

TEST REPORT

Applicant: SHENZHEN TENDA TECHNOLOGY CO.,LTD.

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Product Name: AX3000 Wi-Fi6 long-range access point

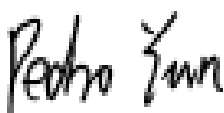
FCC ID: V7TI29V2

Standard(s): 47 CFR Part 15, Subpart E(15.407)
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New Rules
v02r01

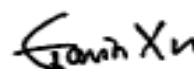
Report Number: 2402Z107520E-RF-00B

Report Date: 2025/4/11

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402Z107520E-RF-00B	Original Report	2025/4/11

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	AX3000 Wi-Fi6 long-range access point
EUT Model:	i29
Operation Frequency:	5150-5250MHz: 5180-5240 MHz(802.11a/n ht20/ac vht20/ax he20) 5190-5230 MHz(802.11n ht40/ac vht40/ax he40) 5210 MHz(802.11ac vht80/ax he80) 5250-5350MHz: 5260-5320 MHz (802.11a/n ht20/ac vht20/ax he20) 5270-5310 MHz(802.11n ht40/ac vht40/ax he40) 5290 MHz(802.11ac vht80/ax he80) 5150-5250MHz&5250-5350MHz: 5250MHz(802.11ac vht160/ax he160) 5725-5850MHz: 5745-5825 MHz (802.11a/n ht20/ac vht20/ax he20) 5755-5795 MHz(802.11n ht40/ac vht40/ax he40) 5775 MHz(802.11ac vht80/ax he80)
Maximum Average Conducted Output Power:	21.26dBm in 5150-5250 MHz Band 21.46dBm in 5250-5350 MHz Band 21.81dBm in 5725-5850 MHz Band
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM 802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM,256QAM, 1024QAM
Rated Input Voltage:	DC 48V from POE
Serial Number:	AC Line Conducted Emissions and Radiated Spurious Emissions:2V91-1 RF Conducted:2V91-6
EUT Received Date:	2024/11/30
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD.	BN017-A38048U	Input:100-240Vac 50/60Hz 1.0A Output:48Vdc 0.8A
POE	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD.	Unknown	DC 48V

1.3 Antenna Information Detail ▲

Antenna	Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chain 0	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	PIFA	50	5.15~5.25GHz	5.0dBi
				5.25~5.35GHz	5.0dBi
				5.725~5.85GHz	5.15dBi
Chain 1		PIFA	50	5.15~5.25GHz	5.0dBi
				5.25~5.35GHz	5.0dBi
				5.725~5.85GHz	5.15dBi
Chain 2		PIFA	50	5.15~5.25GHz	4.13dBi
				5.25~5.35GHz	4.13dBi
				5.725~5.85GHz	4.26dBi

Note:

The system supports 2T3R(Chain 0+ Chain 1, Chain 0+ Chain 2 and Chain 1+ Chain 2) Beamforming and Non-beamforming(CDD) modes at 802.11n/ac/ax modes.

Per KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements:

CDD Mode:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

directional gain=5.0 dBi for 5150-5250MHz

directional gain=5.0 dBi for 5250-5350MHz

directional gain=5.15 dBi for 5725-5850MHz

Beamforming Mode:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

directional gain=5.0dBi+3dB=8.0dBi for 5150-5250MHz

directional gain=5.0dBi+3dB=8.0dBi for 5250-5350MHz

directional gain=5.15dBi+3dB=8.15dBi for 5725-5850MHz

For power spectral density (PSD) measurements:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

directional gain=5.0dBi+3dB=8.0dBi for 5150-5250MHz

directional gain=5.0dBi+3dB=8.0dBi for 5250-5350MHz

directional gain=5.15dBi+3dB=8.15dBi for 5725-5850MHz

The design of compliance with §15.203:

- ☒ Unit uses a permanently attached antenna.
- ☐ Unit uses a unique coupling to the intentional radiator.
- ☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
FCC §15.247(i), §15.407(f), §1.1310	Maximum Permissible Exposure	Compliant
Note 1: For AC line conducted emissions, the maximum output power channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~40GHz, the maximum output power channel was tested.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For 802.11a/n ht20/ac vht20/ax he20:

5150-5250MHz Band		5250-5350 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	149	5745
40	5200	56	5280	153	5765
44	5220	60	5300	157	5785
48	5240	64	5320	161	5805
/	/	/	/	165	5825

For 802.11n ht40/ac vht40/ax he40:

5150-5250MHz		5250-5350 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	151	5755
46	5230	62	5310	159	5795

For 802.11ac vht80/ax he80:

5150-5250MHz		5250-5350 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	155	5775

For 802.11ac vht160/ax he160:

5150-5250MHz&5250-5350 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250	/	/

3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration is below:

EUT Exercise Software:		QATool_Dbg.exe				
5150-5250 MHz Band:						
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting		
				Chain 0	Chain 1	Chain 2
802.11a	Lowest	5180	6Mbps	22	20	20
	Middle	5200	6Mbps	18	20	20
	Highest	5240	6Mbps	18	20	20
802.11n ht20	Lowest	5180	MCS0	16.5	16.5	16.5
	Middle	5200	MCS0	16.5	16.5	16.5
	Highest	5240	MCS0	16.5	16.5	16.5
802.11n ht40	Lowest	5190	MCS0	17	17	17
	Highest	5230	MCS0	14.5	14.5	14.5
802.11ac vht20	Lowest	5180	MCS0	15.5	15.5	15.5
	Middle	5200	MCS0	15.5	15.5	15.5
	Highest	5240	MCS0	15.5	15.5	15.5
802.11ac vht40	Lowest	5190	MCS0	14	14	14
	Highest	5230	MCS0	14	14	14
802.11ac vht80	Middle	5210	MCS0	12	12	12
802.11ax he20	Lowest	5180	MCS0	15.5	12	12
	Middle	5200	MCS0	15.5	15.5	15.5
	Highest	5240	MCS0	15.5	15.5	15.5
802.11ax he40	Lowest	5190	MCS0	13.5	13.5	13.5
	Highest	5230	MCS0	13.5	13.5	13.5
802.11ax he80	Middle	5210	MCS0	13	13	13

5250-5350 MHz Band:						
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting		
				Chain 0	Chain 1	Chain 2
802.11a	Lowest	5260	6Mbps	18	22	22
	Middle	5280	6Mbps	22	22	22
	Highest	5320	6Mbps	22	22	22
802.11n ht20	Lowest	5260	MCS0	14	14	14
	Middle	5280	MCS0	14	14	14
	Highest	5320	MCS0	14	14	14
802.11n ht40	Lowest	5270	MCS0	16	16	16
	Highest	5310	MCS0	16	16	16
802.11ac vht20	Lowest	5260	MCS0	16	16	16
	Middle	5280	MCS0	16	16	16
	Highest	5320	MCS0	16	16	16
802.11ac vht40	Lowest	5270	MCS0	18	18	18
	Highest	5310	MCS0	18	18	18
802.11ac vht80	Middle	5290	MCS0	19	19	19
802.11ac vht160	Middle	5250	MCS0	11	11	11
802.11ax he20	Lowest	5260	MCS0	15	15	15
	Middle	5280	MCS0	15	15	15
	Highest	5320	MCS0	15	15	15
802.11ax he40	Lowest	5270	MCS0	18	18	18
	Highest	5310	MCS0	18	18	18
802.11ax he80	Middle	5290	MCS0	17.5	17.5	17.5
802.11ax he160	Middle	5250	MCS0	14.5	14.5	14.5

5725-5850 MHz Band:						
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting		
				Chain 0	Chain 1	Chain 2
802.11a	Lowest	5745	6Mbps	20.5	17	17
	Middle	5785	6Mbps	20.5	17	17
	Highest	5825	6Mbps	20.5	17	17
802.11n ht20	Lowest	5745	MCS0	15.5	15.5	15.5
	Middle	5785	MCS0	15.5	15.5	15.5
	Highest	5825	MCS0	15.5	15.5	15.5
802.11n ht40	Lowest	5755	MCS0	15.5	15.5	15.5
	Highest	5795	MCS0	15.5	15.5	15.5
802.11ac vht20	Lowest	5745	MCS0	16.5	16.5	16.5
	Middle	5785	MCS0	16.5	16.5	16.5
	Highest	5825	MCS0	16.5	16.5	16.5
802.11ac vht40	Lowest	5755	MCS0	16.5	16.5	16.5
	Highest	5795	MCS0	16.5	16.5	16.5
802.11ac vht80	Middle	5775	MCS0	18	18	18
802.11ax he20	Lowest	5745	MCS0	19	19	19
	Middle	5785	MCS0	19	19	19
	Highest	5825	MCS0	19	19	19
802.11ax he40	Lowest	5755	MCS0	16.5	16.5	16.5
	Highest	5795	MCS0	16.5	16.5	16.5
802.11ax he80	Middle	5775	MCS0	18	18	18

Note:

1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
2. The device supports SISO in all modes, and MIMO 2T3R in 802.11n/ac/ax modes, per pretest, 2T3R mode was the worst mode and reported for 802.11n/ac/ax modes.
3. The system supports Beamforming and Non-beamforming modes at 802.11n/ac/ax modes. The two modes have same output power, which are declared by manufacturer. Therefore, the all RF conducted and Radiated Spurious Emissions test were performed at Beamforming mode.
4. For 802.11 ax mode, the device only supports full-RU.

3.3 Support Equipment List and Details

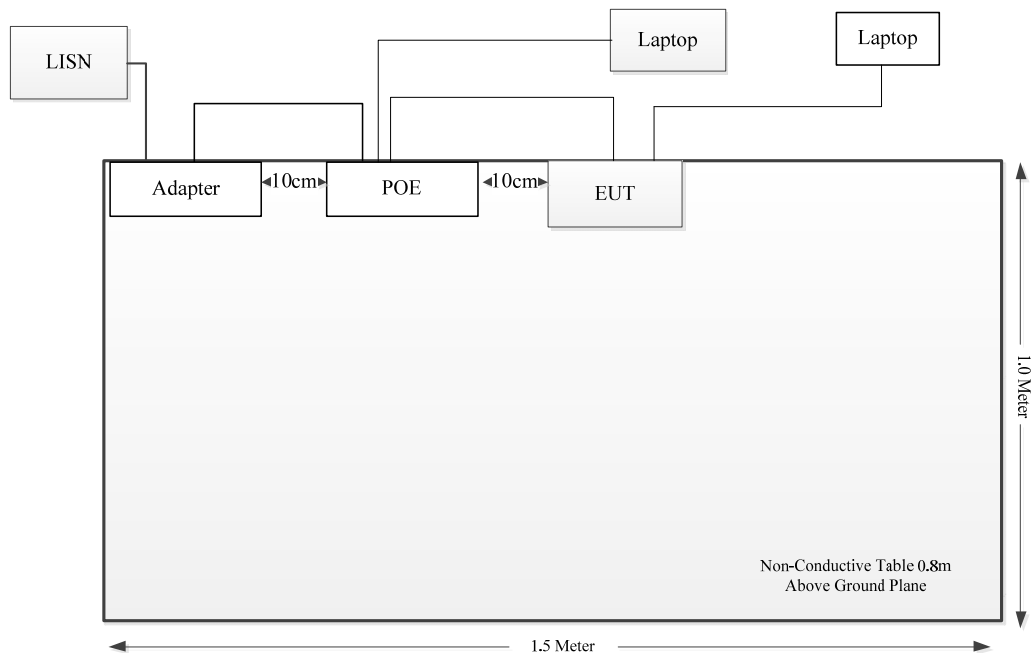
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop 1	E450	PF-OMR8KV
Lenovo	Laptop 2	G510	EMZBPC21103006

3.4 Support Cable List and Details

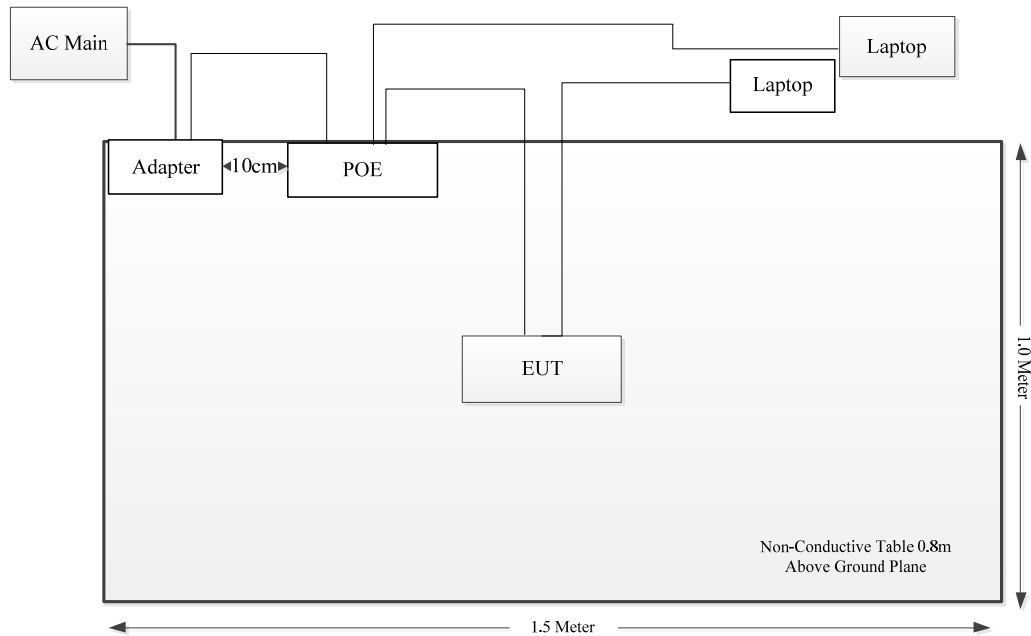
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	No	5	POE	Laptop 1
RJ45 Cable	No	No	5	EUT	Laptop 2
RJ45 Cable	No	No	0.6	EUT	POE
DC Cable	No	No	1.3	Adapter	POE

3.5 Block Diagram of Test Setup

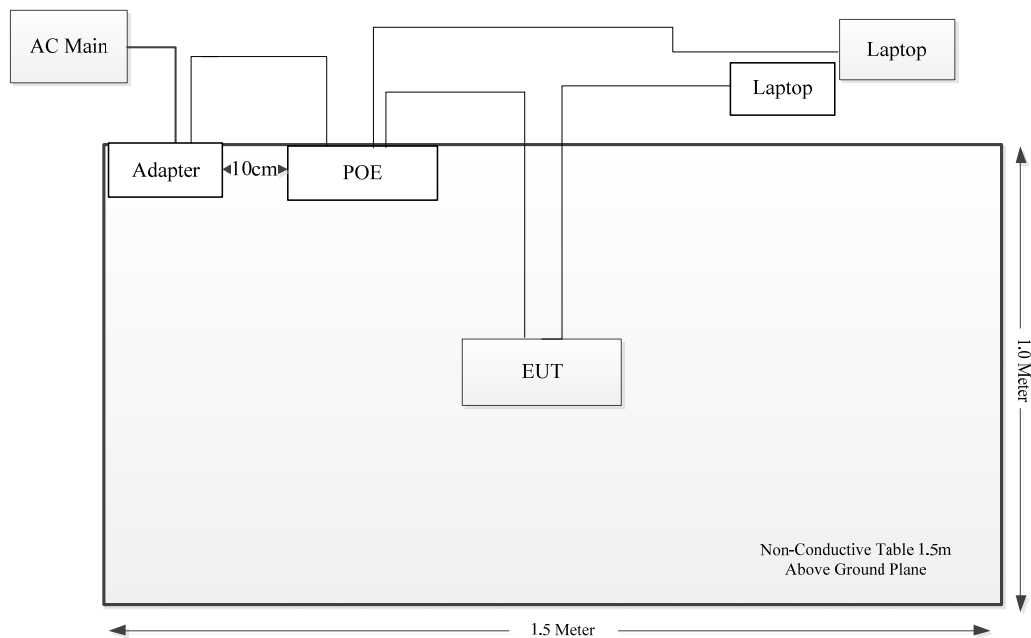
AC line conducted emissions:



Spurious Emissions:
Below 1GHz:



Above 1GHz:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

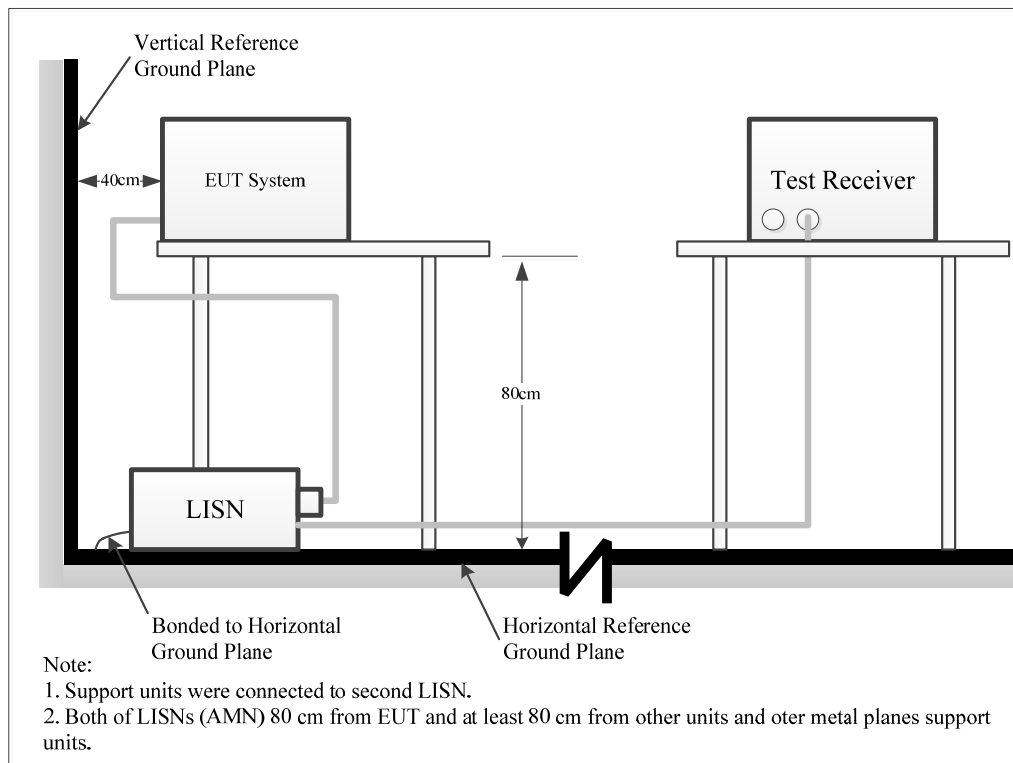
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

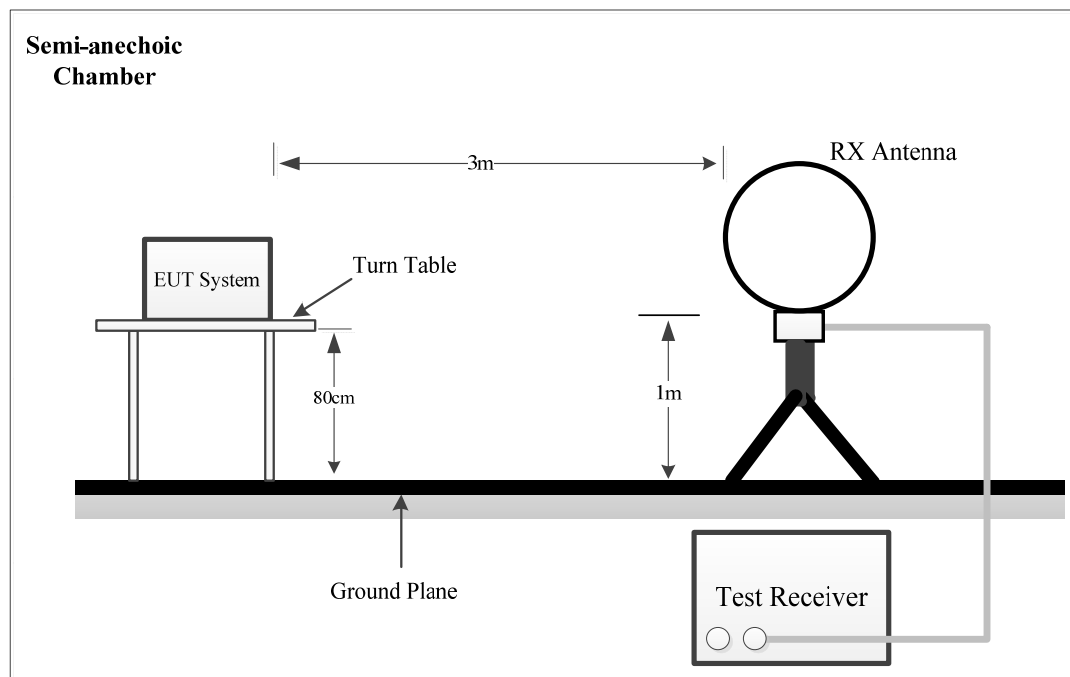
FCC §15.407 (b);

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

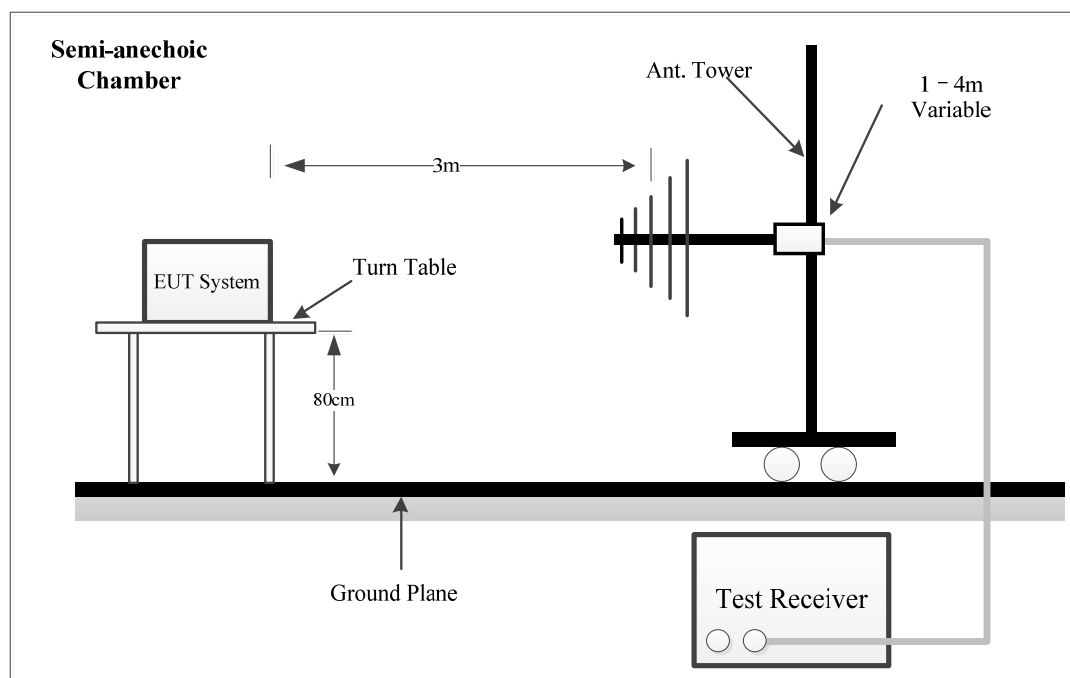
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (4) For transmitters operating solely in the 5.725-5.850 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
 - (8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
 - (9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
 - (10) The provisions of § 15.205 apply to intentional radiators operating under this section.
 - (11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
- (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

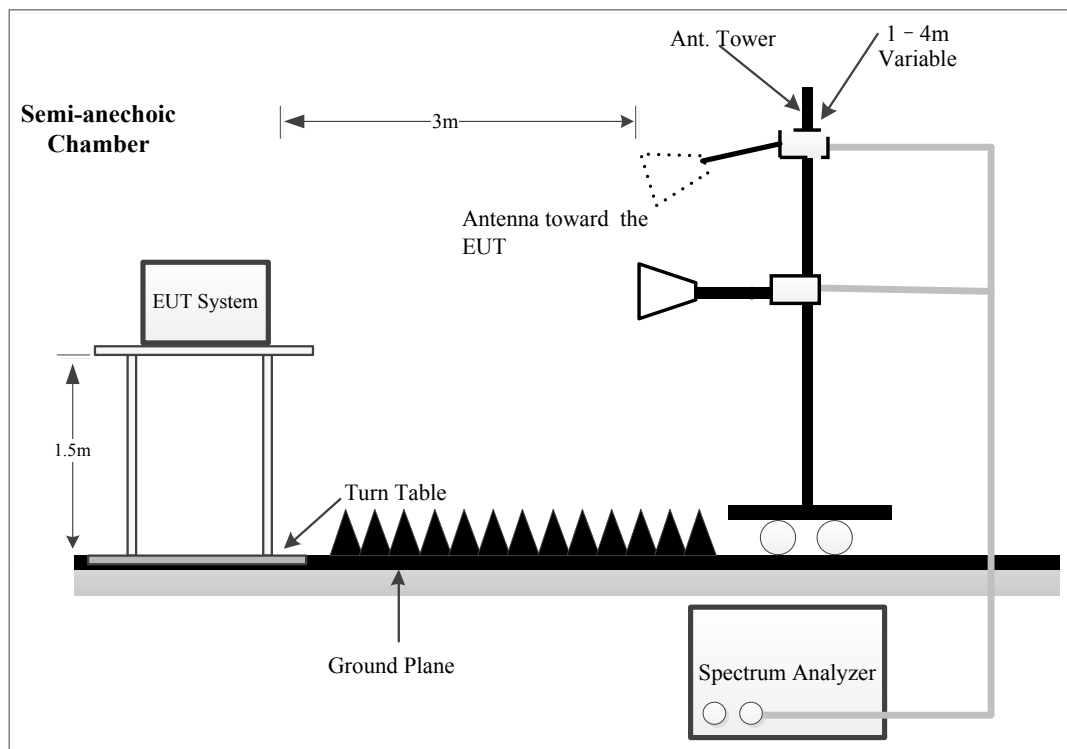
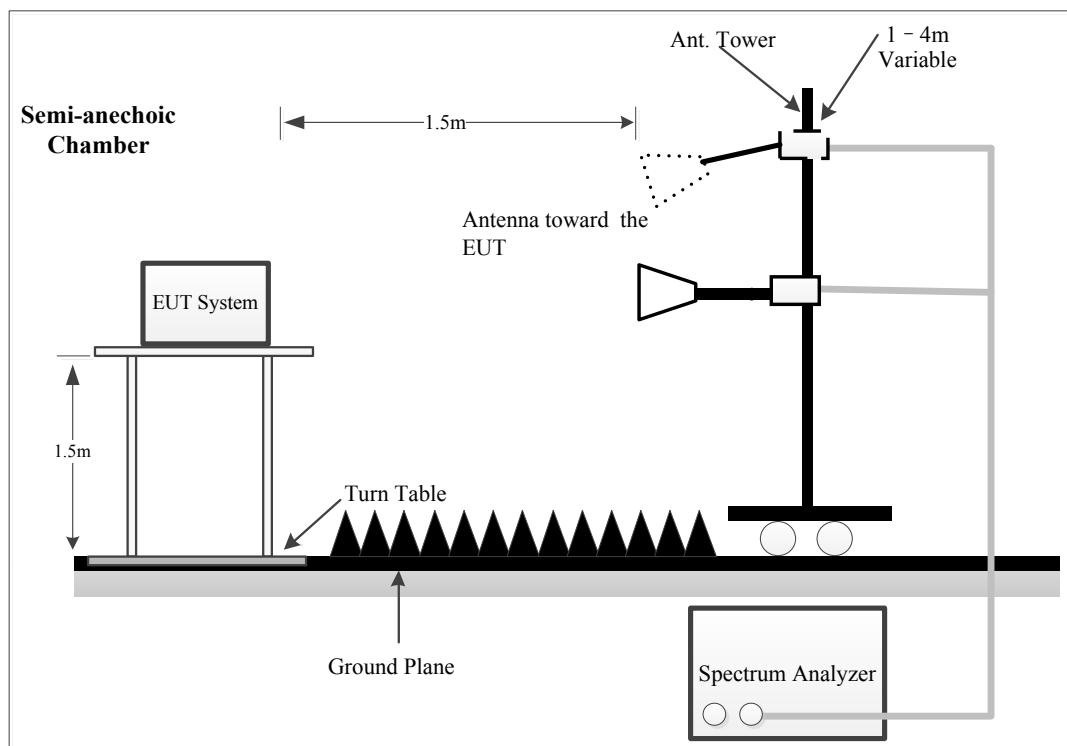
4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:



1-26.5GHz:**26.5-40GHz:**

The radiated emission tests were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	300Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	100 kHz	300 kHz	/	PK
	QP	/	/	120kHz	QP

1GHz- 40GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	$\geq 1/T$	PK

Note: T is minimum transmission duration

4.2.4 Test Procedure

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

For Radiated 26.5-40GHz test, which was performed at 1.5 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance } [3m]/\text{test distance } [1.5m])$ dB= 6.0 dB

4.2.5 Corrected Result & Margin Calculation

The basic equation except 26.5-40GHz test is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

For Radiated 26.5-40GHz test:

Factor = Antenna Factor + Cable Loss - Distance extrapolation Factor

Result = Reading + Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.2.6 Test Result

Please refer to section 5.2.

4.3 Emission Bandwidth

4.3.1 Applicable Standard

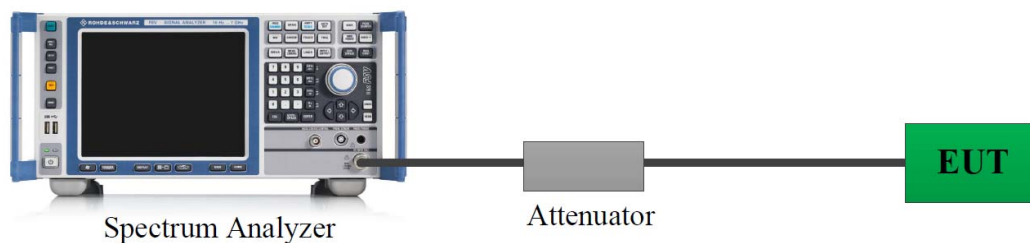
FCC §15.407 (a),(h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- 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 instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) ≥ 3 RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with

the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.3.4 Test Result

Please refer to section 5.3 and section 5.4.

4.4 Maximum Conducted Output Power

4.4.1 Applicable Standard

FCC §15.407(a) (1)(ii)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

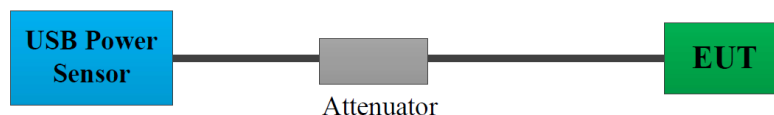
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

Method PM-G is measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

4.4.4 Test Result

Please refer to section 5.5.

4.5 Maximum Power Spectral Density

4.5.1 Applicable Standard

FCC §15.407(a) (1)(ii)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

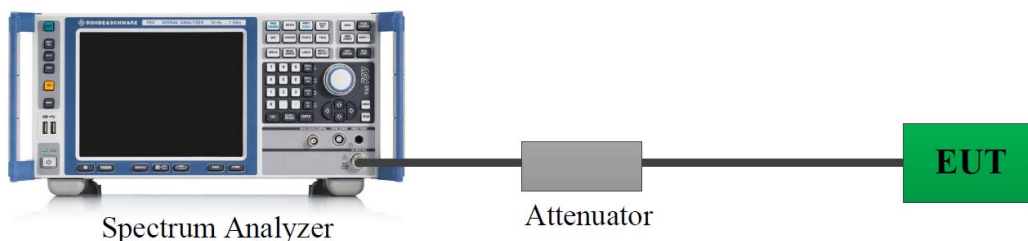
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

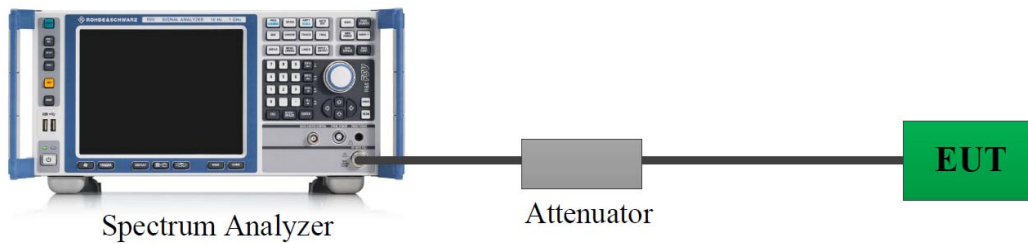
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

4.5.4 Test Result

Please refer to section 5.6.

4.6 Duty Cycle

4.6.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

4.6.3 Judgment

Report Only. Please refer to section 5.7.

4.7 Antenna Requirement

4.7.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.7.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2V91-1	Test Date:	2024/12/3
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.1	Relative Humidity: (%)	56	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

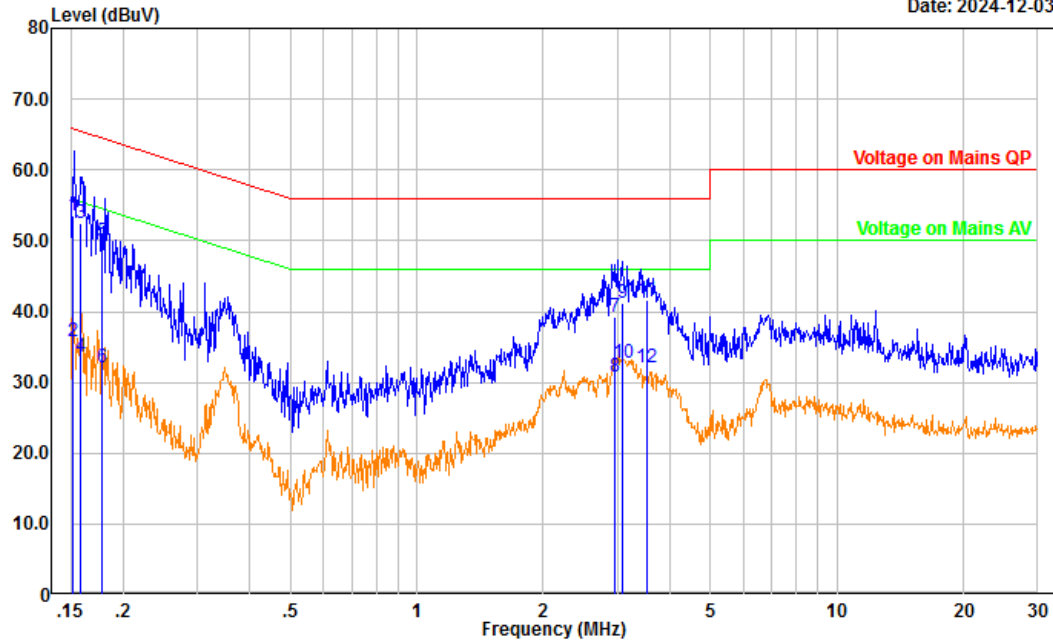
Test Data:

Note: 802.11ax20 5785MHz (Chain 0+ Chain 1) was tested.

Project No.: 2402Z107520E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2V91-1
Tester: Yukin Qiu

Date: 2024-12-03

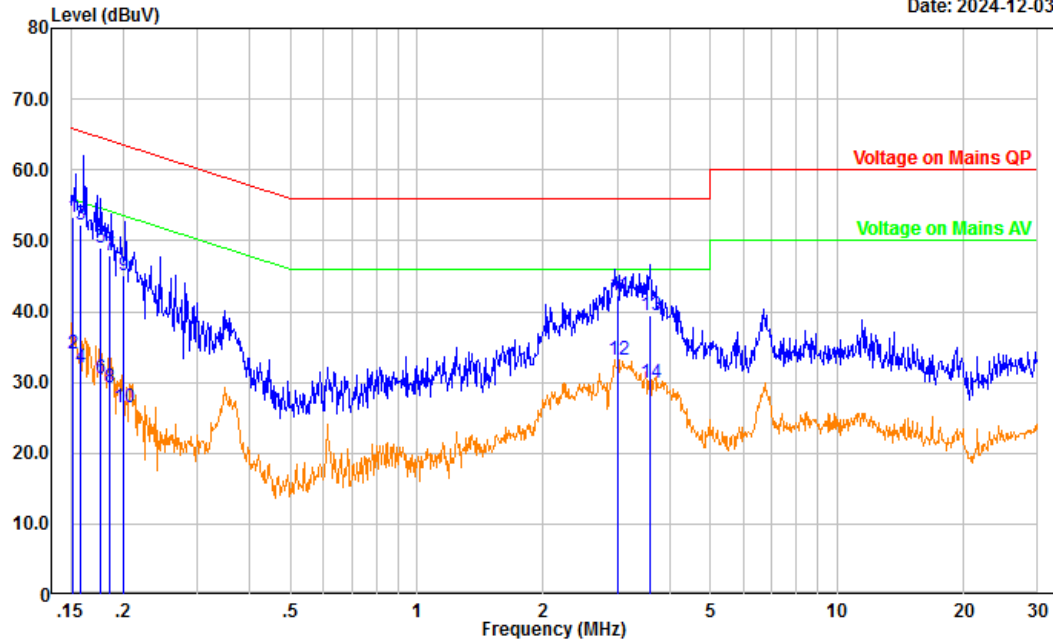


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.152	42.90	10.75	53.65	65.87	12.22	QP
2	0.152	24.95	10.75	35.70	55.87	20.17	Average
3	0.158	41.64	10.77	52.41	65.57	13.16	QP
4	0.158	22.88	10.77	33.65	55.57	21.92	Average
5	0.178	38.95	10.81	49.76	64.57	14.81	QP
6	0.178	21.38	10.81	32.19	54.57	22.38	Average
7	2.950	28.47	10.79	39.26	56.00	16.74	QP
8	2.950	20.02	10.79	30.81	46.00	15.19	Average
9	3.081	30.49	10.79	41.28	56.00	14.72	QP
10	3.081	21.99	10.79	32.78	46.00	13.22	Average
11	3.517	30.76	10.77	41.53	56.00	14.47	QP
12	3.517	21.34	10.77	32.11	46.00	13.89	Average

Project No.: 2402Z107520E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2V91-1
Tester: Yukin Qiu

Date: 2024-12-03



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.152	42.46	10.85	53.31	65.87	12.56	QP
2	0.152	23.13	10.85	33.98	55.87	21.89	Average
3	0.158	41.50	10.85	52.35	65.54	13.19	QP
4	0.158	21.13	10.85	31.98	55.54	23.56	Average
5	0.177	38.22	10.85	49.07	64.62	15.55	QP
6	0.177	19.62	10.85	30.47	54.62	24.15	Average
7	0.186	36.98	10.85	47.83	64.22	16.39	QP
8	0.186	18.49	10.85	29.34	54.22	24.88	Average
9	0.201	34.32	10.85	45.17	63.58	18.41	QP
10	0.201	15.61	10.85	26.46	53.58	27.12	Average
11	3.019	31.33	10.89	42.22	56.00	13.78	QP
12	3.019	22.34	10.89	33.23	46.00	12.77	Average
13	3.588	28.48	10.87	39.35	56.00	16.65	QP
14	3.588	19.07	10.87	29.94	46.00	16.06	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	2V91-1	Test Date:	2024/12/12
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.9	Relative Humidity: (%)	40	ATM Pressure: (kPa)	102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

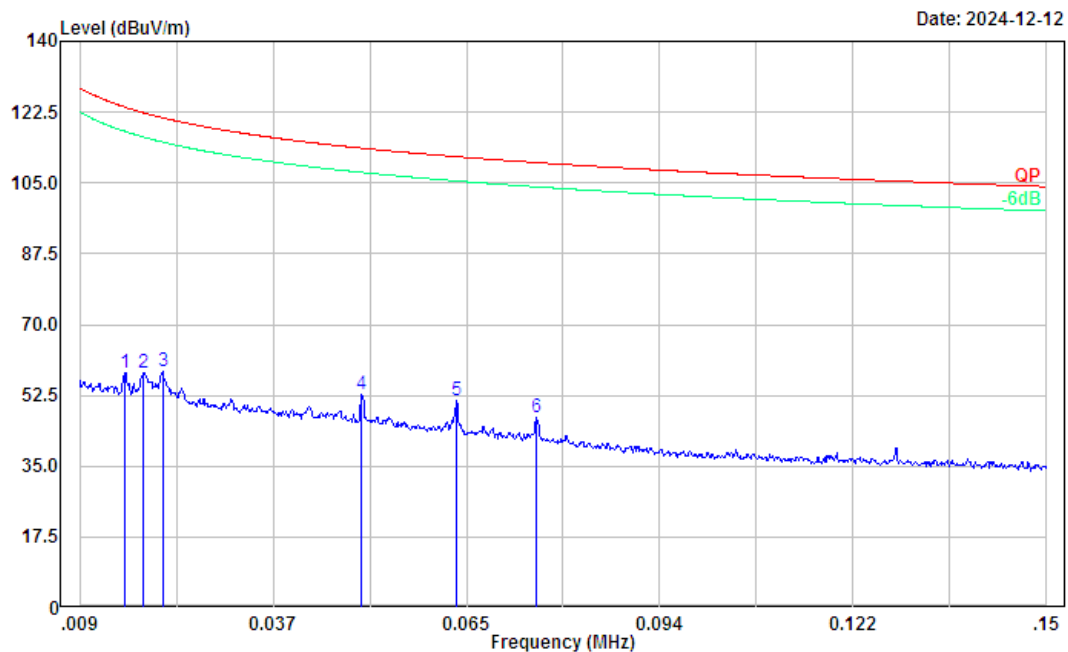
Note: 802.11ax20 5785MHz (Chain 0+ Chain 1) was tested.

9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2402Z107520E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:300Hz VBW:1kHz

Serial No.: 2V91-1
Tester: Alan Xie

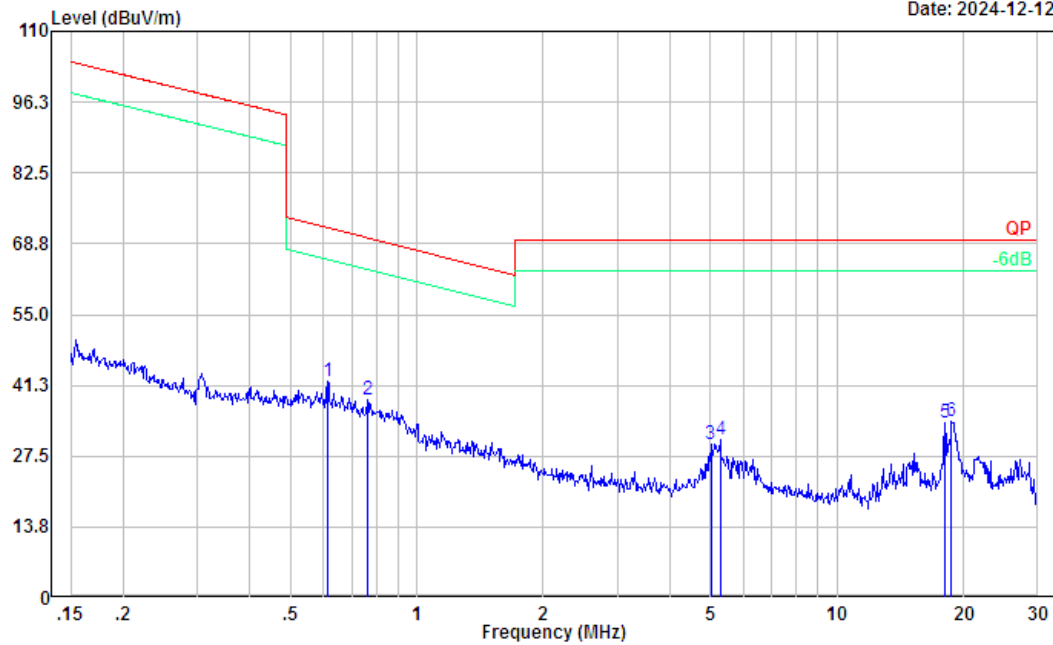


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.016	8.00	50.12	58.12	123.73	65.61	Peak
2	0.018	8.62	49.43	58.05	122.35	64.30	Peak
3	0.021	9.57	48.75	58.32	121.11	62.79	Peak
4	0.050	9.49	43.41	52.90	113.60	60.70	Peak
5	0.064	9.92	41.15	51.07	111.48	60.41	Peak
6	0.076	8.04	39.17	47.21	110.04	62.83	Peak

Project No.: 2402Z107520E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:10kHz VBW:30kHz

Serial No.: 2V91-1
Tester: Alan Xie

Date: 2024-12-12



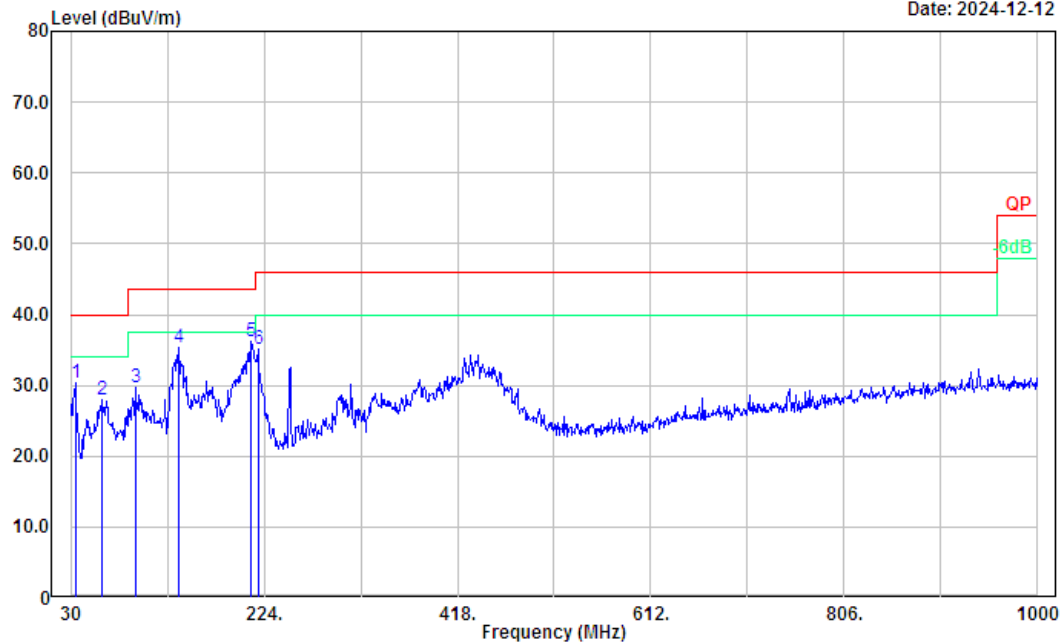
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.614	20.29	21.70	41.99	71.80	29.81	Peak
2	0.763	18.48	20.04	38.52	69.87	31.35	Peak
3	5.005	24.18	5.70	29.88	69.54	39.66	Peak
4	5.277	25.14	5.51	30.65	69.54	38.89	Peak
5	18.039	30.30	3.78	34.08	69.54	35.46	Peak
6	18.721	30.65	3.49	34.14	69.54	35.40	Peak

30MHz-1GHz

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V91-1
Tester: Alan Xie

Date: 2024-12-12

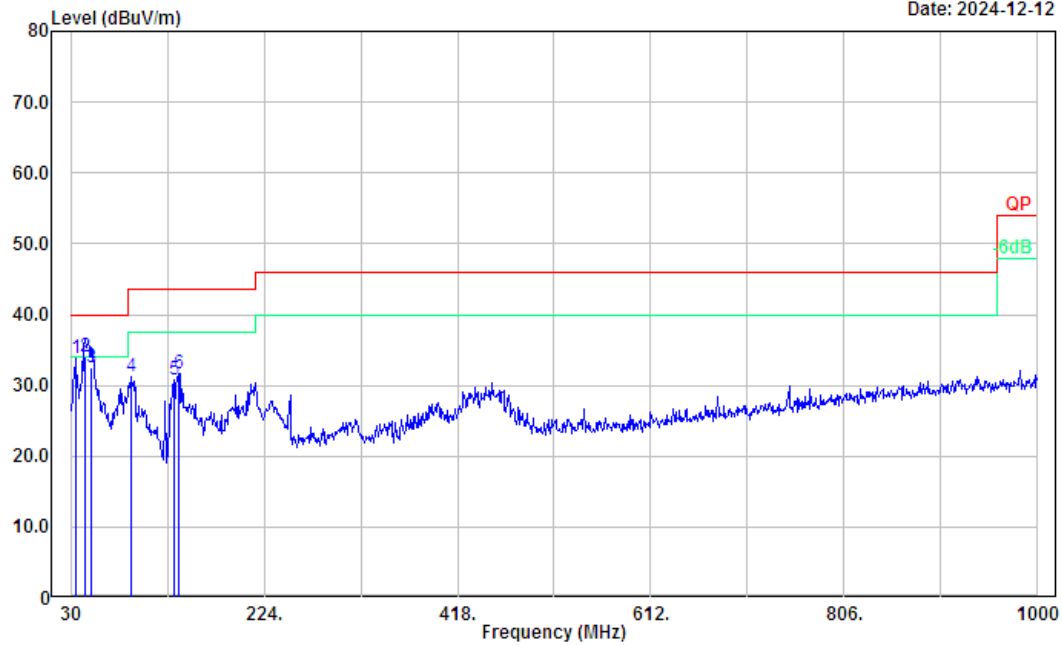


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	34.85	37.39	-7.00	30.39	40.00	9.61	Peak
2	62.01	45.08	-17.03	28.05	40.00	11.95	Peak
3	94.99	44.97	-15.18	29.79	43.50	13.71	Peak
4	138.64	45.97	-10.63	35.34	43.50	8.16	Peak
5	210.42	47.19	-11.05	36.14	43.50	7.36	Peak
6	218.18	46.15	-10.95	35.20	46.00	10.80	Peak

Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V91-1
Tester: Alan Xie

Date: 2024-12-12



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	34.85	40.79	-7.00	33.79	40.00	6.21	Peak
2	44.55	47.04	-13.09	33.95	40.00	6.05	QP
3	50.37	49.01	-16.47	32.54	40.00	7.46	QP
4	90.14	47.92	-16.75	31.17	43.50	12.33	Peak
5	133.79	41.11	-10.26	30.85	43.50	12.65	Peak
6	138.64	42.35	-10.63	31.72	43.50	11.78	Peak

2) 1-40GHz:

Serial Number:	2V91-1	Test Date:	2024/12/25-2025/2/5
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Colin Yang, Nat Zhou, Leo Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	19.4-20.8	Relative Humidity: (%)	33-47	ATM Pressure: (kPa)	101.1-102.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

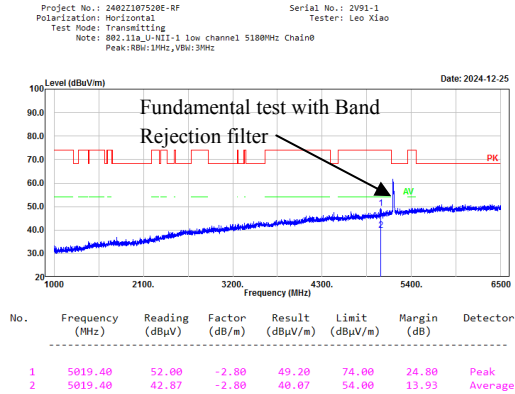
Test Data:

Please refer to the below table and plots.

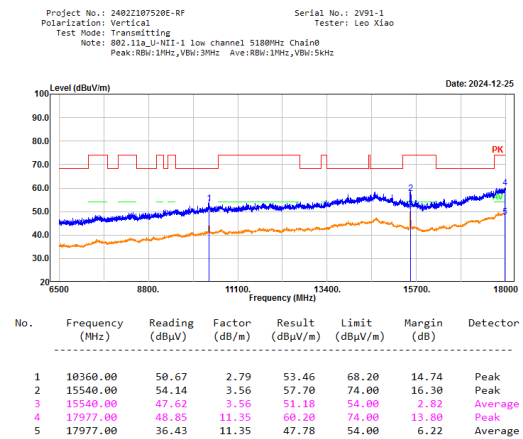
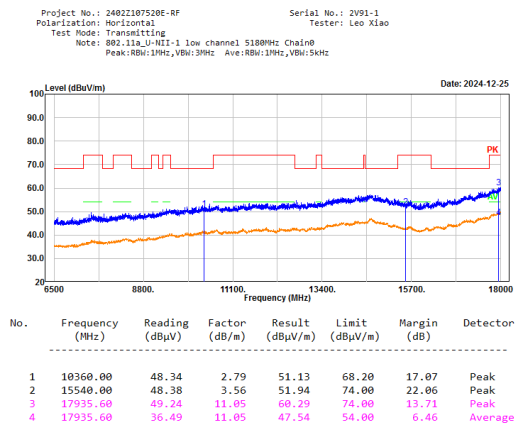
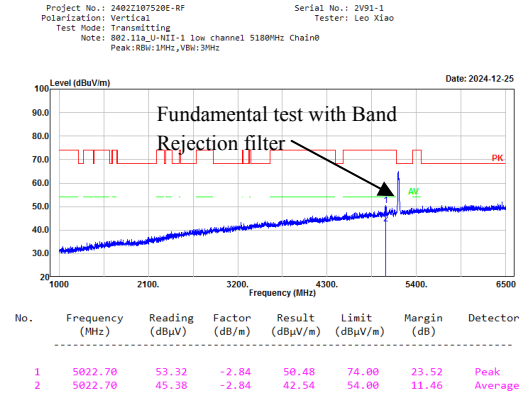
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

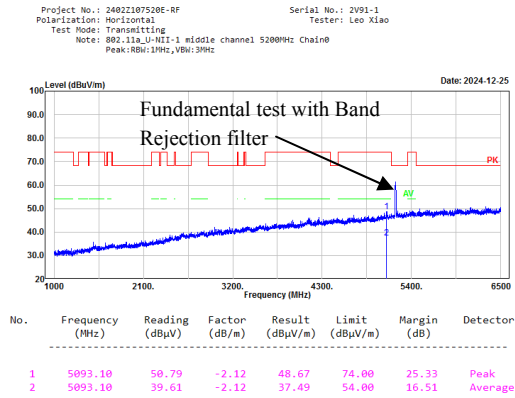
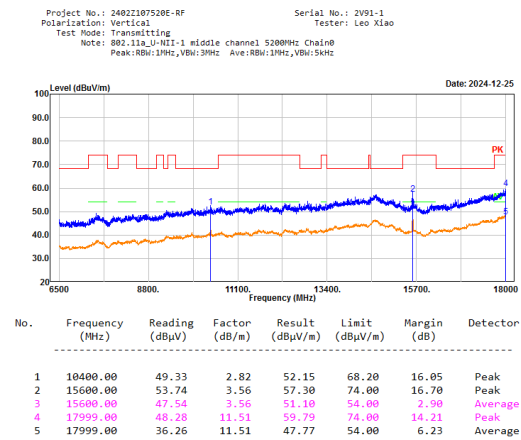
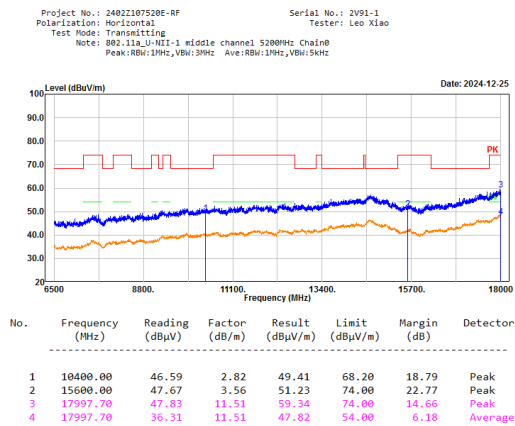
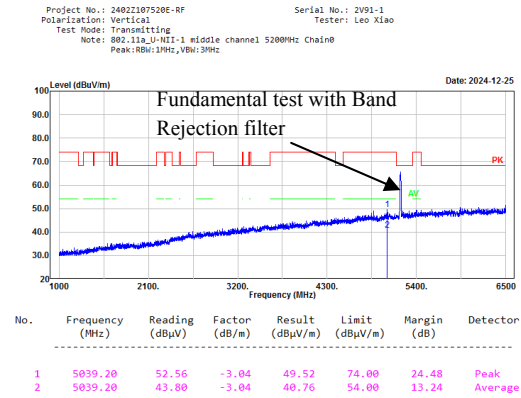
1-18GHz:
5150-5250MHz :
Chain 0:

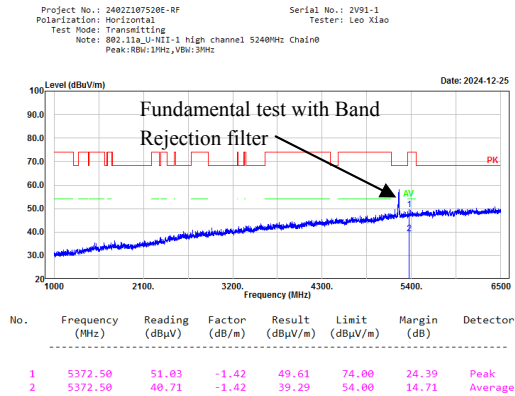
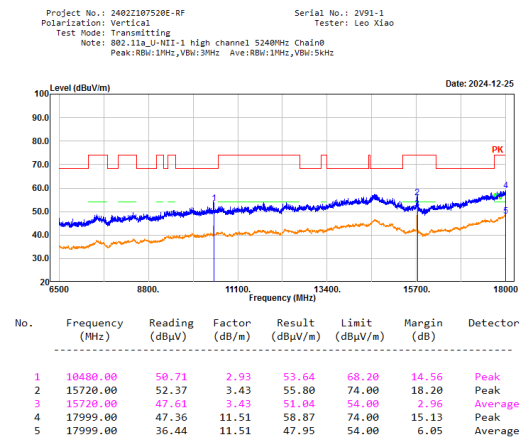
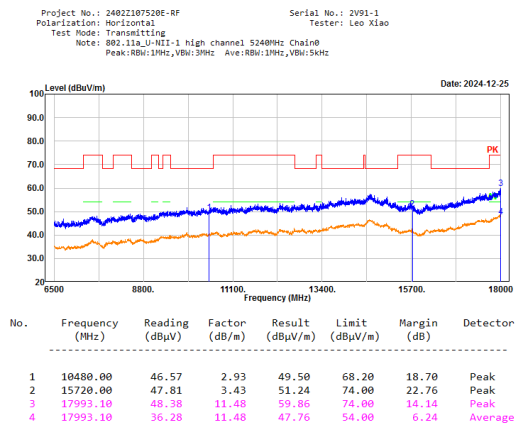
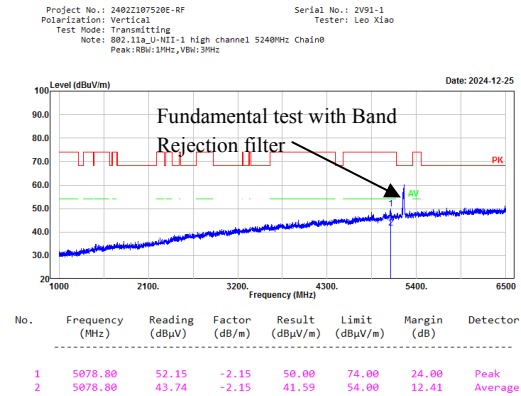
**802.11a mode, Low Channel, Chain 0,
Horizontal**



802.11a mode, Low Channel, Chain 0, Vertical



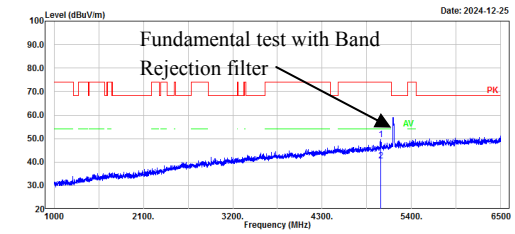
802.11a mode, Middle Channel, Chain 0,
Horizontal802.11a mode, Middle Channel, Chain 0,
Vertical

802.11a mode, High Channel, Chain 0,
Horizontal802.11a mode, High Channel, Chain 0,
Vertical

Chain 1:

802.11a mode, Low Channel, Chain 1, Horizontal

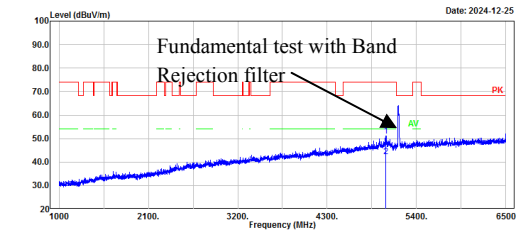
Project No.: 2402Z107520E-RF Serial No.: 2V91-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:30Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5021.60	52.32	-2.83	49.49	74.00	24.51	Peak
2	5021.60	43.46	-2.83	40.63	54.00	13.37	Average

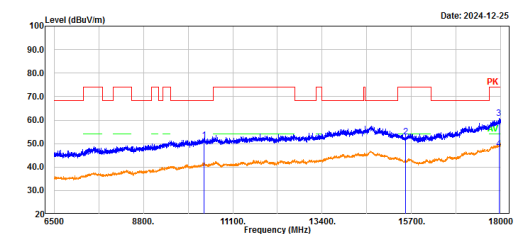
802.11a mode, Low Channel, Chain 1, Vertical

Project No.: 2402Z107520E-RF Serial No.: 2V91-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:30Hz



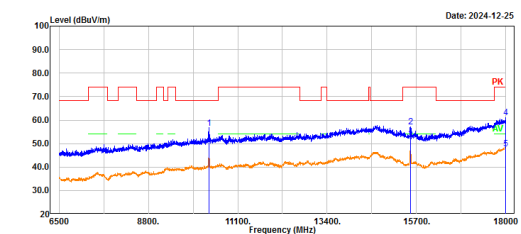
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5021.60	53.92	-2.83	51.09	74.00	22.91	Peak
2	5021.60	45.30	-2.83	42.47	54.00	11.53	Average

Project No.: 2402Z107520E-RF Serial No.: 2V91-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

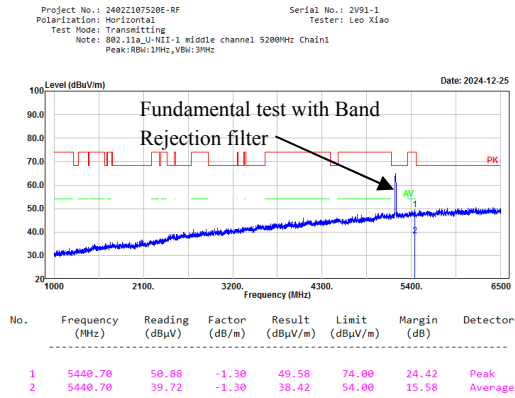
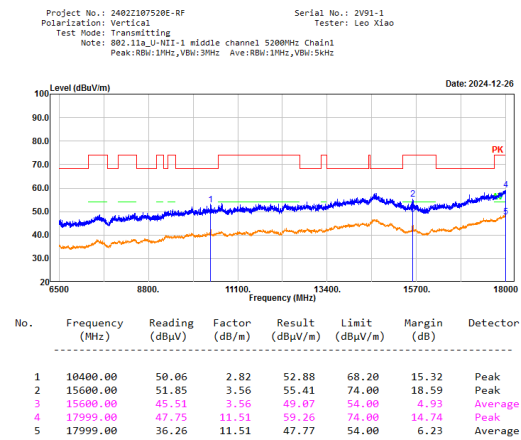
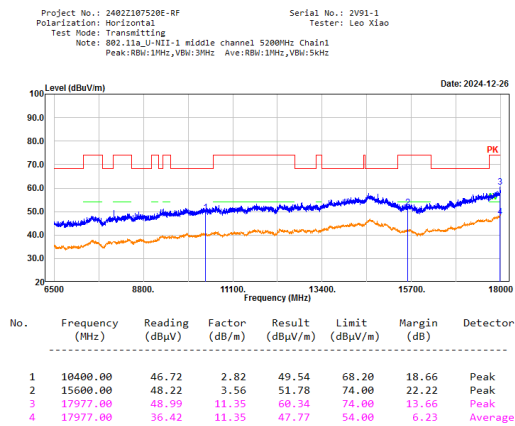
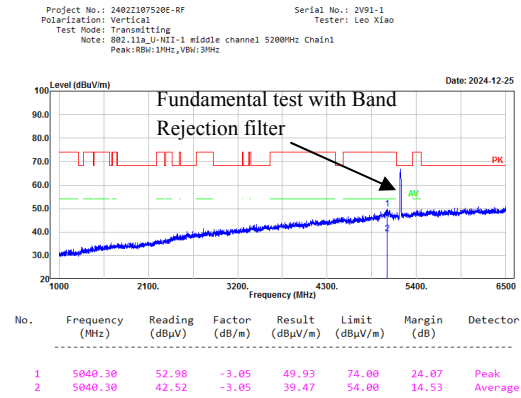


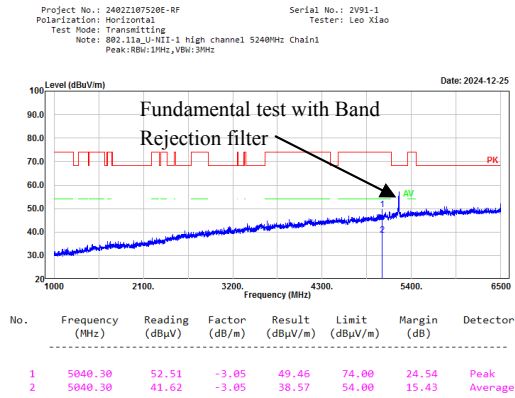
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10360.00	48.66	2.79	51.45	68.20	16.75	Peak
2	15540.00	49.49	3.56	53.05	74.00	20.95	Peak
3	17947.10	49.53	11.13	60.66	74.00	13.34	Peak
4	17947.10	36.53	11.13	47.66	54.00	6.34	Average

Project No.: 2402Z107520E-RF Serial No.: 2V91-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz

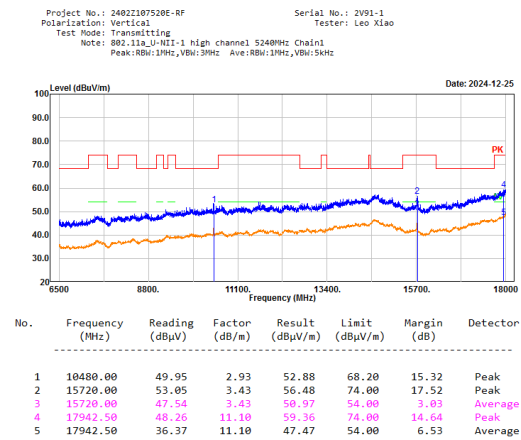
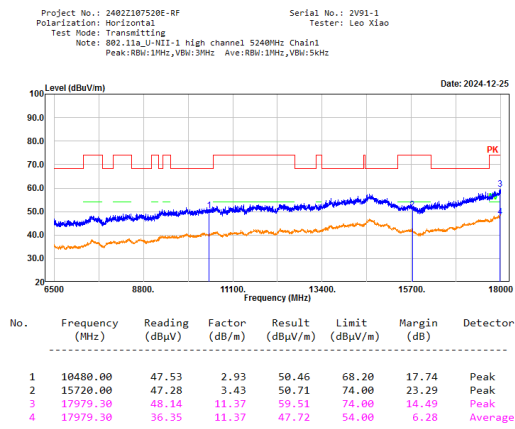
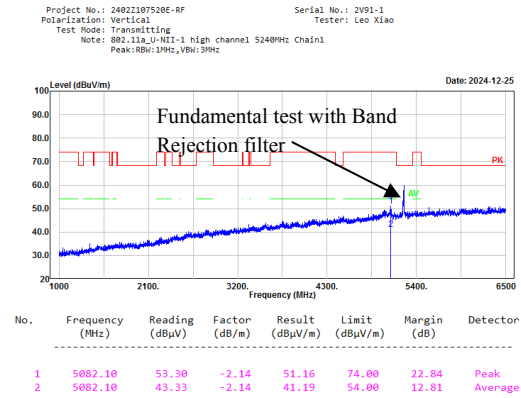


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10360.00	53.60	2.79	56.39	68.20	11.81	Peak
2	15540.00	53.47	3.56	57.03	74.00	16.97	Peak
3	15540.00	48.25	3.56	51.81	54.00	2.19	Average
4	17988.50	49.65	11.43	61.08	74.00	12.92	Peak
5	17988.50	36.22	11.43	47.65	54.00	6.35	Average

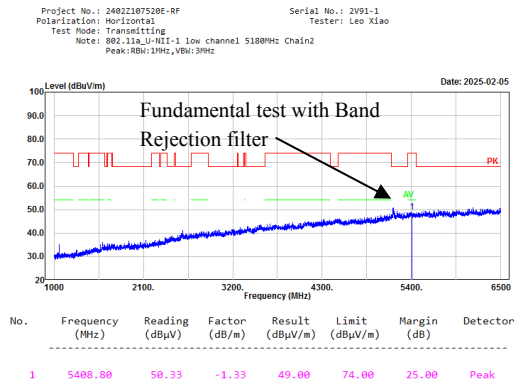
802.11a mode, Middle Channel, Chain 1,
Horizontal802.11a mode, Middle Channel, Chain 1,
Vertical

802.11a mode, High Channel, Chain 1,
Horizontal

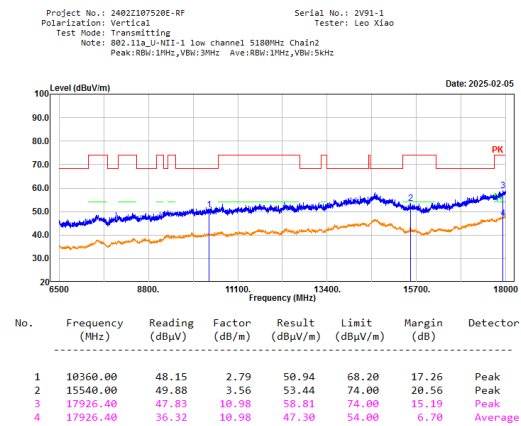
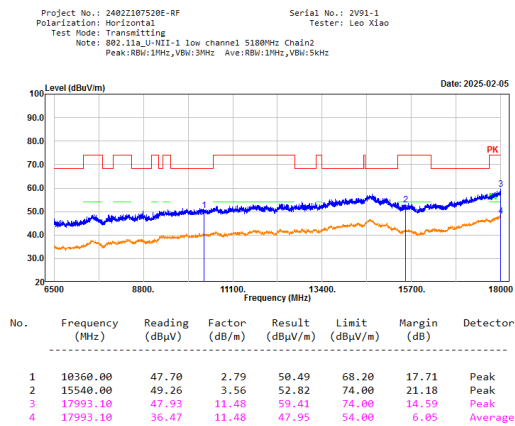
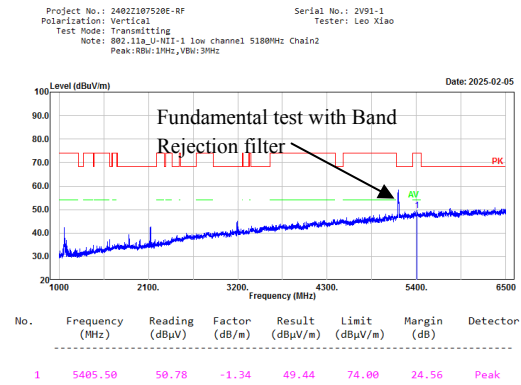
802.11a mode, High Channel, Chain 1, Vertical

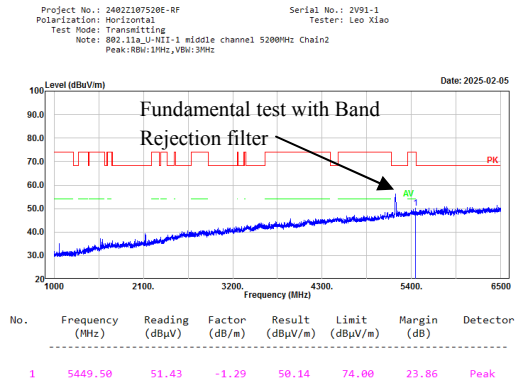
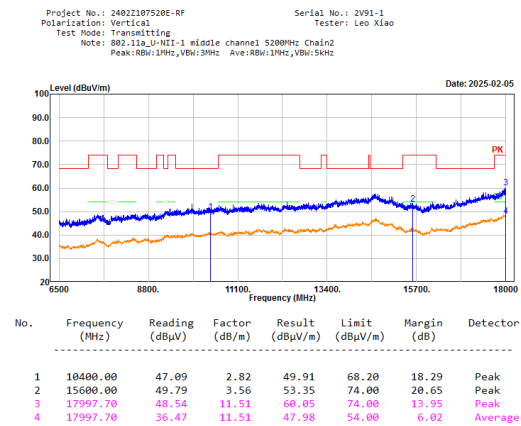
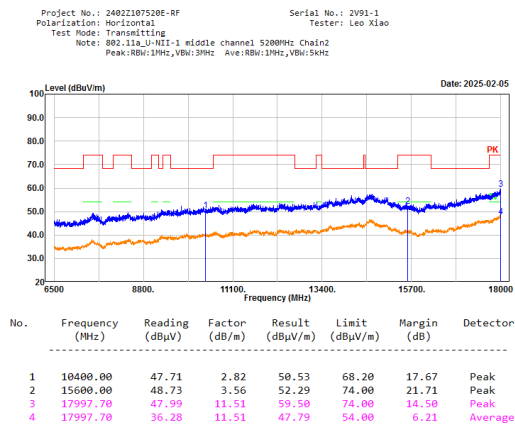
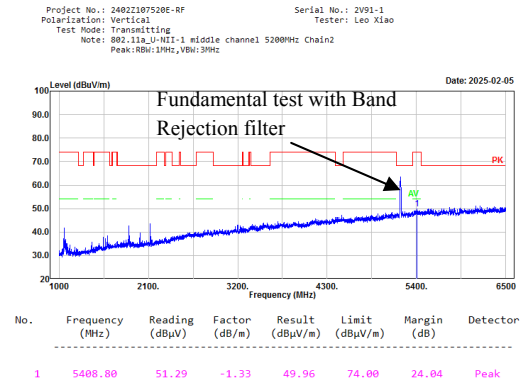


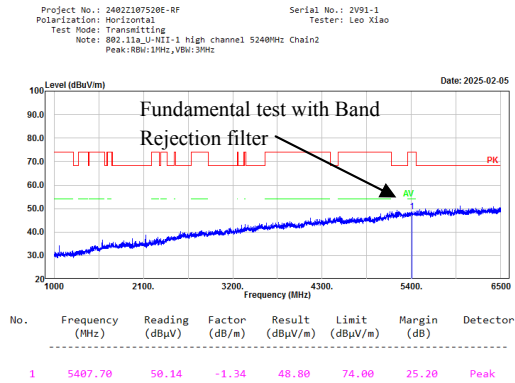
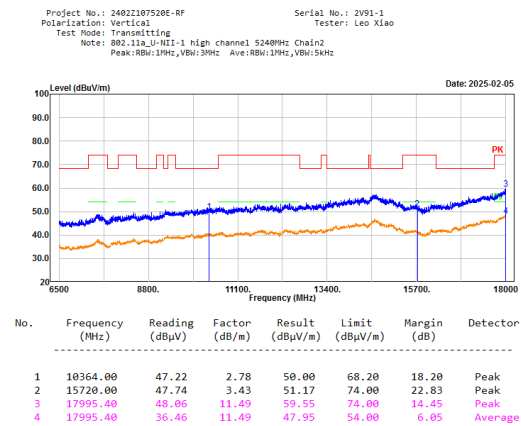
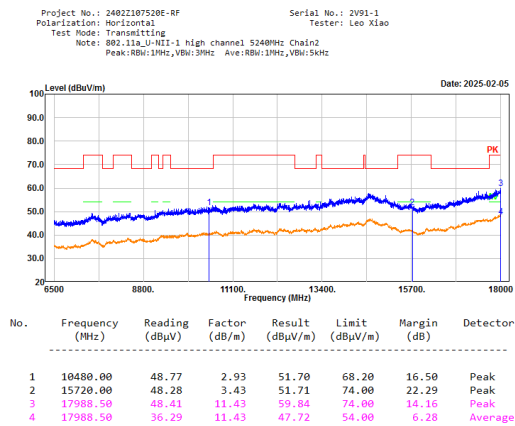
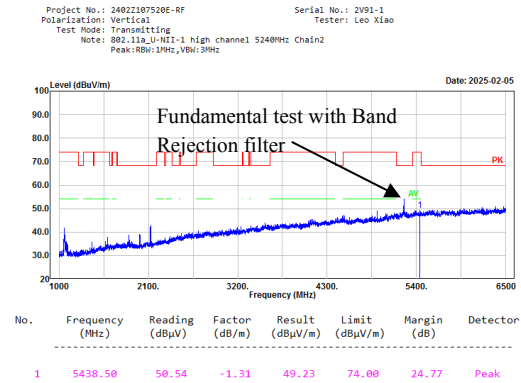
Chain 2:

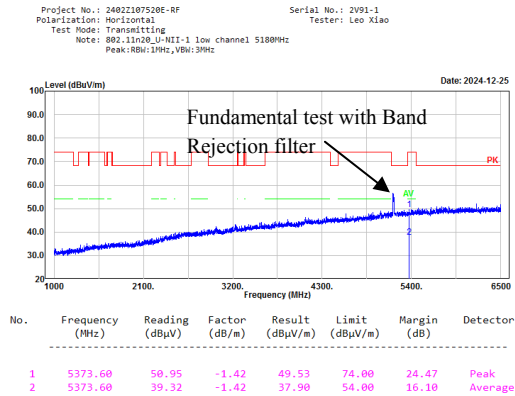
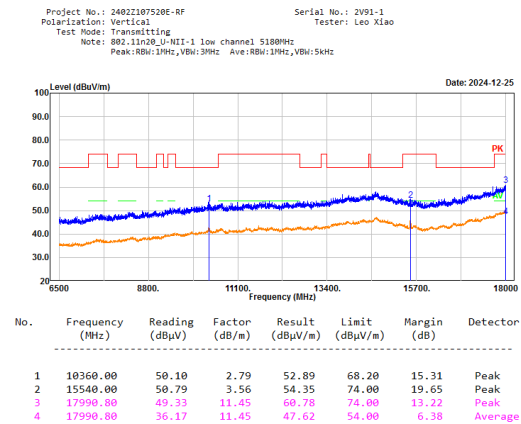
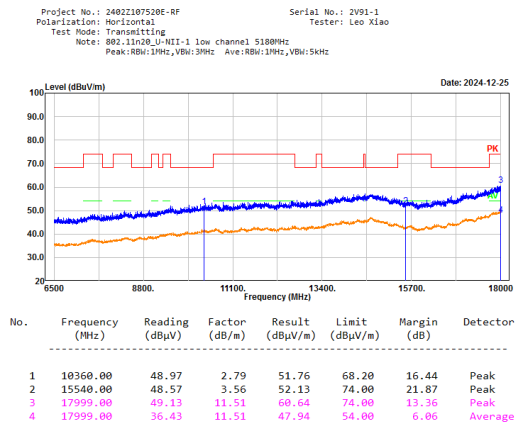
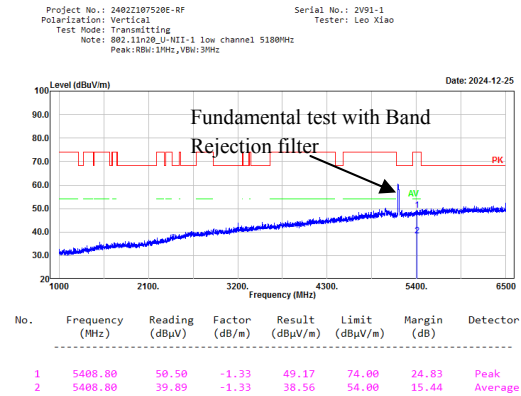
802.11a mode, Low Channel, Chain 2,
Horizontal

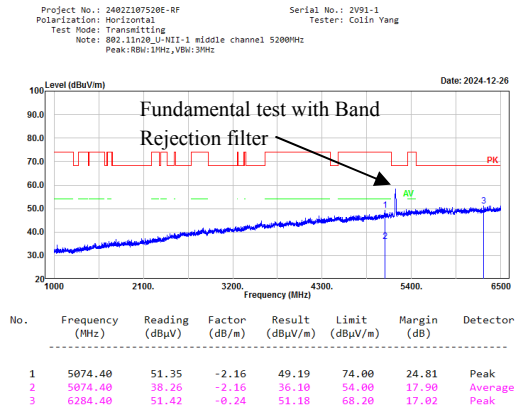
802.11a mode, Low Channel, Chain 2, Vertical



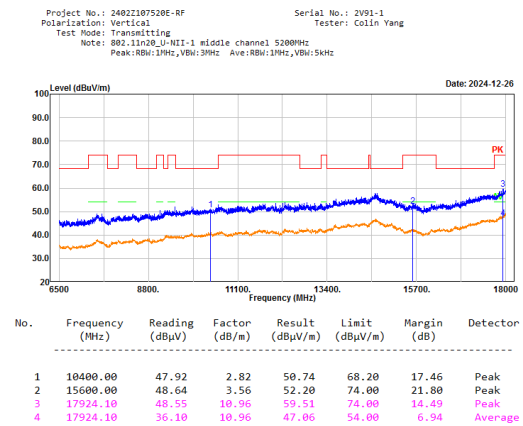
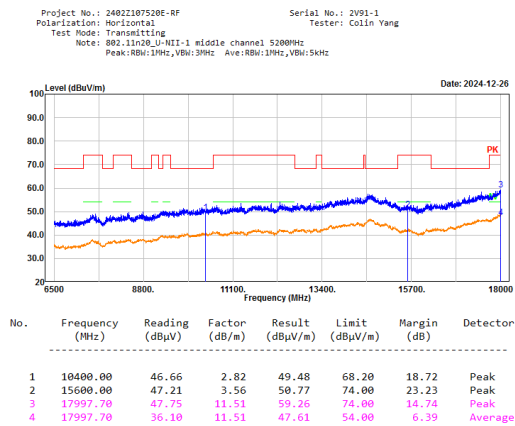
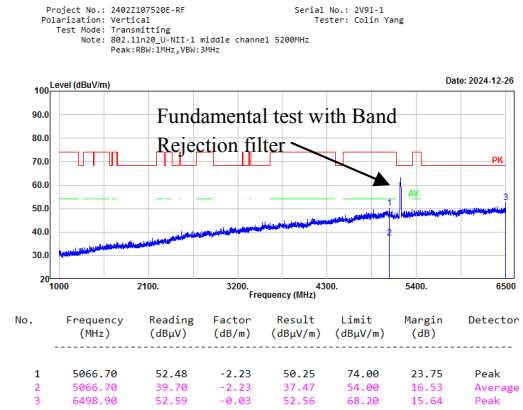
802.11a mode, Middle Channel, Chain 2,
Horizontal802.11a mode, Middle Channel, Chain 2,
Vertical

802.11a mode, High Channel, Chain 2,
Horizontal802.11a mode, High Channel, Chain 2,
Vertical

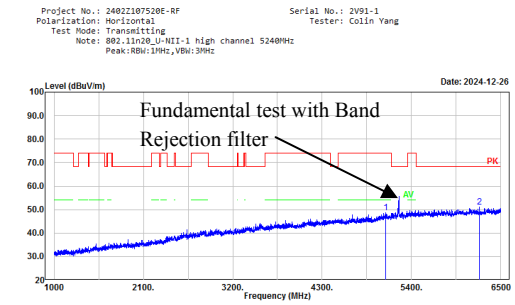
MIMO mode(Chain 0+ Chain 1) was the worst:**802.11n ht20 mode, Low Channel, Horizontal****802.11n ht20 mode, Low Channel, Vertical**

802.11n ht20 mode, Middle Channel,
Horizontal

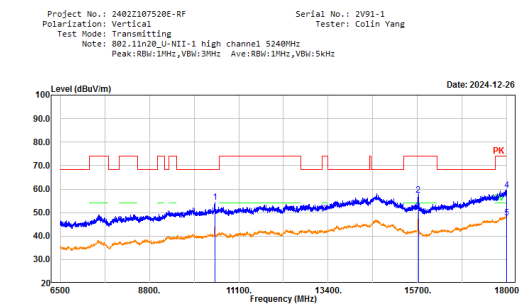
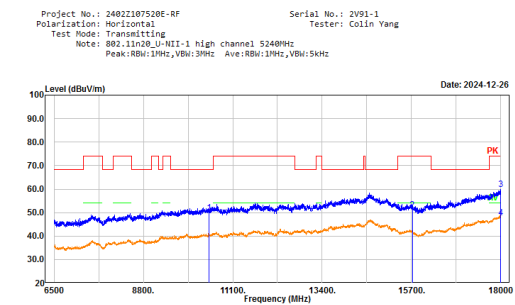
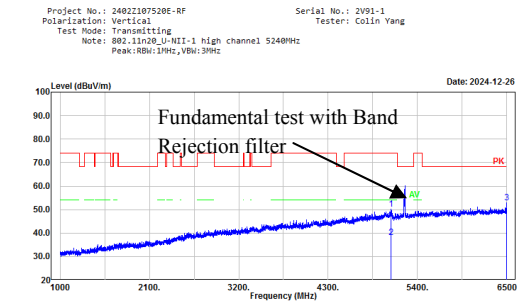
802.11n ht20 mode, Middle Channel, Vertical



802.11n ht20 mode, High Channel, Horizontal



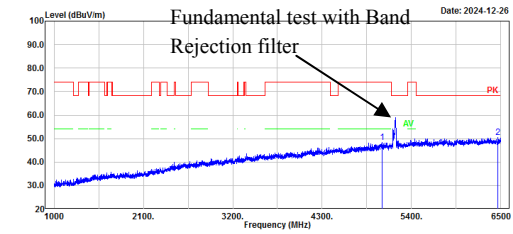
802.11n ht20 mode, High Channel, Vertical



802.11n ht40 mode, Low Channel, Horizontal

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-1 low channel 5190MHz
Peak: RBW:1MHz, VBW:30Hz

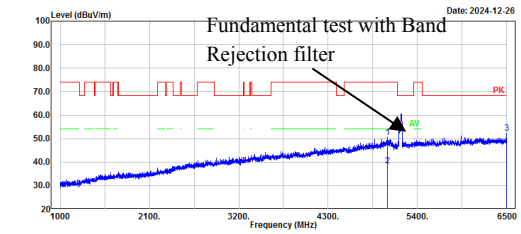
Serial No.: 2V91-1
Tester: Colin Yang



802.11n ht40 mode, Low Channel, Vertical

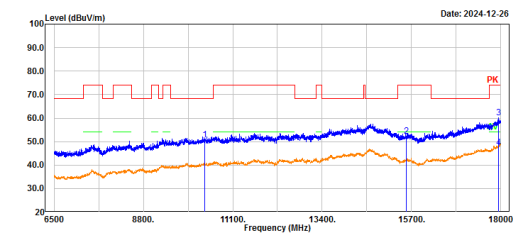
Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-1 low channel 5190MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 2V91-1
Tester: Colin Yang



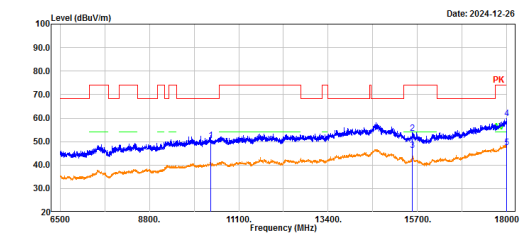
Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-1 low channel 5190MHz
Peak: RBW:1MHz, VBW:30Hz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2V91-1
Tester: Colin Yang

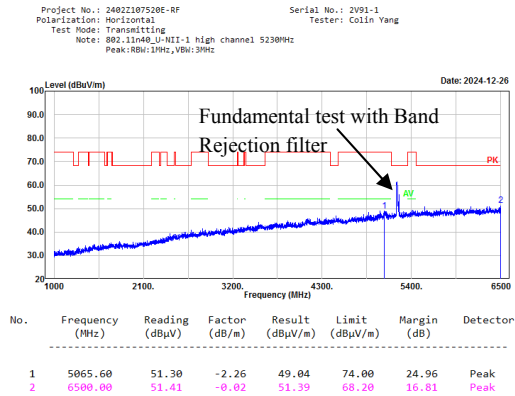


Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-1 low channel 5190MHz
Peak: RBW:1MHz, VBW:30Hz Ave:RBW:1MHz, VBW:5kHz

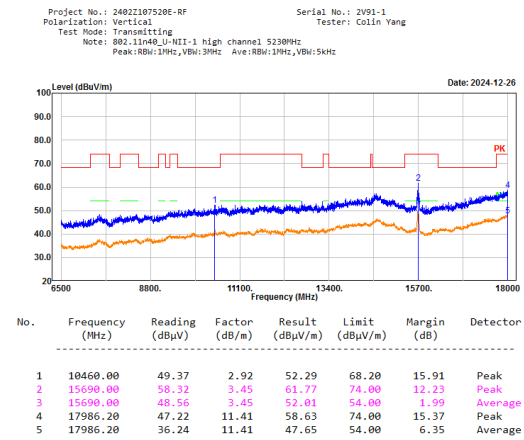
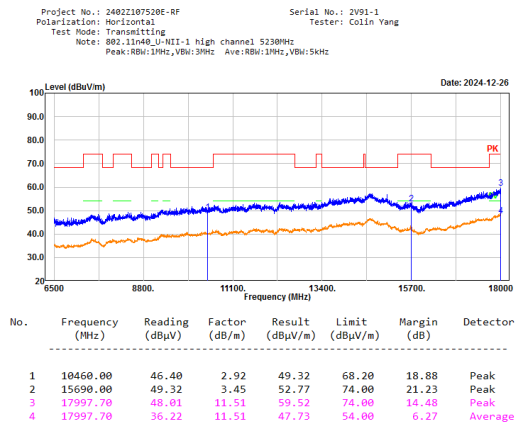
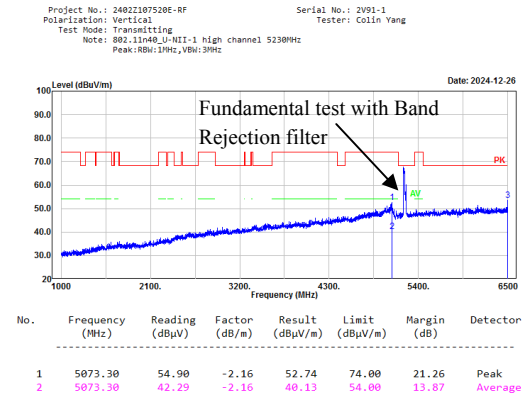
Serial No.: 2V91-1
Tester: Colin Yang



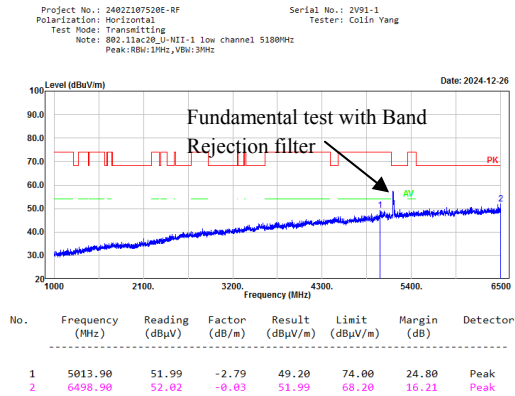
802.11n ht40 mode, High Channel, Horizontal



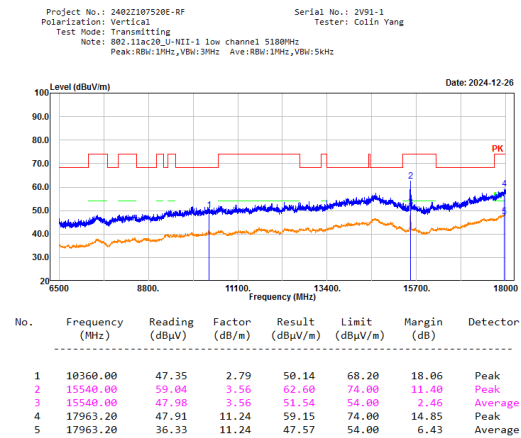
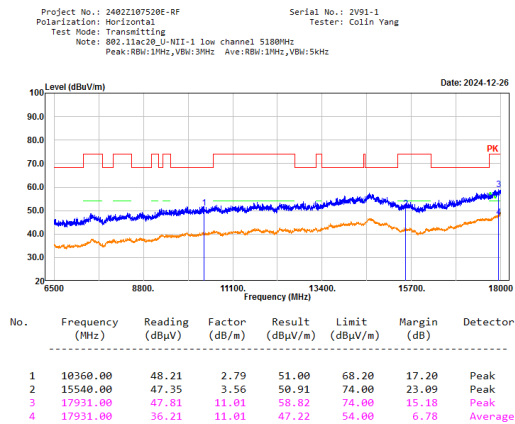
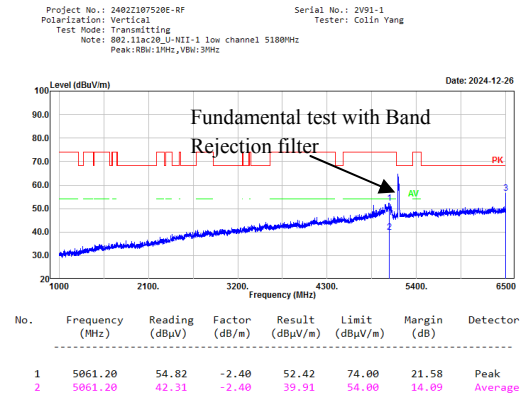
802.11n ht40 mode, High Channel, Vertical



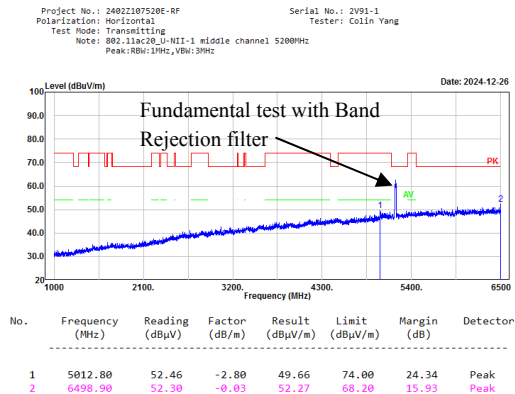
802.11 ac20 mode, Low Channel, Horizontal



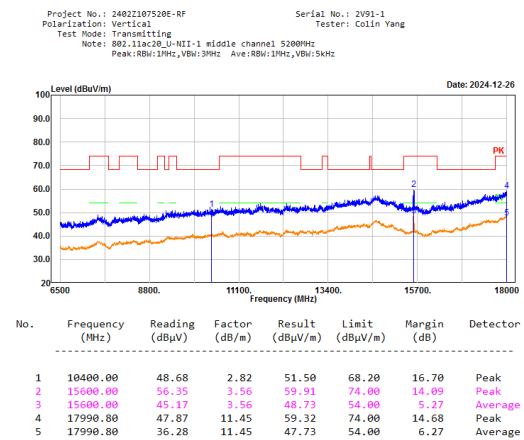
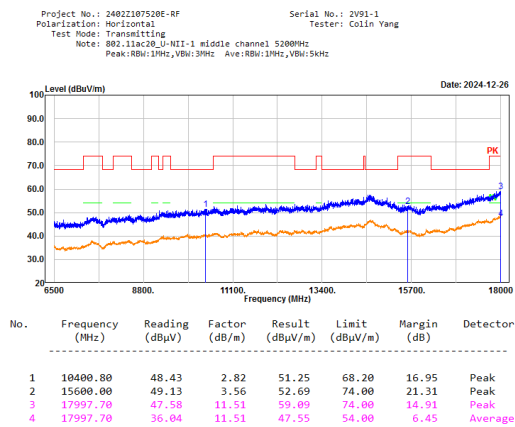
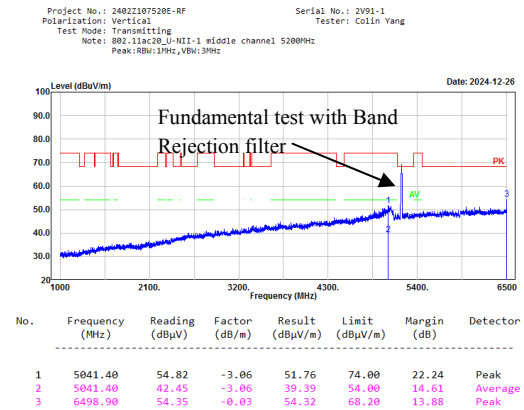
802.11 ac20 mode, Low Channel, Vertical



802.11 ac20 mode, Middle Channel, Horizontal



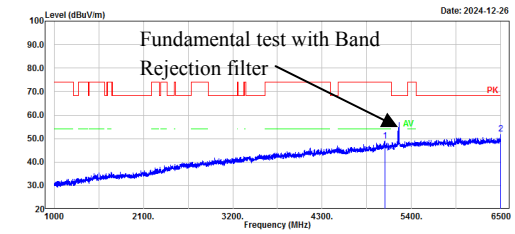
802.11 ac20mode, Middle Channel, Vertical



802.11 ac20 mode, High Channel, Horizontal

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20_U-NII-1 high channel 5240MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2V91-1
Tester: Colin Yang

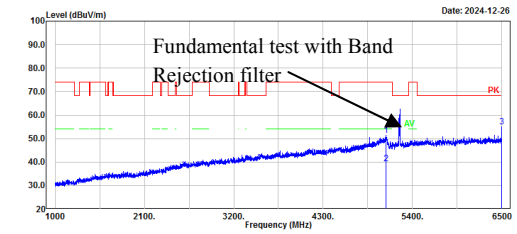


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5073.30	51.28	-2.16	49.12	74.00	24.88	Peak
2	6500.00	52.03	-0.02	52.01	68.20	16.19	Peak

802.11 ac20 mode, High Channel, Vertical

Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20_U-NII-1 high channel 5240MHz
Peak: RBW:1MHz, VBW:3MHz

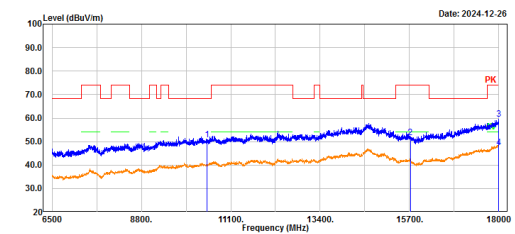
Serial No.: 2V91-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5075.50	53.57	-2.15	51.42	74.00	22.58	Peak
2	5075.50	41.43	-2.15	39.28	54.00	14.72	Average
3	6498.90	54.98	-0.03	54.95	68.20	13.25	Peak

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20_U-NII-1 high channel 5240MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

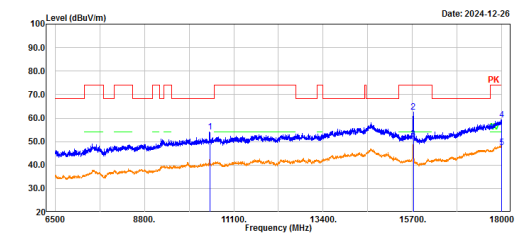
Serial No.: 2V91-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	47.78	2.93	50.71	68.20	17.49	Peak
2	15720.00	48.35	3.43	51.78	74.00	22.22	Peak
3	17988.50	48.05	11.43	59.48	74.00	14.52	Peak
4	17988.50	36.13	11.43	47.56	54.00	6.44	Average

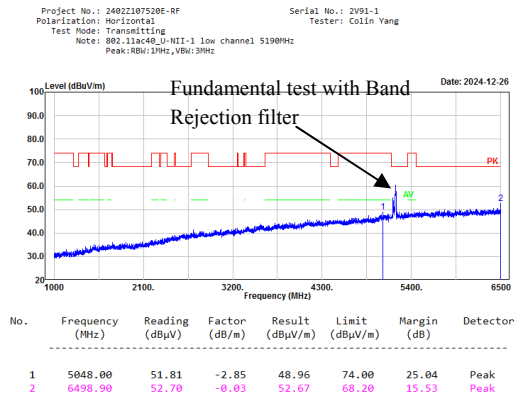
Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20_U-NII-1 high channel 5240MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2V91-1
Tester: Colin Yang

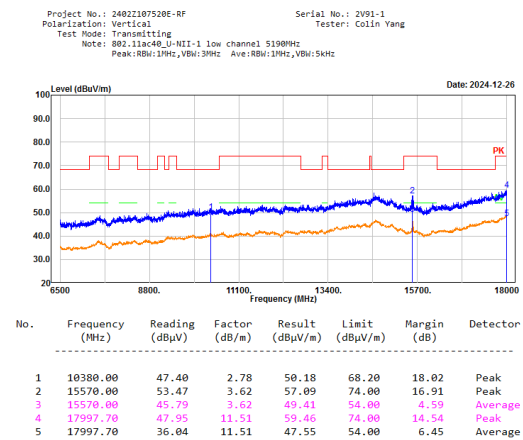
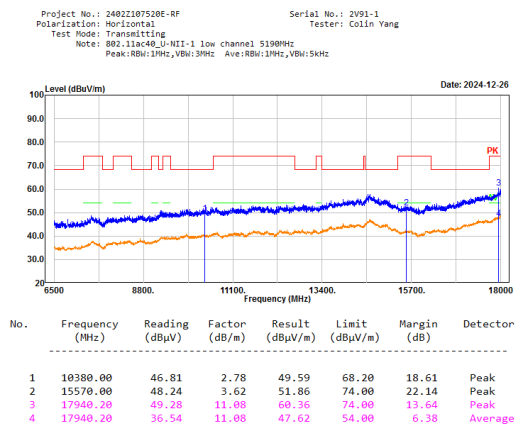
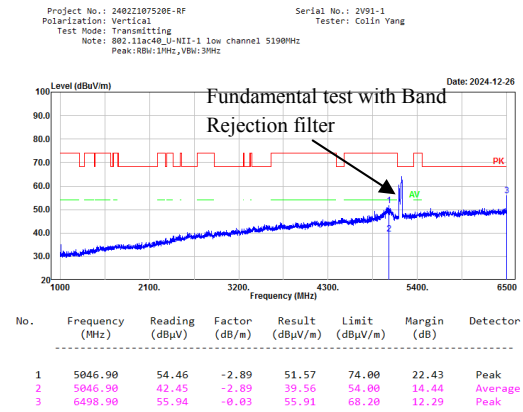


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	51.13	2.93	54.06	68.20	14.14	Peak
2	15720.00	59.14	3.43	62.57	74.00	11.43	Peak
3	15720.00	47.63	3.43	51.06	54.00	2.94	Average
4	17995.40	47.90	11.49	59.39	74.00	14.61	Peak
5	17995.40	36.08	11.49	47.57	54.00	6.43	Average

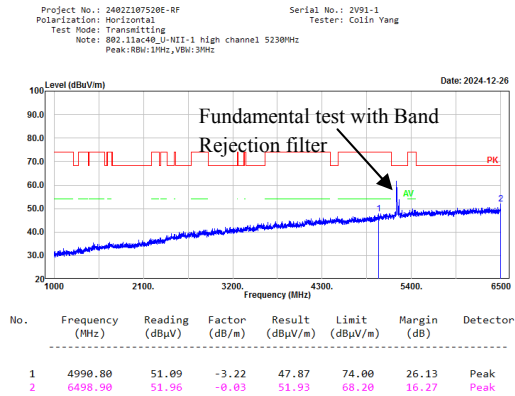
802.11 ac40 mode, Low Channel, Horizontal



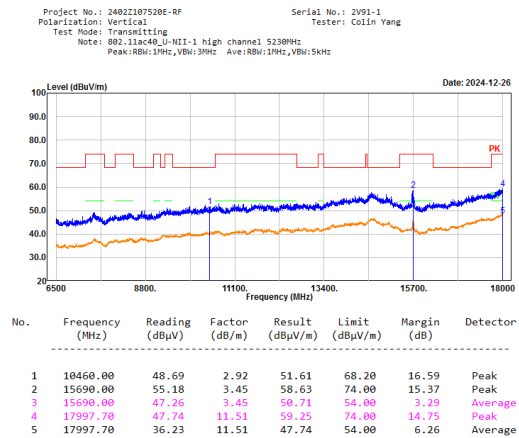
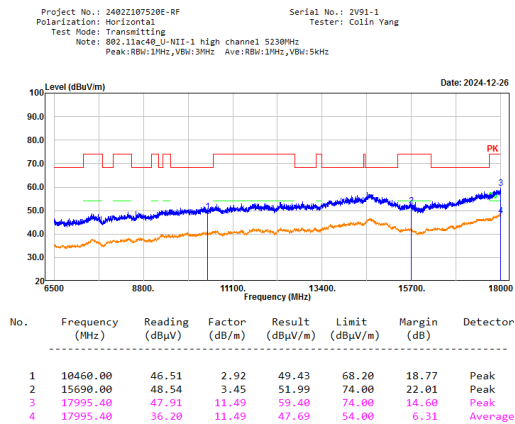
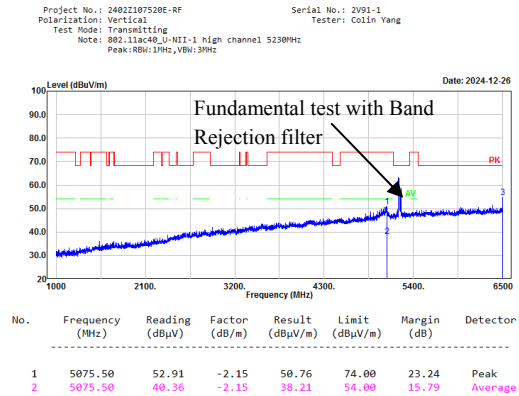
802.11 ac40 mode, Low Channel, Vertical



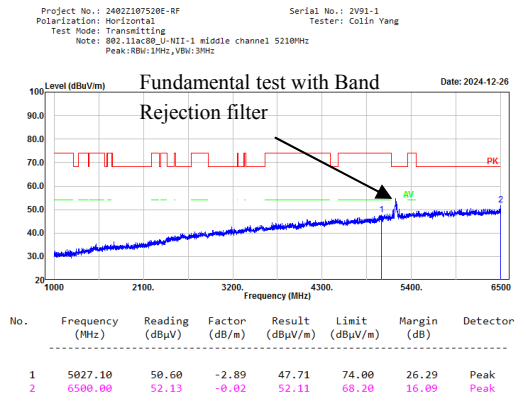
802.11 ac40 mode, High Channel, Horizontal



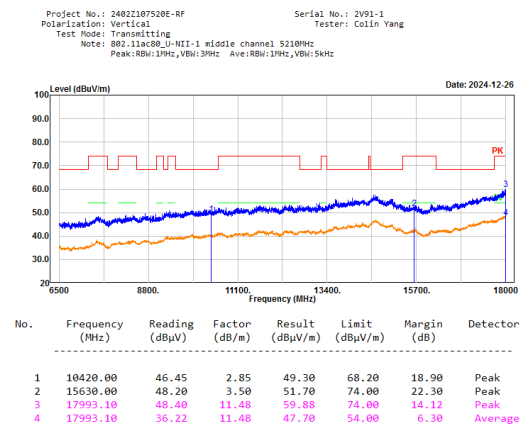
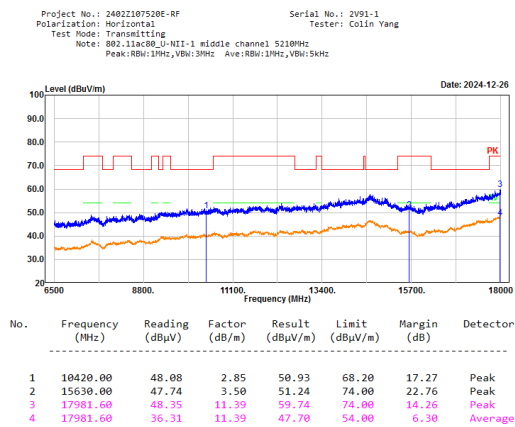
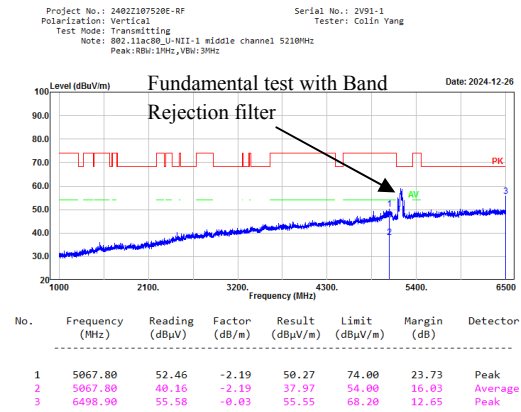
802.11 ac40 mode, High Channel, Vertical

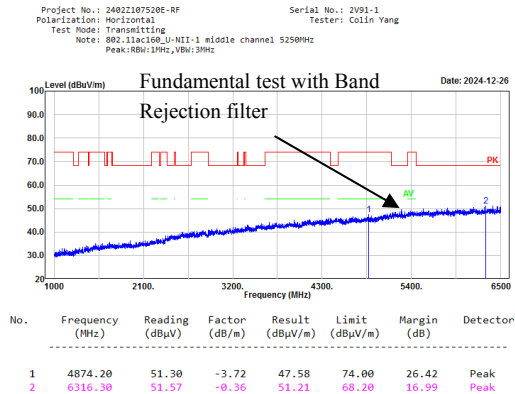


802.11ac80 mode, Middle Channel, Horizontal

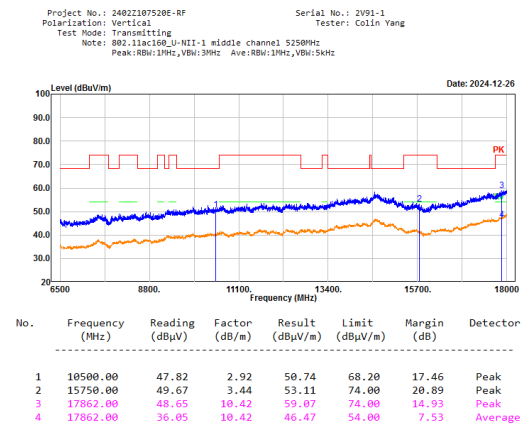
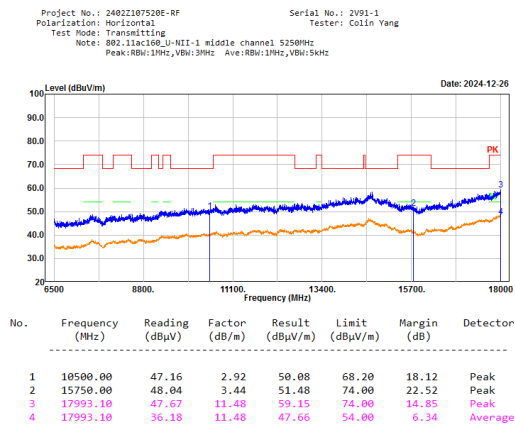
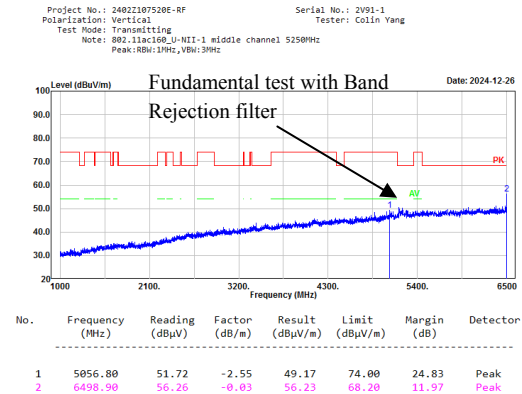


802.11ac80 mode, Middle Channel, Vertical

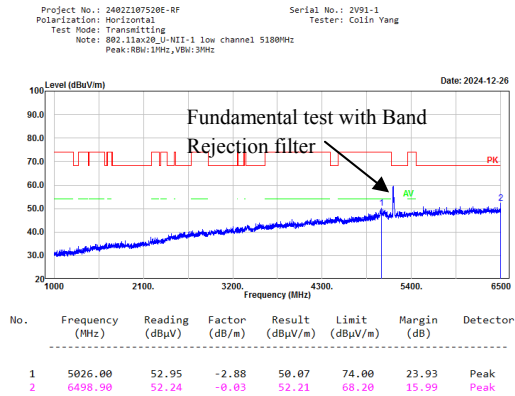


802.11ac160 mode, Middle Channel,
Horizontal

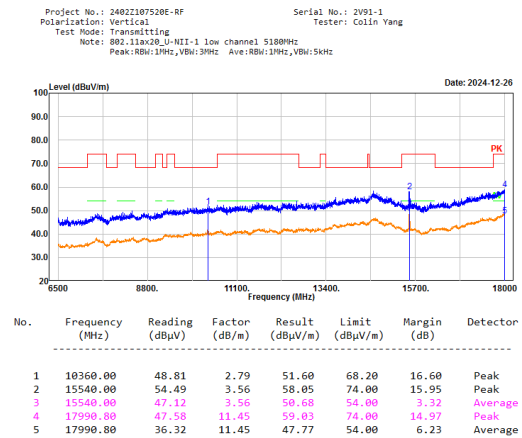
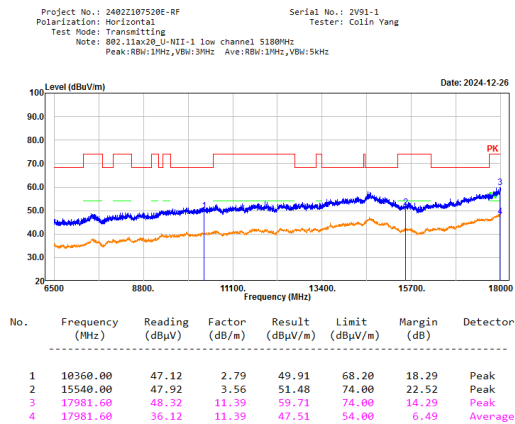
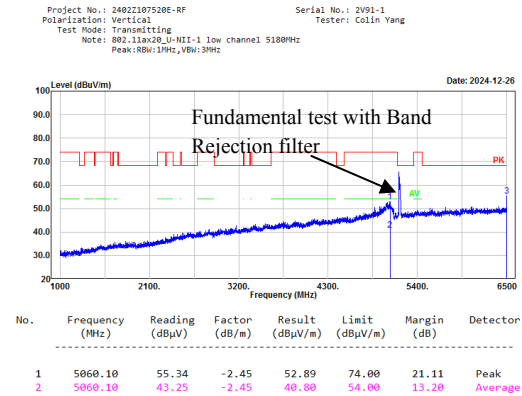
802.11ac160 mode, Middle Channel, Vertical



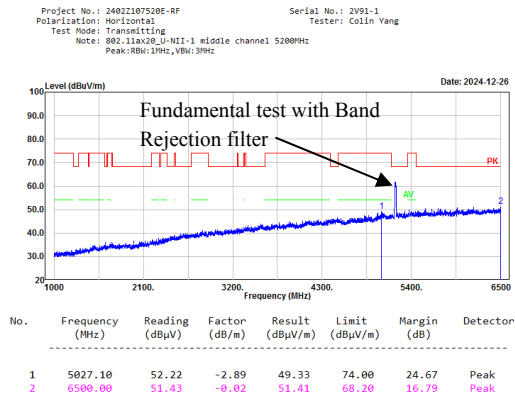
802.11ax20 mode, Low Channel, Horizontal



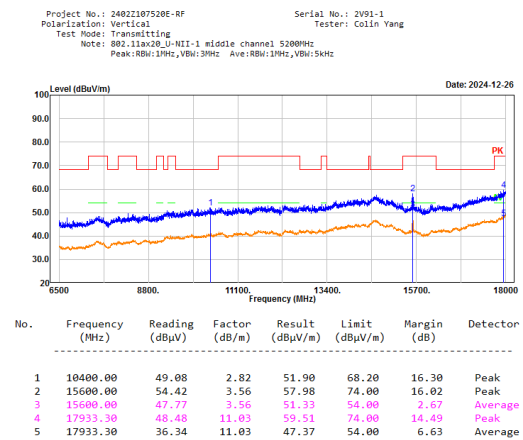
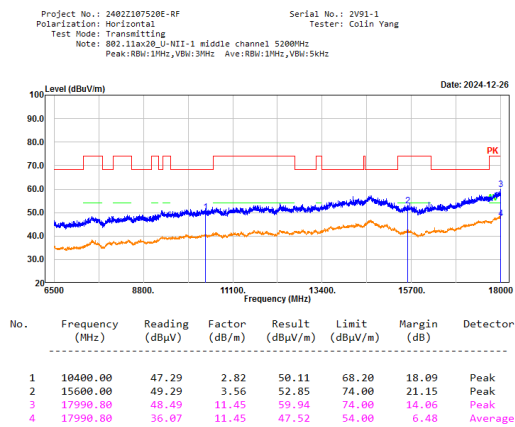
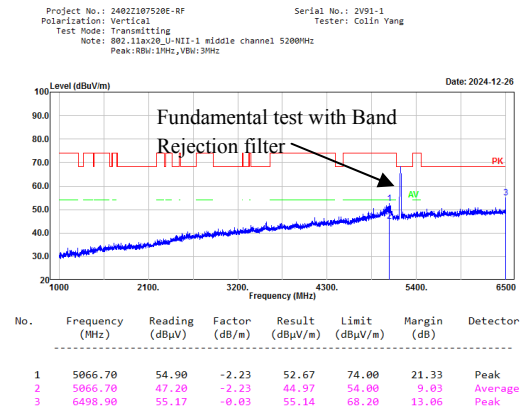
802.11ax20 mode, Low Channel, Vertical



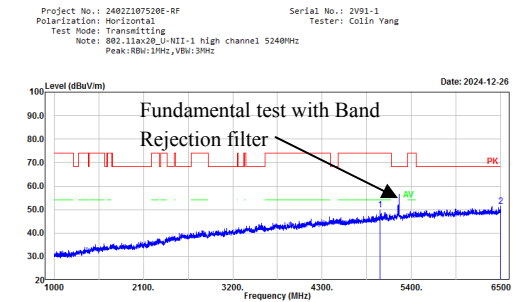
802.11ax20 mode, Middle Channel, Horizontal



802.11ax20 mode, Middle Channel, Vertical

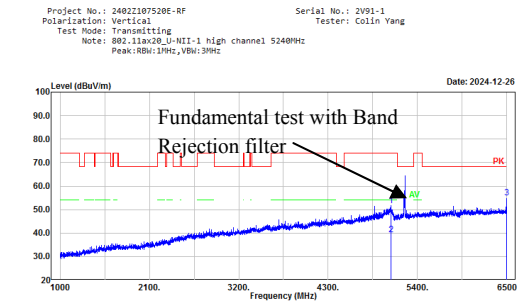


802.11ax20 mode, High Channel, Horizontal

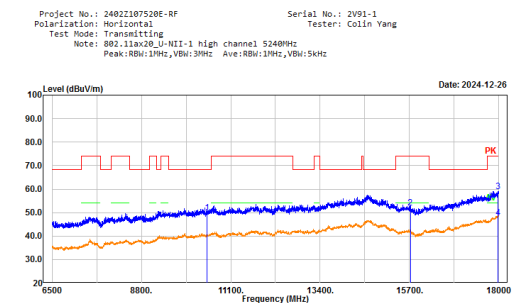


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5012.80	52.57	-2.80	49.77	74.00	24.23	Peak
2	6498.90	51.56	-0.03	51.53	68.20	16.67	Peak

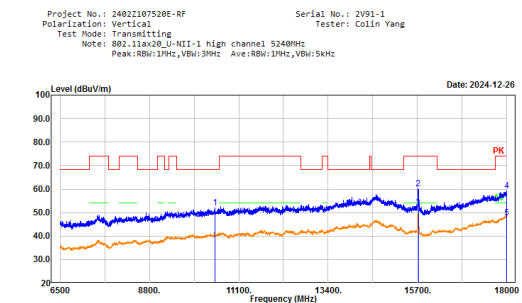
802.11ax20 mode, High Channel, Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5072.20	53.89	-2.16	51.73	74.00	22.27	Peak
2	5072.20	41.52	-2.16	39.36	54.00	14.64	Average
3	6498.90	55.02	-0.03	54.99	68.20	13.21	Peak

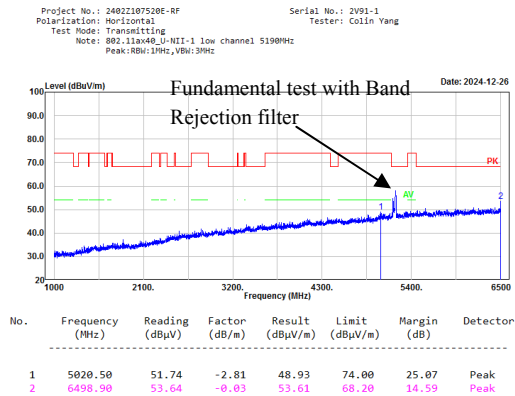


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	46.90	2.93	49.83	68.20	18.37	Peak
2	15720.00	48.42	3.43	51.85	74.00	22.15	Peak
3	17981.60	47.69	11.39	59.08	74.00	14.92	Peak
4	17981.60	36.27	11.39	47.66	54.00	6.34	Average

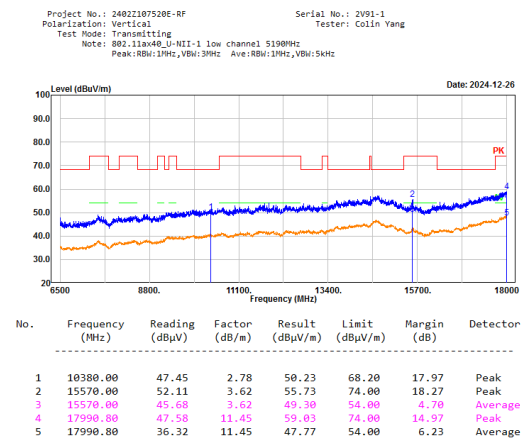
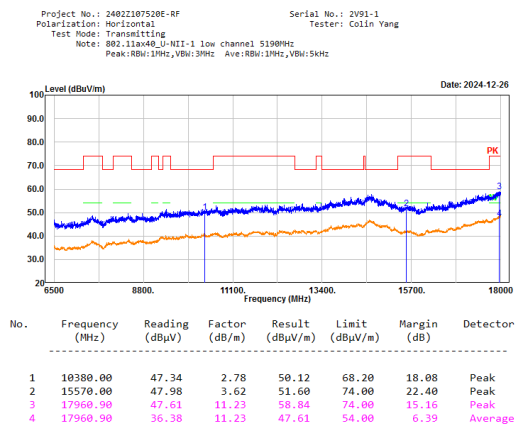
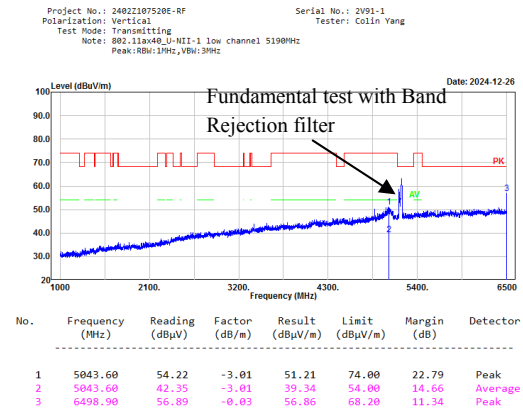


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	48.97	2.93	51.90	68.20	16.30	Peak
2	15720.00	56.64	3.43	60.07	74.00	13.93	Peak
3	15720.00	48.69	3.43	52.12	54.00	1.88	Average
4	17988.50	47.96	11.43	59.39	74.00	14.61	Peak
5	17988.50	36.35	11.43	47.78	54.00	6.22	Average

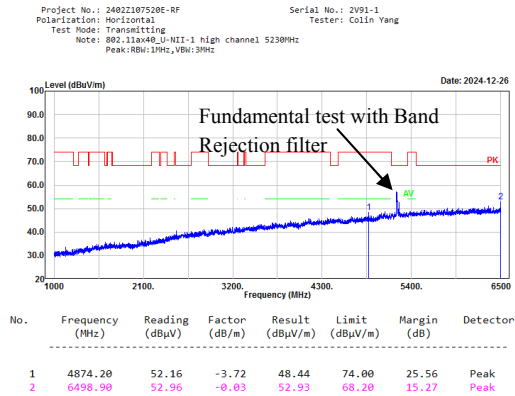
802.11ax40 mode, Low Channel, Horizontal



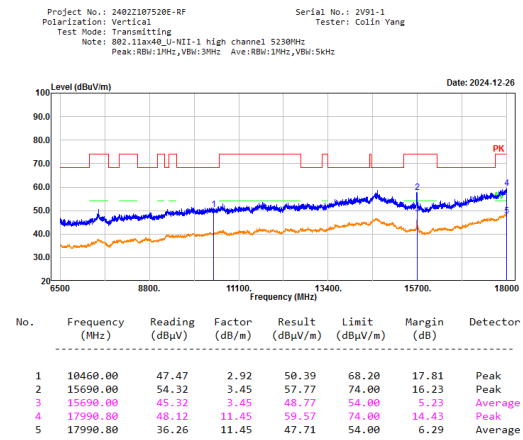
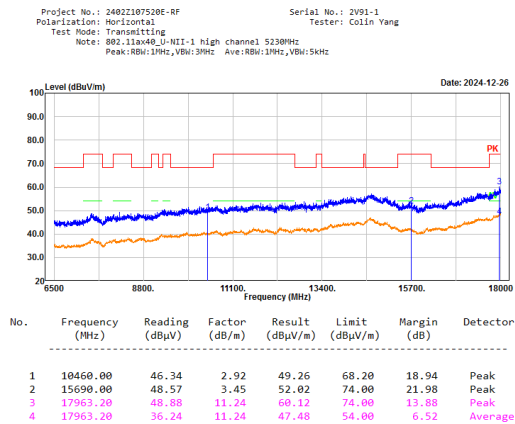
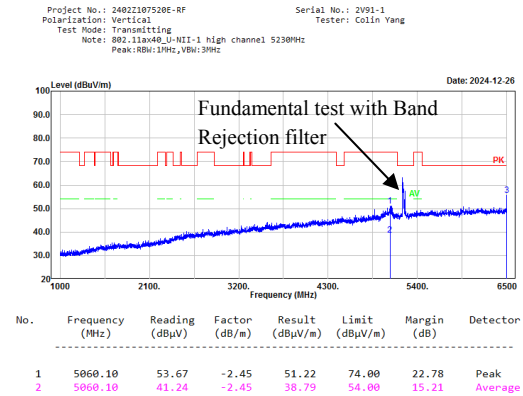
802.11ax40 mode, Low Channel, Vertical



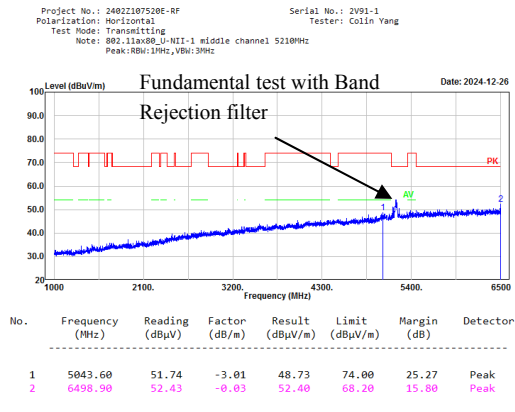
802.11ax40 mode, High Channel, Horizontal



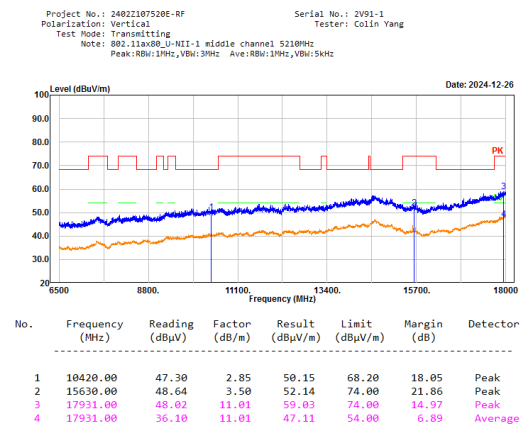
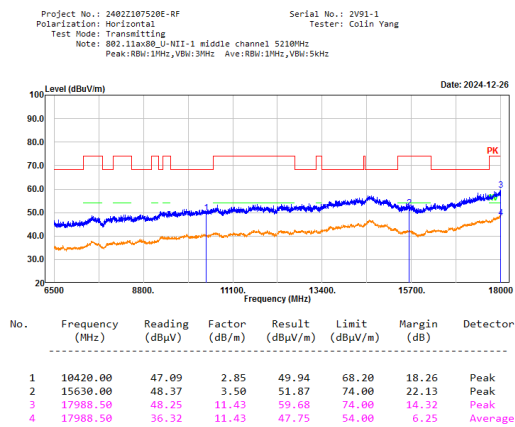
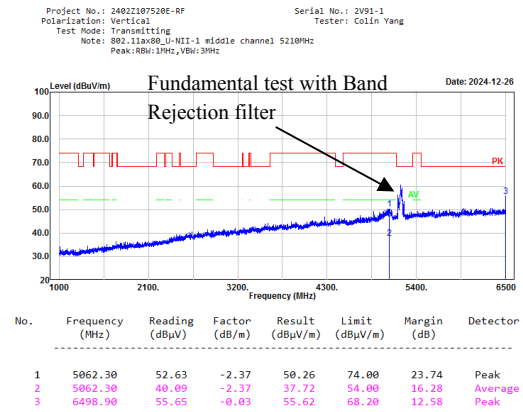
802.11ax mode, High Channel, Vertical

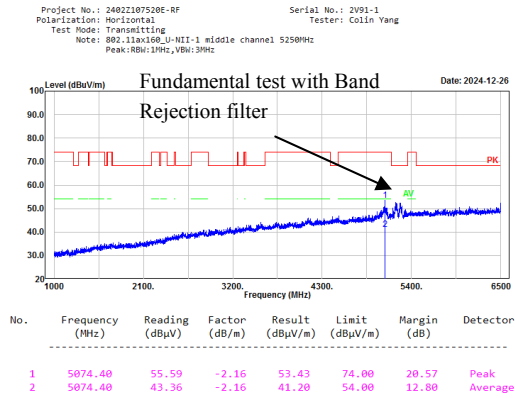


802.11ax80 mode, Middle Channel, Horizontal

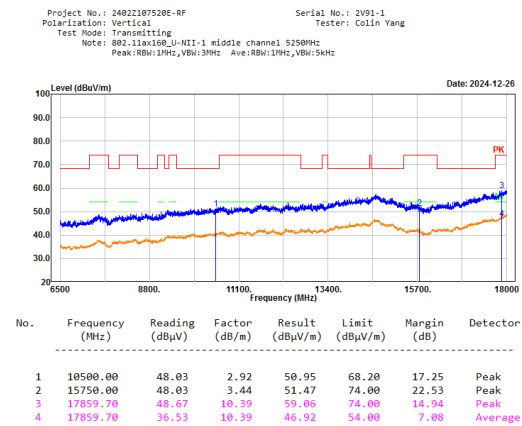
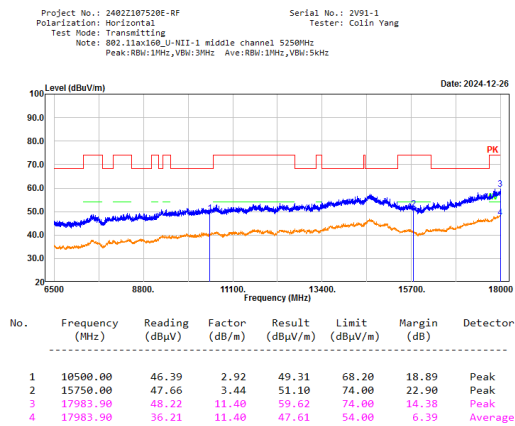
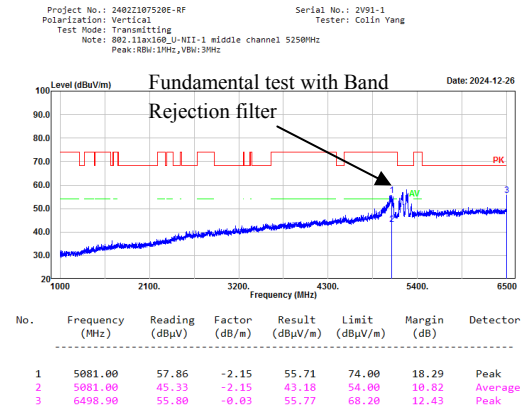


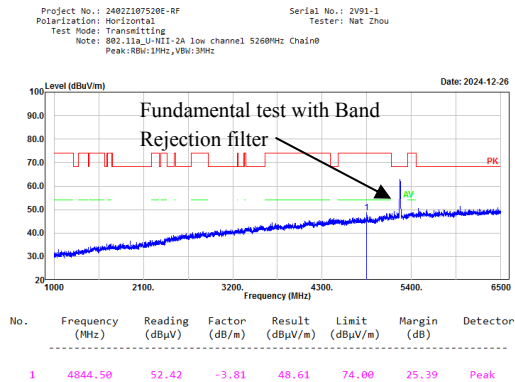
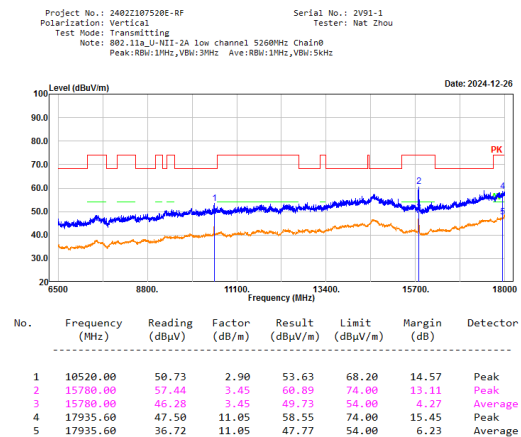
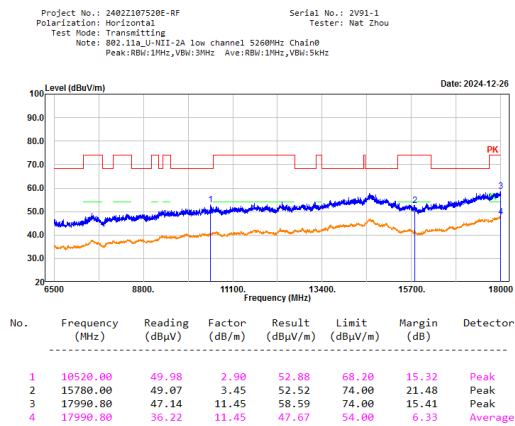
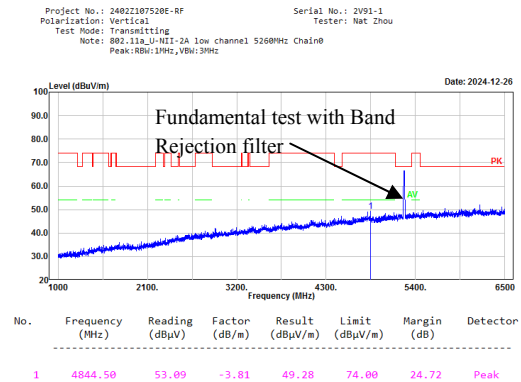
802.11ax80 mode, Middle Channel, Vertical

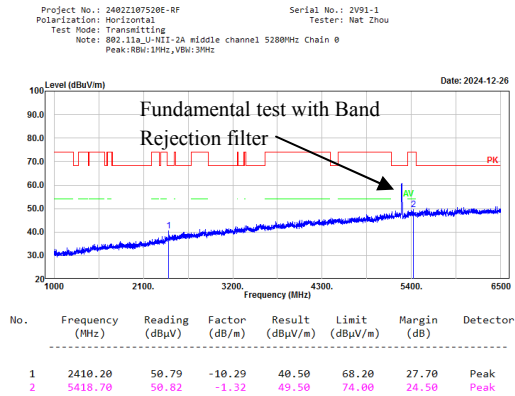
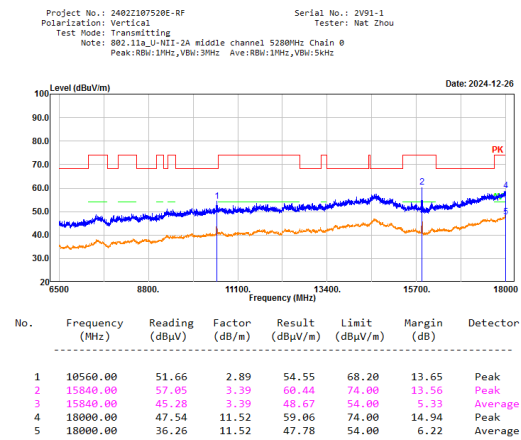
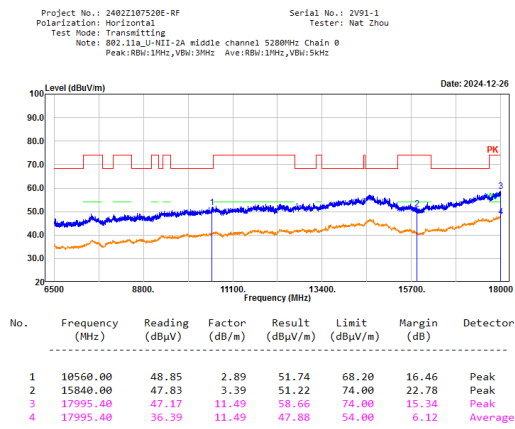
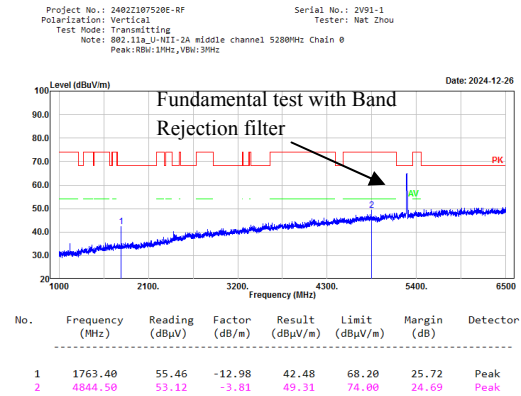


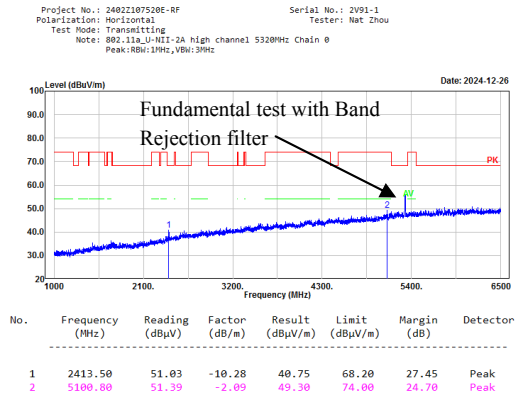
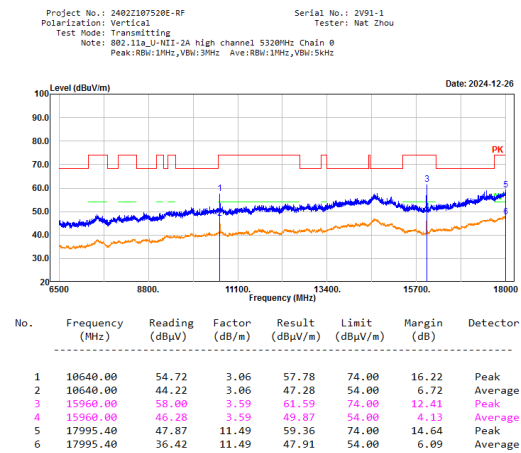
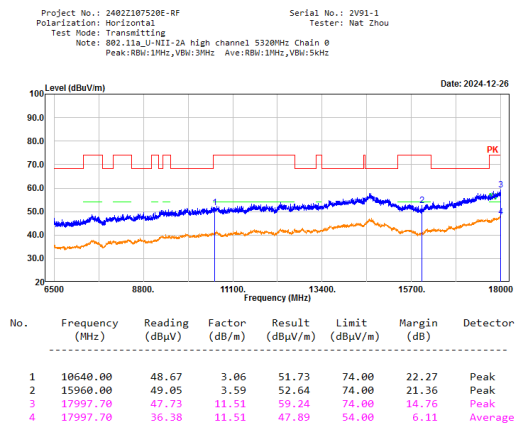
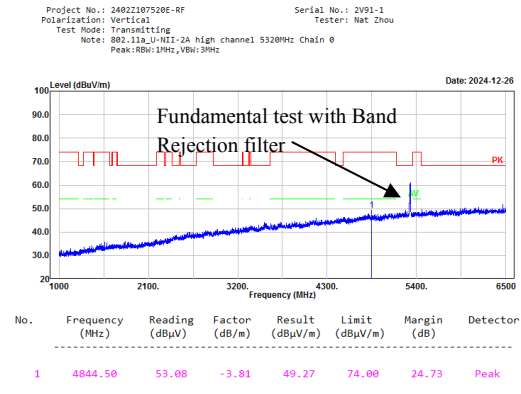
802.11ax160 mode, Middle Channel,
Horizontal

802.11ax160 mode, Middle Channel, Vertical

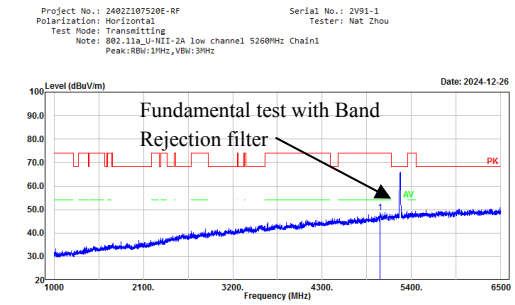


5250-5350MHz:**Chain 0:****802.11a mode, Low Channel, Chain 0,
Horizontal****802.11a mode, Low Channel, Chain 0, Vertical**

802.11a mode, Middle Channel, Chain 0,
Horizontal802.11a mode, Middle Channel, Chain 0,
Vertical

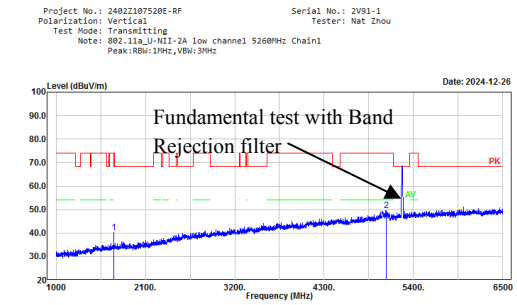
802.11a mode, High Channel, Chain 0,
Horizontal802.11a mode, High Channel, Chain 0,
Vertical

Chain 1:

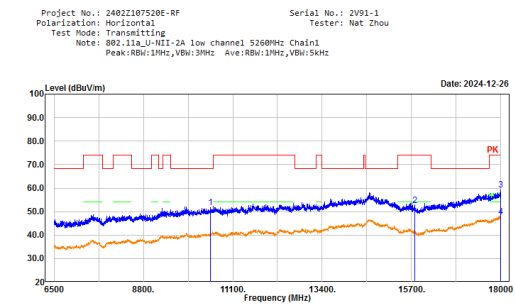
802.11a mode, Low Channel, Chain 1,
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5016.10	51.40	-2.77	48.63	74.00	25.37	Peak

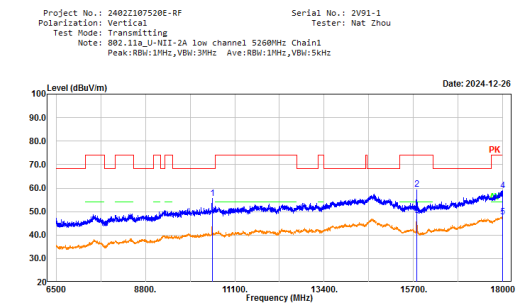
802.11a mode, Low Channel, Chain 1, Vertical



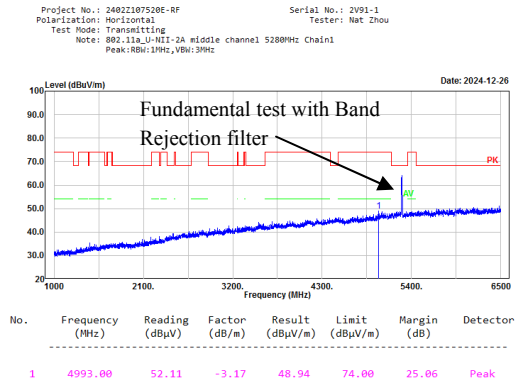
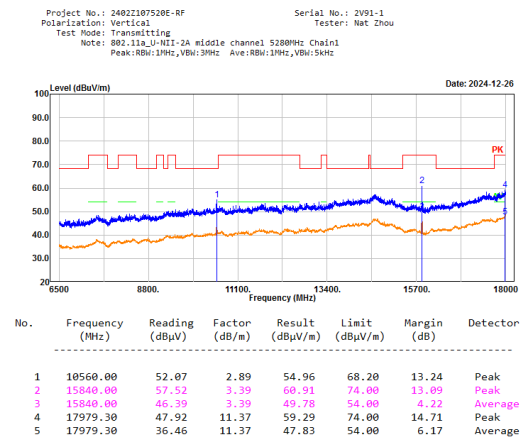
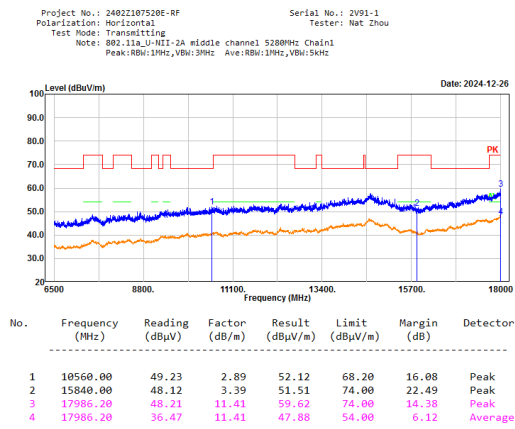
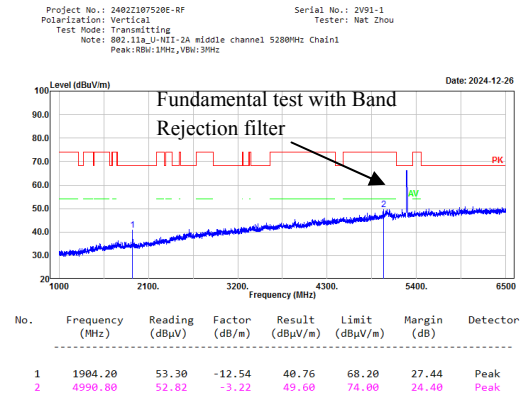
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1710.60	53.33	-13.12	40.21	68.20	27.99	Peak
2	5066.70	51.93	-2.23	49.70	74.00	24.30	Peak

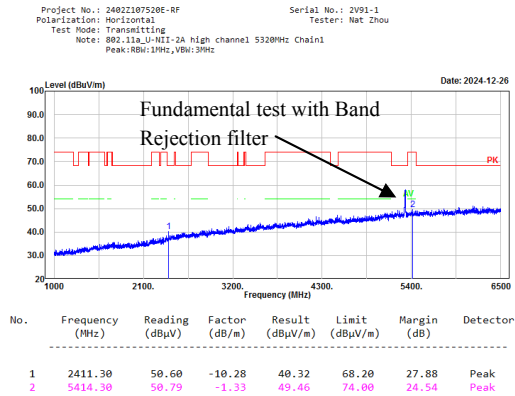
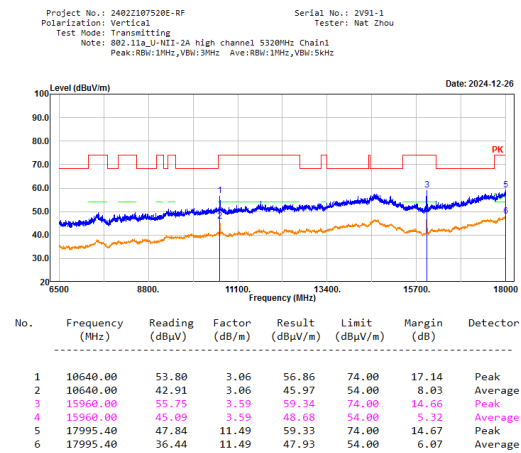
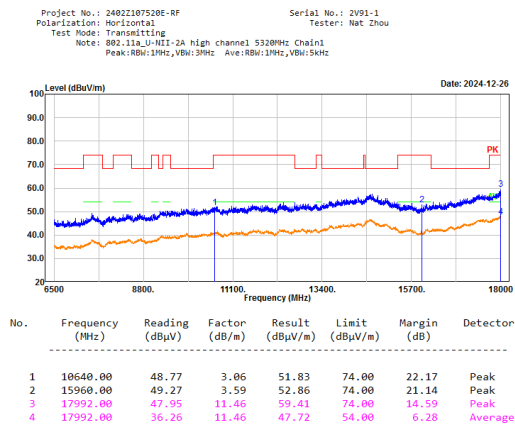
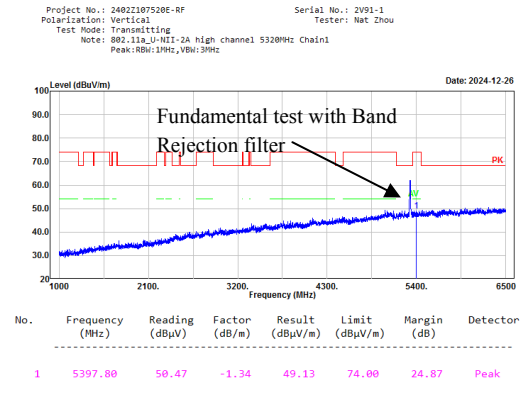


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10520.00	48.77	2.90	51.67	68.20	16.53	Peak
2	15780.00	49.01	3.45	52.46	74.00	21.54	Peak
3	17993.10	47.70	11.48	59.18	74.00	14.82	Peak
4	17993.10	36.23	11.48	47.71	54.00	6.29	Average

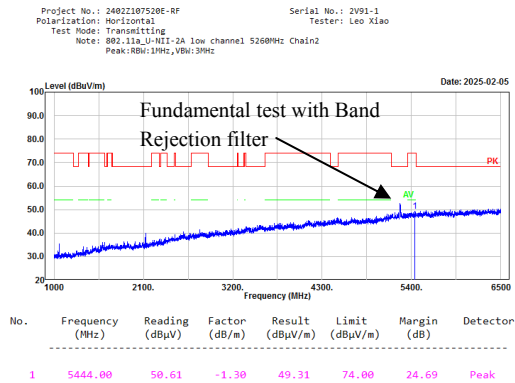


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10520.00	52.58	2.90	55.48	68.20	12.72	Peak
2	15780.00	55.98	3.45	59.43	74.00	14.57	Peak
3	15780.00	45.00	3.45	48.45	54.00	5.55	Average
4	17988.50	47.57	11.43	59.00	74.00	15.00	Peak
5	17988.50	36.20	11.43	47.63	54.00	6.37	Average

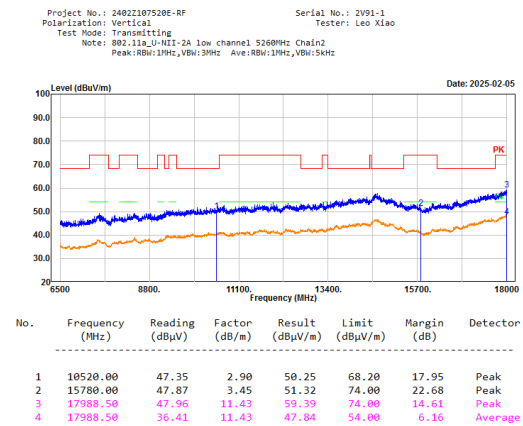
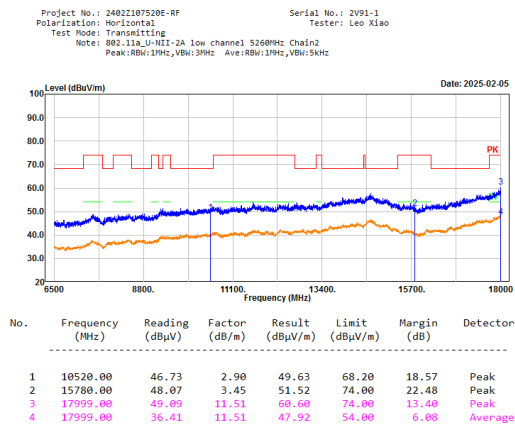
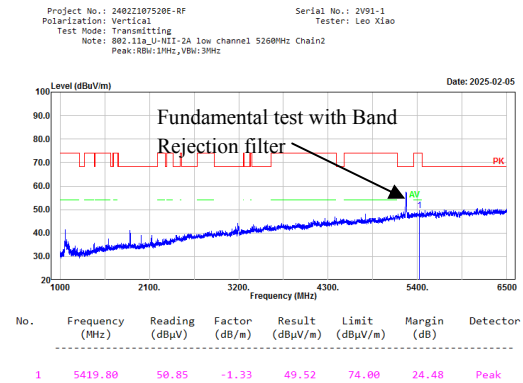
802.11a mode, Middle Channel, Chain 1,
Horizontal802.11a mode, Middle Channel, Chain 1,
Vertical

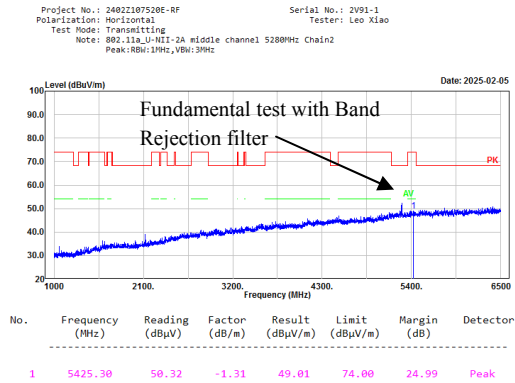
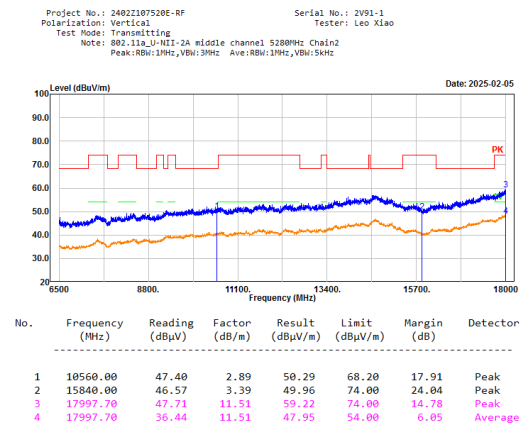
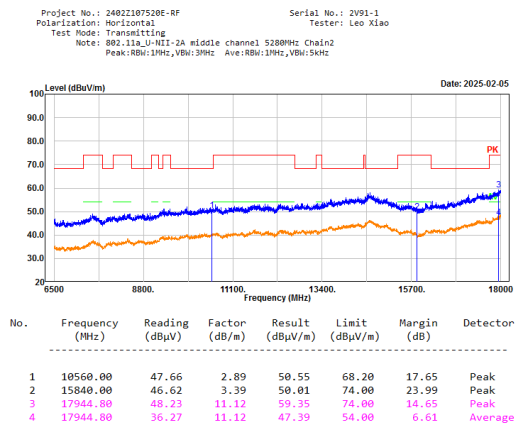
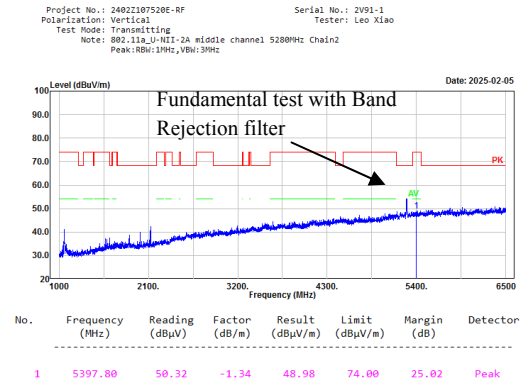
802.11a mode, High Channel, Chain 1,
Horizontal802.11a mode, High Channel, Chain 1,
Vertical

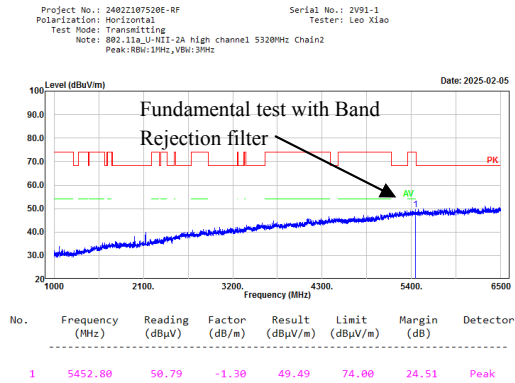
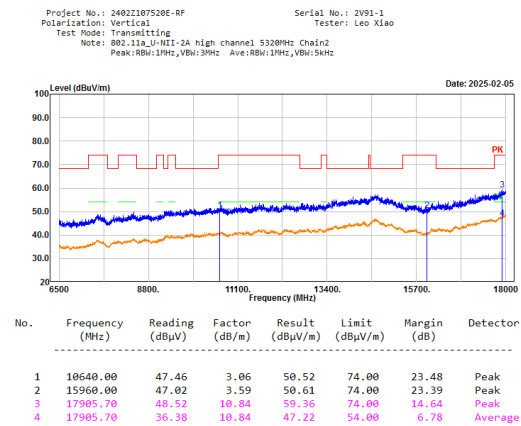
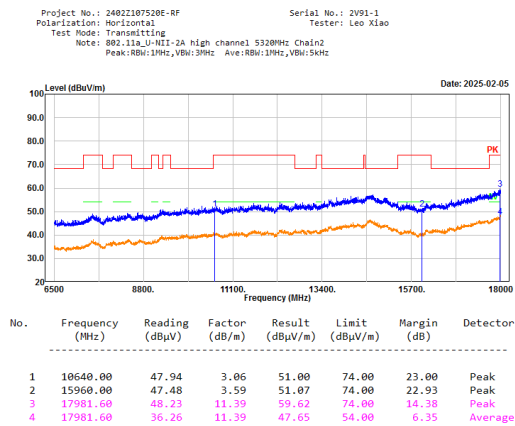
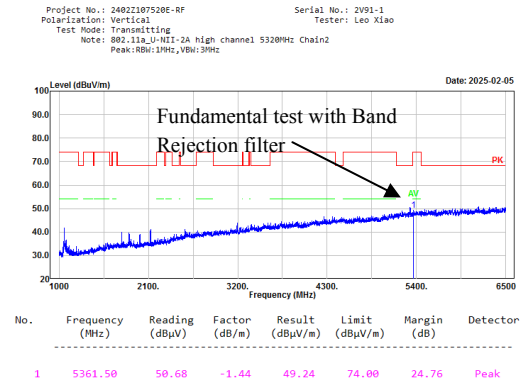
Chain 2:

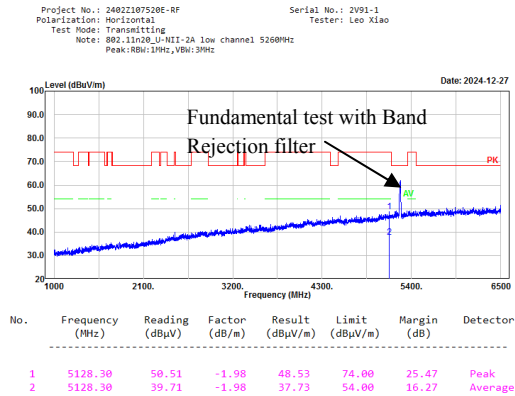
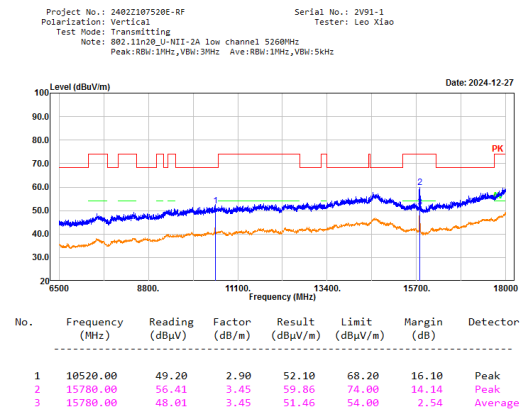
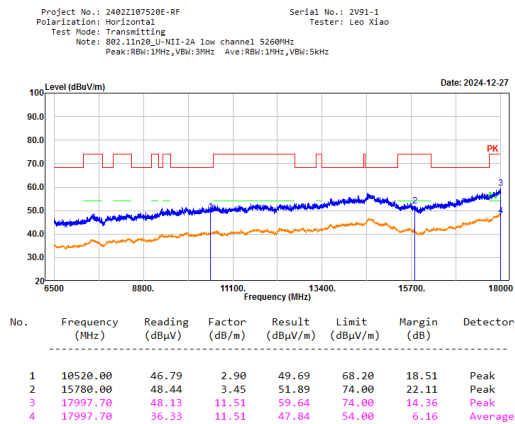
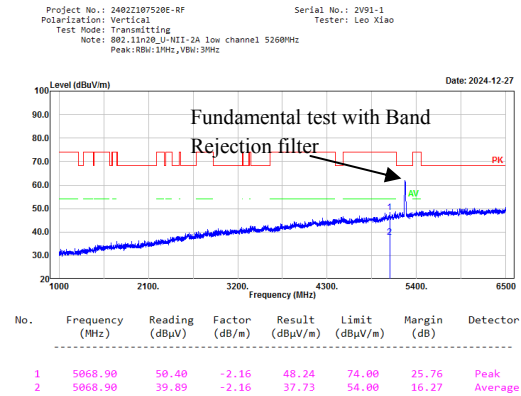
802.11a mode, Low Channel, Chain 2,
Horizontal

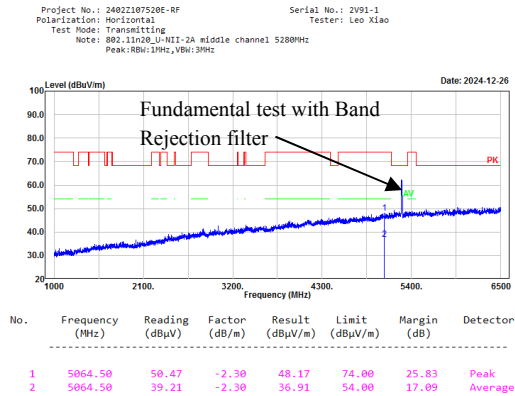
802.11a mode, Low Channel, Chain 2, Vertical



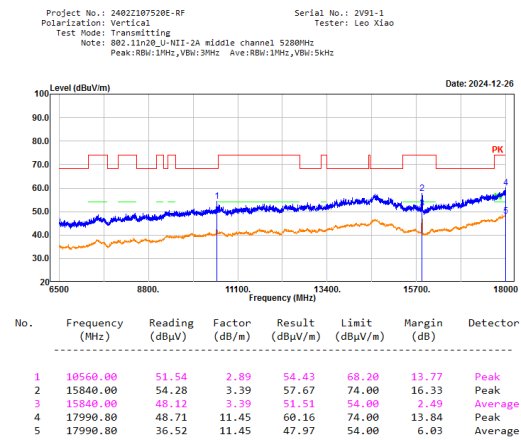
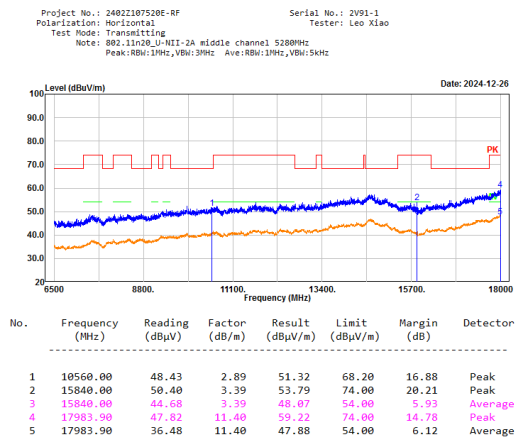
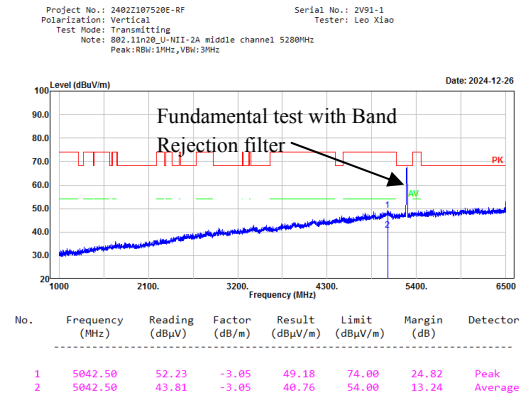
802.11a mode, Middle Channel, Chain 2,
Horizontal802.11a mode, Middle Channel, Chain 2,
Vertical

802.11a mode, High Channel, Chain 2,
Horizontal802.11a mode, High Channel, Chain 2,
Vertical

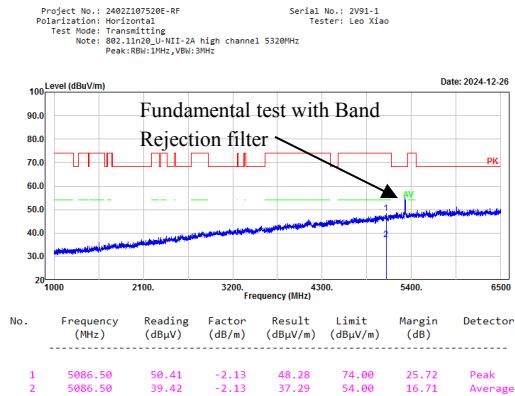
MIMO mode(Chain 0+ Chain 1) was the worst:**802.11n ht20 mode, Low Channel, Horizontal****802.11n ht20 mode, Low Channel, Vertical**

802.11n ht20 mode, Middle Channel,
Horizontal

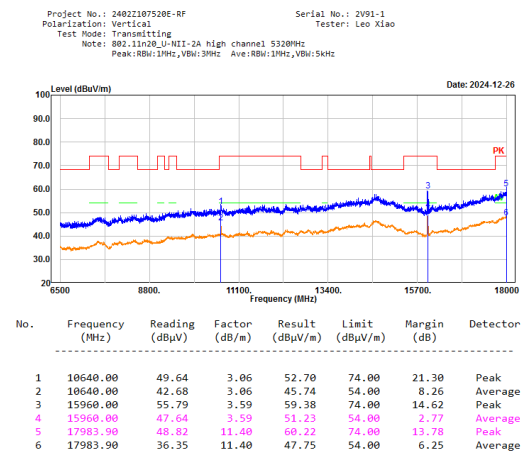
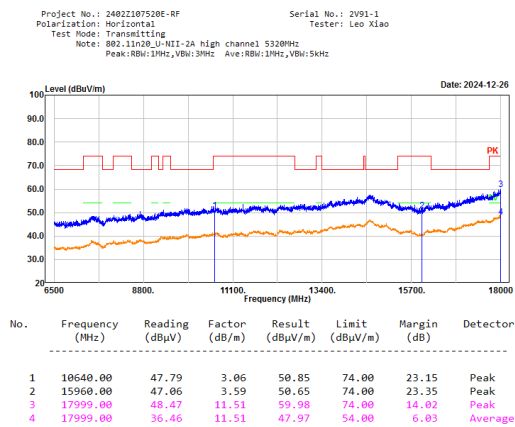
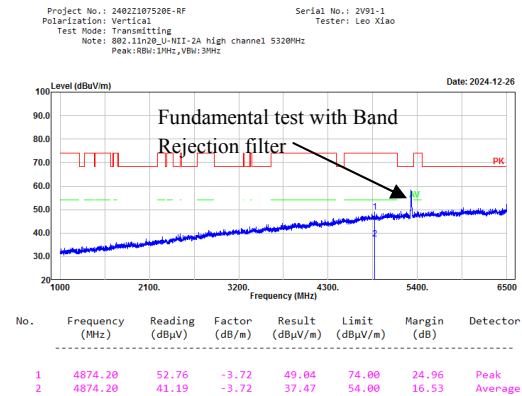
802.11n ht20 mode, Middle Channel, Vertical



802.11n ht20 mode, High Channel, Horizontal



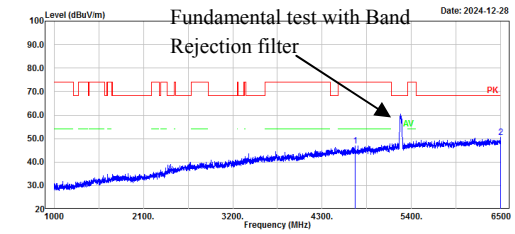
802.11n ht20 mode, High Channel, Vertical



802.11n ht40 mode, Low Channel, Horizontal

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-2A low channel 5270MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 2V91-1
Tester: Colin Yang

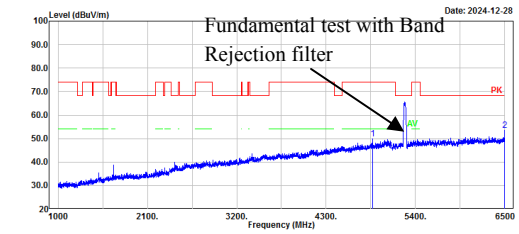


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4703.70	50.94	-4.07	46.87	74.00	27.13	Peak
2	6498.90	50.55	-0.03	50.52	68.20	17.68	Peak

802.11n ht40 mode, Low Channel, Vertical

Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-2A low channel 5270MHz
Peak: RBW:1MHz, VBW:30Hz

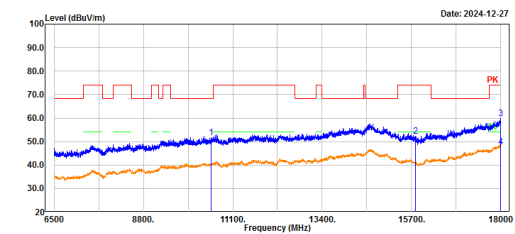
Serial No.: 2V91-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.20	53.63	-3.72	49.91	74.00	24.09	Peak
2	6498.90	53.59	-0.03	53.56	68.20	14.64	Peak

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-2A low channel 5270MHz
Peak: RBW:1MHz, VBW:30Hz Ave:RBW:1MHz, VBW:5kHz

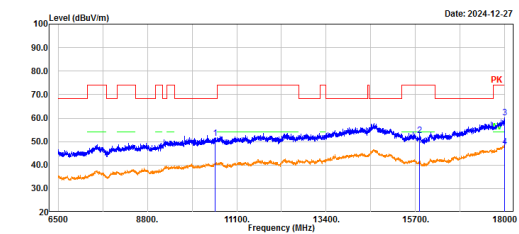
Serial No.: 2V91-1
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10540.00	48.88	2.88	51.76	68.20	16.44	Peak
2	15810.00	48.92	3.42	52.34	74.00	21.66	Peak
3	17990.80	48.50	11.45	59.95	74.00	14.05	Peak
4	17990.80	36.43	11.45	47.88	54.00	6.12	Average

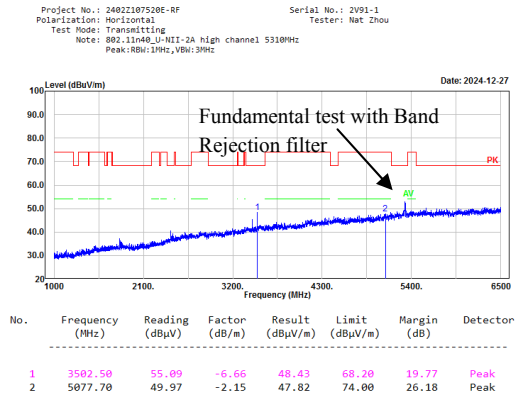
Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-2A low channel 5270MHz
Peak: RBW:1MHz, VBW:30Hz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2V91-1
Tester: Nat Zhou

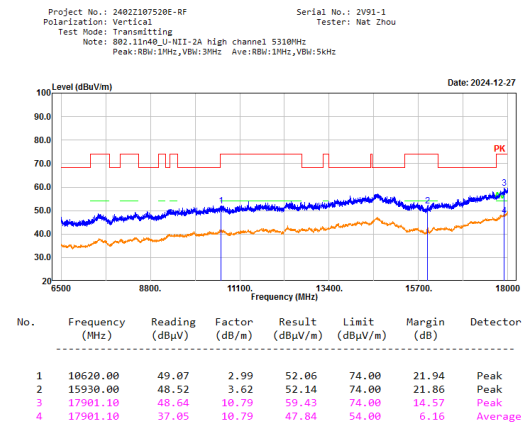
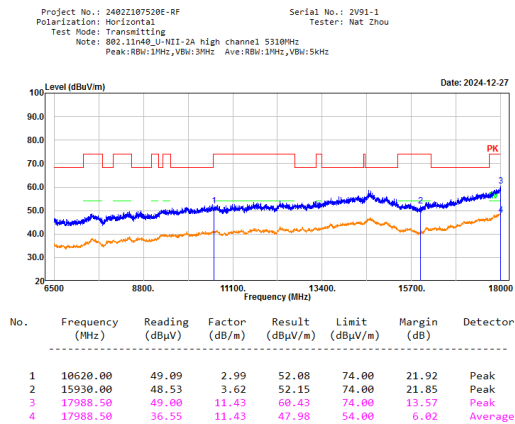
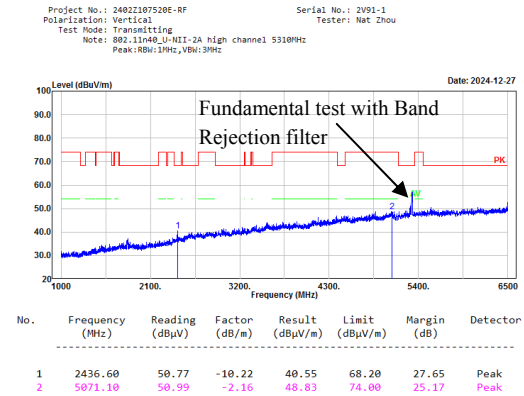


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10540.00	48.39	2.88	51.27	68.20	16.93	Peak
2	15810.00	49.20	3.42	52.62	74.00	21.38	Peak
3	17988.50	48.63	11.43	60.06	74.00	13.94	Peak
4	17988.50	36.49	11.43	47.92	54.00	6.08	Average

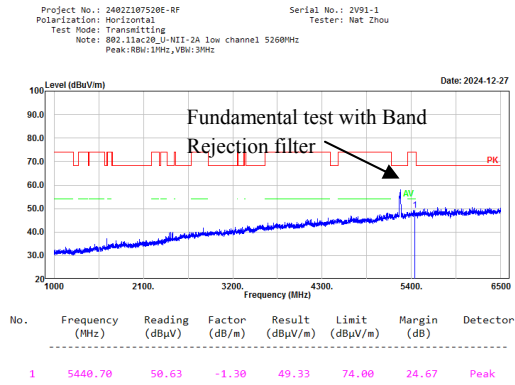
802.11n ht40 mode, High Channel, Horizontal



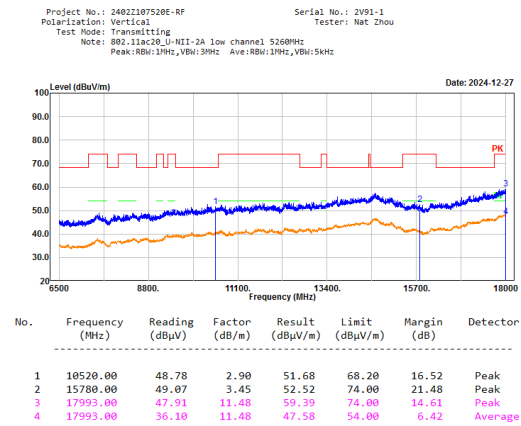
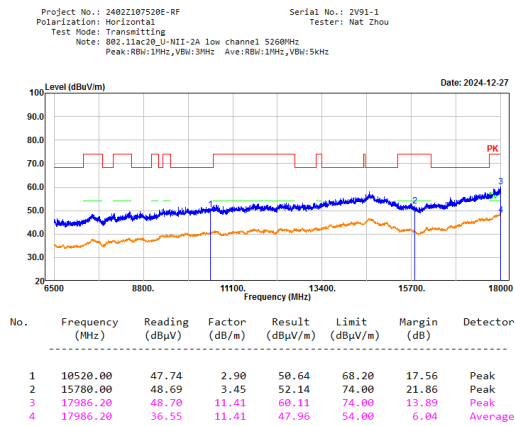
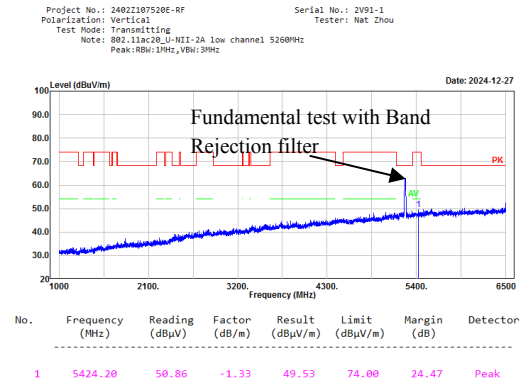
802.11n ht40 mode, High Channel, Vertical



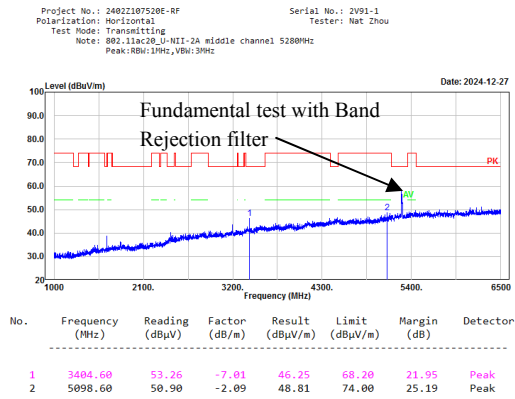
802.11ac20 mode, Low Channel, Horizontal



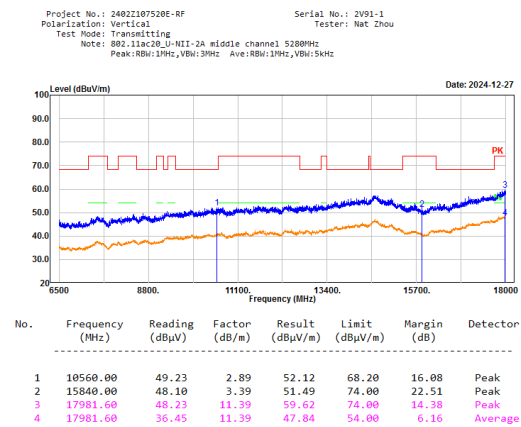
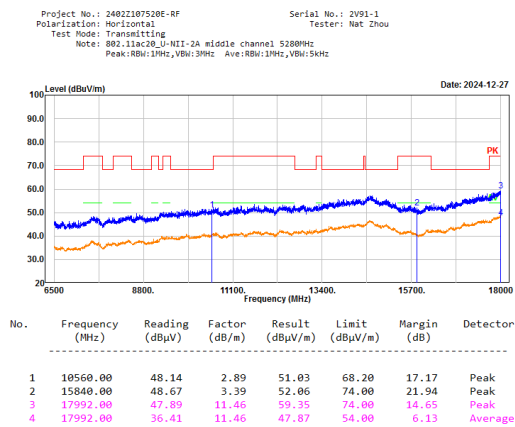
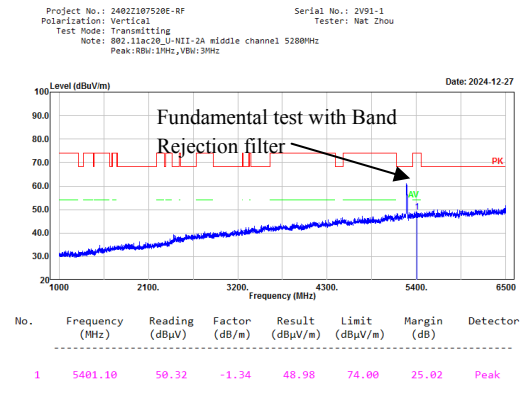
802.11ac20 mode, Low Channel, Vertical



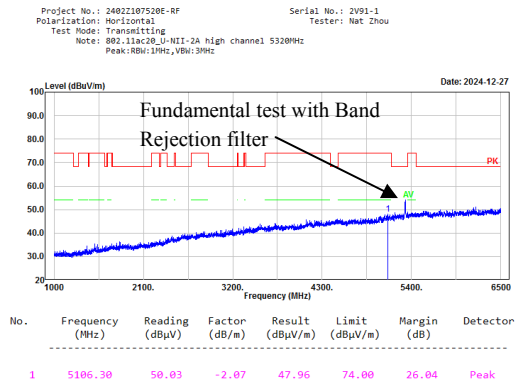
802.11ac20 mode, Middle Channel, Horizontal



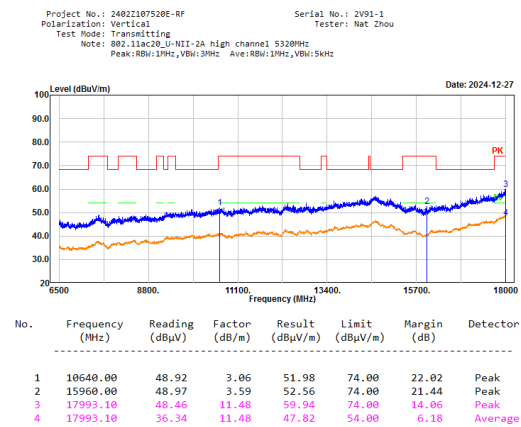
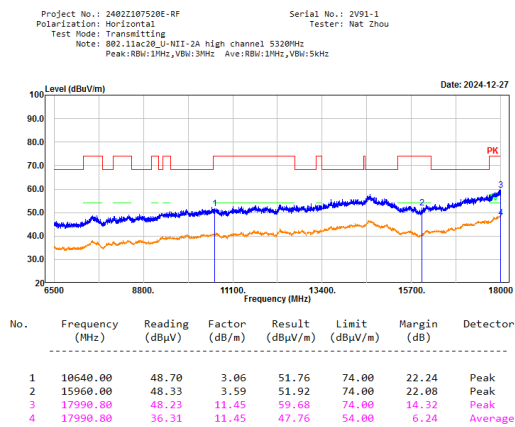
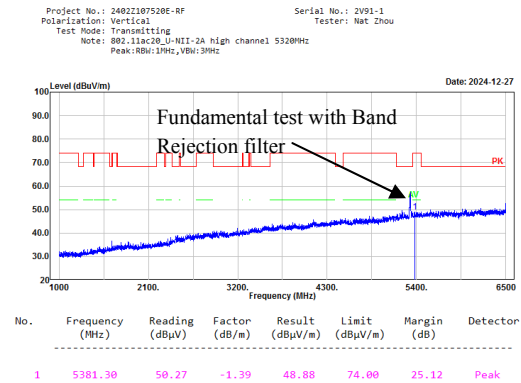
802.11ac20 mode, Middle Channel, Vertical



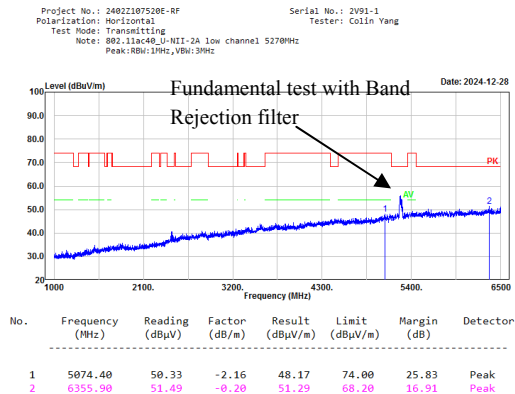
802.11ac20 mode, High Channel, Horizontal



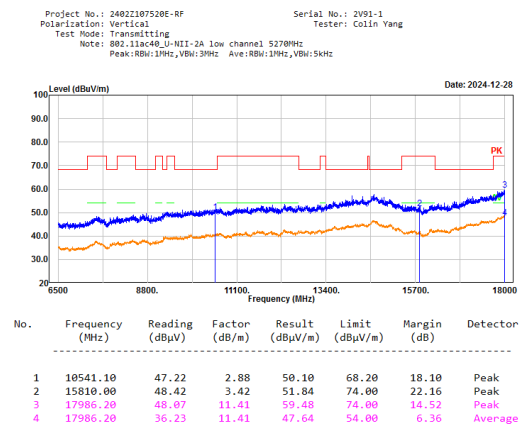
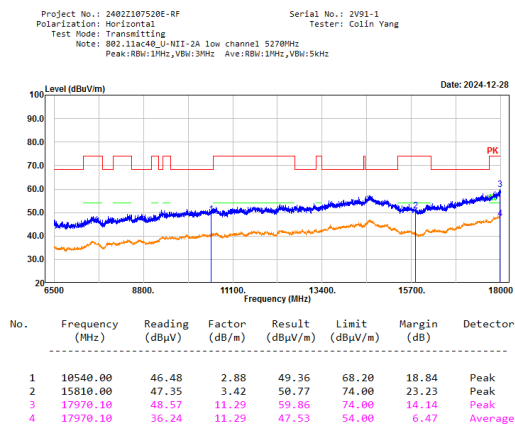
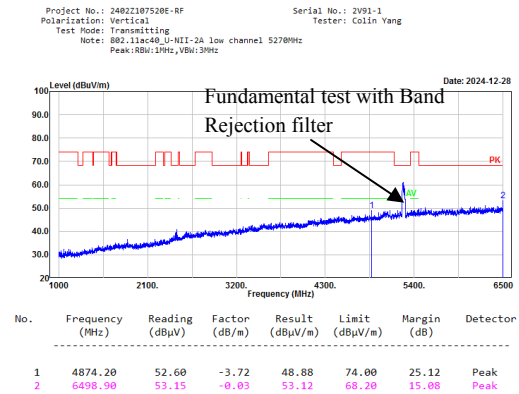
802.11ac20 mode, High Channel, Vertical



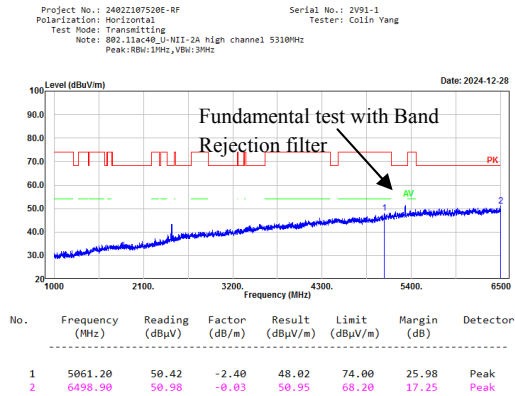
802.11ac40 mode, Low Channel, Horizontal



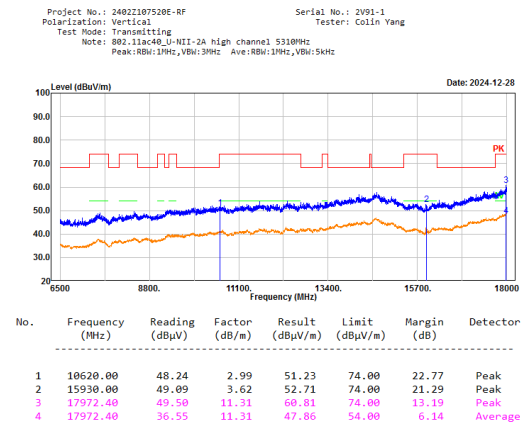
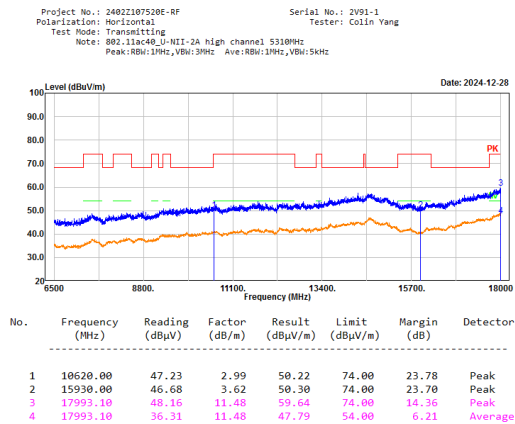
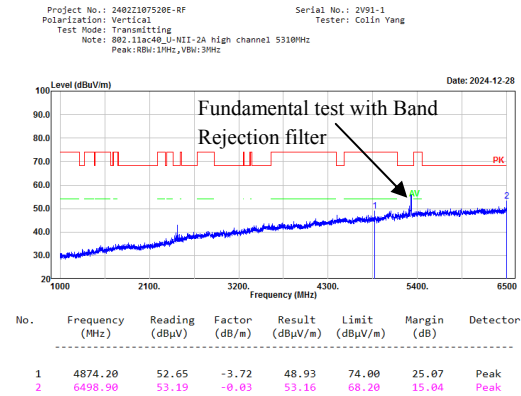
802.11ac40 mode, Low Channel, Vertical



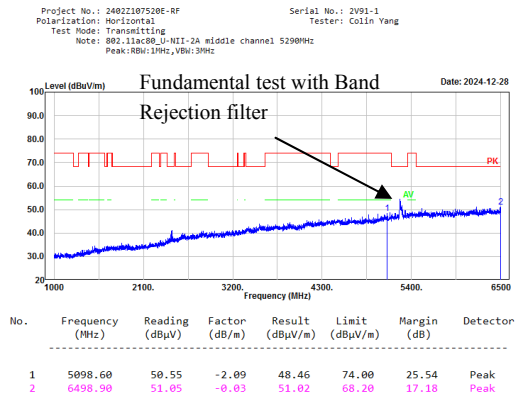
802.11ac40 mode, High Channel, Horizontal



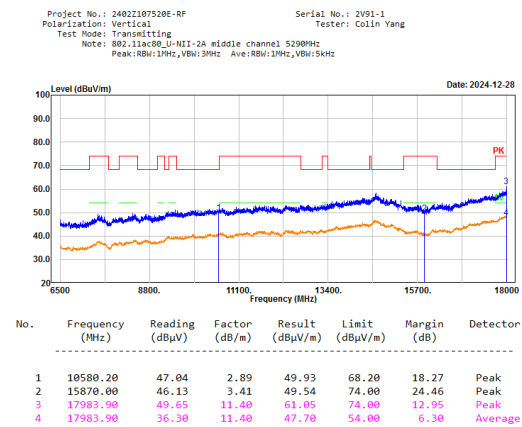
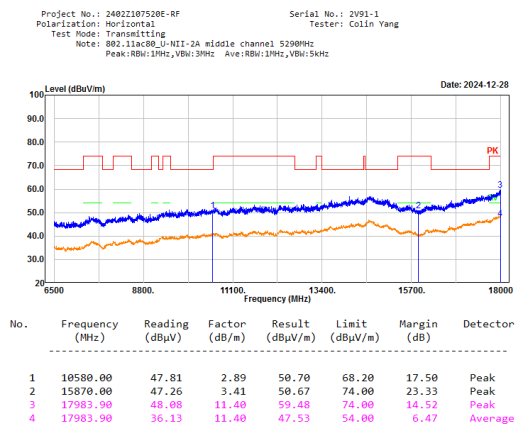
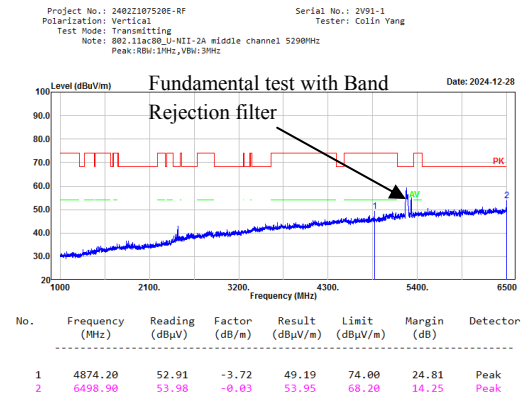
802.11ac40 mode, High Channel, Vertical



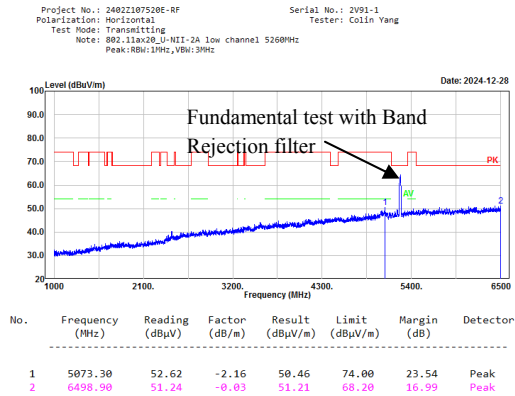
802.11ac80 mode, Middle Channel, Horizontal



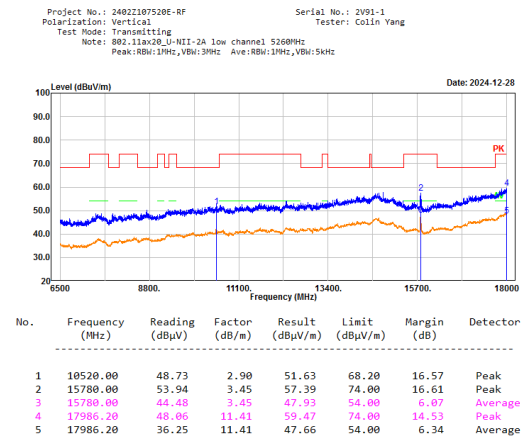
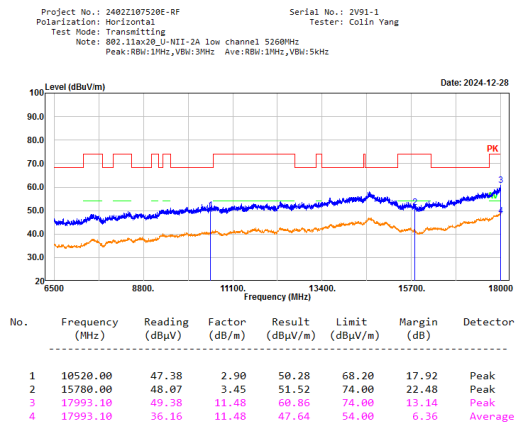
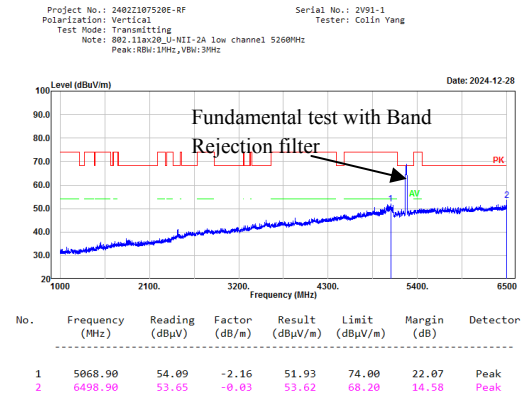
802.11ac80 mode, Middle Channel, Vertical



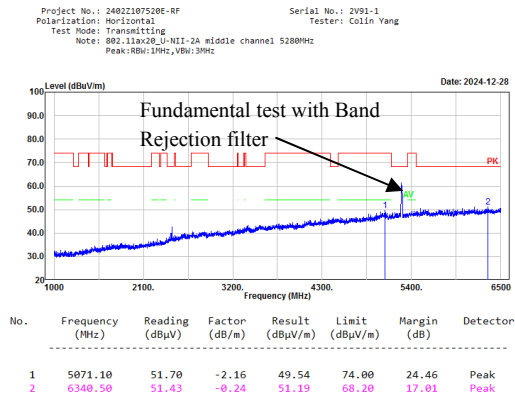
802.11ax20 mode, Low Channel, Horizontal



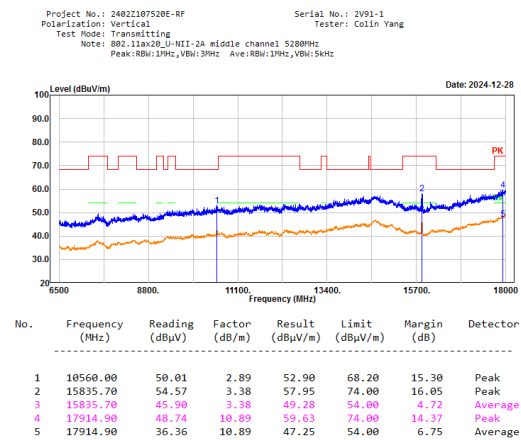
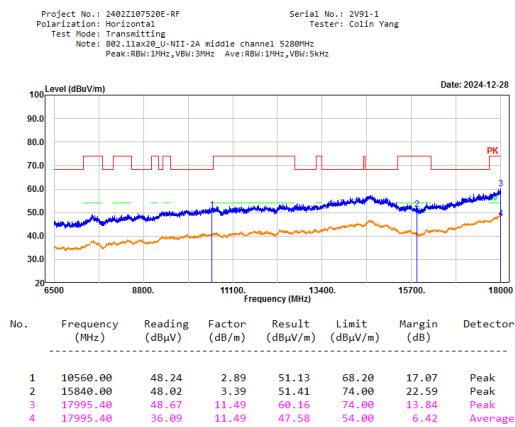
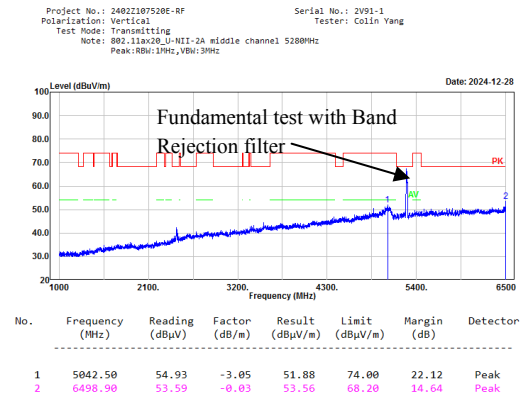
802.11ax20 mode, Low Channel, Vertical



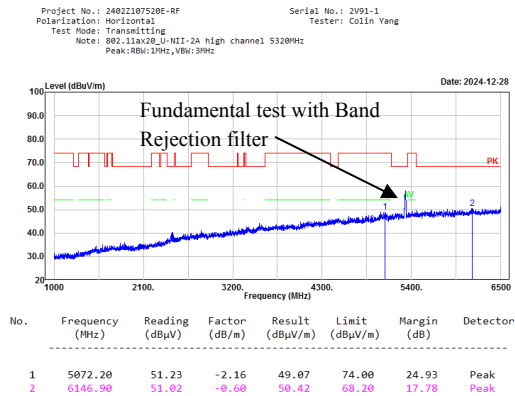
802.11ax20 mode, Middle Channel, Horizontal



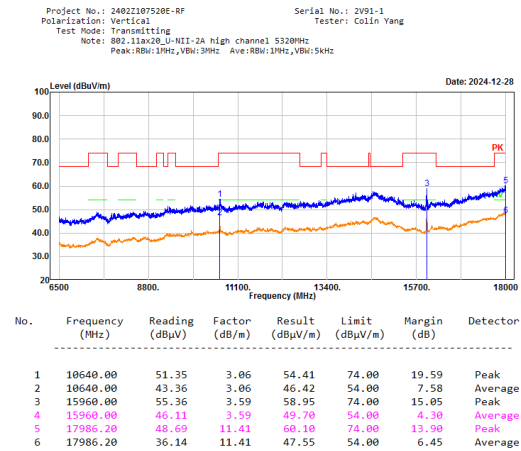
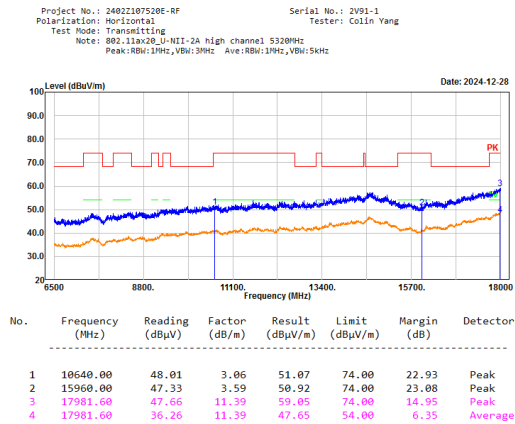
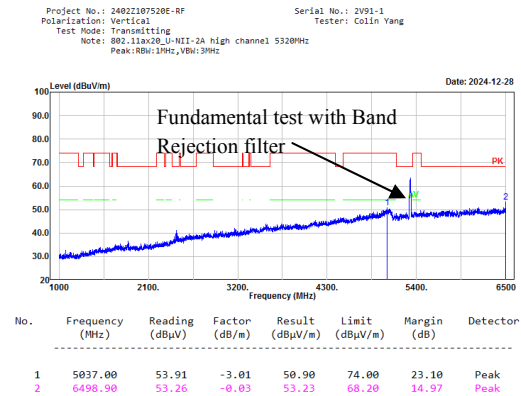
802.11ax20 mode, Middle Channel, Vertical



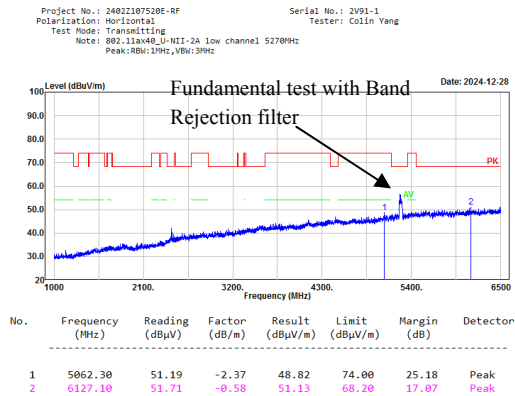
802.11ax20 mode, High Channel, Horizontal



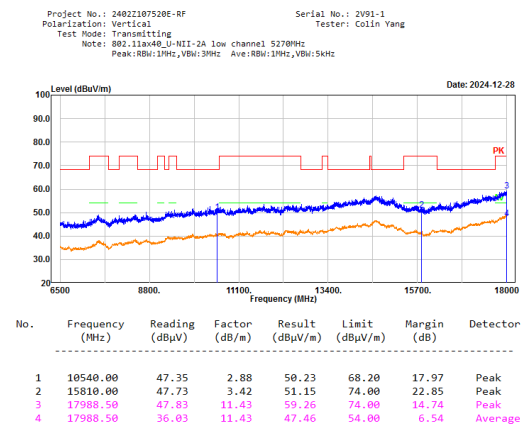
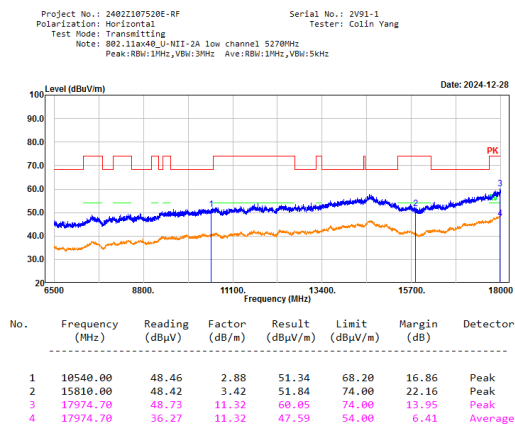
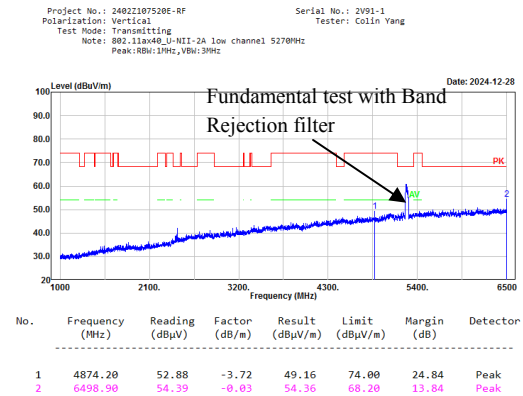
802.11ax20 mode, High Channel, Vertical



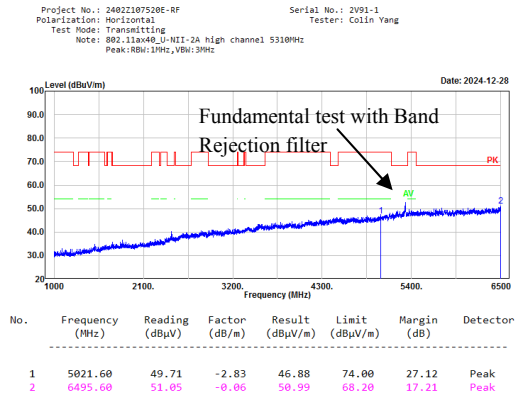
802.11ax40 mode, Low Channel, Horizontal



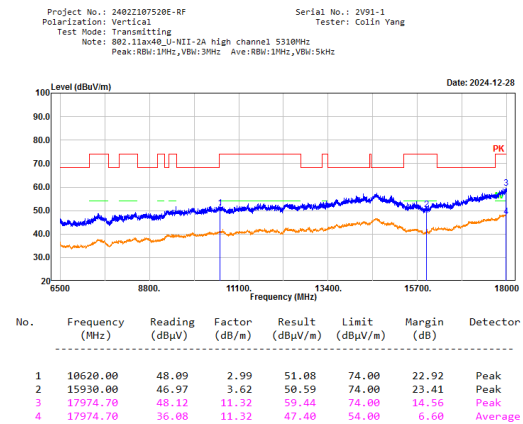
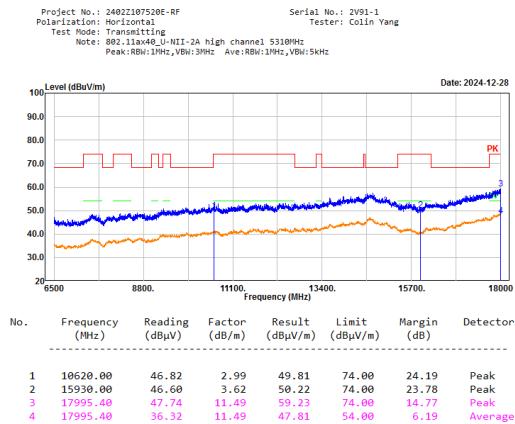
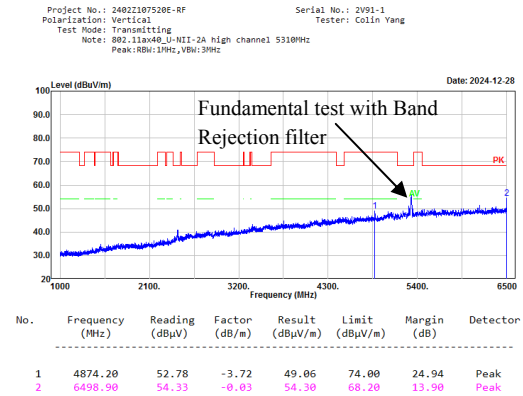
802.11ax40 mode, Low Channel, Vertical



802.11ax40 mode, High Channel, Horizontal



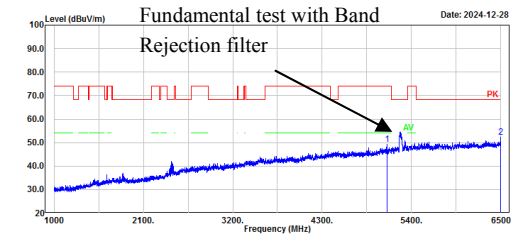
802.11ax mode, High Channel, Vertical



802.11ax80 mode, Middle Channel, Horizontal

Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax80_U-NII-2A middle channel 5290MHz
Peak: RBW:1MHz, VBW:30Hz

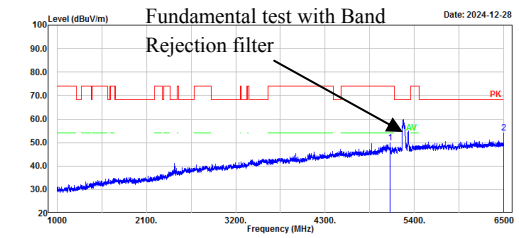
Serial No.: 2V91-1
Tester: Colin Yang



802.11ax80 mode, Middle Channel, Vertical

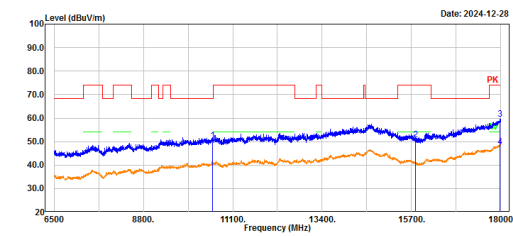
Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax80_U-NII-2A middle channel 5290MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 2V91-1
Tester: Colin Yang



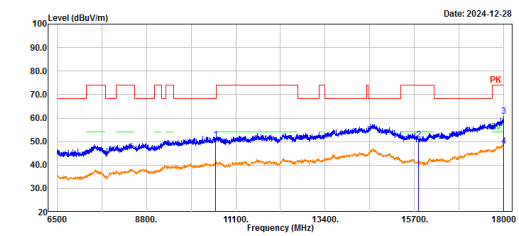
Project No.: 2402Z107520E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax80_U-NII-2A middle channel 5290MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

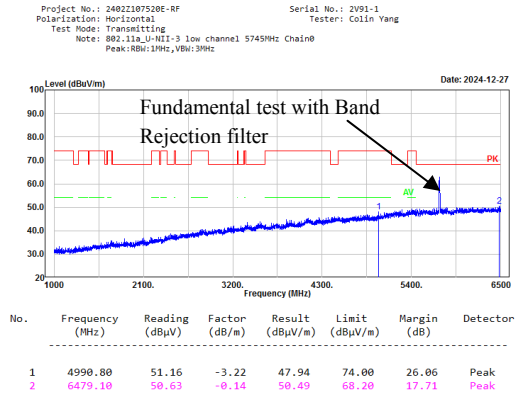
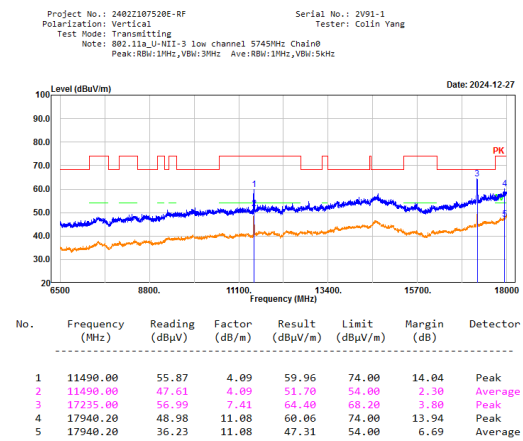
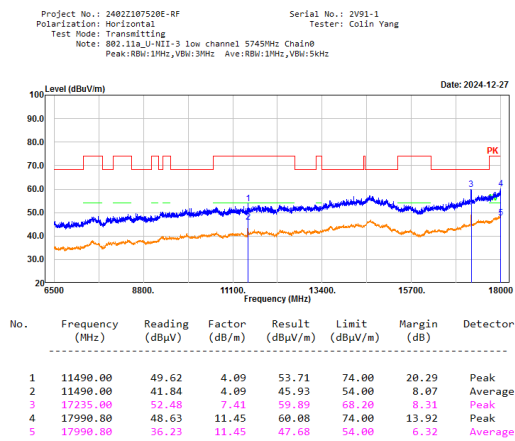
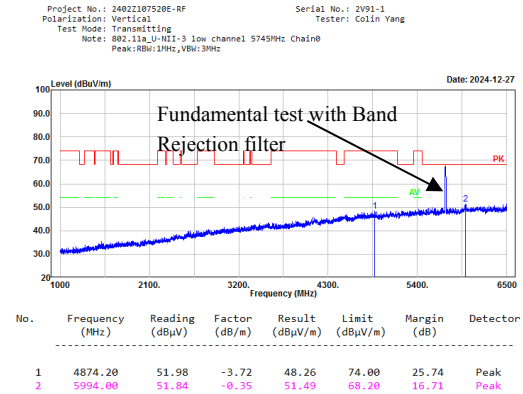
Serial No.: 2V91-1
Tester: Colin Yang

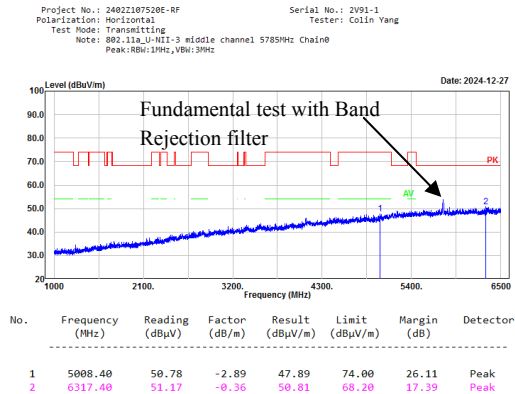
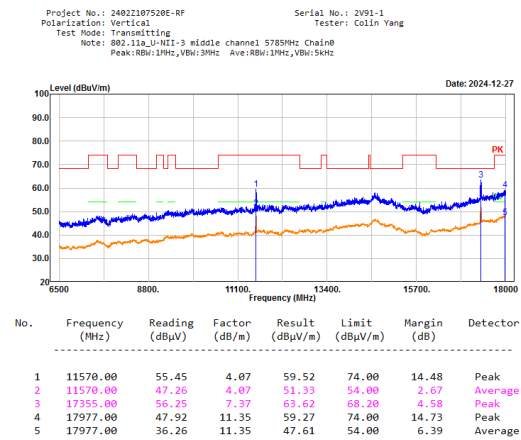
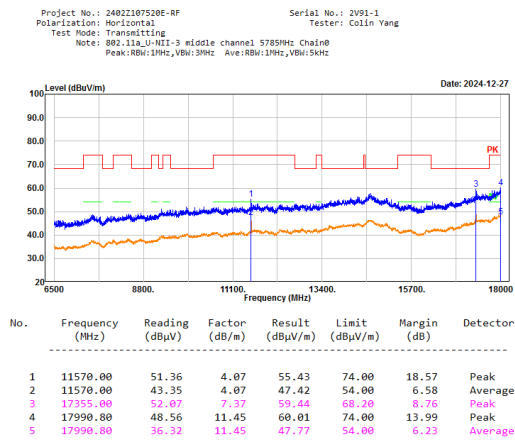
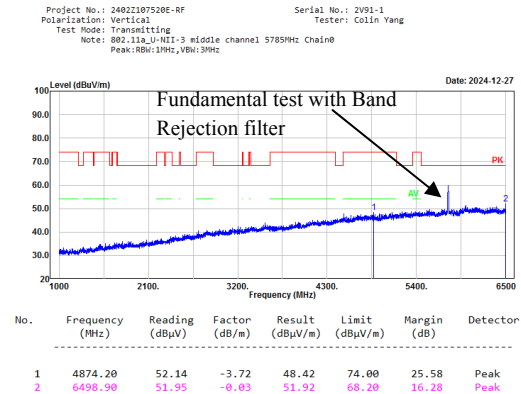


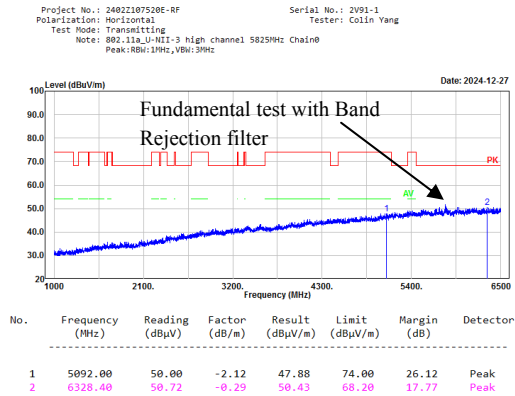
Project No.: 2402Z107520E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax80_U-NII-2A middle channel 5290MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2V91-1
Tester: Colin Yang

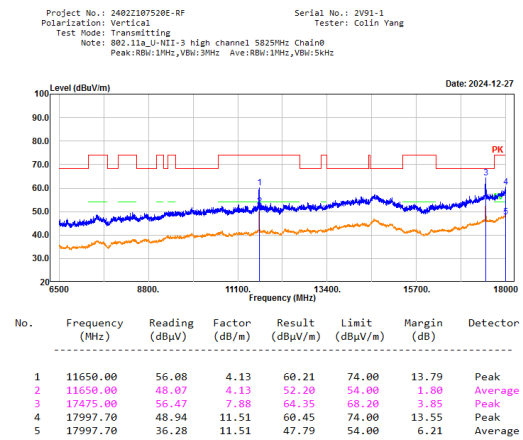
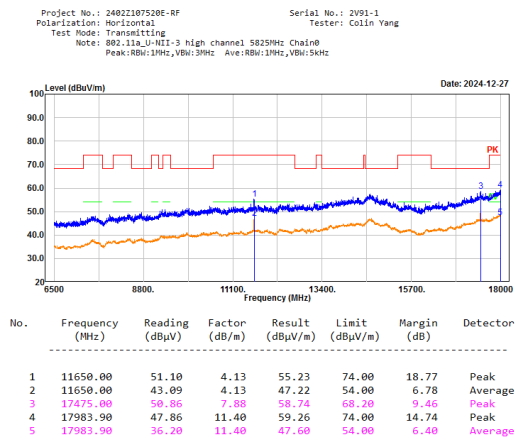
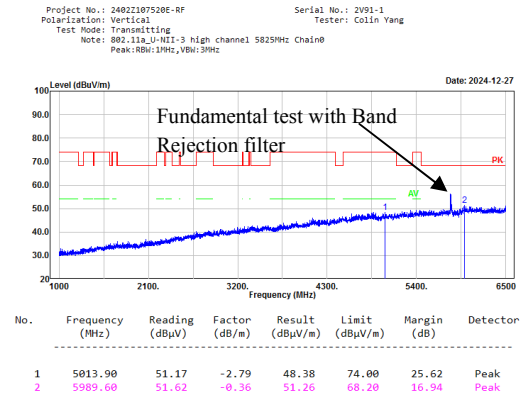


5725-5850MHz:**Chain 0:****802.11a mode, Low Channel, Chain 0,
Horizontal****802.11a mode, Low Channel, Chain 0, Vertical**

802.11a mode, Middle Channel, Chain 0,
Horizontal802.11a mode, Middle Channel, Chain 0,
Vertical

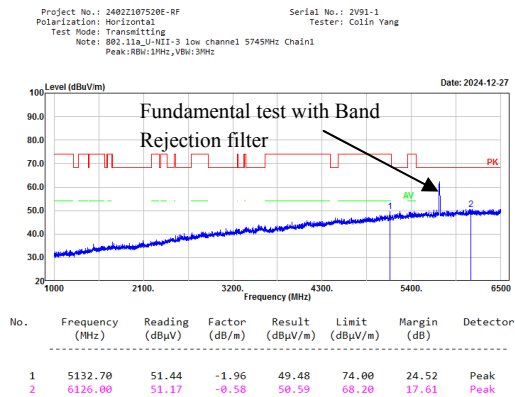
802.11a mode, High Channel, Chain 0,
Horizontal

802.11a mode, High Channel, Chain 0,Vertical

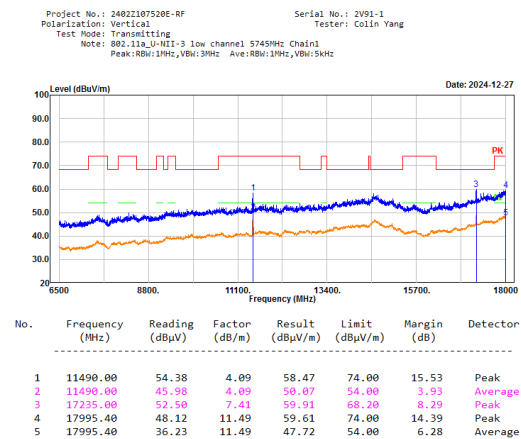
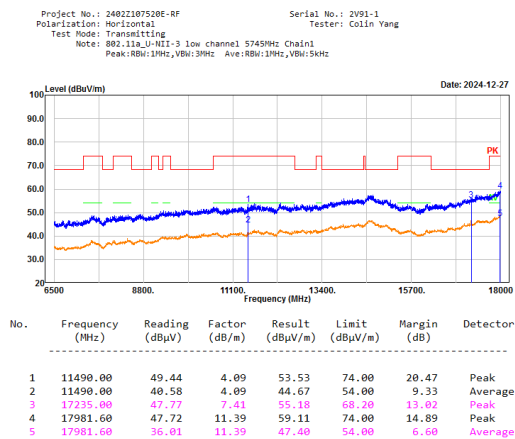
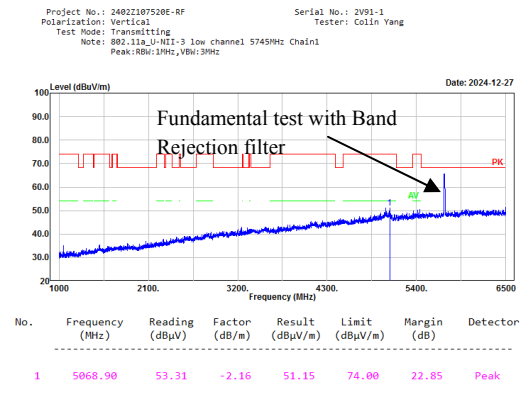


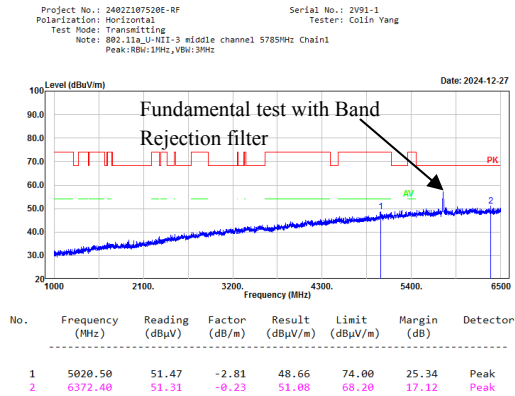
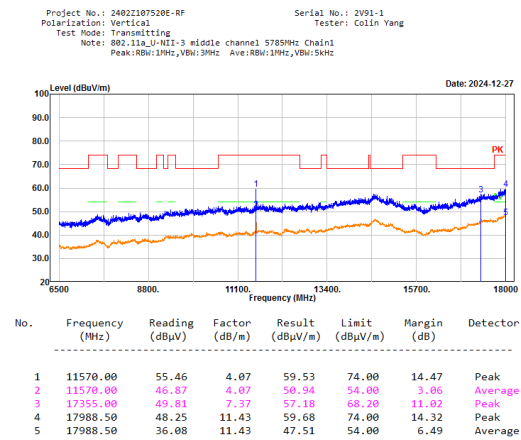
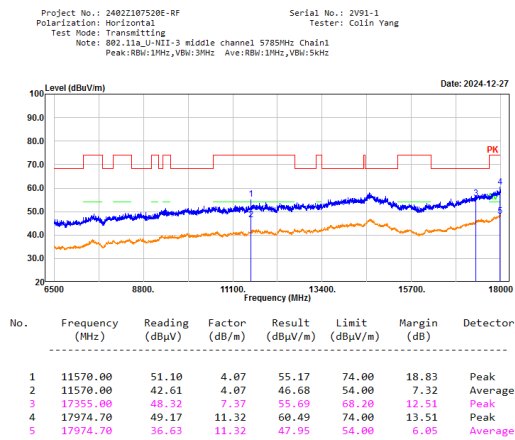
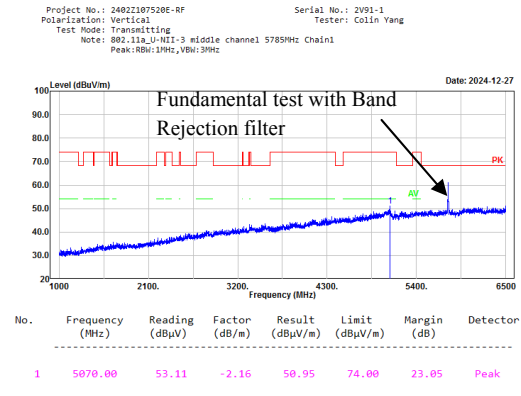
Chain 1:

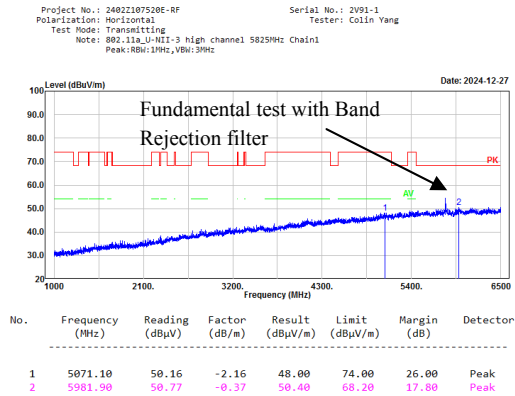
802.11a mode, Low Channel, Chain 1, Horizontal



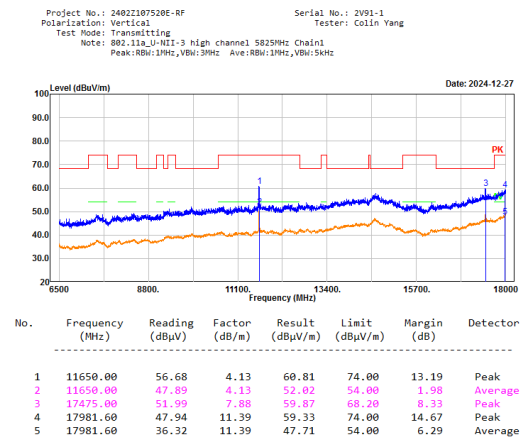
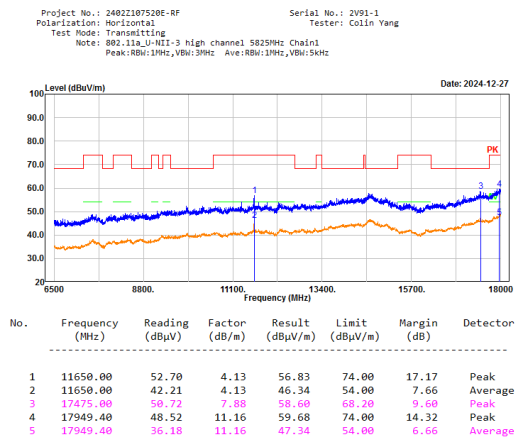
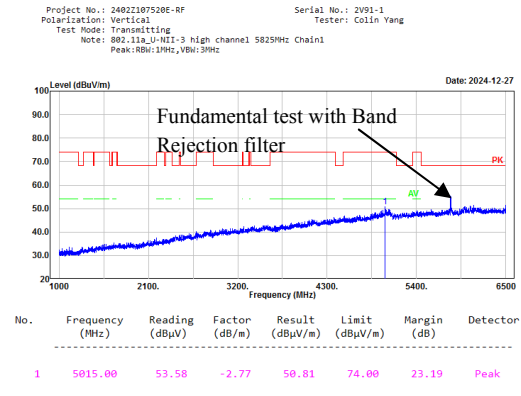
802.11a mode, Low Channel, Chain 1, Vertical



802.11a mode, Middle Channel, Chain 1,
Horizontal802.11a mode, Middle Channel, Chain 1,
Vertical

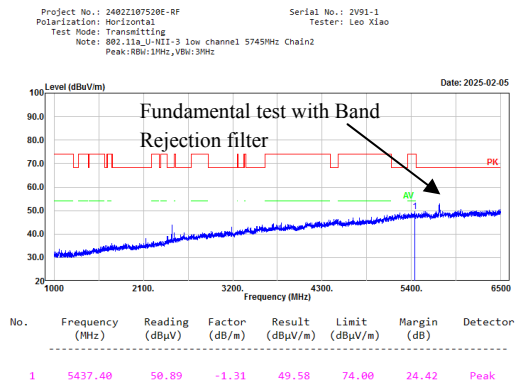
802.11a mode, High Channel, Chain 1,
Horizontal

802.11a mode, High Channel, Chain 1, Vertical

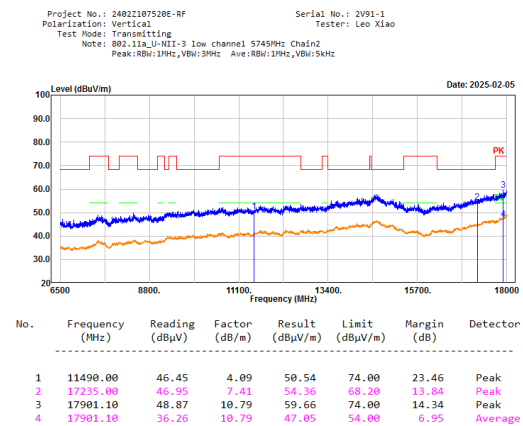
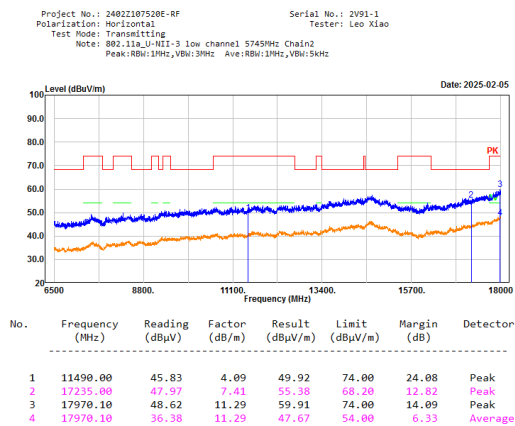
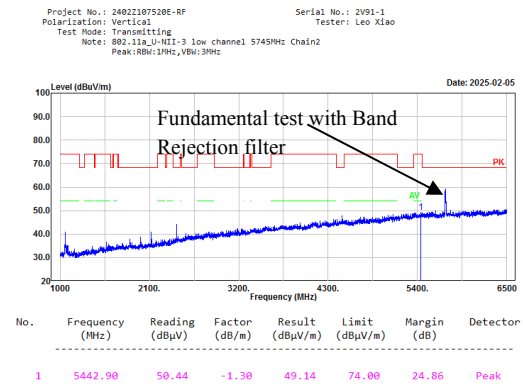


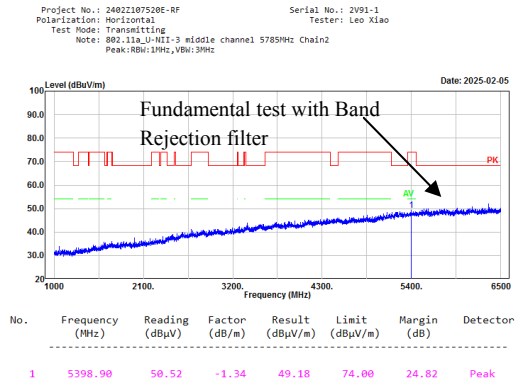
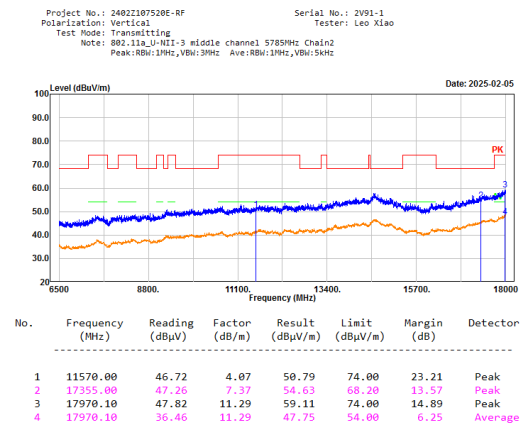
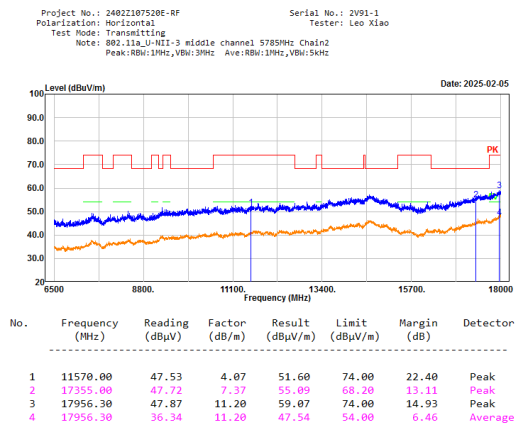
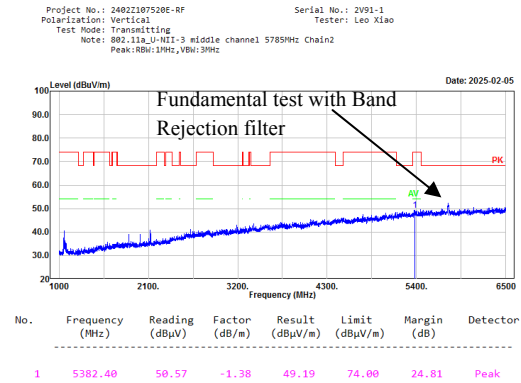
Chain 2:

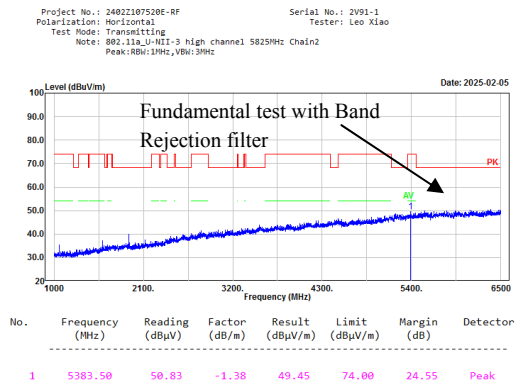
802.11a mode, Low Channel, Chain 2, Horizontal



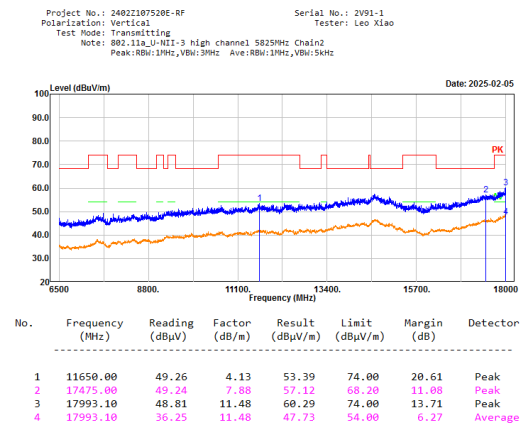
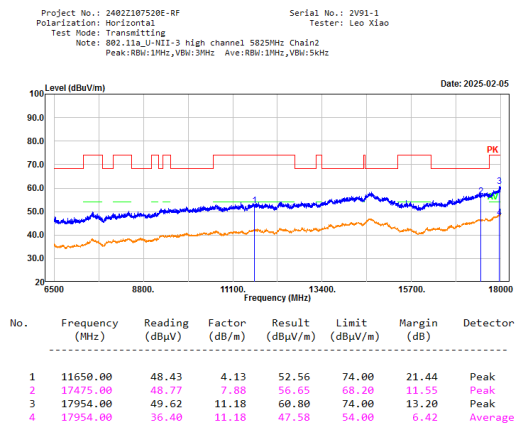
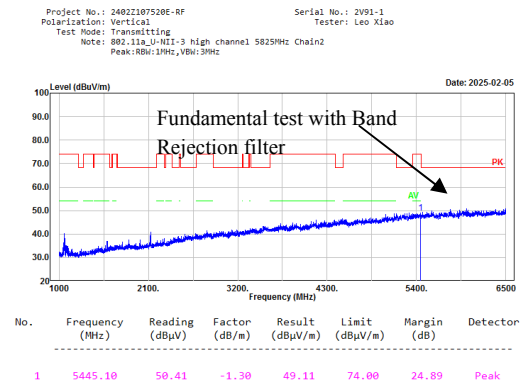
802.11a mode, Low Channel, Chain 2, Vertical

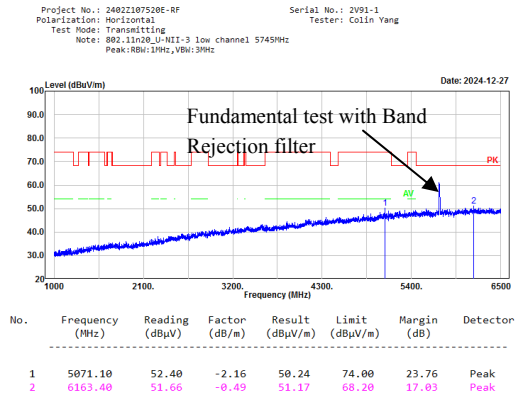
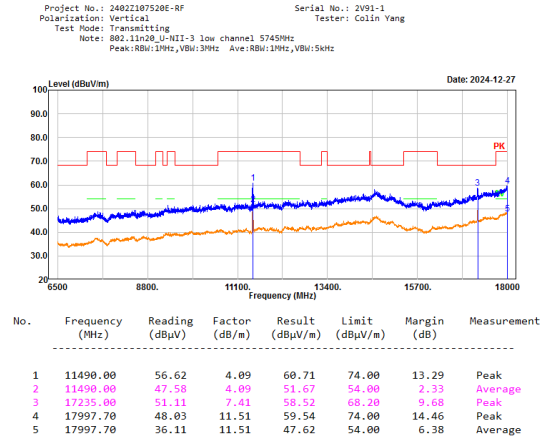
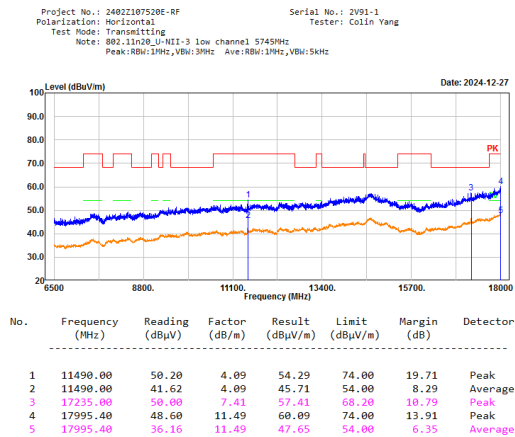
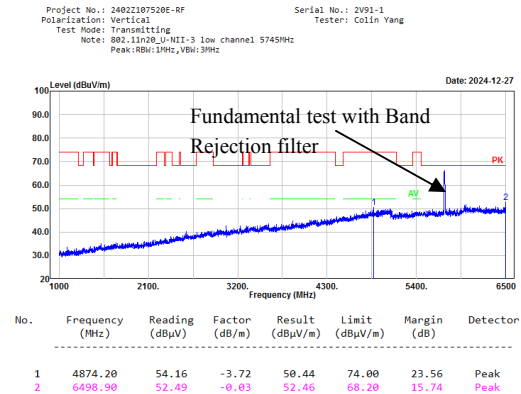


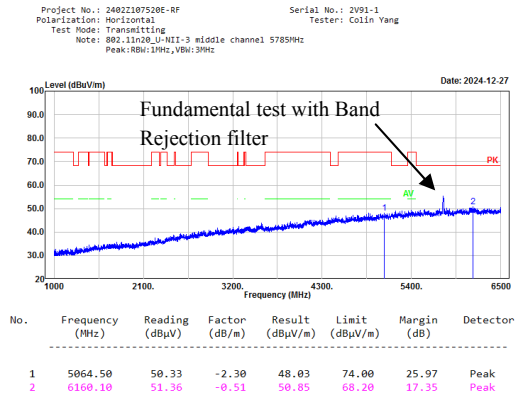
802.11a mode, Middle Channel, Chain 2,
Horizontal802.11a mode, Middle Channel, Chain 2,
Vertical

802.11a mode, High Channel, Chain 2,
Horizontal

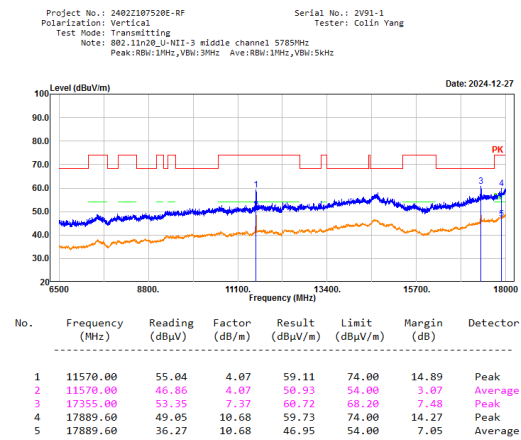
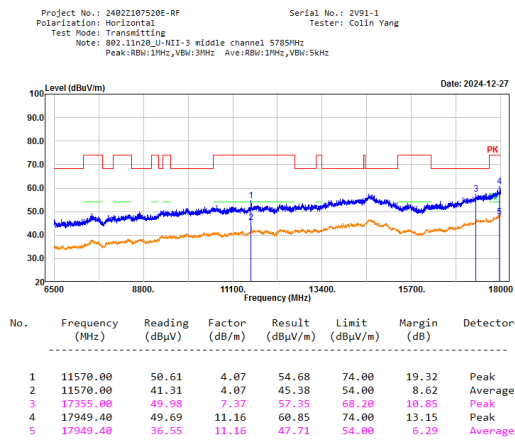
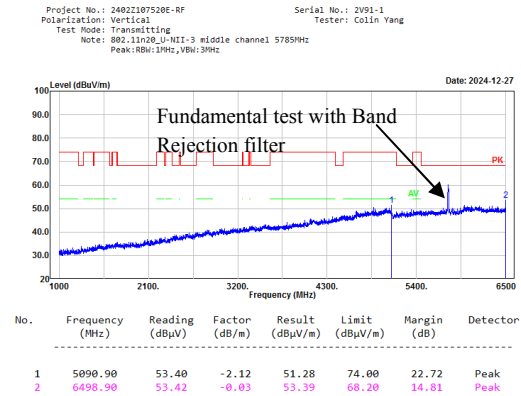
802.11a mode, High Channel, Chain 2,Vertical



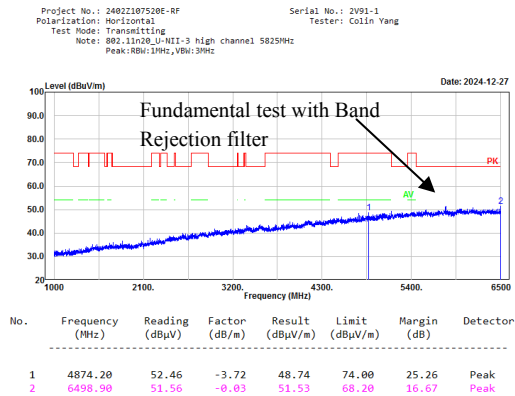
MIMO mode(Chain 0+ Chain 1) was the worst:**802.11n ht20 mode, Low Channel, Horizontal****802.11n ht20 mode, Low Channel, Vertical**

802.11n ht20 mode, Middle Channel,
Horizontal

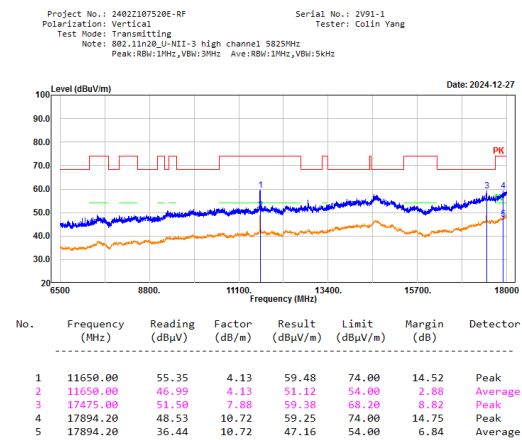
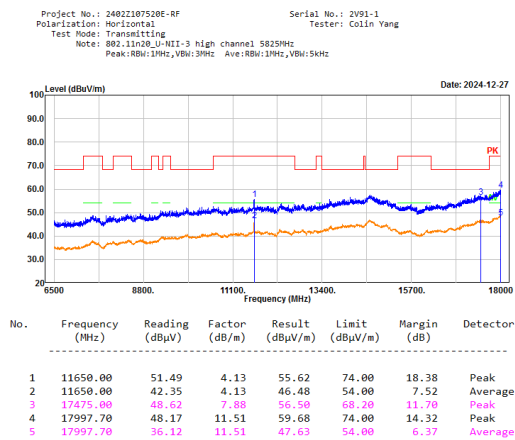
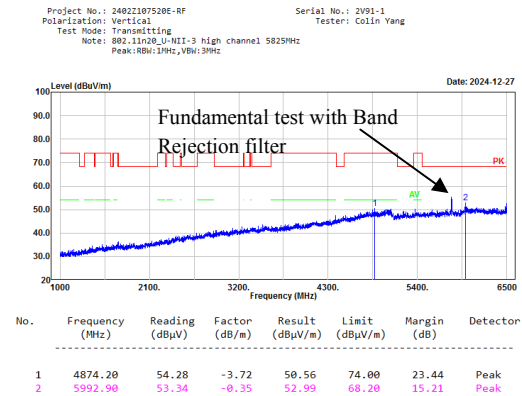
802.11n ht20 mode, Middle Channel, Vertical



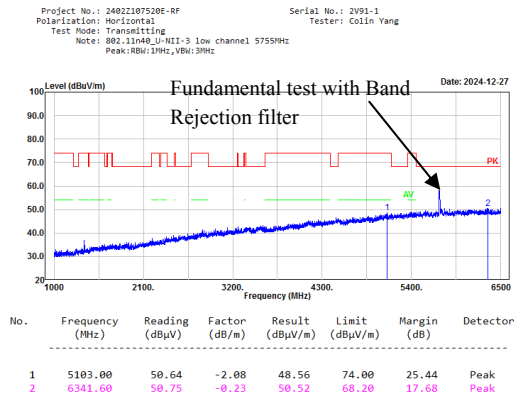
802.11n ht20 mode, High Channel, Horizontal



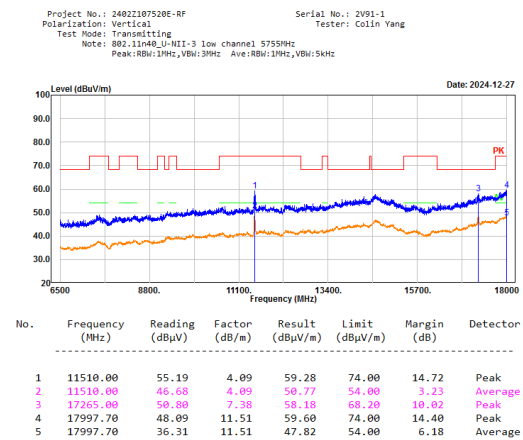
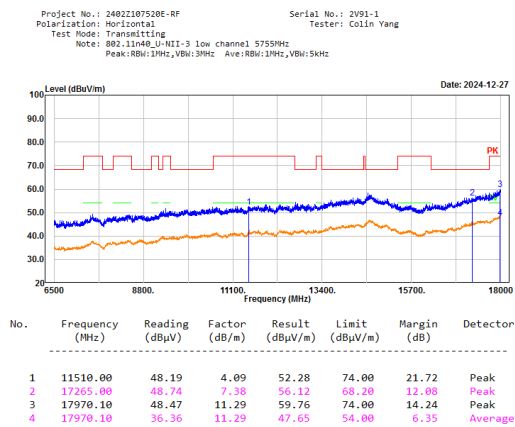
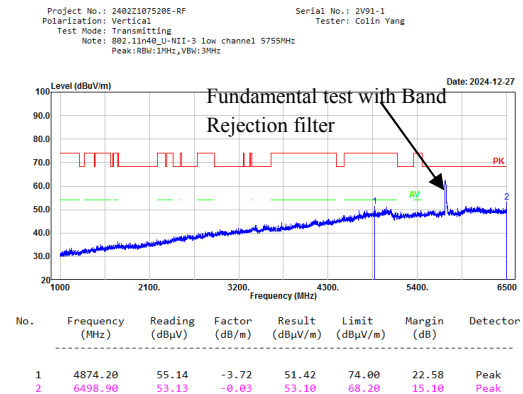
802.11n ht20 mode, High Channel, Vertical



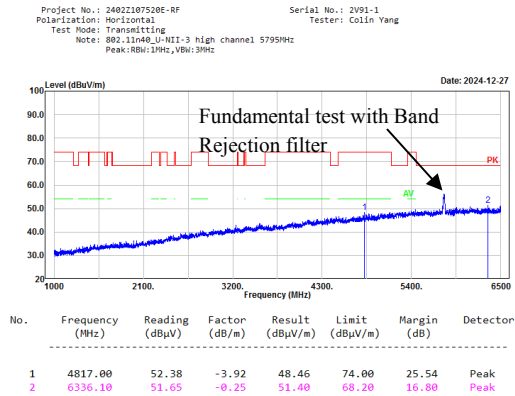
802.11n ht40 mode, Low Channel, Horizontal



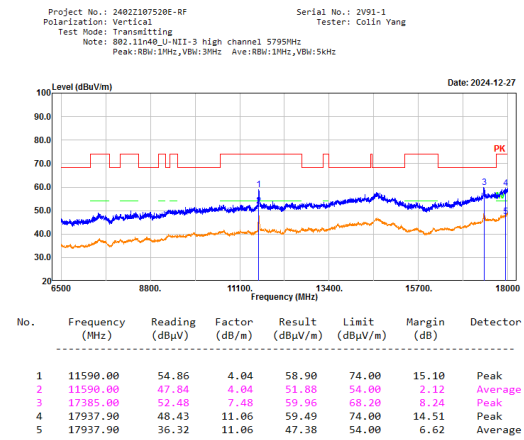
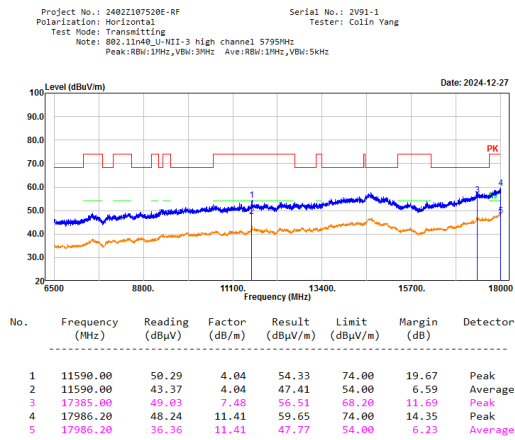
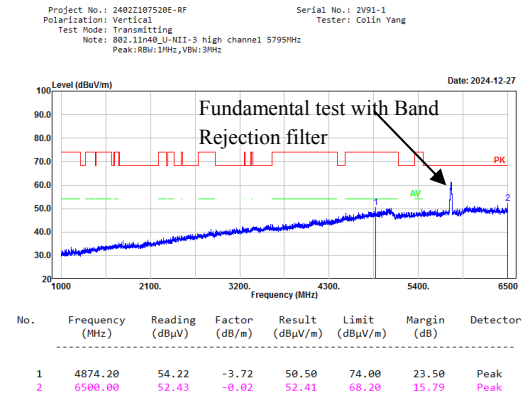
802.11n ht40 mode, Low Channel, Vertical



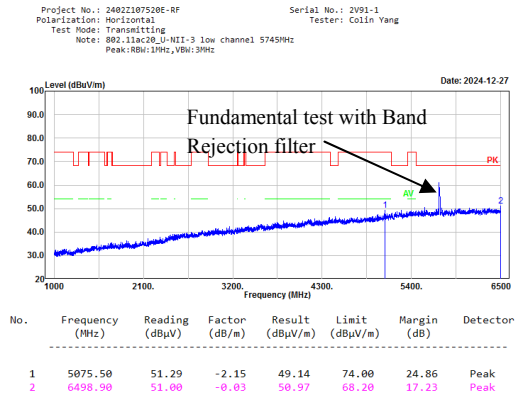
802.11n ht40 mode, High Channel, Horizontal



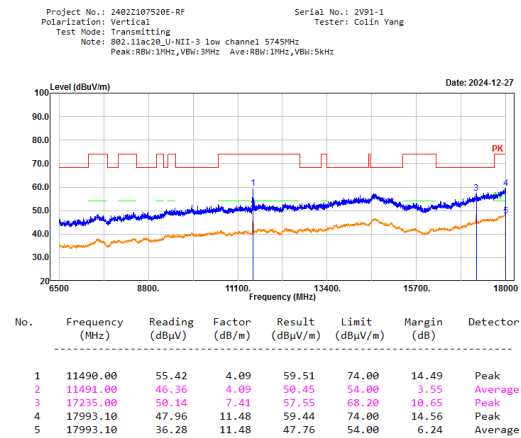
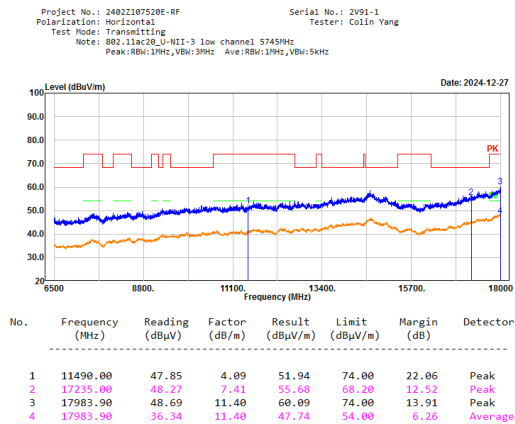
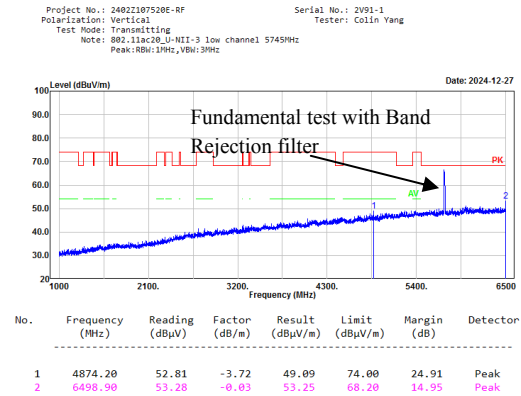
802.11n ht40 mode, High Channel, Vertical



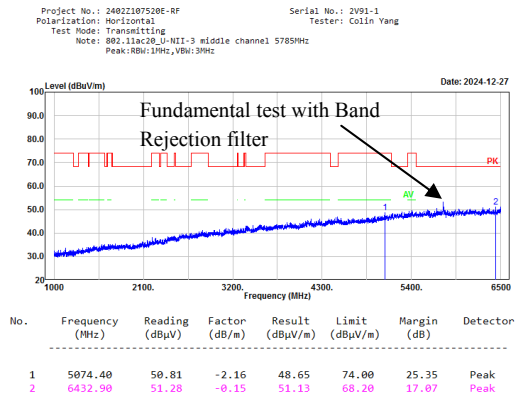
802.11ac20 mode, Low Channel, Horizontal



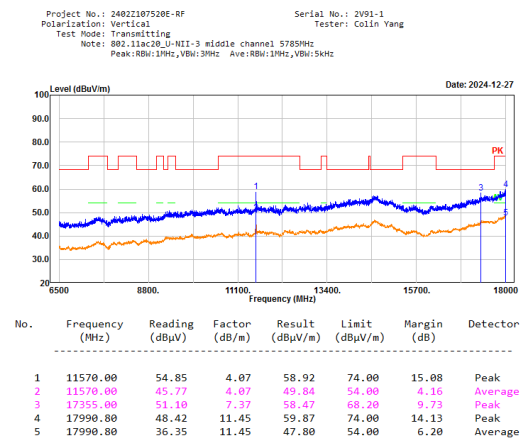
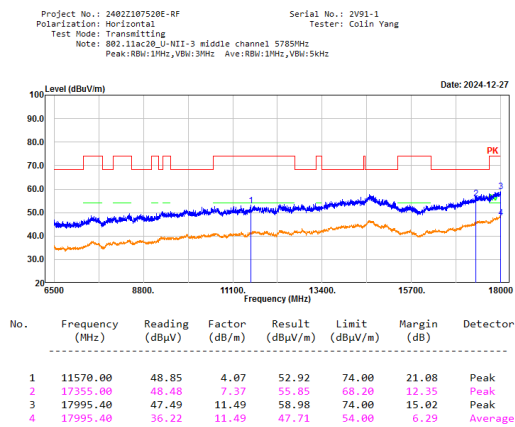
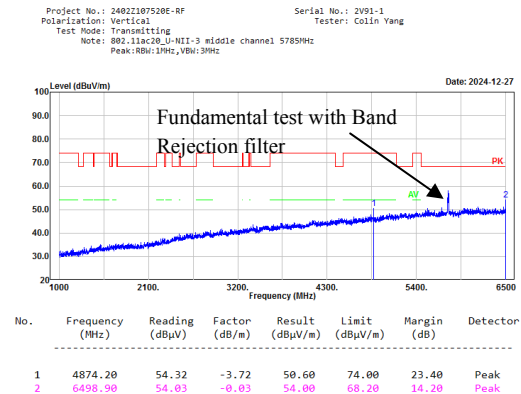
802.11ac20 mode, Low Channel, Vertical



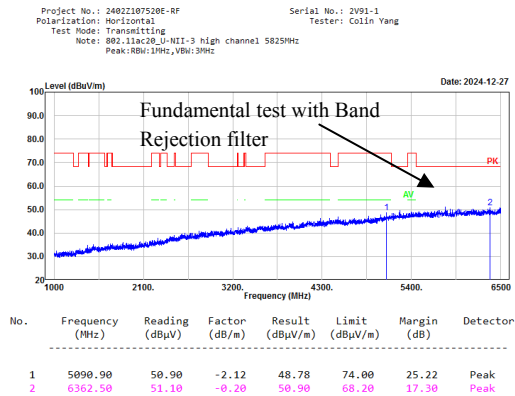
802.11ac20 mode, Middle Channel, Horizontal



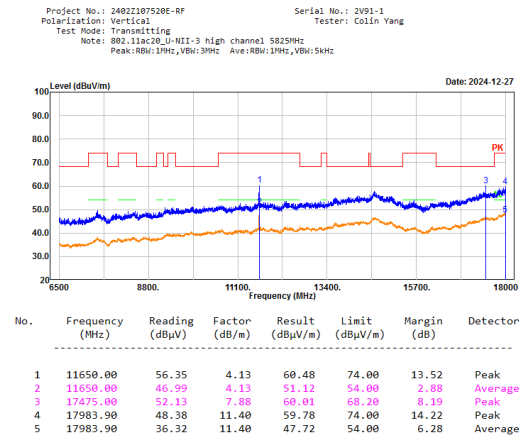
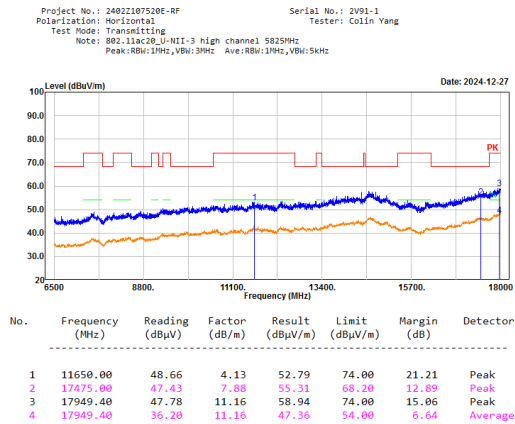
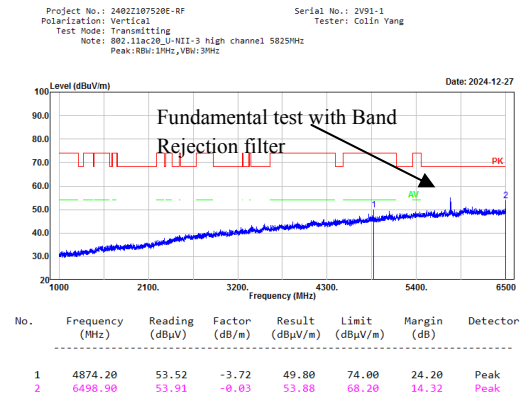
802.11ac20 mode, Middle Channel, Vertical



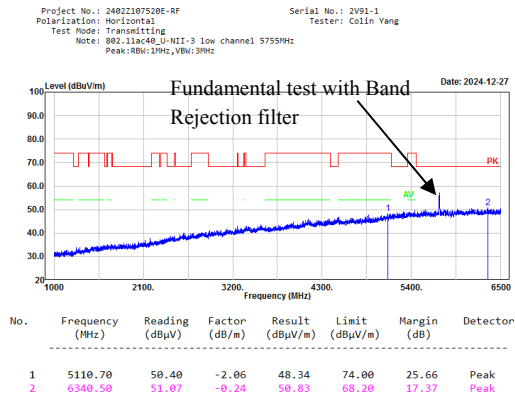
802.11ac20 mode, High Channel, Horizontal



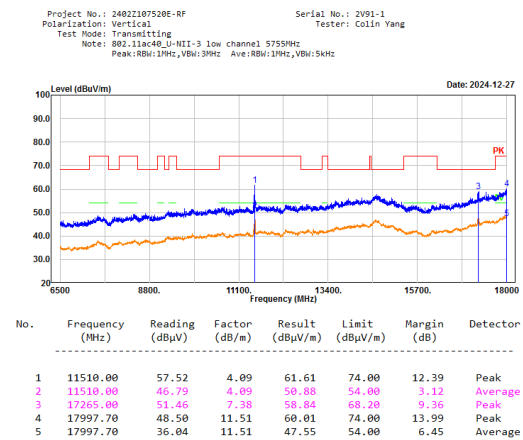
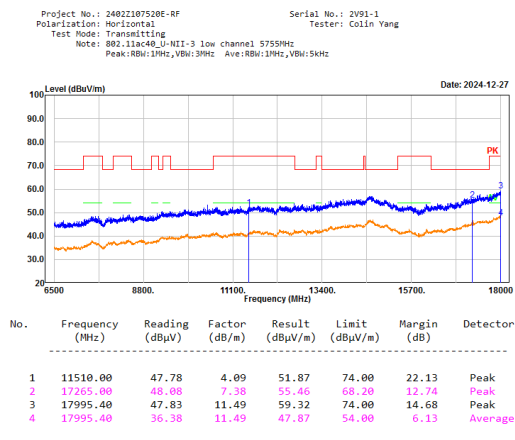
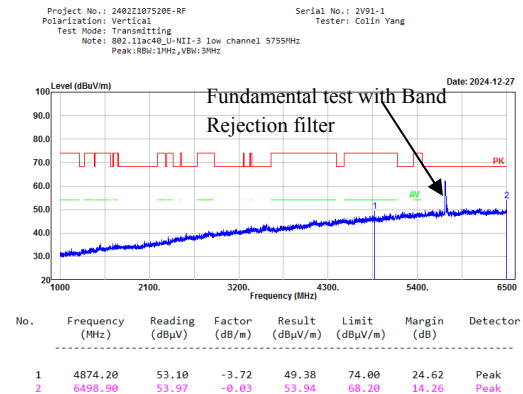
802.11ac20 mode, High Channel, Vertical



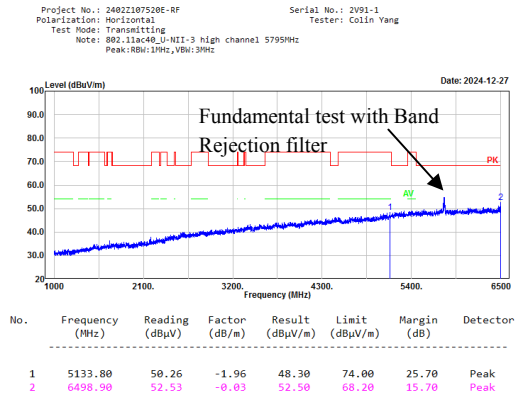
802.11ac40 mode, Low Channel, Horizontal



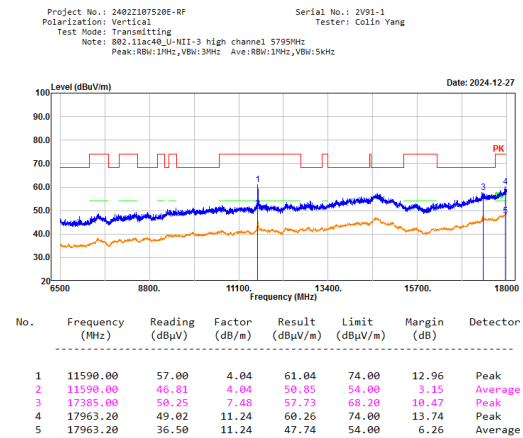
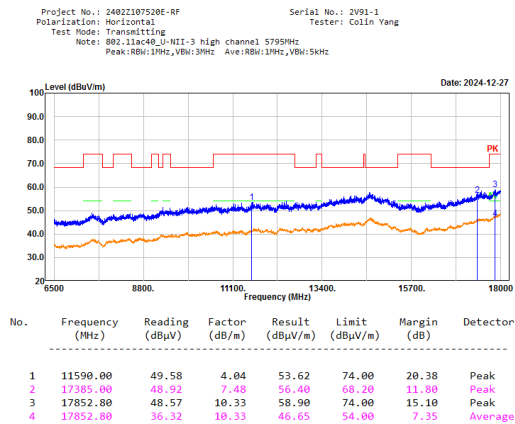
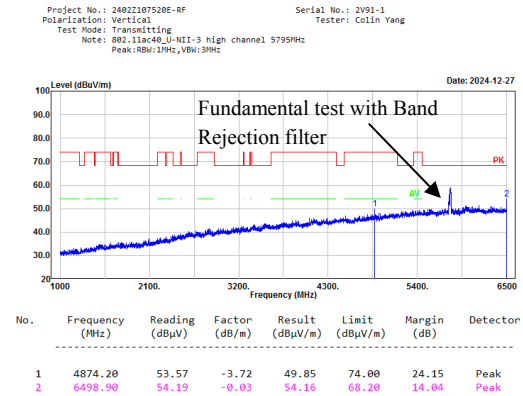
802.11ac40 mode, Low Channel, Vertical



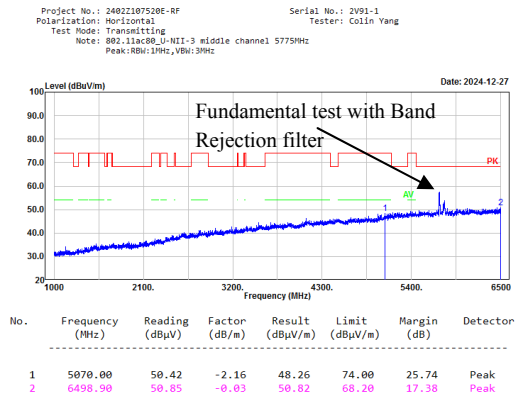
802.11ac40 mode, High Channel, Horizontal



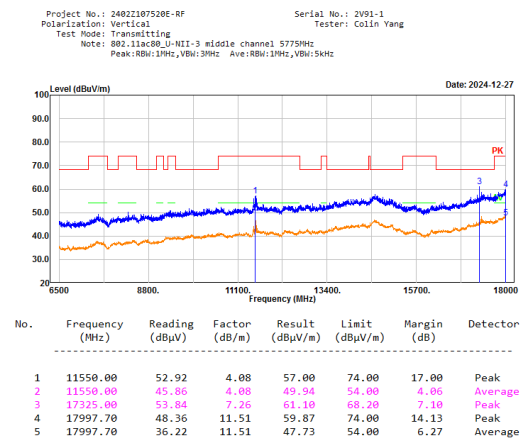
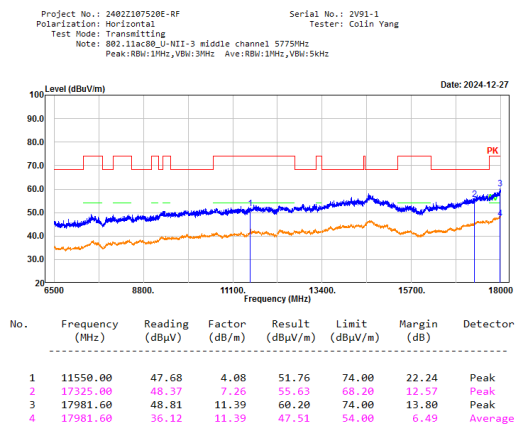
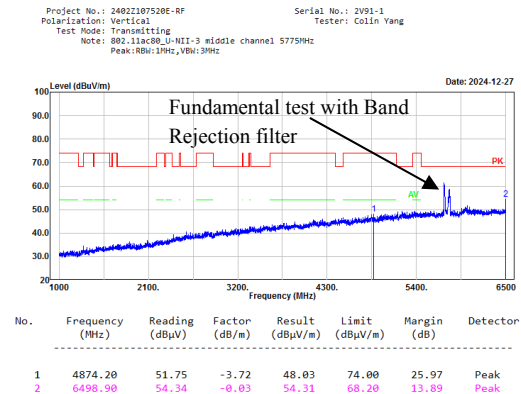
802.11ac40 mode, High Channel, Vertical



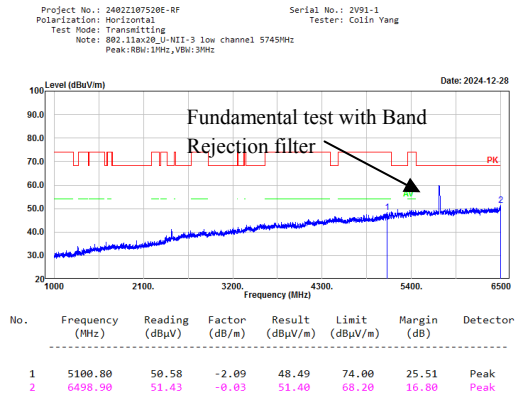
802.11ac80 mode, Middle Channel, Horizontal



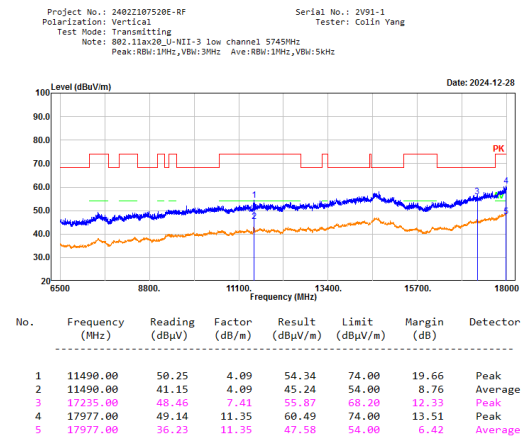
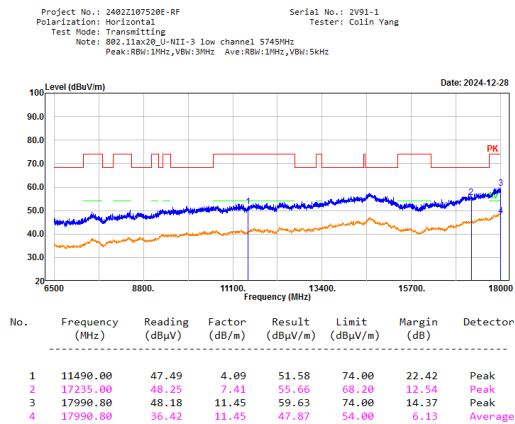
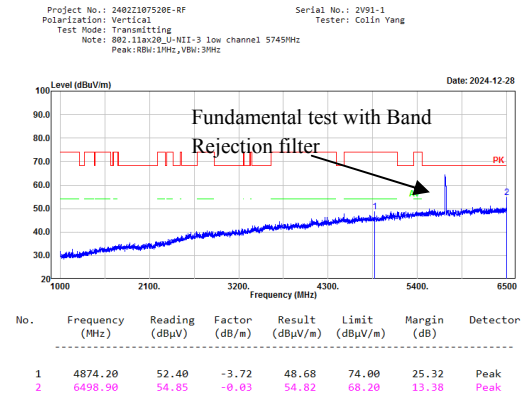
802.11ac80 mode, Middle Channel, Vertical



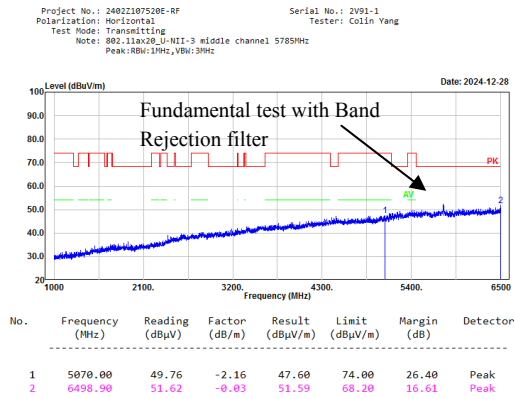
802.11ax20 mode, Low Channel, Horizontal



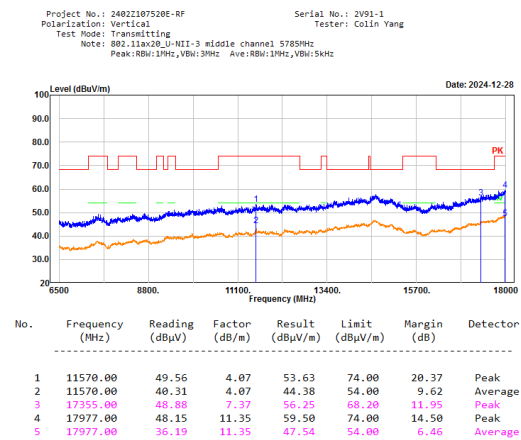
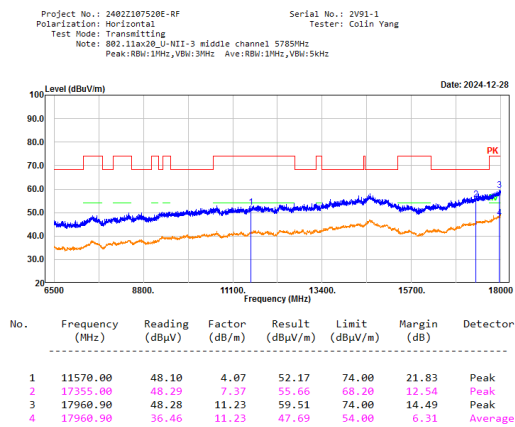
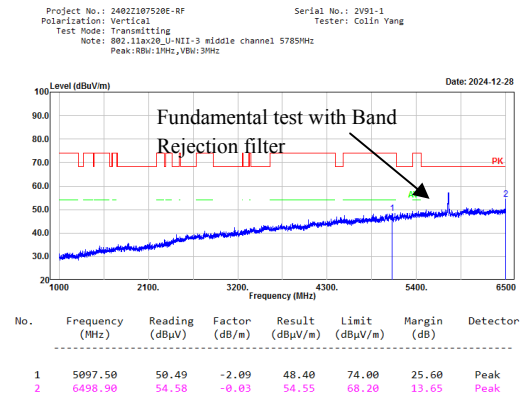
802.11ax20 mode, Low Channel, Vertical



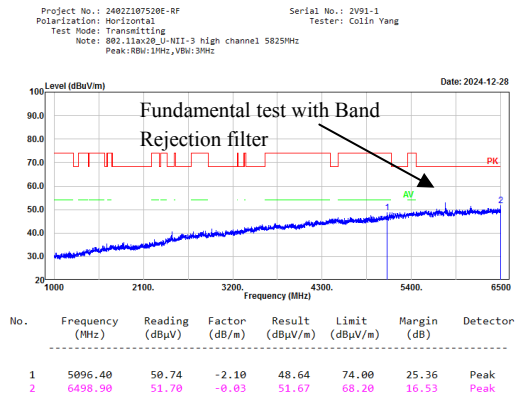
802.11ax20 mode, Middle Channel, Horizontal



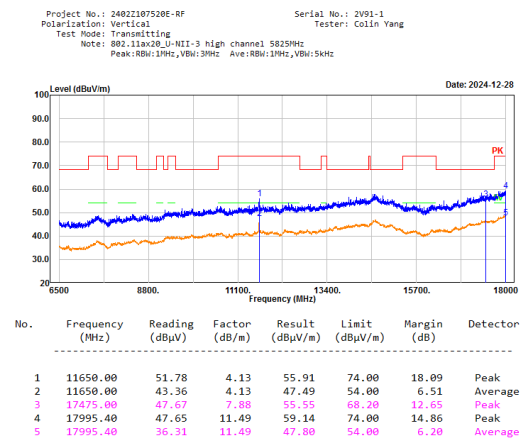
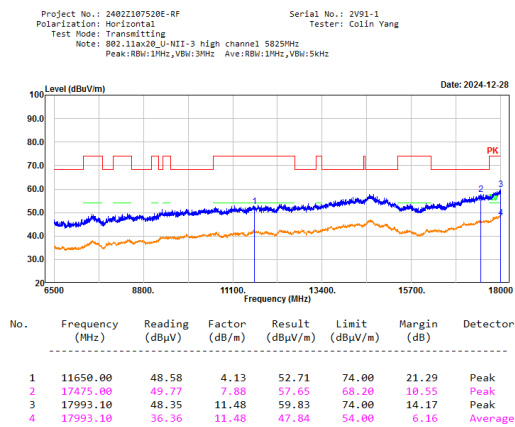
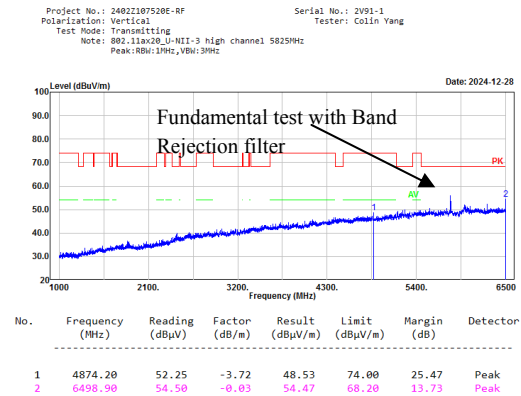
802.11ax20 mode, Middle Channel, Vertical



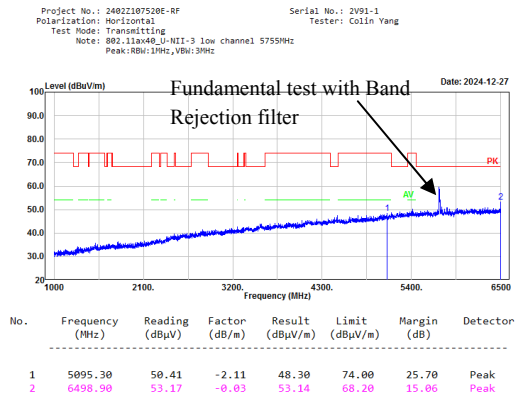
802.11ax20 mode, High Channel, Horizontal



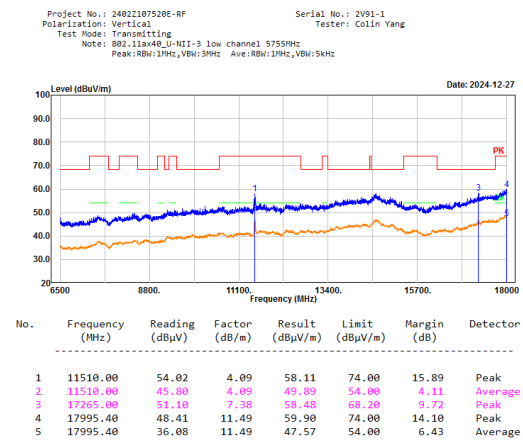
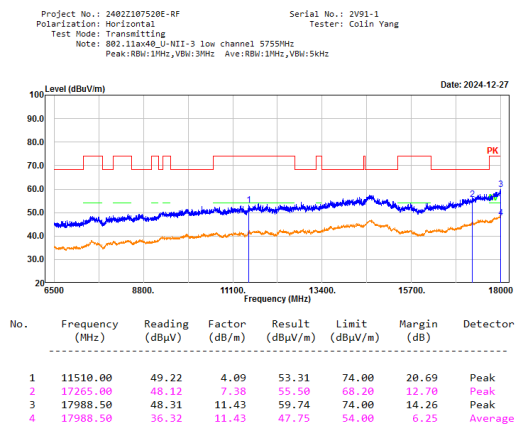
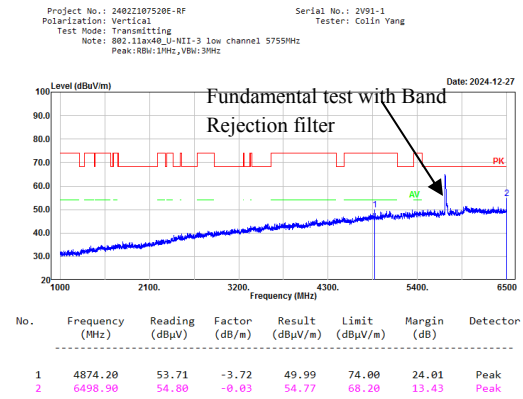
802.11ax20 mode, High Channel, Vertical



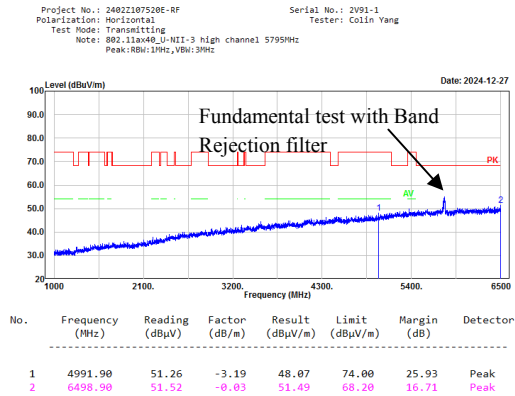
802.11ax40 mode, Low Channel, Horizontal



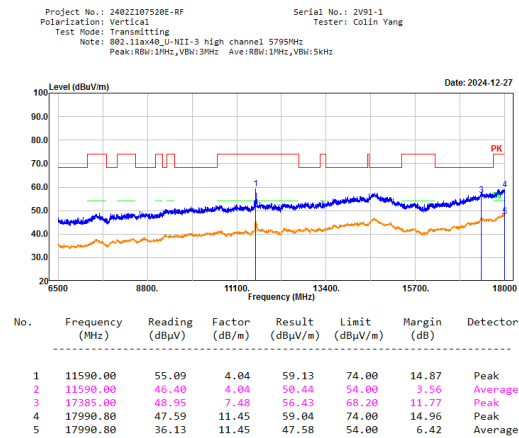
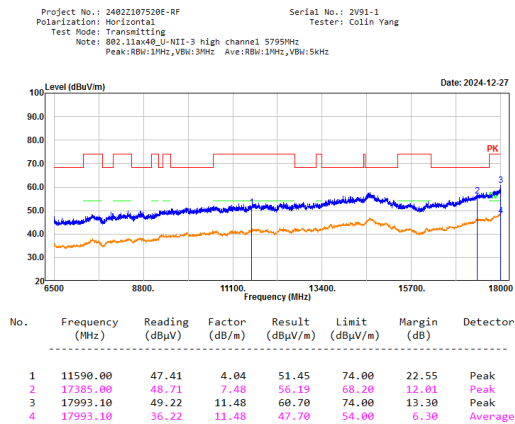
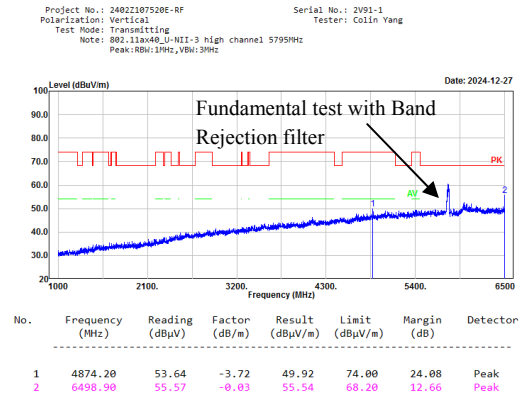
802.11ax40 mode, Low Channel, Vertical



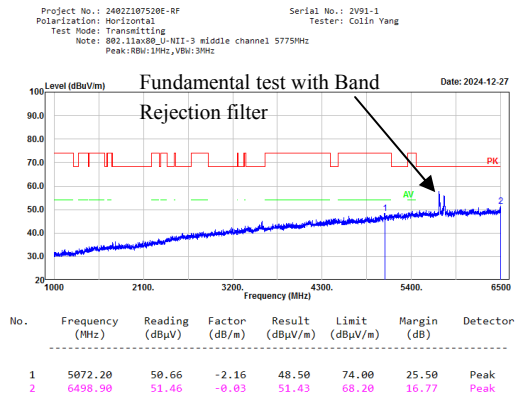
802.11ax40 mode, High Channel, Horizontal



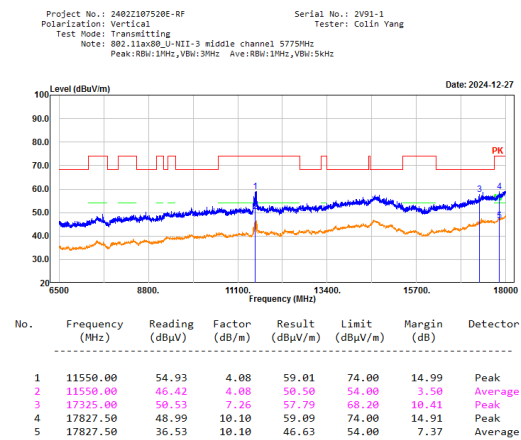
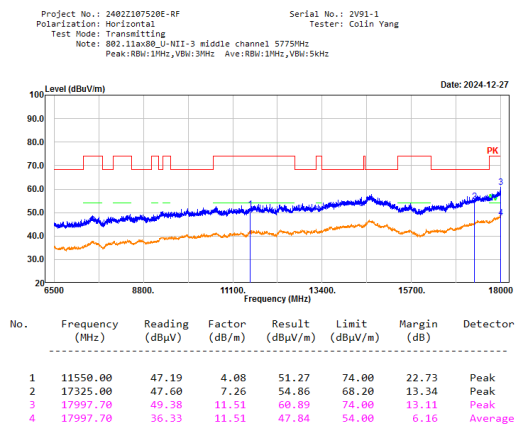
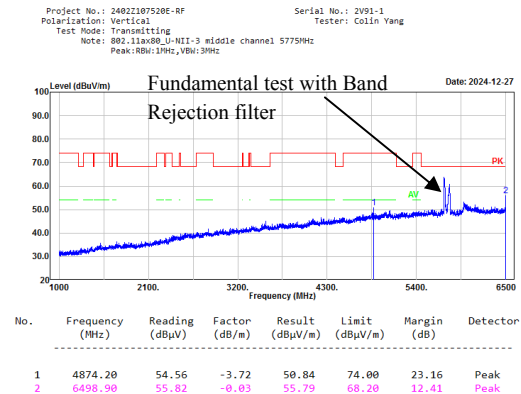
802.11ax mode, High Channel, Vertical



802.11ax80 mode, Middle Channel, Horizontal



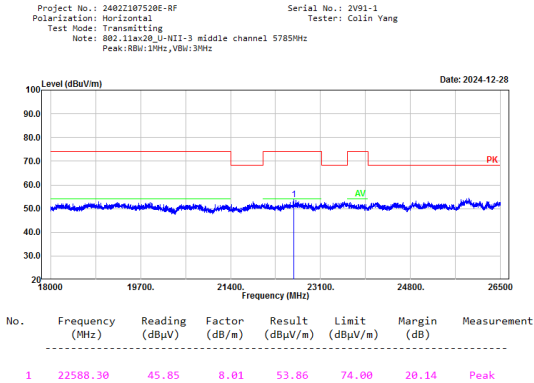
802.11ax80 mode, Middle Channel, Vertical



18-40MHz:

No Emission was detected in the range 18-40GHz, test was performed on the mode and channel which with the maximum power.

MIMO mode(Chain 0+ Chain 1) was tested:

802.11ax20 mode, 5785MHz, Horizontal**802.11ax20 mode, 5785MHz, Vertical**