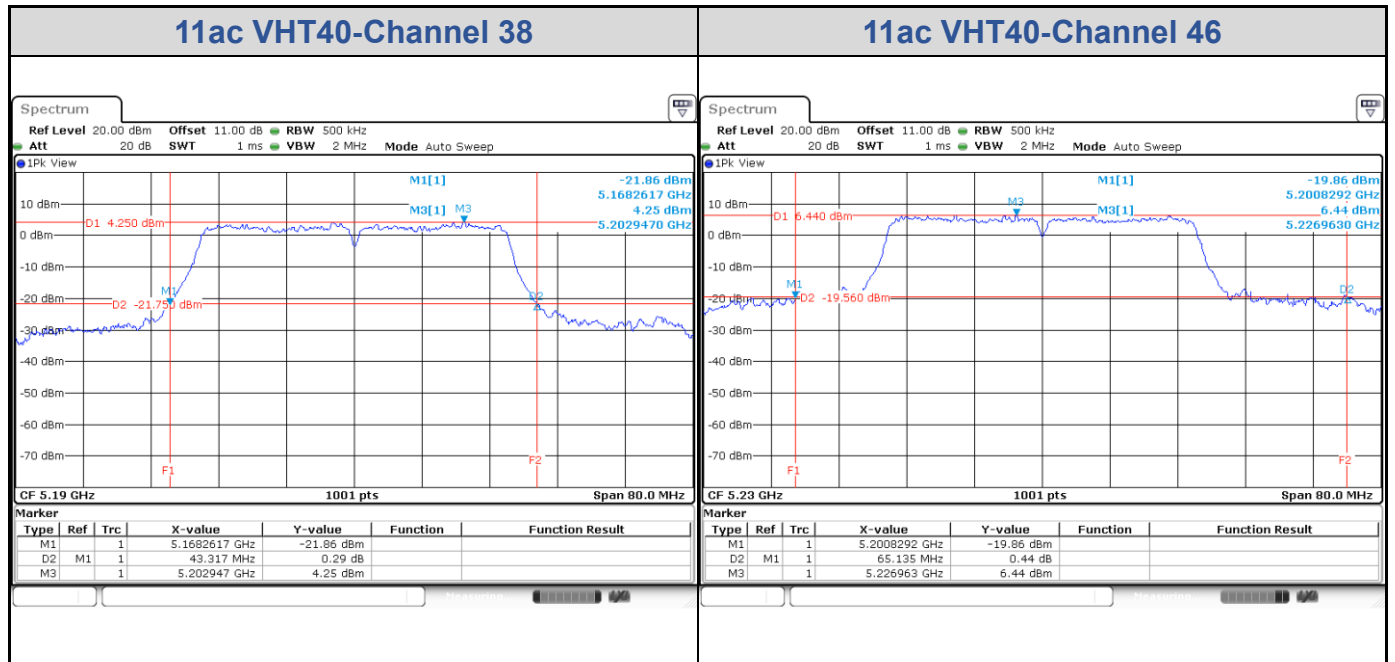
802.11ac VHT20

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
U-NII-1	36	5180	36.28
	40	5200	33.65
	48	5240	33.33



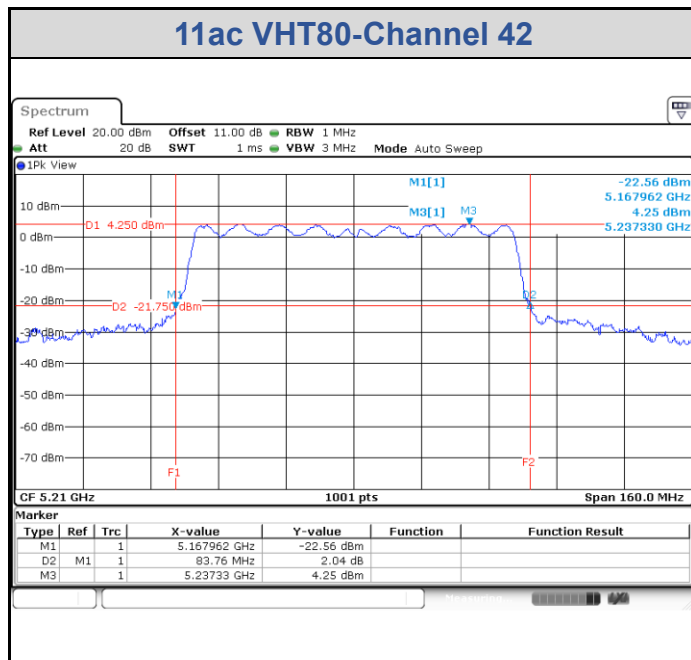
802.11ac VHT40

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
U-NII-1	38	5190	43.32
	46	5230	65.14



802.11ac VHT80

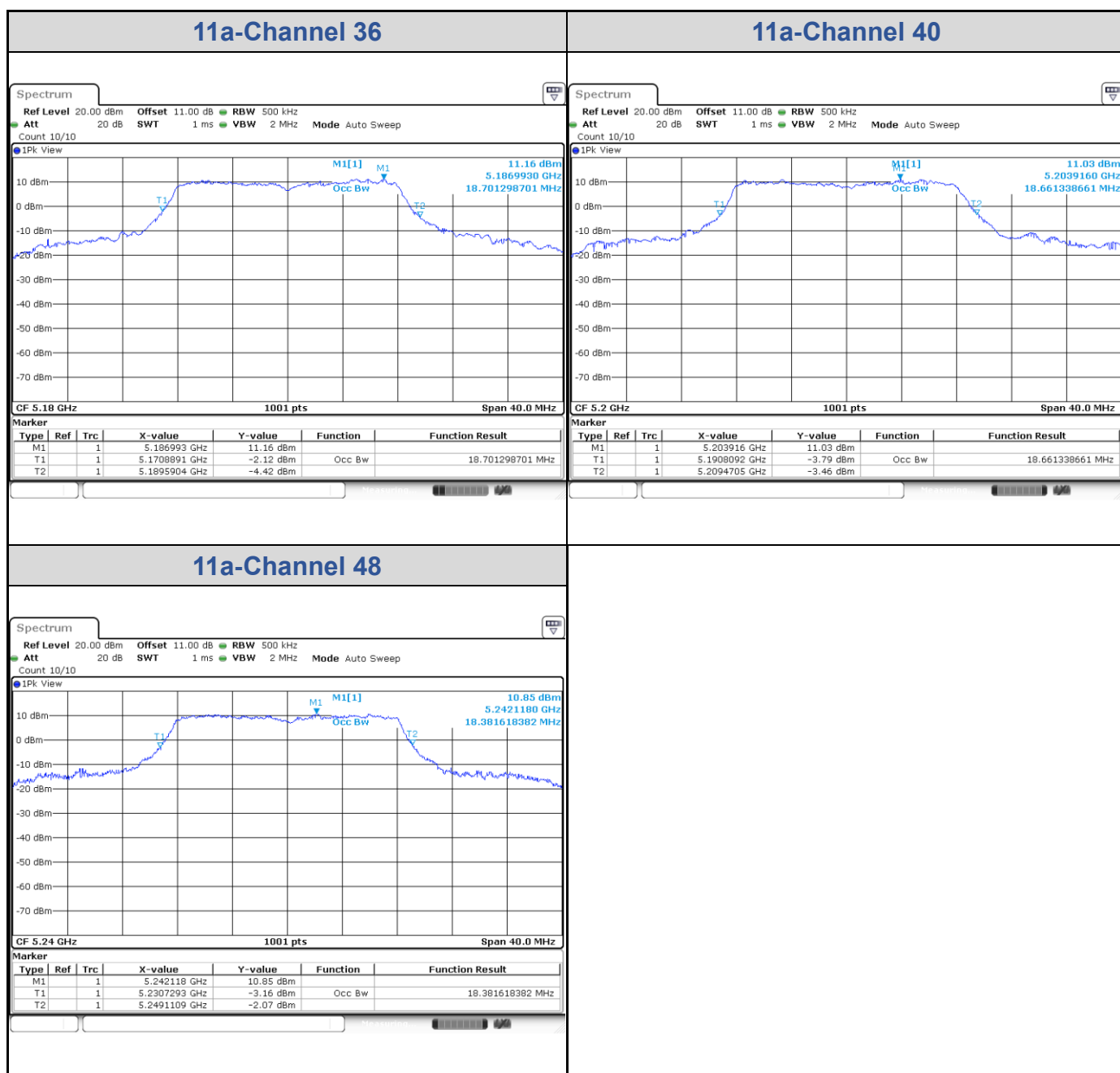
Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
U-NII-1	42	5210	83.76

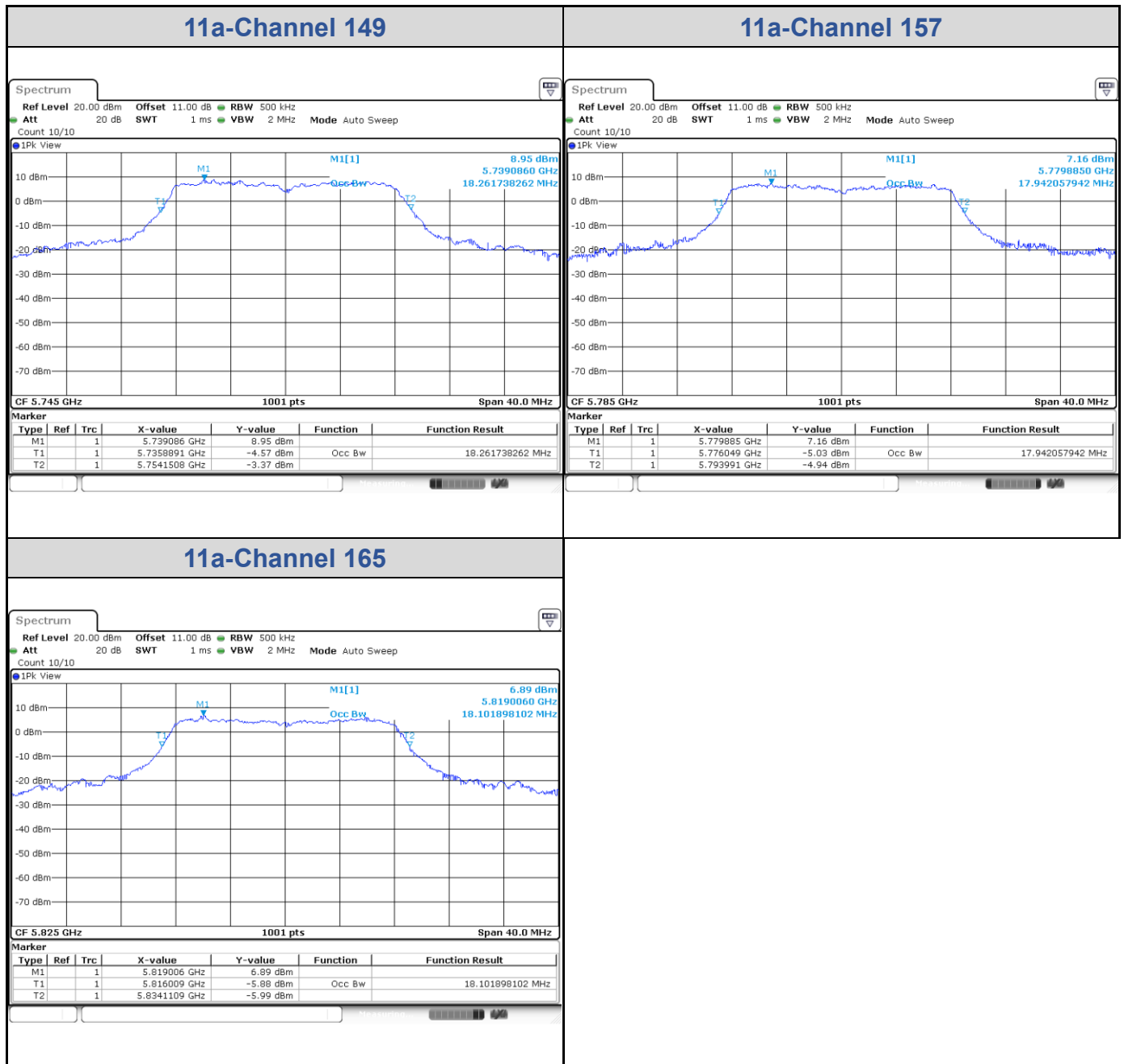


Test Result of 99% Occupied Bandwidth

802.11a

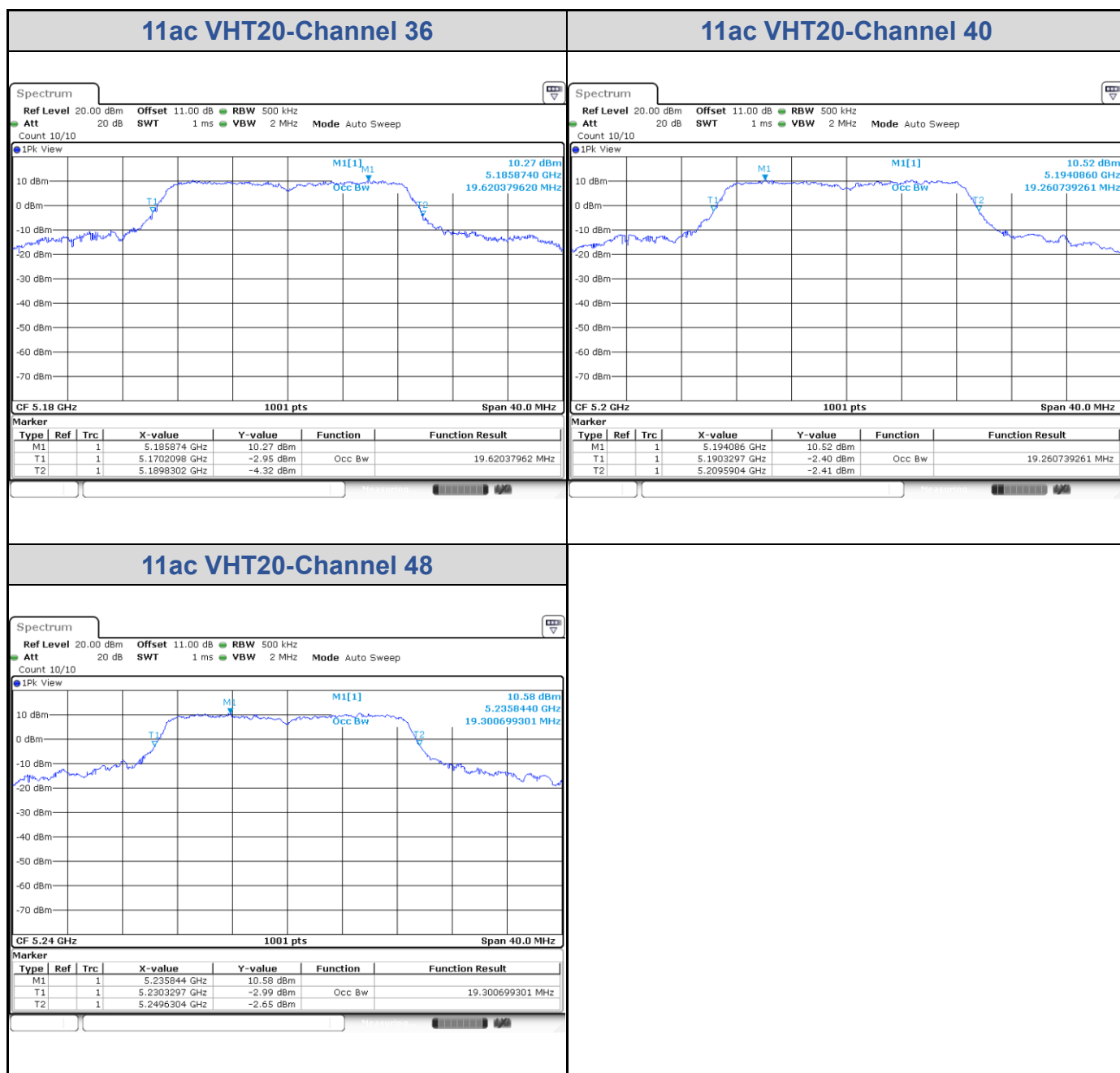
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)
U-NII-1	36	5180	18.70
	40	5200	18.66
	48	5240	18.38
U-NII-3	149	5745	18.26
	157	5785	17.94
	165	5825	18.10



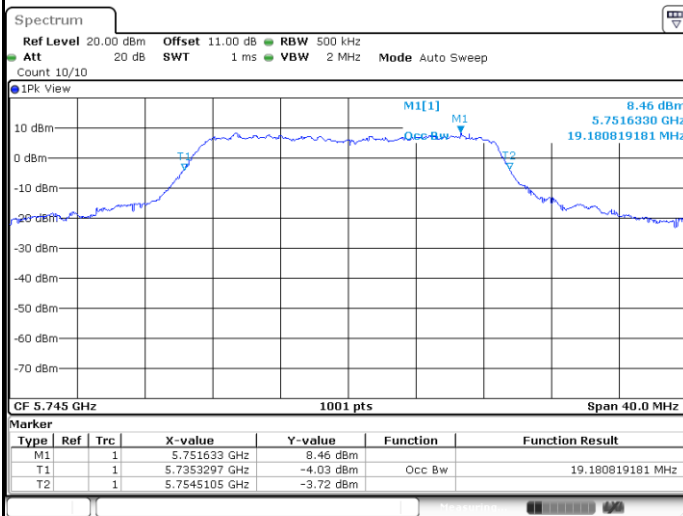


802.11ac VHT20

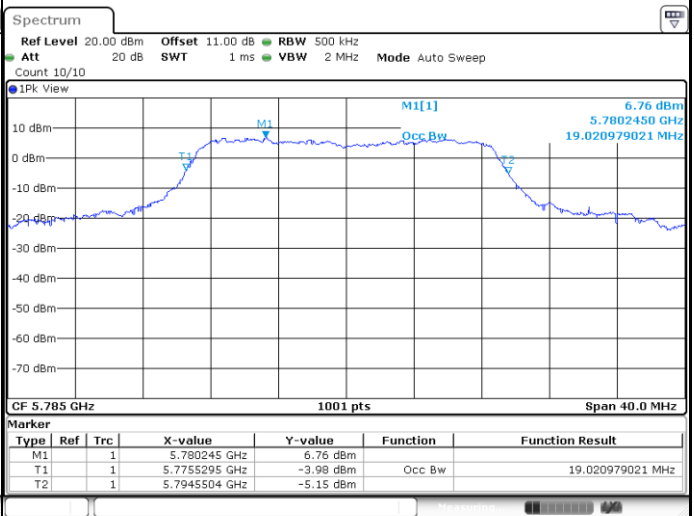
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)
U-NII-1	36	5180	19.62
	40	5200	19.26
	48	5240	19.30
U-NII-3	149	5745	19.18
	157	5785	19.02
	165	5825	19.18



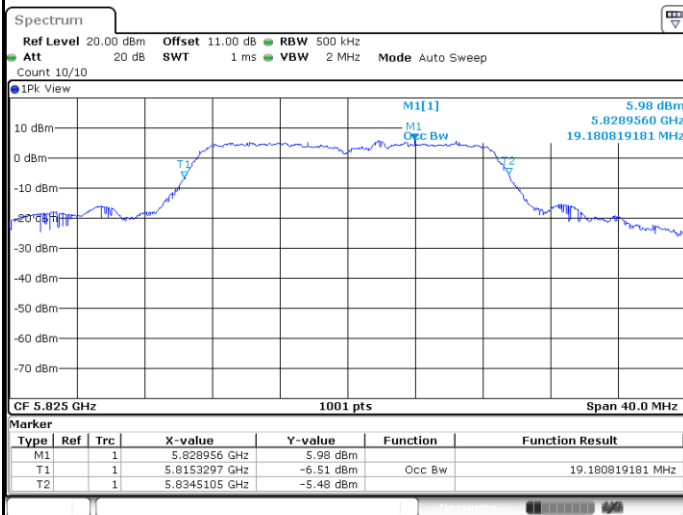
11ac VHT20-Channel 149



11ac VHT20-Channel 157

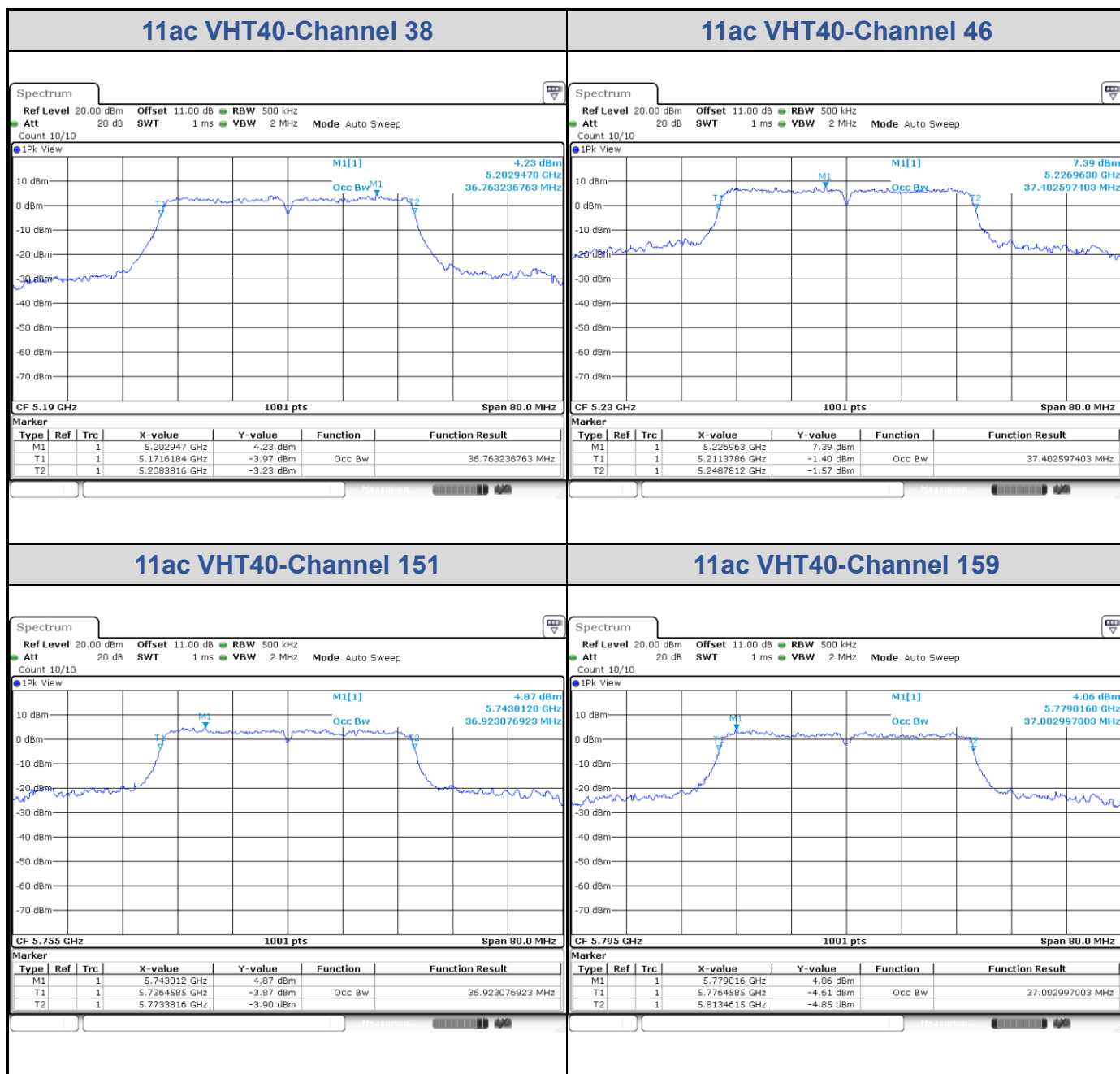


11ac VHT20-Channel 165



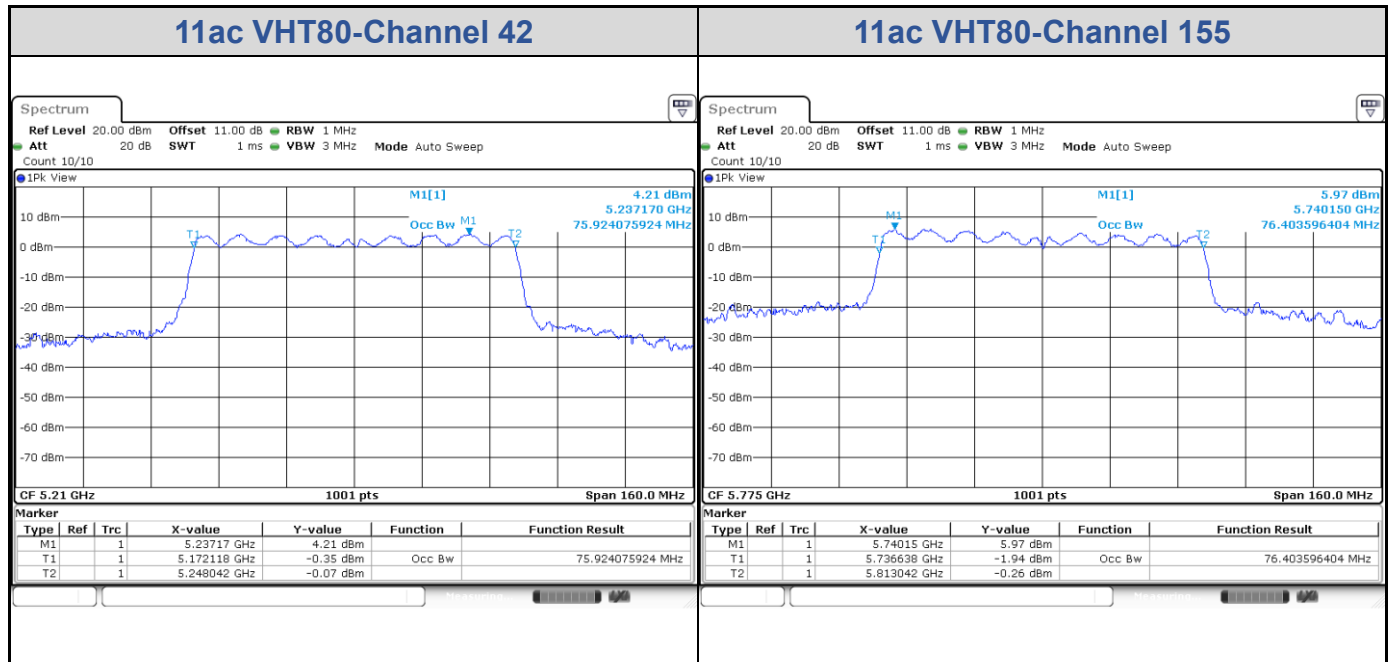
802.11ac VHT40

Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)
U-NII-1	38	5190	36.76
	46	5230	37.40
U-NII-3	151	5755	36.92
	159	5795	37.00



802.11ac VHT80

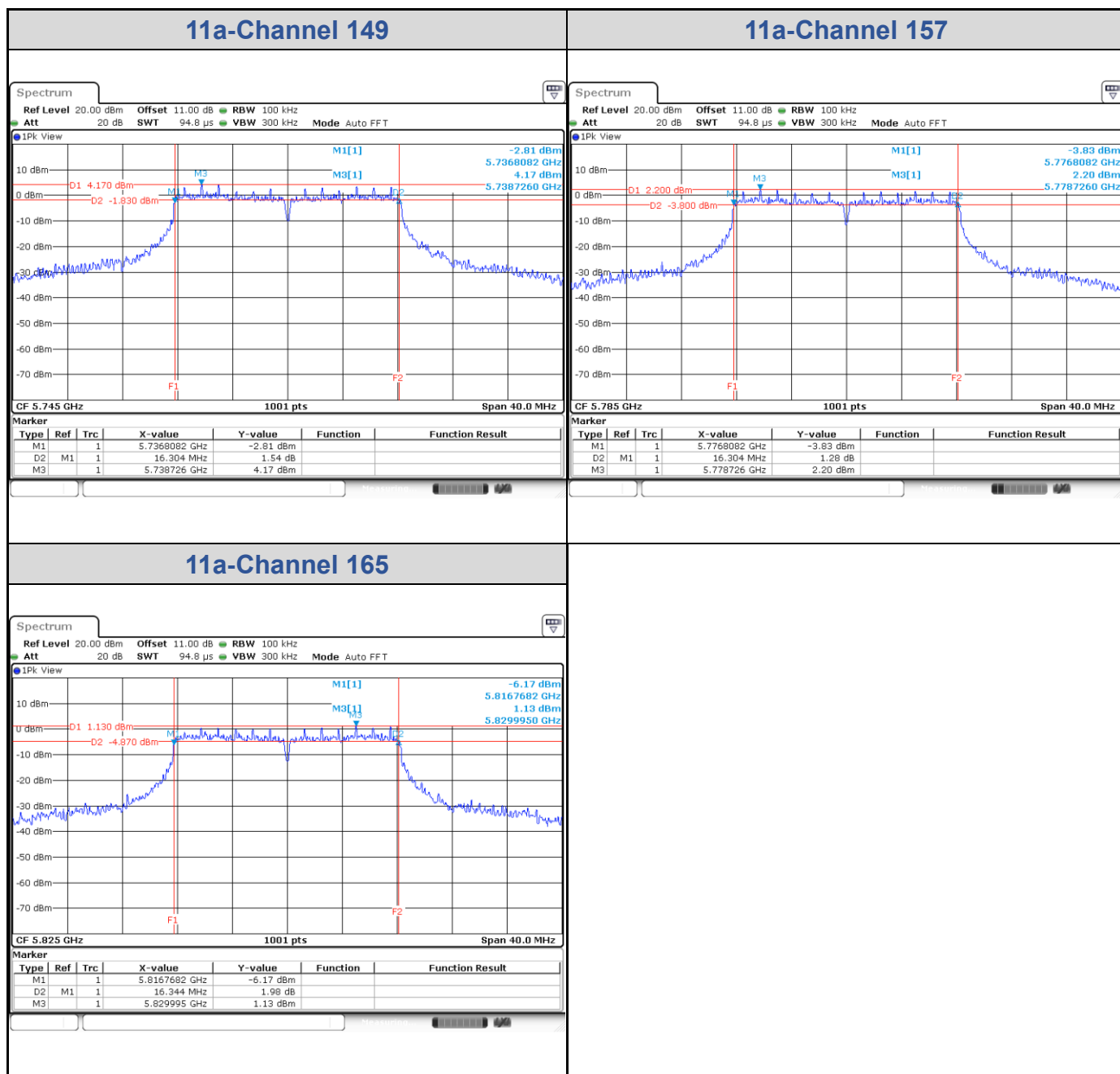
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)
U-NII-1	42	5210	75.92
U-NII-3	155	5775	76.40



Test Result of 6 dB Bandwidth

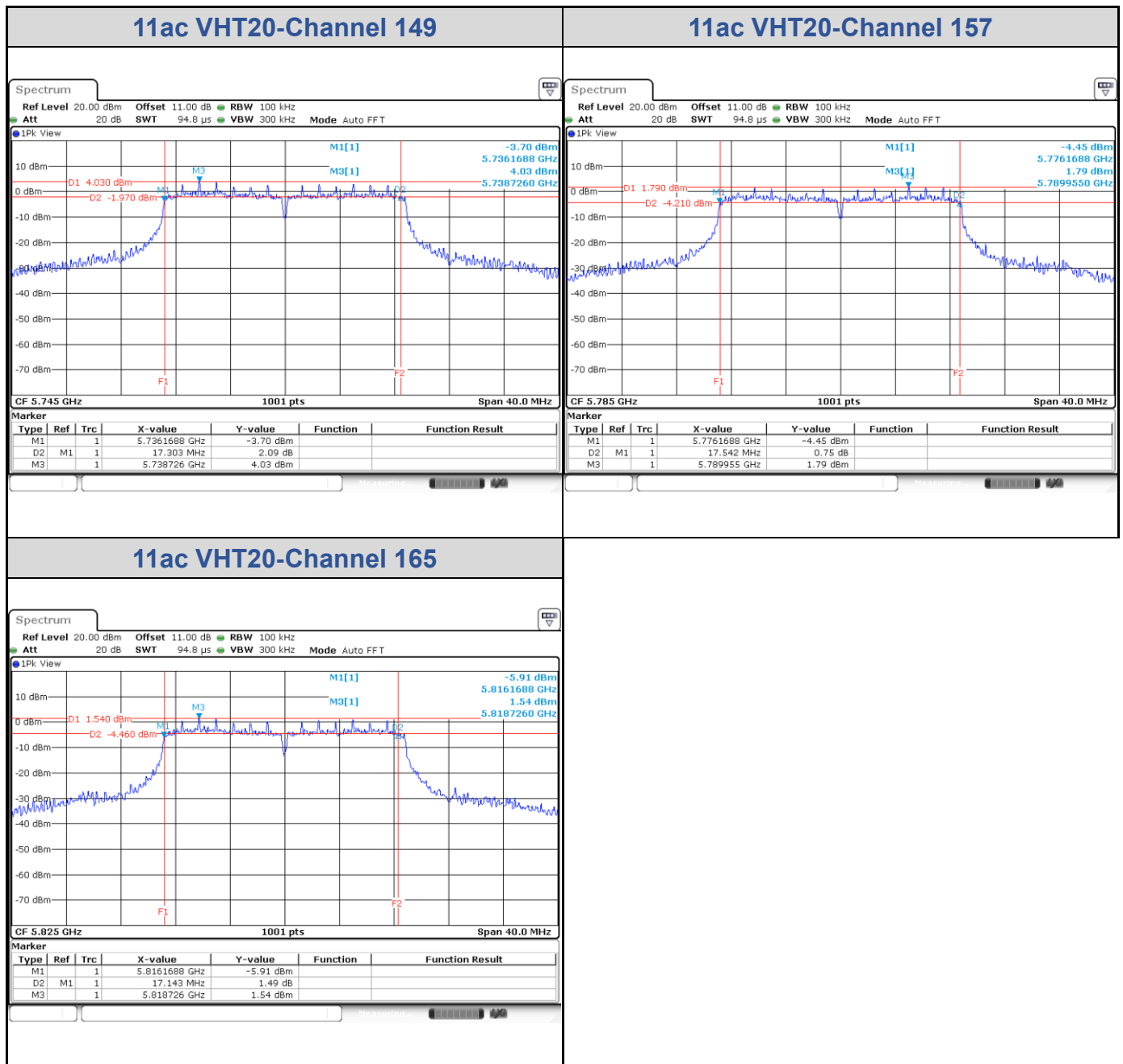
802.11a

Band	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
U-NII-3	149	5745	16.30	> 0.5	Pass
	157	5785	16.30	> 0.5	Pass
	165	5825	16.34	> 0.5	Pass



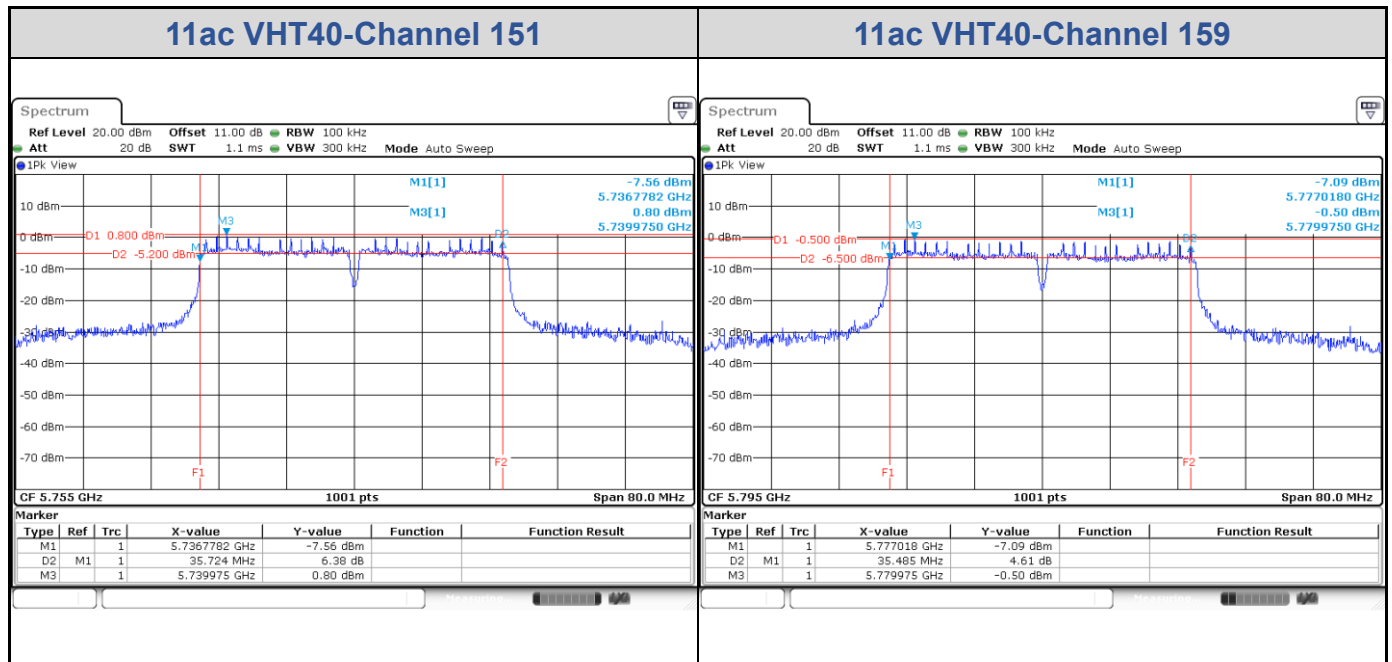
802.11ac VHT20

Band	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
U-NII-3	149	5745	17.30	> 0.5	Pass
	157	5785	17.54	> 0.5	Pass
	165	5825	17.14	> 0.5	Pass



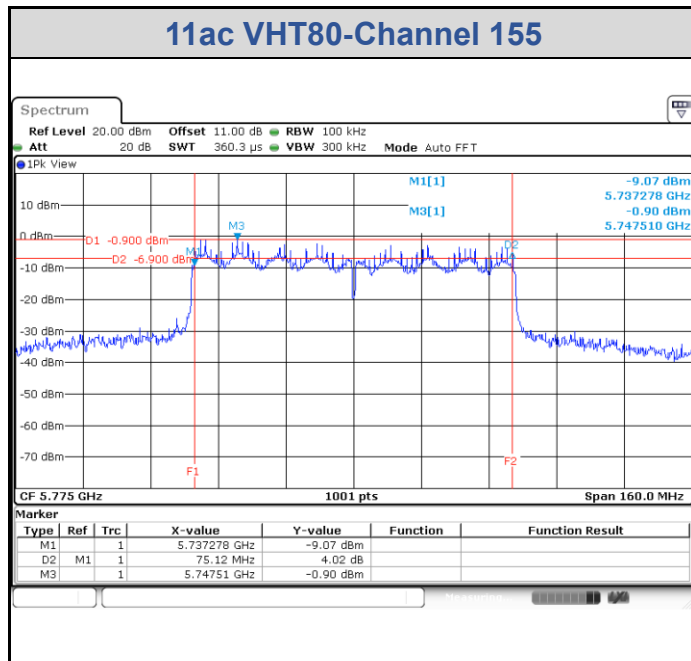
802.11ac VHT40

Band	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
U-NII-3	151	5755	35.72	> 0.5	Pass
	159	5795	35.49	> 0.5	Pass



802.11ac VHT80

Band	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
U-NII-3	155	5775	75.12	> 0.5	Pass



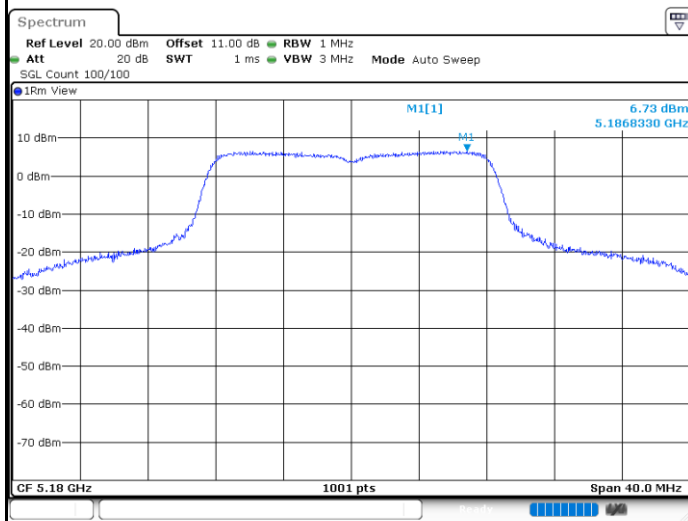
Test Result of Power Spectral Density

802.11a

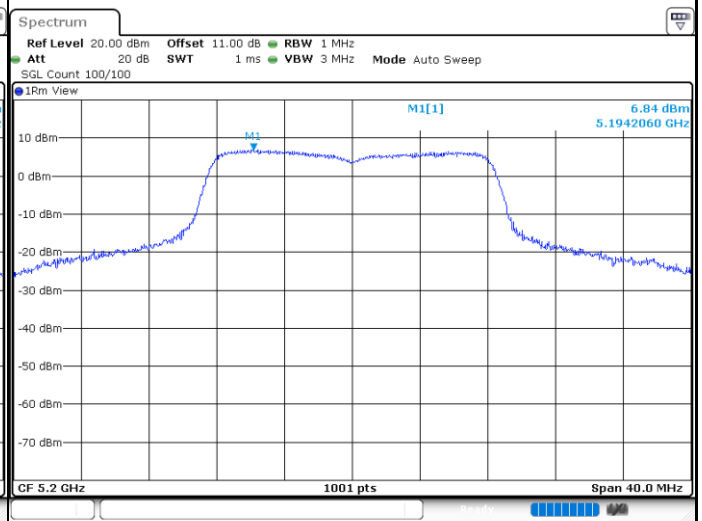
Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/MHz)	Total PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
U-NII-1	36	5180	6.73	6.84	11.00	Pass
	40	5200	6.84	6.95	11.00	Pass
	48	5240	6.70	6.81	11.00	Pass

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/500kHz)	Total PSD with Duty Factor (dBm/500kHz)	Maximum Limit (dBm/500kHz)	Pass / Fail
U-NII-3	149	5745	1.02	1.13	30.00	Pass
	157	5785	-0.50	-0.39	30.00	Pass
	165	5825	-1.85	-1.74	30.00	Pass

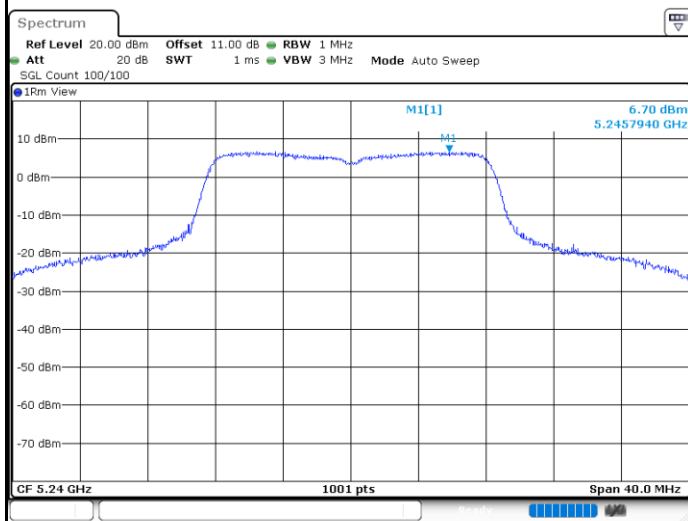
11a-Channel 36

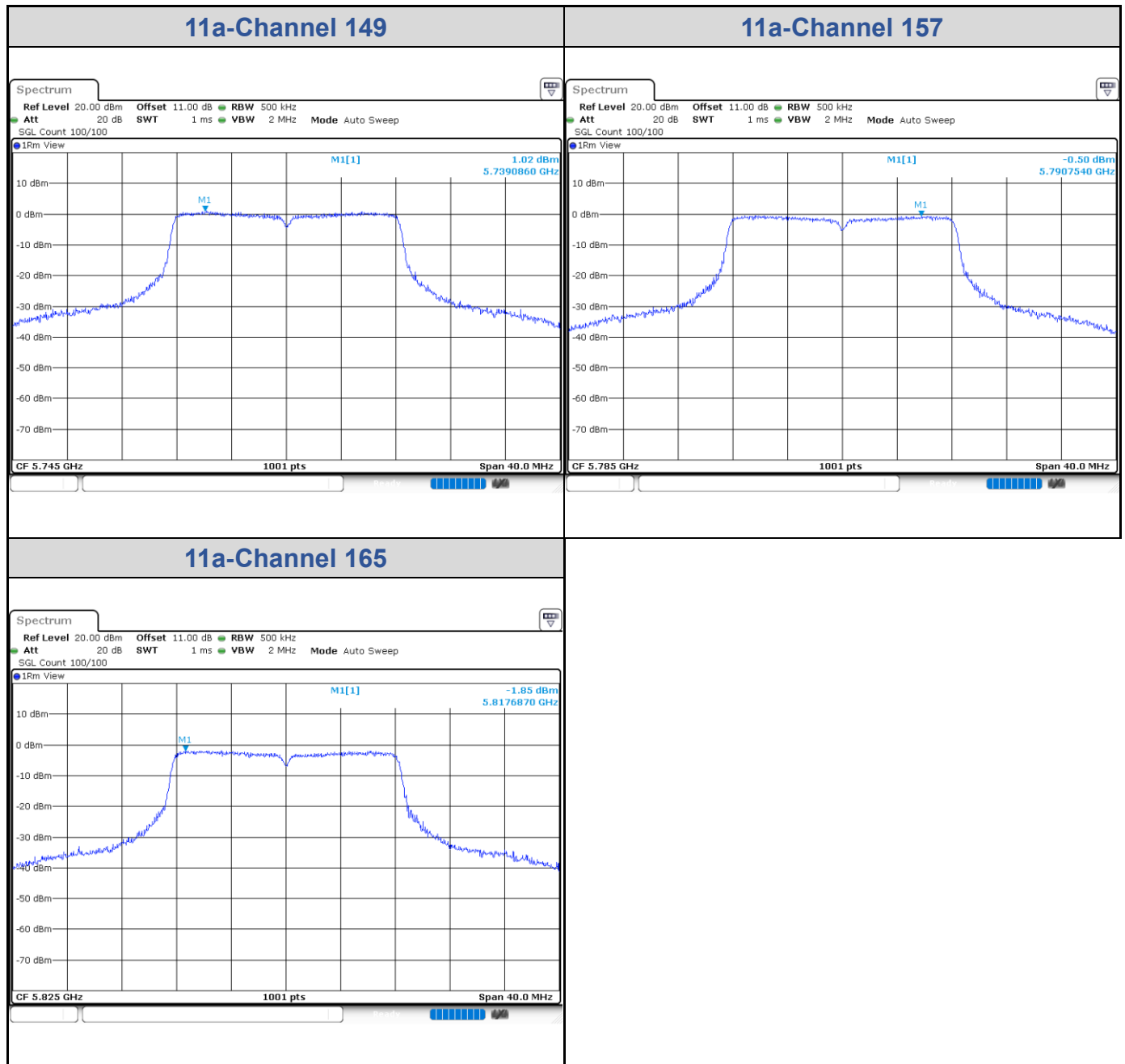


11a-Channel 40



11a-Channel 48

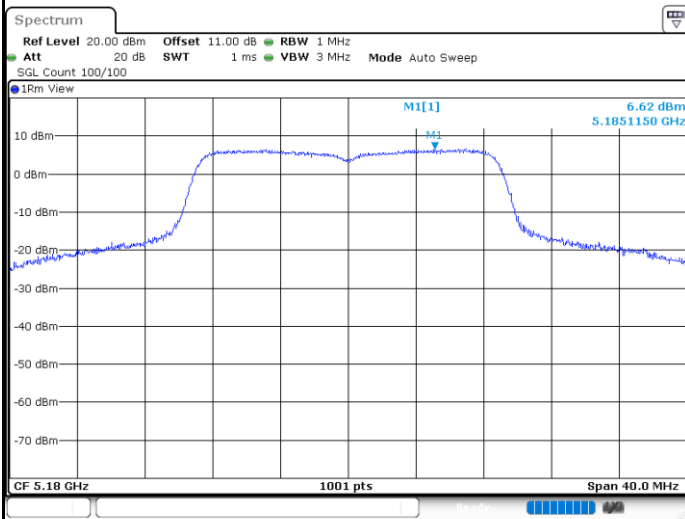
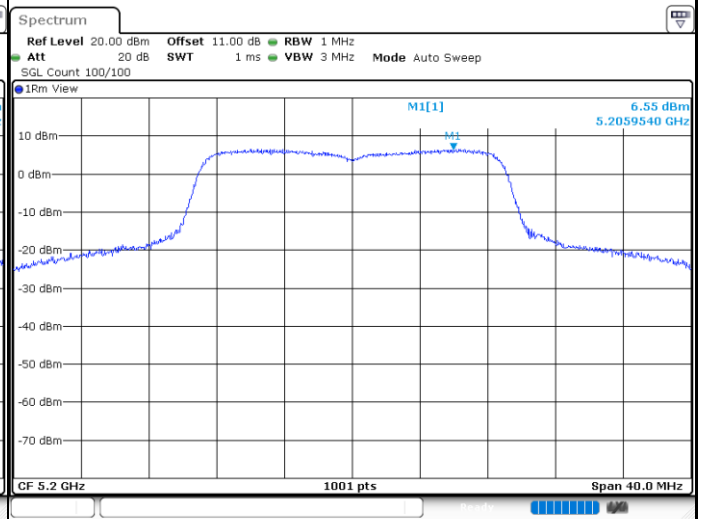
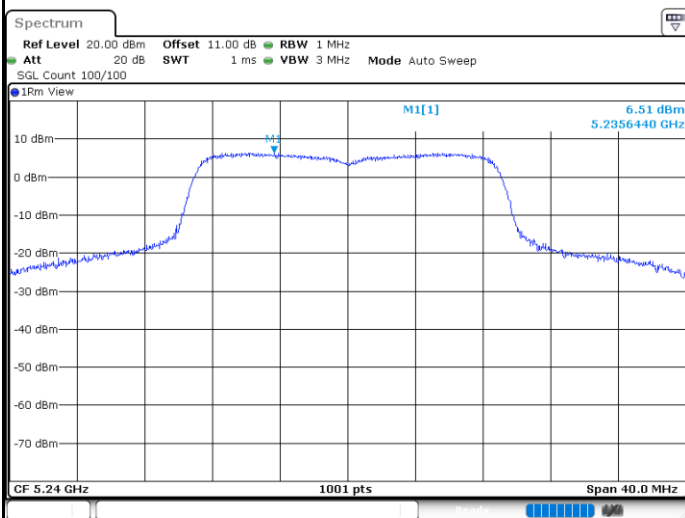


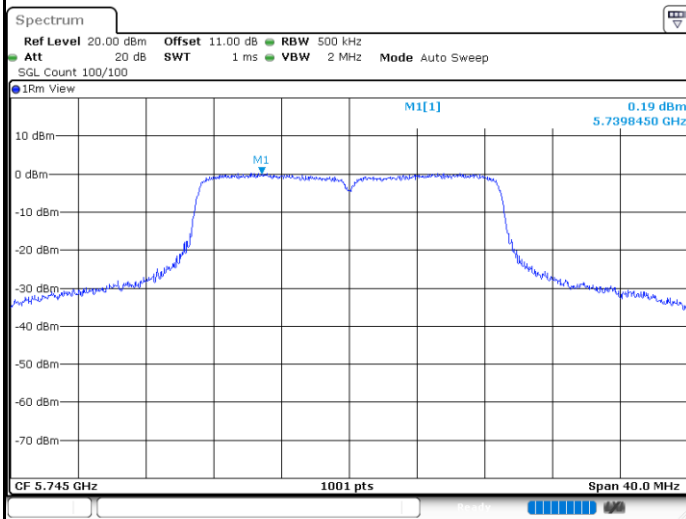
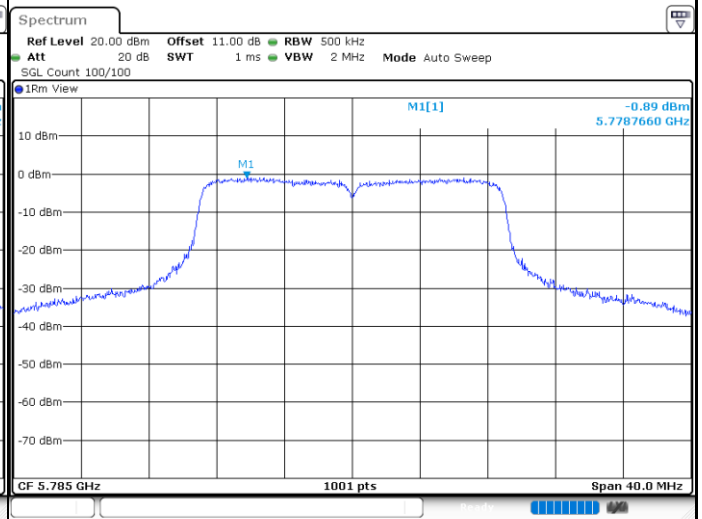
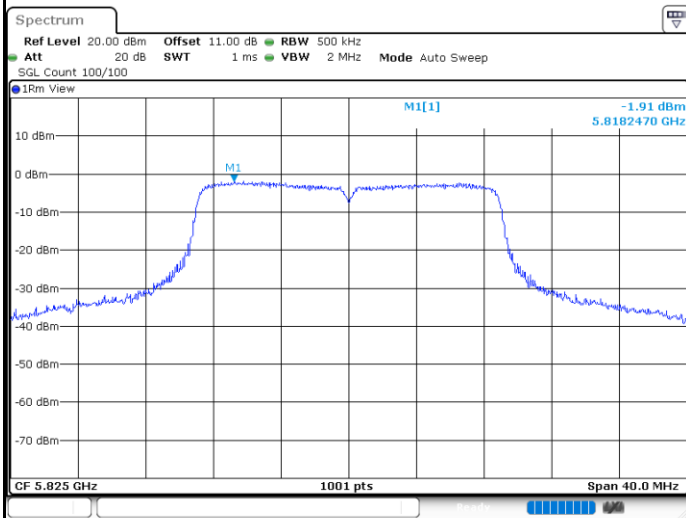


802.11ac VHT20

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/MHz)	Total PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
U-NII-1	36	5180	6.62	6.90	11.00	Pass
	40	5200	6.55	6.83	11.00	Pass
	48	5240	6.51	6.79	11.00	Pass

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/500kHz)	Total PSD with Duty Factor (dBm/500kHz)	Maximum Limit (dBm/500kHz)	Pass / Fail
U-NII-3	149	5745	0.19	0.47	30.00	Pass
	157	5785	-0.89	-0.61	30.00	Pass
	165	5825	-1.91	-1.63	30.00	Pass

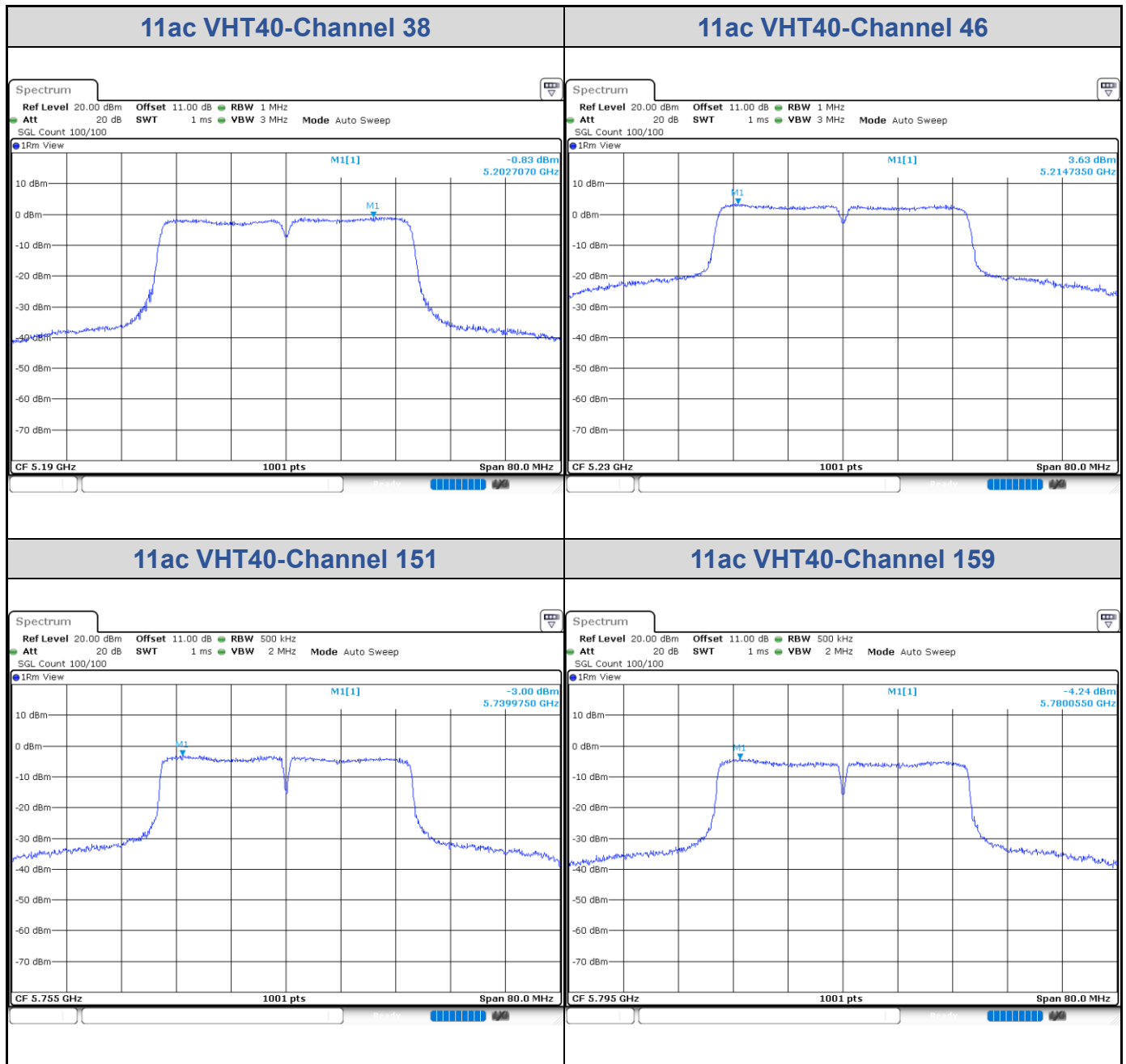
11ac VHT20-Channel 36

11ac VHT20-Channel 40

11ac VHT20-Channel 48


11ac VHT20-Channel 149

11ac VHT20-Channel 157

11ac VHT20-Channel 165


802.11ac VHT40

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/MHz)	Total PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
U-NII-1	38	5190	-0.83	-0.20	11.00	Pass
	46	5230	3.63	4.26	11.00	Pass

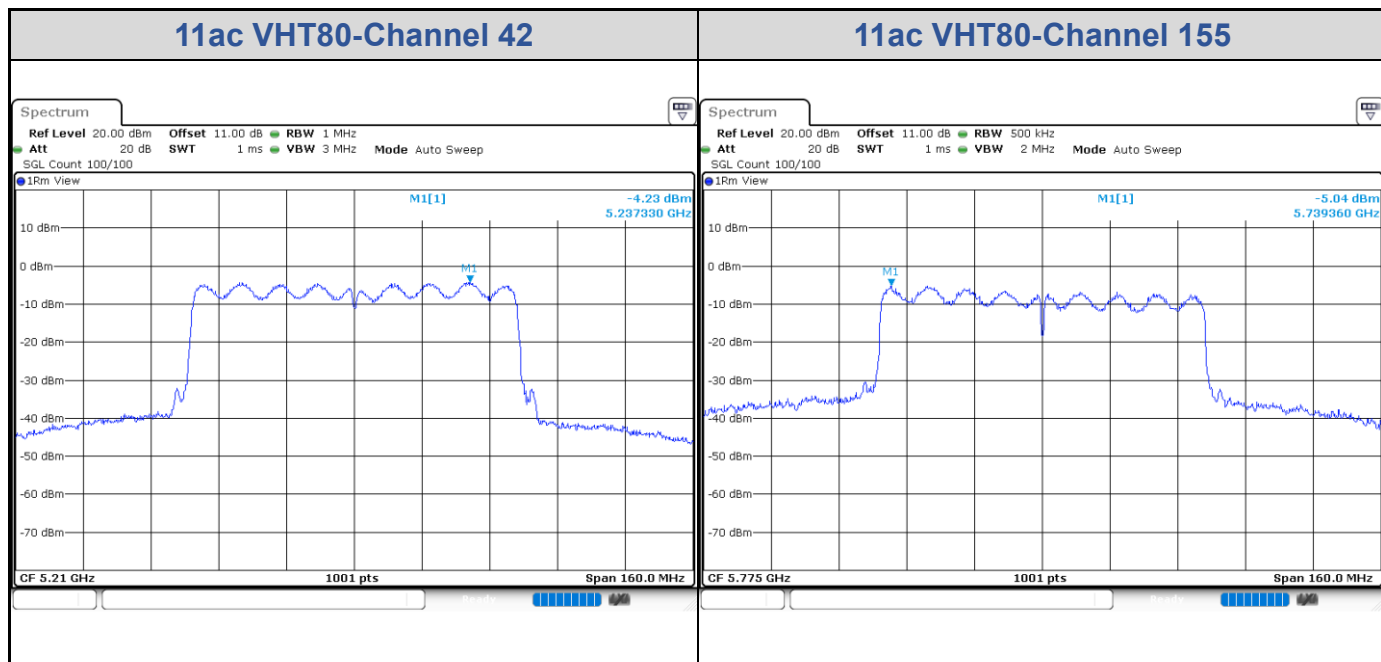
Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/500kHz)	Total PSD with Duty Factor (dBm/500kHz)	Maximum Limit (dBm/500kHz)	Pass / Fail
U-NII-3	151	5755	-3.00	-2.37	30.00	Pass
	159	5795	-4.24	-3.61	30.00	Pass



802.11ac VHT80

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/MHz)	Total PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
U-NII-1	42	5210	-4.23	-3.10	11.00	Pass

Band	Channel	Frequency (MHz)	PSD without Duty Factor (dBm/500kHz)	Total PSD with Duty Factor (dBm/500kHz)	Maximum Limit (dBm/500kHz)	Pass / Fail
U-NII-3	155	5775	-5.04	-3.91	30.00	Pass



Appendix B: Test Results of Radiation Spurious Emissions & Mains Conducted Emission

Band Edges, 4.5GHz ~ 5.15GHz

U-NII-1

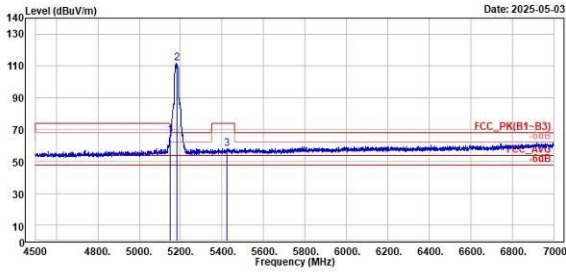
802.11a

CH 36 (Horizontal) Peak

CH 36 (Vertical) Peak



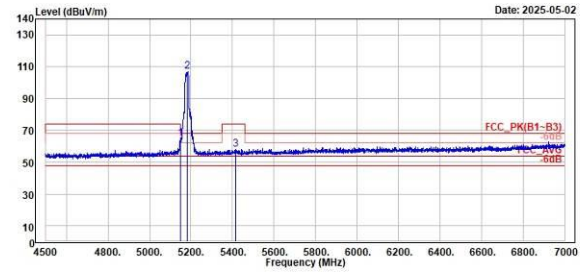
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	66.41	23.32	43.09	74.00	-7.59	321	34	Peak	Horizontal	
2 *	5180.00	111.76	68.47	43.29	68.20	43.56	321	34	Peak	Horizontal	
3	5423.50	58.25	14.29	43.96	74.00	-15.75	321	34	Peak	Horizontal	



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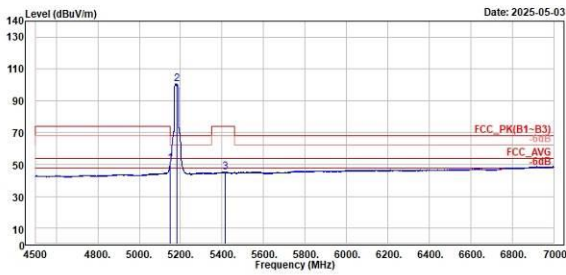
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5140.00	64.89	21.00	43.09	74.00	-9.11	100	279	Peak	Vertical	
2 *	5180.00	106.97	63.68	43.29	68.20	38.77	100	279	Peak	Vertical	
3	5413.50	58.09	14.08	44.01	74.00	-15.91	100	279	Peak	Vertical	

802.11a

CH 36 (Horizontal) Average



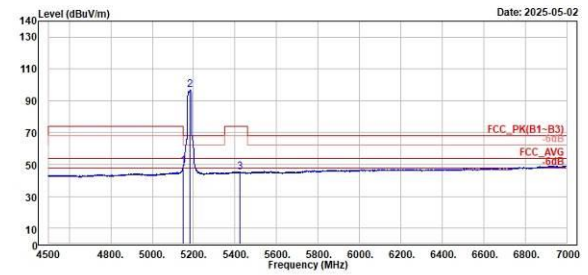
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5180.00	58.72	7.63	43.09	54.00	-3.28	321	34	Average	Horizontal	
2	5180.00	100.86	57.57	43.29	54.00	46.86	321	34	Average	Horizontal	
3	5414.00	45.28	1.27	44.01	54.00	-8.72	321	34	Average	Horizontal	



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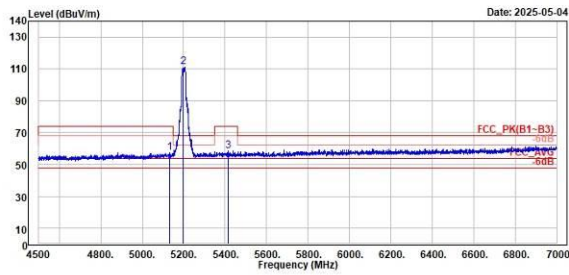
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5180.00	48.83	5.74	43.09	54.00	-5.17	100	279	Average	Vertical	
2	5180.00	97.03	53.74	43.29	54.00	43.03	100	279	Average	Vertical	
3	5422.00	45.41	1.44	43.97	54.00	-8.59	100	279	Average	Vertical	

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CH 40 (Horizontal) Peak



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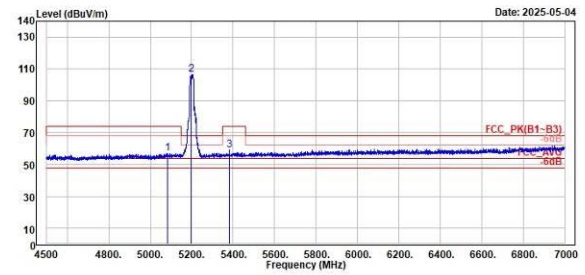


Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5134.00	57.53	14.46	43.07	74.00	-16.47	272	27	Peak	Horizontal	
2 *	5200.00	111.83	67.69	43.43	68.20	42.83	272	27	Peak	Horizontal	
3	5414.00	58.79	14.78	44.01	74.00	-15.21	272	27	Peak	Horizontal	

CH 40 (Vertical) Peak



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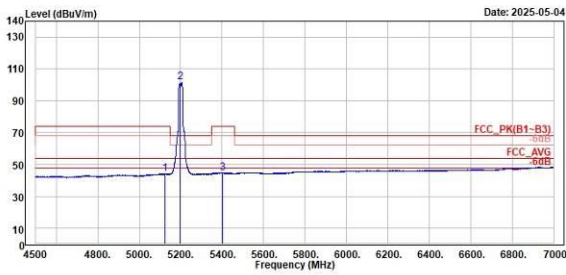
Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5082.00	57.05	13.98	43.07	74.00	-16.95	320	281	Peak	Vertical	
2 *	5200.00	106.54	63.11	43.43	68.20	38.34	320	281	Peak	Vertical	
3	5383.00	58.89	15.06	43.83	74.00	-15.11	320	281	Peak	Vertical	

802.11a

CH 40 (Horizontal) Average



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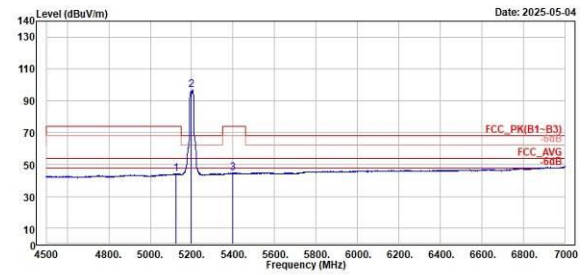


Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5126.00	44.20	1.13	43.07	54.00	-9.80	272	27	Average	Horizontal	
2 *	5200.00	101.41	57.98	43.43	54.00	47.41	272	27	Average	Horizontal	
3	5402.00	44.93	0.86	44.07	54.00	-9.07	272	27	Average	Horizontal	

CH 40 (Vertical) Average



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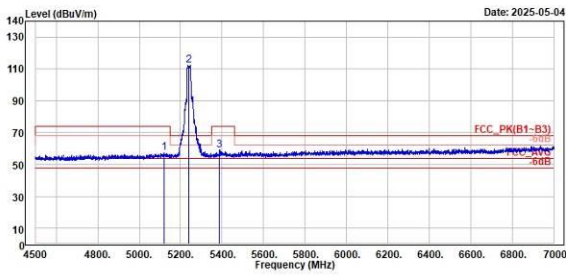
Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5124.50	44.16	1.09	43.07	54.00	-9.84	320	281	Average	Vertical	
2 *	5200.00	96.91	53.48	43.43	54.00	42.91	320	281	Average	Vertical	
3	5399.00	44.64	0.57	44.07	54.00	-9.36	320	281	Average	Vertical	

802.11a

CH 48 (Horizontal) Peak



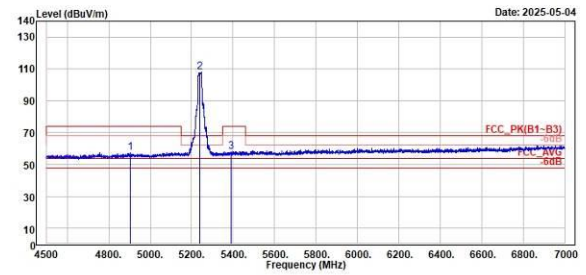
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CH 48 (Vertical) Peak



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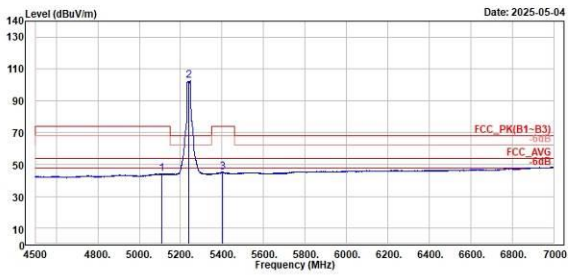


802.11a

CH 48 (Horizontal) Average



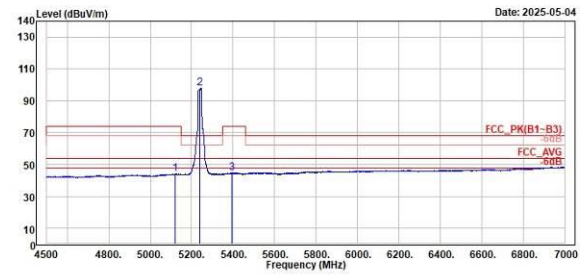
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	5188.50	44.20	1.15	43.05	54.00	-9.80		282	25	Average	Horizontal	
2	5240.00	102.51	59.29	43.22	54.00	48.51		282	25	Average	Horizontal	
3	5401.00	45.24	1.17	44.07	54.00	-8.76		282	25	Average	Horizontal	



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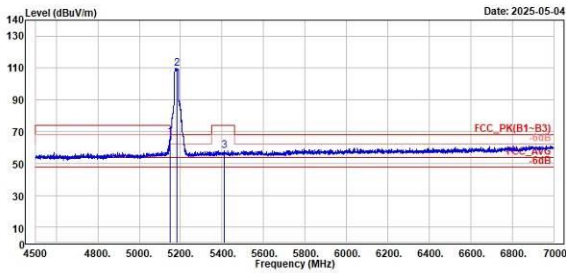
	Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
	Hz	dBu/m	dBu	dB/m	dBu/m	dB	cm	deg		
1	5121.50	44.20	1.14	43.06	54.00	-9.80	314	271	Average	Vertical
2	5240.00	97.86	54.64	43.22	54.00	43.86	314	271	Average	Vertical
3	5393.00	44.86	0.98	43.98	54.00	-9.84	314	271	Average	Vertical

802.11ac VHT20

CH 36 (Horizontal) Peak



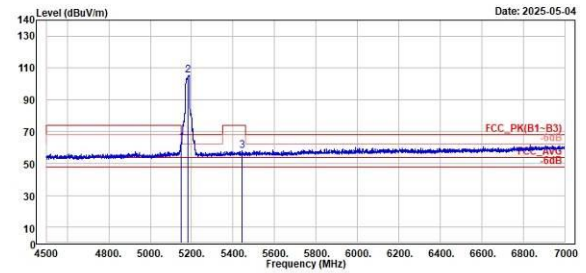
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CH 36 (Vertical) Peak



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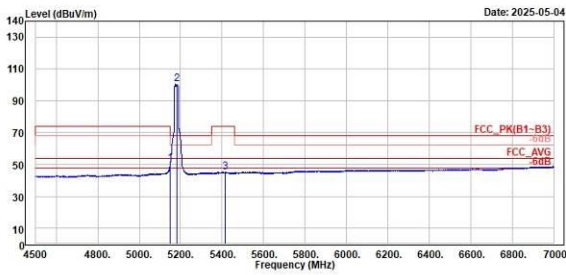


802.11ac VHT20

CH 36 (Horizontal) Average



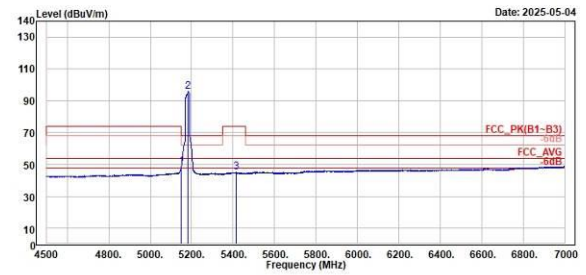
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5180.00	58.88	7.71	43.00	54.00	-3.20	289	19	Average	Horizontal	
2 *	5180.00	100.49	57.20	43.29	54.00	46.49	289	19	Average	Horizontal	
3	5415.00	45.18	1.18	44.00	54.00	-8.82	289	19	Average	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5180.00	48.54	5.45	43.09	54.00	-5.46	101	280	Average	Vertical	
2 *	5180.00	96.08	52.79	43.29	54.00	42.08	101	280	Average	Vertical	
3	5415.50	45.04	1.04	44.00	54.00	-8.96	101	280	Average	Vertical	

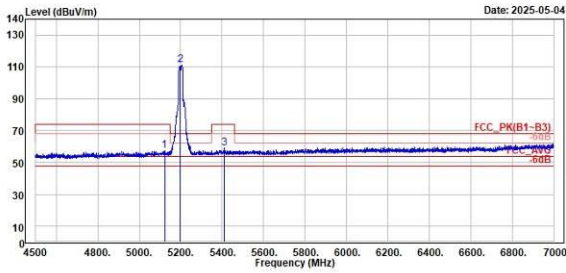
802.11ac VHT20

CH 40 (Horizontal) Peak

CH 40 (Vertical) Peak



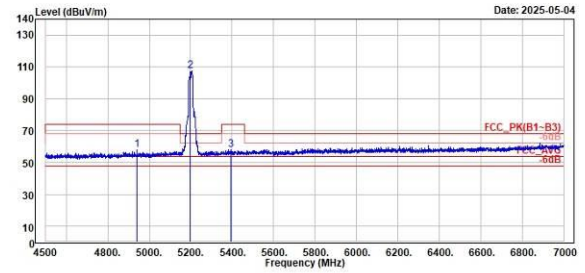
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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5122.50	57.41	14.34	43.07	74.00	-16.59	286	18 Peak	Horizontal	
2 *	5200.00	111.02	67.59	43.43	68.20	42.82	286	18 Peak	Horizontal	
3	5412.50	58.83	14.82	44.01	74.00	-15.17	286	18 Peak	Horizontal	



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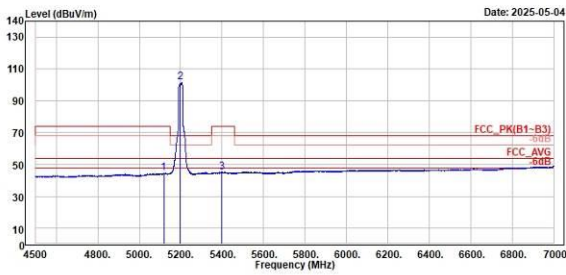
Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4940.50	58.20	15.20	43.00	74.00	-15.80	320	280 Peak	Vertical	
2 *	5200.00	107.50	64.07	43.43	68.20	39.39	320	280 Peak	Vertical	
3	5392.50	58.04	14.06	43.98	74.00	-15.96	320	280 Peak	Vertical	

802.11ac VHT20

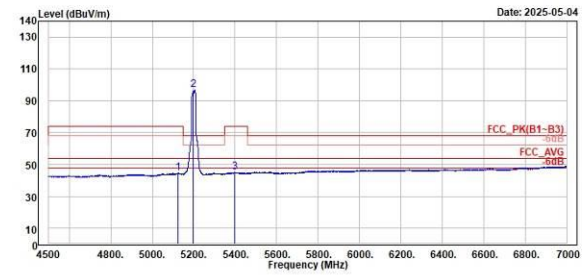
CH 40 (Horizontal) Average



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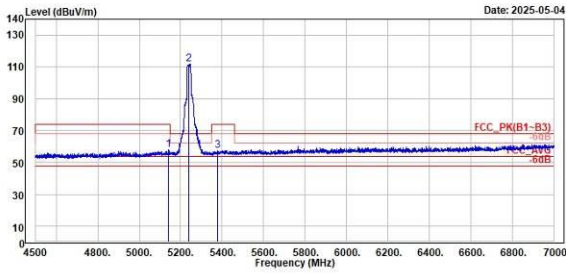


802.11ac VHT20

CH 48 (Horizontal) Peak



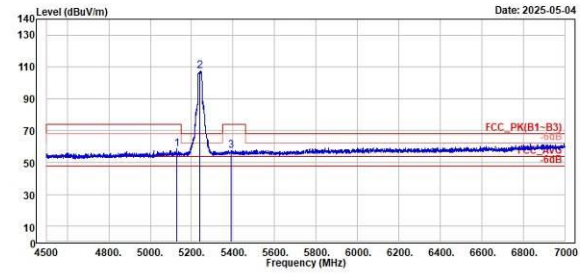
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CH 48 (Vertical) Peak



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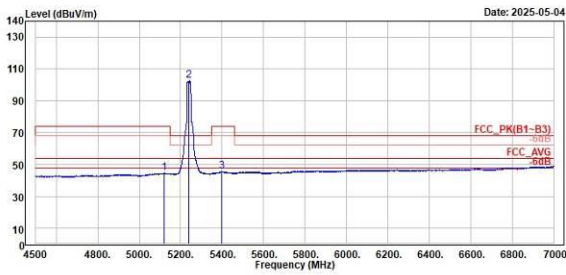


802.11ac VHT20

CH 48 (Horizontal) Average



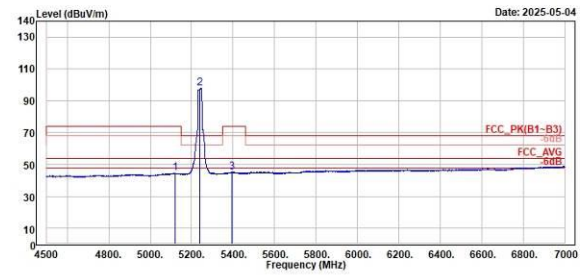
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5119.00	44.54	1.48	43.06	54.00	-9.46	283	24	Average	Horizontal	
2 *	5240.00	102.48	59.26	43.22	54.00	48.48	283	24	Average	Horizontal	
3	5398.50	45.52	1.46	44.06	54.00	-8.48	283	24	Average	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5121.00	44.61	1.55	43.06	54.00	-9.39	314	271	Average	Vertical	
2 *	5240.00	98.21	54.99	43.22	54.00	44.21	314	271	Average	Vertical	
3	5393.50	45.22	1.23	43.99	54.00	-8.78	314	271	Average	Vertical	

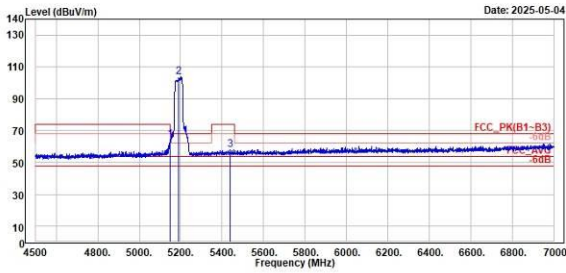
802.11ac VHT40

CH 38 (Horizontal) Peak

CH 38 (Vertical) Peak



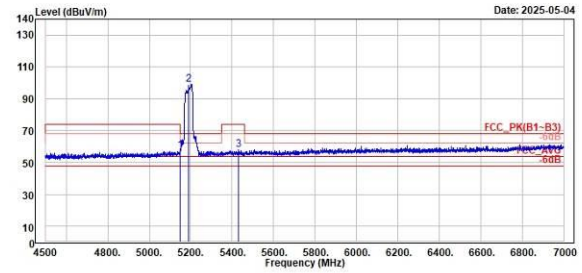
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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m		dBuV	dB/m	dBuV/m	dB	cm	deg			
5147.50	64.28	21.19	43.09	74.00	-9.72	272	25	Peak	Horizontal		
5190.00	103.97	60.61	43.36	68.20	35.77	272	25	Peak	Horizontal		
5441.00	57.99	14.13	43.86	74.00	-16.01	272	25	Peak	Horizontal		



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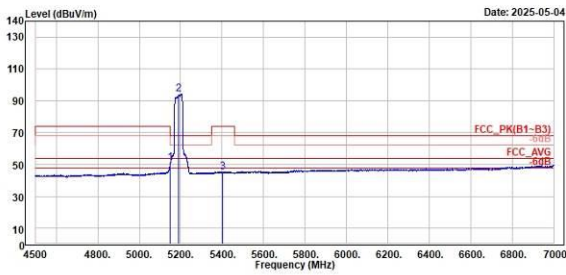
1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m		dBuV	dB/m	dBuV/m	dB	cm	deg			
5149.50	57.74	14.65	43.09	74.00	-16.26	320	281	Peak	Vertical		
5190.00	90.91	55.55	43.36	68.20	30.71	320	281	Peak	Vertical		
5429.50	58.27	14.34	43.93	74.00	-15.73	320	281	Peak	Vertical		

802.11ac VHT40

CH 38 (Horizontal) Average



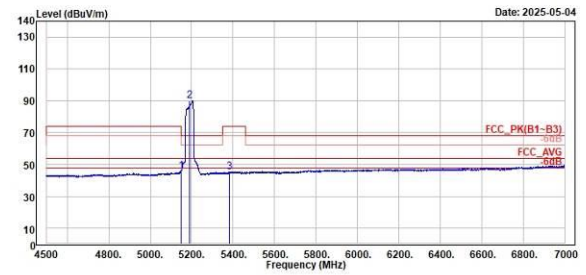
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	50.97	7.88	43.09	54.00	-3.03	272	25	Average	Horizontal	
2 *	5190.00	94.35	50.99	43.36	54.00	40.35	272	25	Average	Horizontal	
3	5401.00	45.50	1.43	44.07	54.00	-8.50	272	25	Average	Horizontal	



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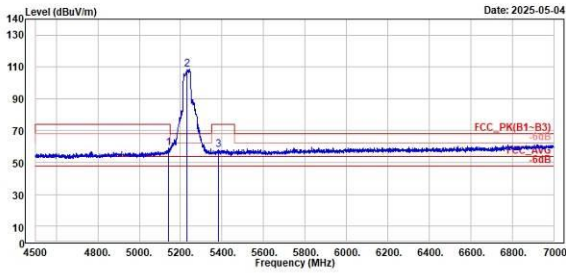
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	46.02	2.93	43.09	54.00	-7.98	320	281	Average	Vertical	
2 *	5190.00	90.00	46.64	43.36	54.00	36.00	320	281	Average	Vertical	
3	5383.00	45.34	1.51	43.83	54.00	-8.66	320	281	Average	Vertical	

802.11ac VHT40

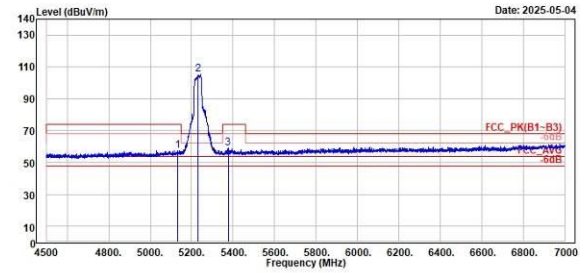
CH 46 (Horizontal) Peak



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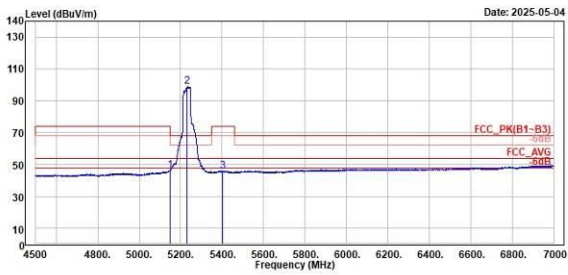


802.11ac VHT40

CH 46 (Horizontal) Average



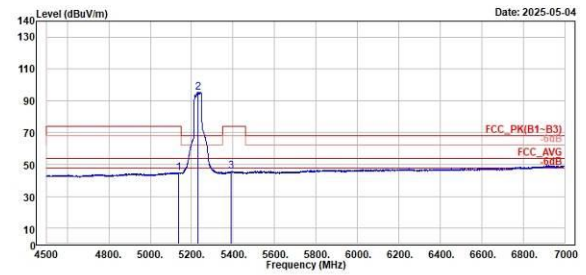
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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	46.35	3.26	43.09	54.00	-7.65	296	30 Average	Horizontal	
2 *	5230.00	99.00	55.73	43.27	54.00	45.00	296	30 Average	Horizontal	
3	5401.50	46.00	1.93	44.07	54.00	-8.00	296	30 Average	Horizontal	



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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5137.50	44.94	1.86	43.08	54.00	-9.06	314	272 Average	Vertical	
2 *	5230.00	95.43	52.16	43.27	54.00	41.43	314	272 Average	Vertical	
3	5389.00	45.65	1.73	43.92	54.00	-8.35	314	272 Average	Vertical	

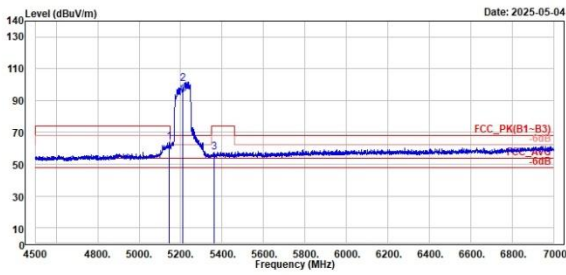
802.11ac VHT80

CH 42 (Horizontal) Peak

CH 42 (Vertical) Peak



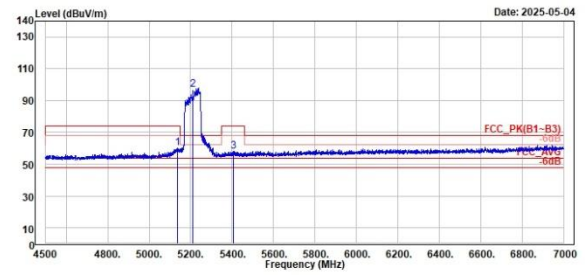
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5146.50	64.08	21.00	43.08	74.00	-9.92	284	24	Peak	Horizontal	
2 *	5210.00	100.67	57.30	43.37	68.20	32.47	284	24	Peak	Horizontal	
3	5361.50	57.42	13.91	43.51	74.00	-16.58	284	24	Peak	Horizontal	



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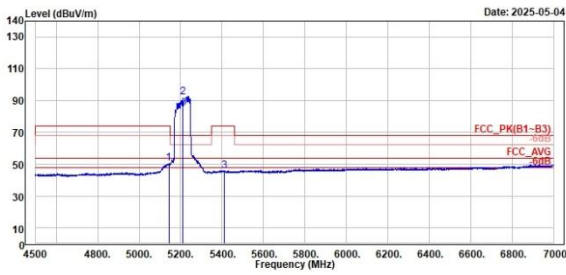
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5135.00	59.97	16.09	43.08	74.00	-14.03	313	272	Peak	Vertical	
2 *	5210.00	96.71	53.34	43.37	68.20	28.51	313	272	Peak	Vertical	
3	5406.00	58.08	14.03	44.05	74.00	-15.92	313	272	Peak	Vertical	

802.11ac VHT80

CH 42 (Horizontal) Average



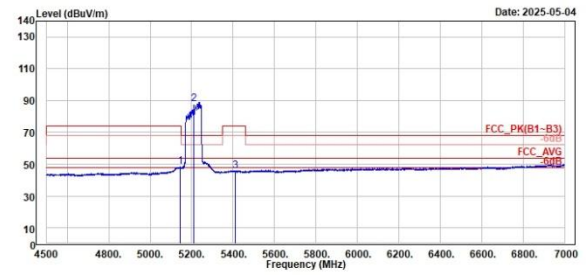
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5143.00	50.34	7.26	43.08	54.00	-3.66	284	24	Average	Horizontal		
2 *	5210.00	91.83	48.46	43.37	54.00	37.83	284	24	Average	Horizontal		
3	5409.50	45.99	1.96	44.03	54.00	-8.01	284	24	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5147.00	48.32	5.24	43.08	54.00	-5.68	313	272	Average	Vertical		
2 *	5210.00	87.89	44.52	43.37	54.00	33.89	313	272	Average	Vertical		
3	5411.50	45.83	1.81	44.02	54.00	-8.17	313	272	Average	Vertical		