



TEST REPORT

Applicant: Fujian LANDI Commercial Equipment Co.,Ltd.

FCC: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, China

Address: IC: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, P.R. 350003 China

Product Name: POS Terminal

FCC ID: 2AG6N-C20SE

IC: 23725-C20SE

HVIN: C20SES1, C20SED1

47 CFR Part 15, Subpart E(15.407)

RSS-247 Issue 3, August 2023

Standard(s): RSS-Gen, Issue 5, February 2021 Amendment 2
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

Report Number: XMDN240206-08078E-RF-00EA1

Report Date: 2025/4/25

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

Reviewed By: Pedro Yun

Title: Project Engineer

Approved By: Gavin Xu

Title: RF Supervisor

Bay Area Compliance Laboratories Corp. (Dongguan)
No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888

Fax: +86-769-86858891

www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	XMDN240206-08078E-RF-00E	Original Report	2024/5/15
2.0	XMDN240206-08078E-RF-00EA1	Class II Permissive Change Report	2025/4/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	POS Terminal
EUT Model:	C20SE
Operation Frequency:	5150-5250 MHz: 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) 5470-5725MHz: 5500-5720 MHz (802.11a/n ht20/ac vht20/ax he20) 5510-5710 MHz(802.11n ht40/ac vht40/ax he40) 5530-5690 MHz(802.11ac vht80/ax he80) 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 Output Power (Conducted):	14.52 dBm in 5150-5250 MHz Band 14.85 dBm in 5250-5350 MHz Band 14.47 dBm in 5470-5725 MHz Band 14.42 dBm in 5725-5850 MHz Band
Maximum Average Output Power (EIRP):	18.71 dBm in 5150-5250 MHz Band 19.04 dBm in 5250-5350 MHz Band 20.18 dBm in 5470-5725 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:	19Vdc from adapter
Serial Number:	RF Conducted Test: 2VU3-8(Configuration1#) For Radiated spurious emission below 1GHz test and AC line conducted Emission tests: 2VU3-3(Configuration1#) 2VU3-5(Configuration2#) For Radiated spurious emission above 1GHz test: 2VU3-3(Configuration1#)
EUT Received Date:	2024/12/11
EUT Received Status:	Good

Note:

5600-5650 MHz was disabled by software in Canada Market.

Test was performed with Configuration 1#~2# except Radiated spurious emission above 1GHz and power spot check only test with configuration 1#.

Configuration Information:

Configuration No.	HVIN	10.1 inch Screen
1#	C20SED1	√
2#	C20SES1	✗

1.2 Accessory Information

Adapter Information:

Adapter No.	Manufacturer	Model	Parameters
1#	Lite-On Technology(Europe)BV	PA-1400-76	Input:100-240Vac, 50/60Hz ,1.2A Output: 19Vdc, 2.1A
2#	Lite-On Electronics (Europe) Ltd.	PA-1650-90	Input:100-240Vac, 50/60Hz ,1.6A Output: 19Vdc, 3.42A
3#(New)	Lite-On Technology Corp.	PA-1650-57	Input:100-240Vac, 50/60Hz ,1.6A Output: 19Vdc, 3.42A

AC Power Cable Information:

Cable No.	Manufacturer
1#	EA Cable Assemblies GmbH
2#(New)	Fund Resources Electric Industry Co. Ltd. Shanghang

1.3 Antenna Information Detail▲

Antenna Manufacturer	Antenna Type	Input impedance (Ohm)	Frequency Range	Antenna Gain
Shanghai Jesoncom Communication Engineering Co., Ltd	FPC	50	5150-5250MHz	4.19 dBi
			5250-5350MHz	4.19 dBi
			5470-5725MHz	5.71 dBi
			5725-5850MHz	5.43 dBi

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) RSS-Gen Clause 8.8	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b) RSS-247 Clause 6.2	Undesirable Emission& Restricted Bands	Compliant
RSS-247 Clause 6.2.1.2	26dB attenuated below the channel power	Compliant*
FCC§15.407(a) (e) RSS-247 Clause 6.2 RSS-Gen Clause 6.7	Emission Bandwidth	Compliant*
FCC§15.407(a) RSS-247 Clause 6.2	Maximum Conducted Output Power	Reporting
FCC§15.407 (a) RSS-247 Clause 6.2	Power Spectral Density	Compliant*
FCC§15.407 (h) RSS-247 Clause 6.3	Dynamic frequency selection	Compliant*
§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
RSS-247 Clause 6.4	Additional requirements	Compliant*

Purpose:

This is **Class II permissive change** application based on the original device, model: C20SE, FCC ID: 2AG6N-C20SE, IC: 23725-C20SE, HVIN: C20SES, C20SED. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following:

1. Add one Adapter (model: PA-1650-57) for single and dual screens.
2. Change the WIFI/Bluetooth antenna.
3. Change MIC position.
4. Change the layout and routing of S&J board. The S board is only available with dual screens, and the J board is available with single and dual screens
5. Change to dual 5W speakers.
6. Change the version to V110 and the USB signal of C board.
7. Change the HVIN (HVIN:C20SED1,HVIN:C20SES1).
8. Change the internal circuit of the 15.6 inch LCD.

Per Spot check with RF output power, the RF parameters are identical with the original device. Therefore, AC line conducted emissions and Radiated Spurious Emissions was tested based on the change.

The other items please refer to the original report, report No.: XMDN240206-08078E-RF-00E, and XMDN240206-08078E-RF-00F issued by Bay Area Compliance Laboratories Corp.(Dongguan).

Note 1: For AC line conducted emissions and Radiated Spurious Emissions 9kHz~ 1GHz and 18-40GHz, the maximum output power mode and channel was tested.

Note 2: Per BLE report, Powered by Adapter 3# was the worst, so only performed it.

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		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	56	5280	104	5520	153	5765
44	5220	60	5300	108	5540	157	5785
48	5240	64	5320	112	5560	161	5805
/	/	/	/	116	5580	165	5825
/	/	/	/	120**	5600	/	/
/	/	/	/	124**	5620	/	/
/	/	/	/	128**	5640	/	/
/	/	/	/	132	5660	/	/
/	/	/	/	136	5680	/	/
/	/	/	/	140	5700	/	/
/	/	/	/	144*	5720	/	/

For 802.11n ht40/ac vht40/ax he40:

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
/	/	/	/	118**	5590	/	/
/	/	/	/	126**	5630	/	/
/	/	/	/	134	5670	/	/
/	/	/	/	142*	5710	/	/

For 802.11ac vht80/ax he80:

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
/	/	/	/	122**	5610	/	/
/	/	/	/	138*	5690	/	/

Note:

The above frequencies in bold were performed the test.

*:Additional channels cross the band 5470-5725MHz and 5725-5850 MHz, Conducted output power/ Power Spectral Density/bandwidth test with the additional channel to compliance with stricter limit of the two bands(5470-5725MHz more stricter).

**: Those channels in 5600-5650 MHz are disabled by software in Canada Market.

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:		cmd					
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:							
5150-5250 MHz Band:							
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting			
802.11a	Lowest	5180	6Mbps	20			
	Middle	5200	6Mbps	20			
	Highest	5240	6Mbps	20			
802.11n ht20	Lowest	5180	MCS0	20			
	Middle	5200	MCS0	20			
	Highest	5240	MCS0	20			
802.11n ht40	Lowest	5190	MCS0	19			
	Highest	5230	MCS0	19			
802.11ac vht80	Middle	5210	MCS0	18			
802.11ax he20	Lowest	5180	MCS0	20			
	Middle	5200	MCS0	20			
	Highest	5240	MCS0	20			
802.11ax he40	Lowest	5190	MCS0	19			
	Highest	5230	MCS0	19			
802.11ax he80	Middle	5210	MCS0	19			
5250-5350 MHz Band:							
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting			
802.11a	Lowest	5260	6Mbps	20			
	Middle	5280	6Mbps	20			
	Highest	5320	6Mbps	20			
802.11n ht20	Lowest	5260	MCS0	20			
	Middle	5280	MCS0	20			
	Highest	5320	MCS0	20			
802.11n ht40	Lowest	5270	MCS0	20			
	Highest	5310	MCS0	20			
802.11ac vht80	Middle	5290	MCS0	20			
802.11ax he20	Lowest	5260	MCS0	20			
	Middle	5280	MCS0	20			
	Highest	5320	MCS0	20			
802.11ax he40	Lowest	5270	MCS0	20			
	Highest	5310	MCS0	20			
802.11ax he80	Middle	5290	MCS0	20			

5470-5725 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	16
	Middle	5580	6Mbps	19
	Highest	5700	6Mbps	19
	Cross	5720	6Mbps	19
802.11n ht20	Lowest	5500	MCS0	15
	Middle	5580	MCS0	18
	Highest	5700	MCS0	18
	Cross	5720	MCS0	18
802.11n ht40	Lowest	5510	MCS0	17
	Middle	5550	MCS0	17
	Highest	5670	MCS0	20
	Cross	5710	MCS0	20
802.11ac vht80	Lowest	5530	MCS0	17
	Highest	5610	MCS0	20
	Cross	5690	MCS0	20
802.11ax he20	Lowest	5500	MCS0	15
	Middle	5580	MCS0	18
	Highest	5700	MCS0	18
	Cross	5720	MCS0	18
802.11ax he40	Lowest	5510	MCS0	17
	Middle	5550	MCS0	17
	Highest	5670	MCS0	20
	Cross	5710	MCS0	20
802.11ax he80	Lowest	5530	MCS0	17
	Highest	5610	MCS0	20
	Cross	5690	MCS0	20

5725-5850 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	20
	Middle	5785	6Mbps	20
	Highest	5825	6Mbps	20
802.11n ht20	Lowest	5745	MCS0	20
	Middle	5785	MCS0	20
	Highest	5825	MCS0	20
802.11n ht40	Lowest	5755	MCS0	20
	Highest	5795	MCS0	20
802.11ac vht80	Middle	5775	MCS0	20
802.11ax he20	Lowest	5745	MCS0	20
	Middle	5785	MCS0	20
	Highest	5825	MCS0	20
802.11ax he40	Lowest	5755	MCS0	20
	Highest	5795	MCS0	20
802.11ax he80	Middle	5775	MCS0	20

Note:

- 1.The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80/ax he20/ ax he40/ ax he80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.
- 2.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.
3. For 802.11ax mode, the device not support partial RU mode.

3.3 Support Equipment List and Details

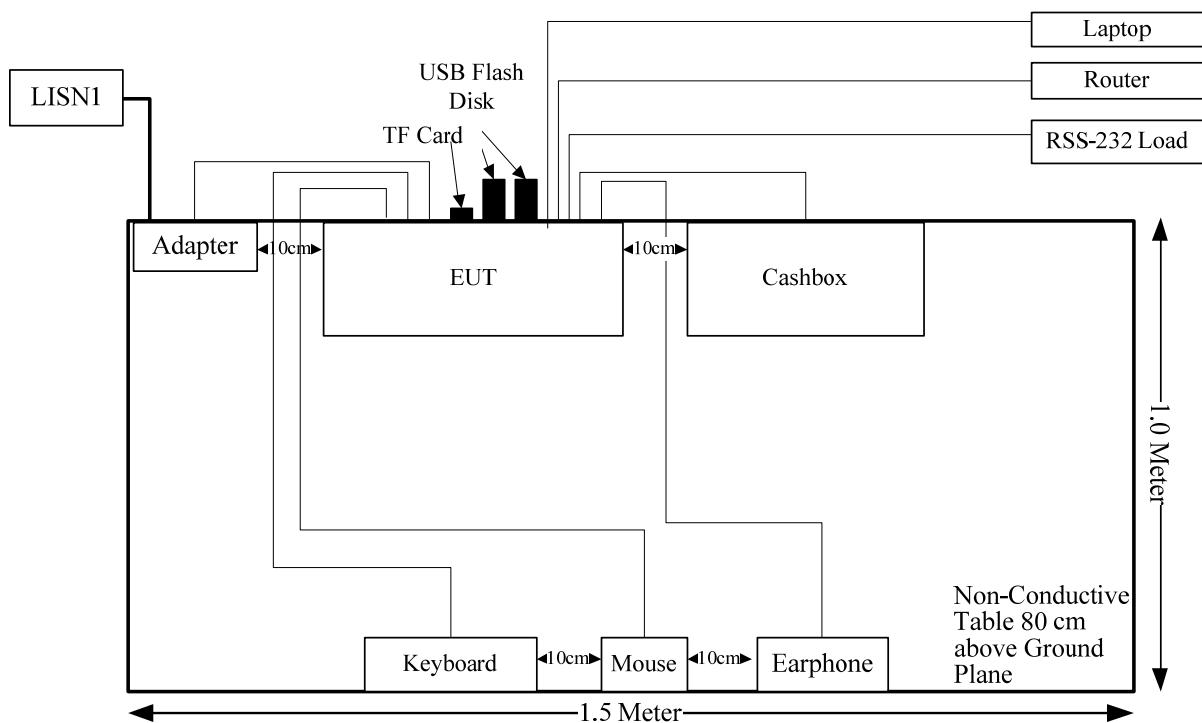
Manufacturer	Description	Model	Serial Number
ZIONCOM	Router	MB-R210-00	EMZBWR21103004
Kingston	USB Flash Disk	32G	EMZBUD21103001
SanDisk	Micro TF Card	UHS-I-16G	9292DVDSV0XZ
Unkonwn	RS232 Load	Unknown	EZF23GF4543
LANDI	Cashbox	Unknown	EZ240214F212
PHILIPS	Keyboard	SPK6234	K234210510742
PHILIPS	Mouse	SPK7214	M214BQ210411113
Keenion	Earphone	KDM-911	EMZBEP21103003B
Lenovo	Laptop	G510	EMZBPC21103006
SANDisk	USB Flash Disk	16G	BL201111386N
Baiyius	U-Disk-32GB	BA32GB	TJX21062632GB

3.4 Support Cable List and Details

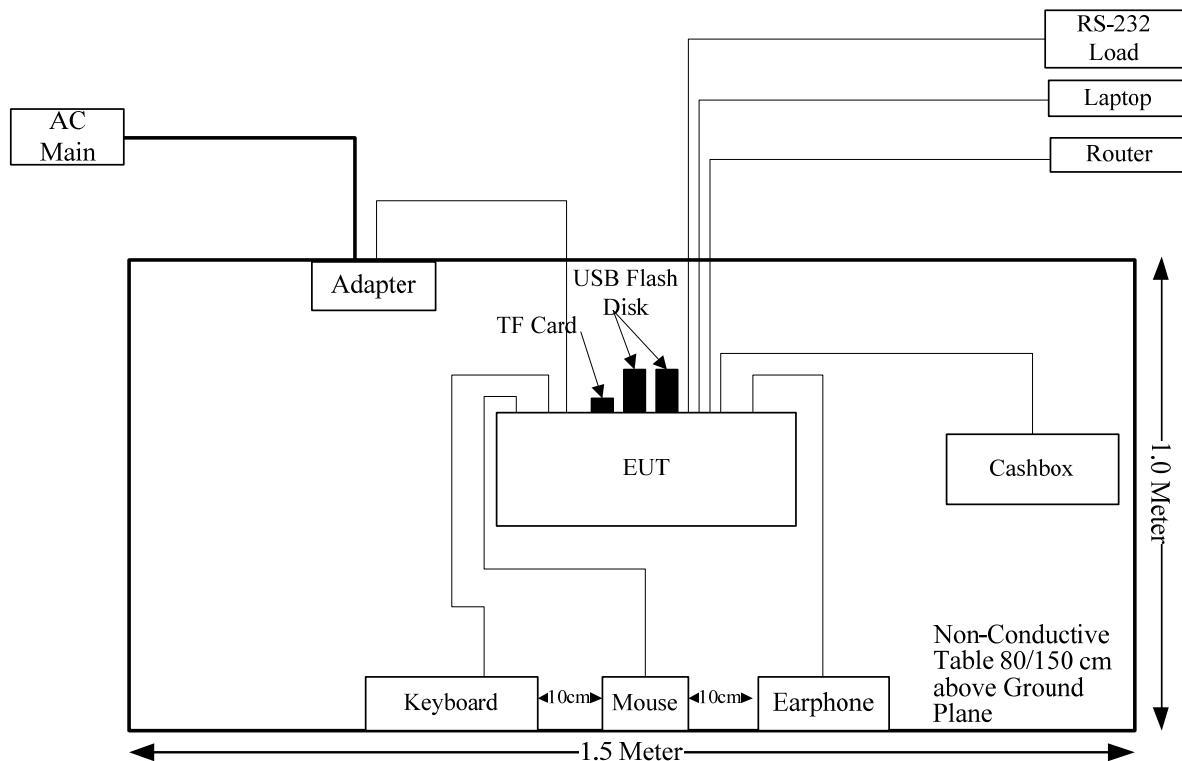
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	0.8	Adapter	EUT
RJ45 Cable	No	No	10	Router	EUT
RS232 Cable	No	No	3	RS232 Load	EUT
Cashbox Cable	No	No	1.2	Cashbox	EUT
Keyboard Cable	No	No	1.5	Keyboard	EUT
Mouse Cable	No	No	1.5	Mouse	EUT
Earphone Cable	No	No	1.2	Earphone	EUT
USB Cable	No	No	1.2	Laptop	EUT

3.5 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



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, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT. For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

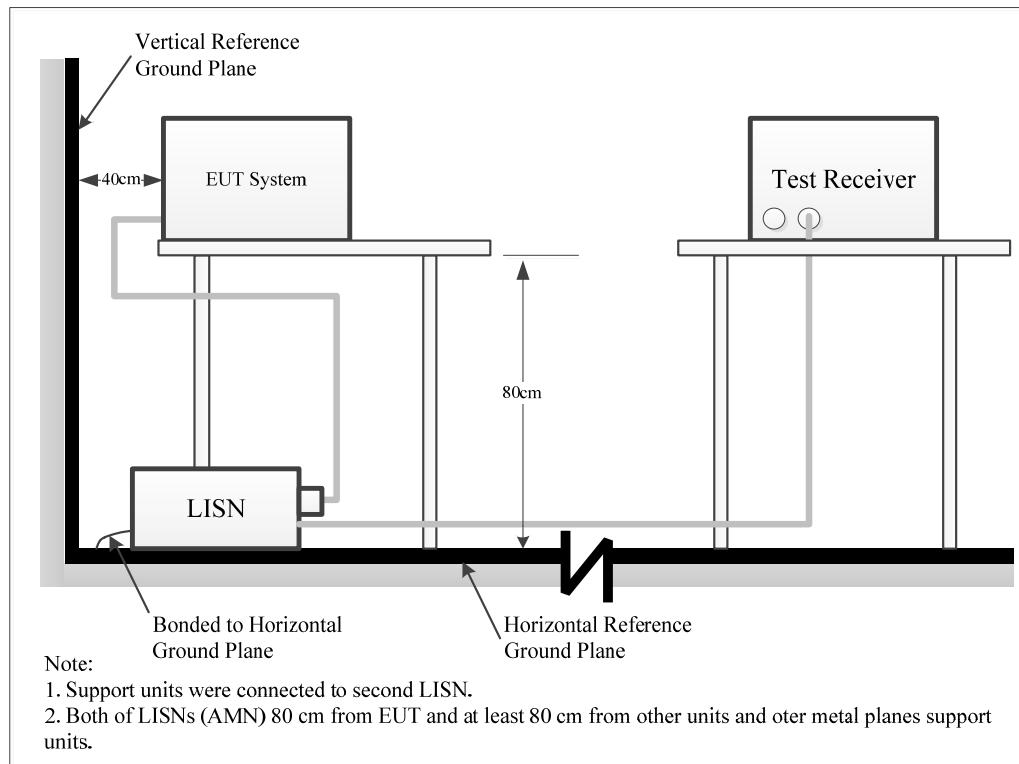
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

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, RSS-Gen 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.

Frequency band 5150-5250 MHz:

RSS-247 Clause 6.2.1.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency band 5250-5350 MHz:

RSS-247 Clause 6.2.2.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency bands 5470-5600 MHz and 5650-5725 MHz:

RSS-247 Clause 6.2.3.2

Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Frequency band 5725-5850 MHz

RSS-247 Clause 6.2.4.3

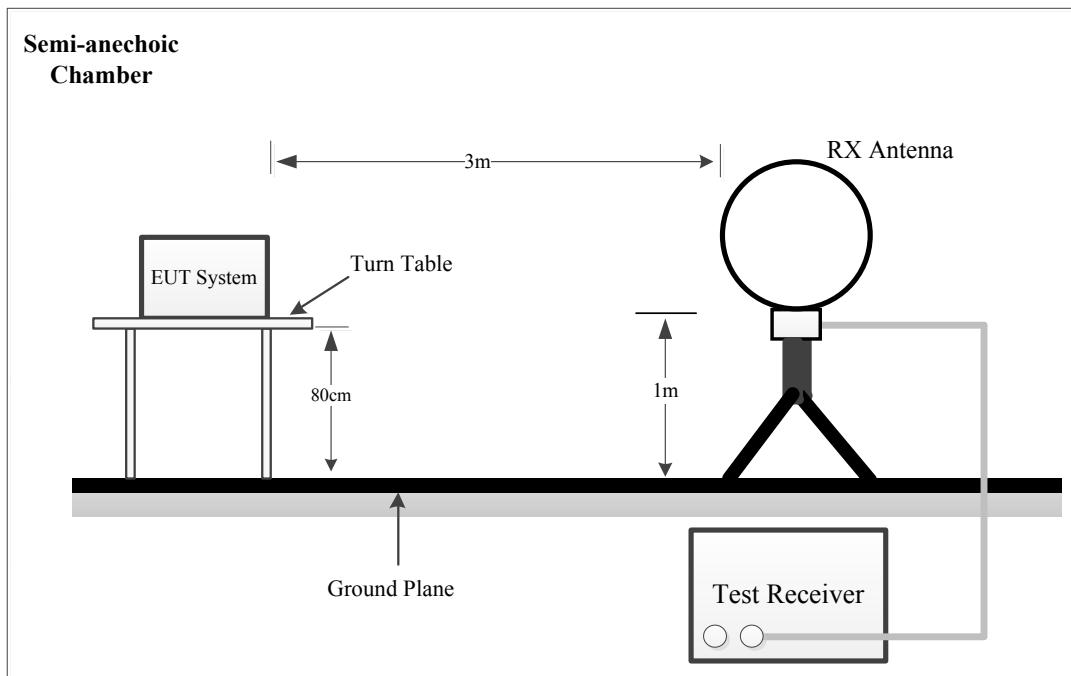
Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020. Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

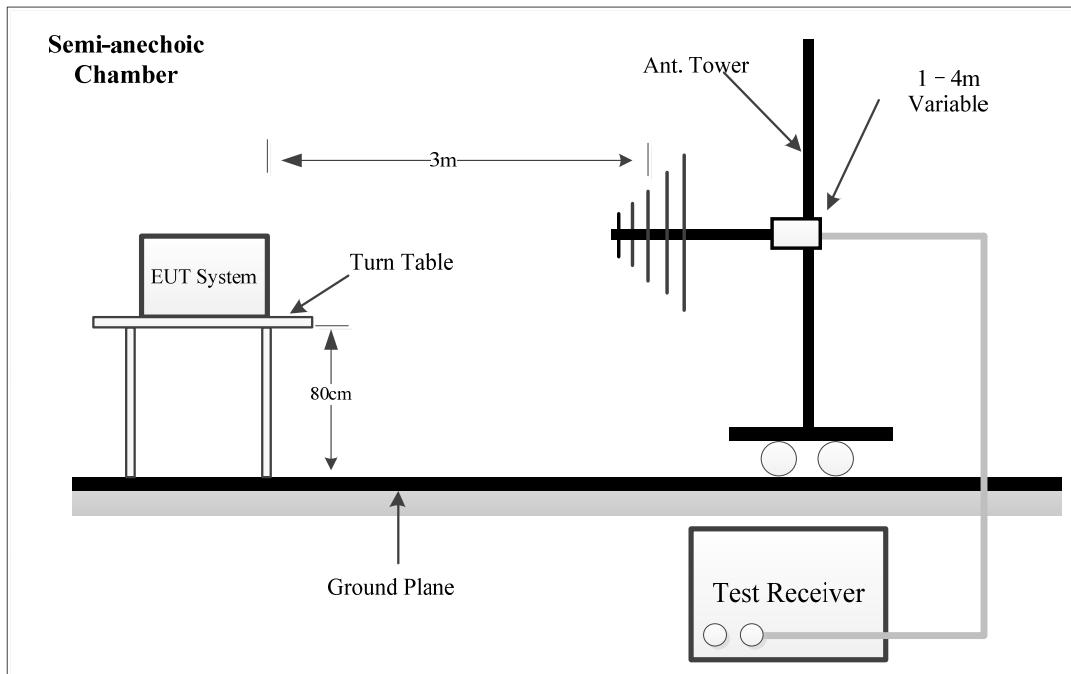
- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

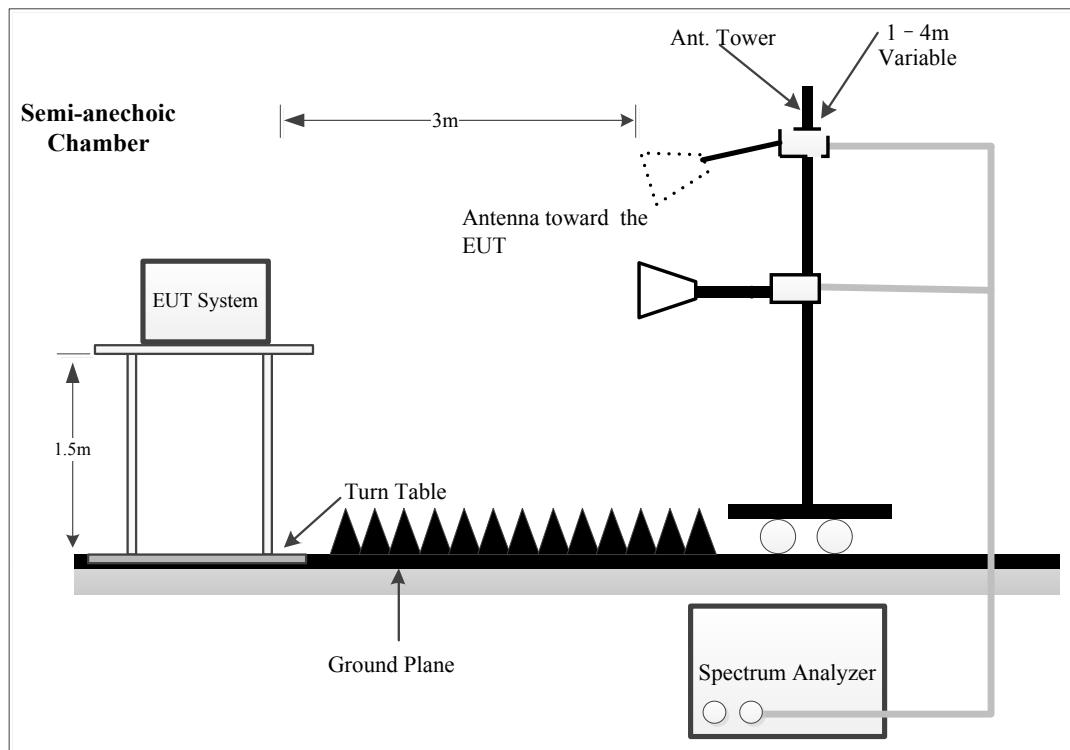
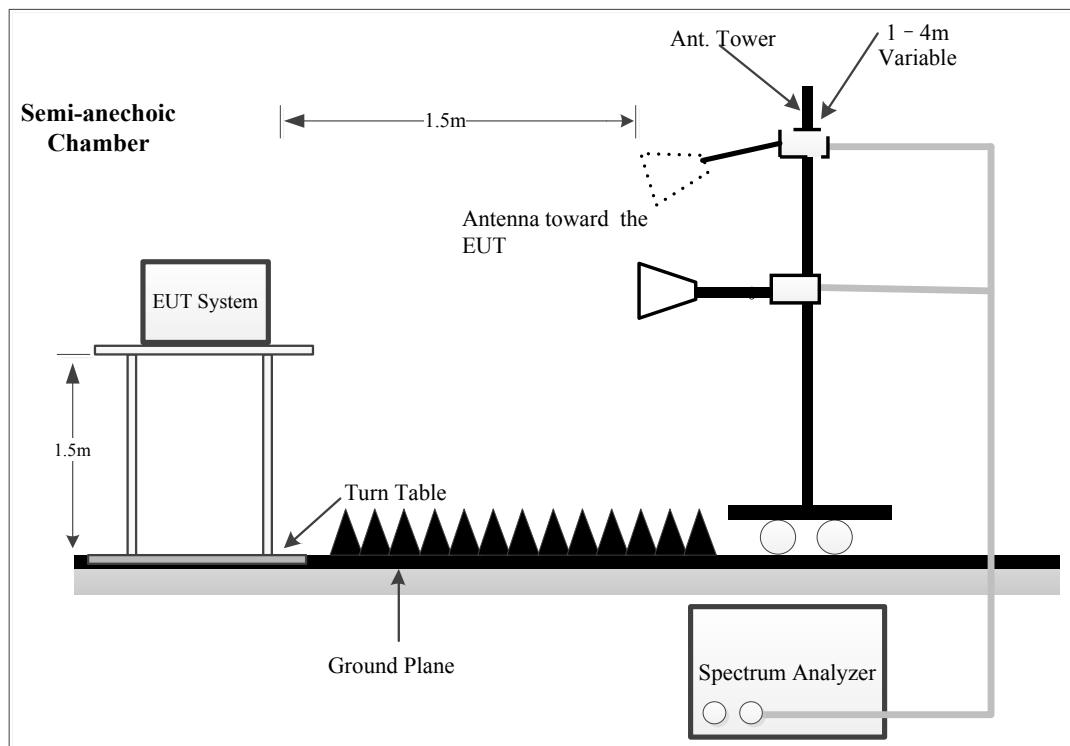
4.2.2 EUT Setup

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, RSS-247, RSS-Gen 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	200Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	9 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:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3 MHz
Ave.	Peak	>98%	1MHz	10 Hz
		<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value is under the average limit, then it is unnecessary to perform an QP measurement.

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.

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

For Radiated Bandedge 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

For the spurious emission below 30MHz, the limit was convert from dB μ A/m to dB μ V/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 Maximum Conducted Output Power

4.3.1 Applicable Standard

FCC §15.407(a) (1)(iv)

For client devices in the 5.15 – 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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) (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.

RSS-247 Clause 6.2.1.1

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less stringent. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RSS-247 Clause 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.3.1

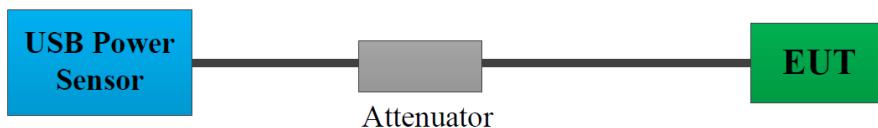
The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247 Clause 6.2.4.2

The maximum conducted output power shall not exceed 1 W. The output 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 output 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 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.

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 cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer ▲.

4.3.3 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.

4.3.4 Test Result

Please refer to section 5.3.

4.4 Antenna Requirement

4.4.1 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.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below). When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

4.4.2 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:	2VU3-3, 2VU3-5	Test Date:	2025/1/9
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.5
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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

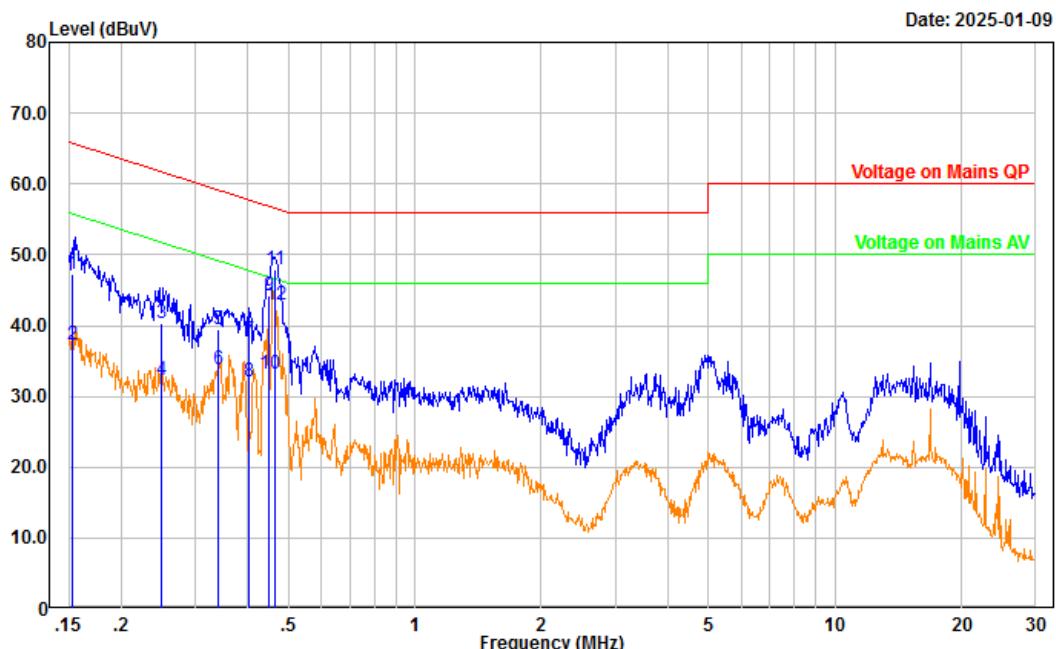
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note: The maximum output power mode: 802.11a 5260MHz was tested.

Configuration 1#:

Project No.: XMDN240206-08078E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

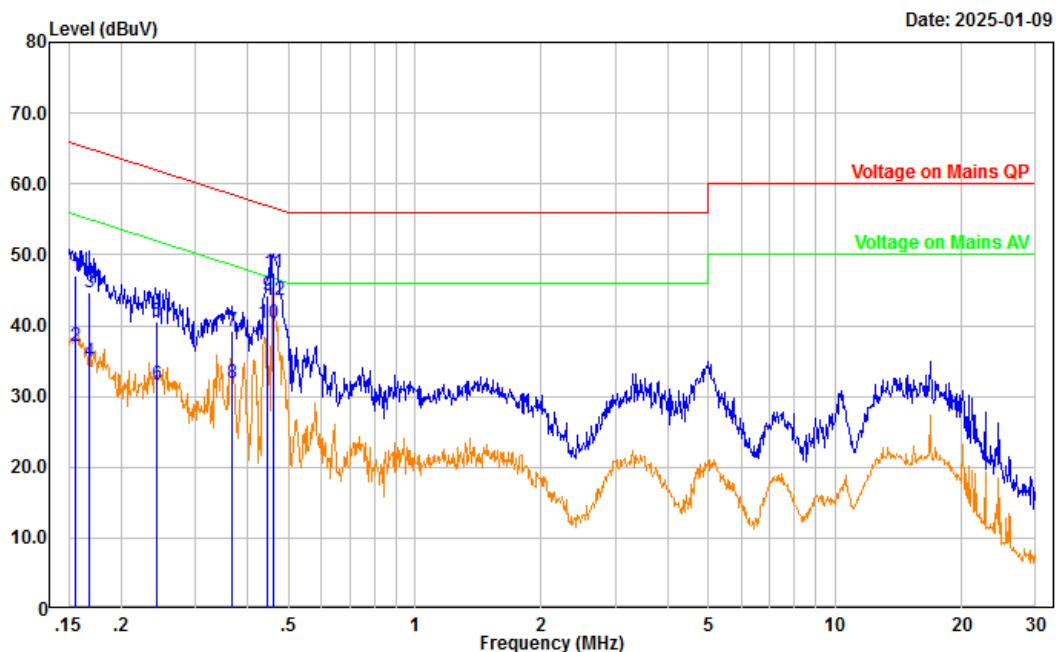
Serial No.: 2VU3-3
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.153	36.54	10.76	47.30	65.85	18.55	QP
2	0.153	26.46	10.76	37.22	55.85	18.63	Average
3	0.249	29.56	10.84	40.40	61.80	21.40	QP
4	0.249	21.51	10.84	32.35	51.80	19.45	Average
5	0.341	28.58	10.83	39.41	59.18	19.77	QP
6	0.341	22.89	10.83	33.72	49.18	15.46	Average
7	0.403	27.01	10.84	37.85	57.79	19.94	QP
8	0.403	21.36	10.84	32.20	47.79	15.59	Average
9	0.449	33.30	10.84	44.14	56.89	12.75	QP
10	0.449	22.38	10.84	33.22	46.89	13.67	Average
11	0.465	37.17	10.84	48.01	56.60	8.59	QP
12	0.465	32.10	10.84	42.94	46.60	3.66	Average

Project No.: XMDN240206-08078E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2VU3-3
 Tester: Yukin Qiu

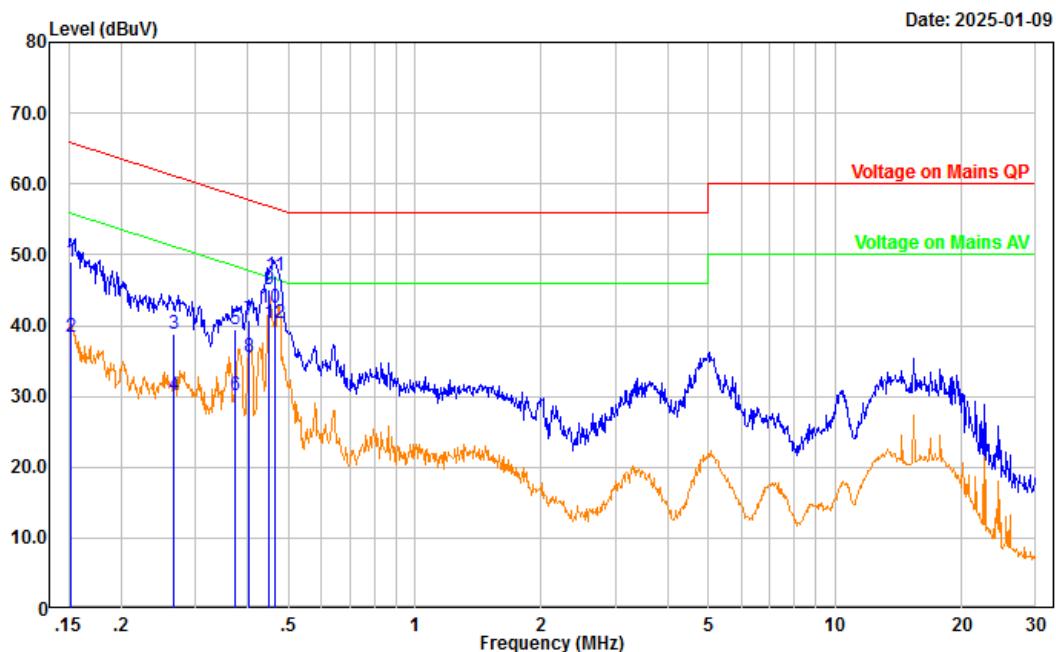


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.156	36.18	10.85	47.03	65.70	18.67	QP
2	0.156	26.25	10.85	37.10	55.70	18.60	Average
3	0.168	33.88	10.85	44.73	65.05	20.32	QP
4	0.168	24.08	10.85	34.93	55.05	20.12	Average
5	0.243	29.65	10.83	40.48	61.99	21.51	QP
6	0.243	20.80	10.83	31.63	51.99	20.36	Average
7	0.367	28.49	10.77	39.26	58.57	19.31	QP
8	0.367	21.01	10.77	31.78	48.57	16.79	Average
9	0.444	33.51	10.76	44.27	56.98	12.71	QP
10	0.444	29.67	10.76	40.43	46.98	6.55	Average
11	0.460	36.81	10.75	47.56	56.69	9.13	QP
12	0.460	32.78	10.75	43.53	46.69	3.16	Average

Configuration 2#:

Project No.: XMDN240206-08078E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

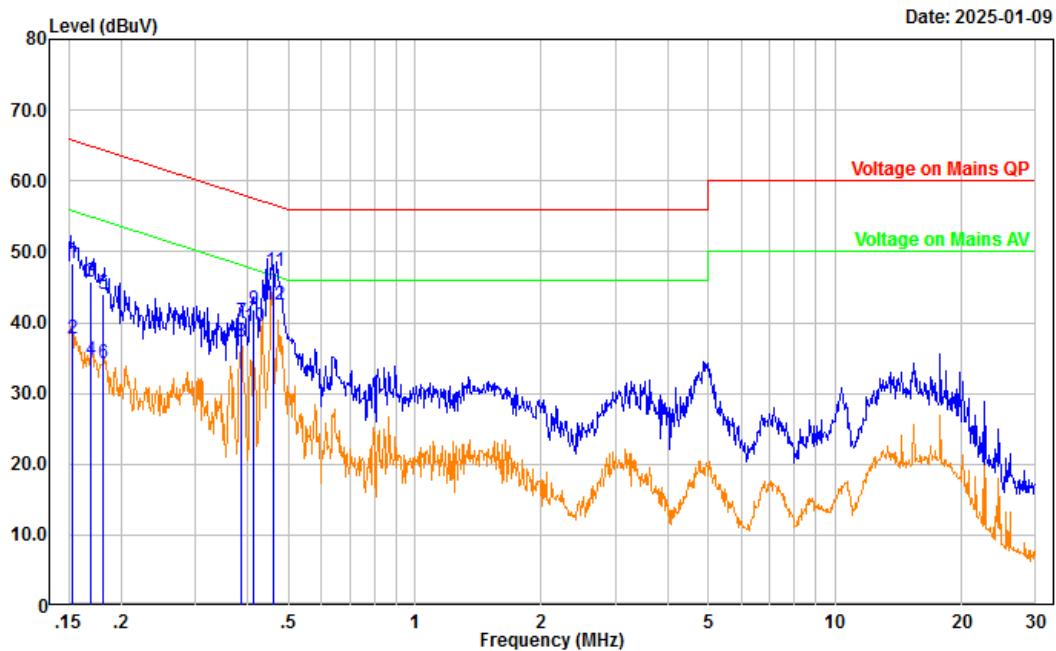
Serial No.: 2VU3-5
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.152	38.31	10.75	49.06	65.89	16.83	QP
2	0.152	27.53	10.75	38.28	55.89	17.61	Average
3	0.267	27.99	10.83	38.82	61.22	22.40	QP
4	0.267	19.39	10.83	30.22	51.22	21.00	Average
5	0.375	28.72	10.83	39.55	58.40	18.85	QP
6	0.375	19.35	10.83	30.18	48.40	18.22	Average
7	0.403	29.91	10.84	40.75	57.79	17.04	QP
8	0.403	24.70	10.84	35.54	47.79	12.25	Average
9	0.449	34.19	10.84	45.03	56.90	11.87	QP
10	0.449	31.61	10.84	42.45	46.90	4.45	Average
11	0.463	36.16	10.84	47.00	56.64	9.64	QP
12	0.463	29.49	10.84	40.33	46.64	6.31	Average

Project No.: XMDN240206-08078E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2VU3-5
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.153	37.58	10.85	48.43	65.83	17.40	QP
2	0.153	26.83	10.85	37.68	55.83	18.15	Average
3	0.169	34.88	10.85	45.73	64.99	19.26	QP
4	0.169	23.91	10.85	34.76	54.99	20.23	Average
5	0.181	33.21	10.85	44.06	64.44	20.38	QP
6	0.181	23.48	10.85	34.33	54.44	20.11	Average
7	0.387	29.30	10.78	40.08	58.14	18.06	QP
8	0.387	26.47	10.78	37.25	48.14	10.89	Average
9	0.413	31.09	10.77	41.86	57.60	15.74	QP
10	0.413	28.79	10.77	39.56	47.60	8.04	Average
11	0.462	36.43	10.75	47.18	56.66	9.48	QP
12	0.462	31.67	10.75	42.42	46.66	4.24	Average

5.2 Radiation Spurious Emissions

1) 9kHz-1GHz

Serial Number:	2VU3-3,2VU3-5	Test Date:	2025/1/8
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Leesin Xiang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	21.8	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101.4

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	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	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:

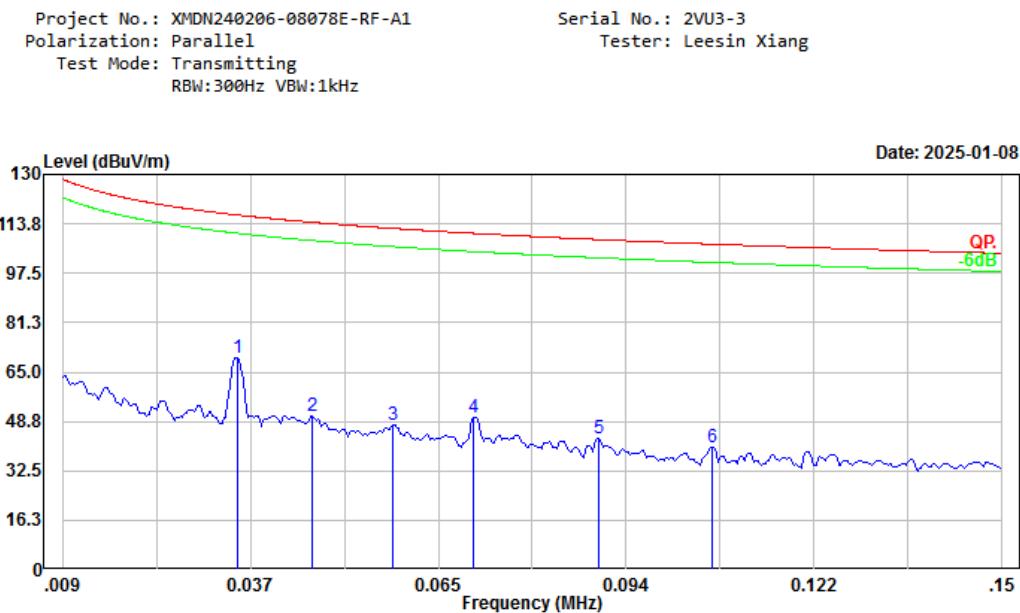
Please refer to the below table and plots.

Note: The maximum output power mode: 802.11a 5260MHz was tested.

9kHz~30MHz

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

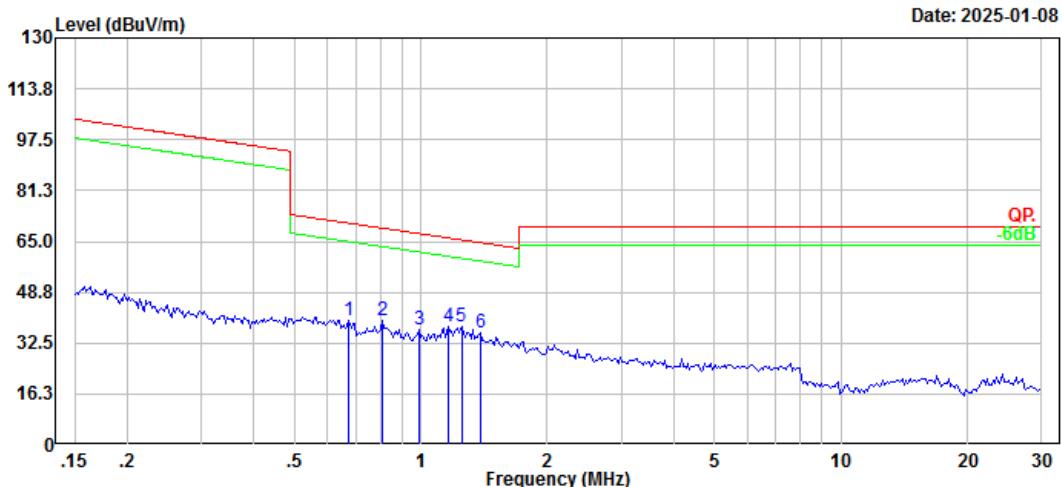
Configuration 1#:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.035	23.13	46.62	69.75	116.67	46.92	Peak
2	0.047	5.93	44.64	50.57	114.25	63.68	Peak
3	0.059	5.03	42.57	47.60	112.24	64.64	Peak
4	0.071	9.82	40.46	50.28	110.61	60.33	Peak
5	0.089	5.82	37.25	43.07	108.58	65.51	Peak
6	0.107	5.09	35.04	40.13	107.05	66.92	Peak

Project No.: XMDN240206-08078E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
RBW:10kHz VBW:30kHz

Serial No.: 2VU3-3
Tester: Leesin Xiang

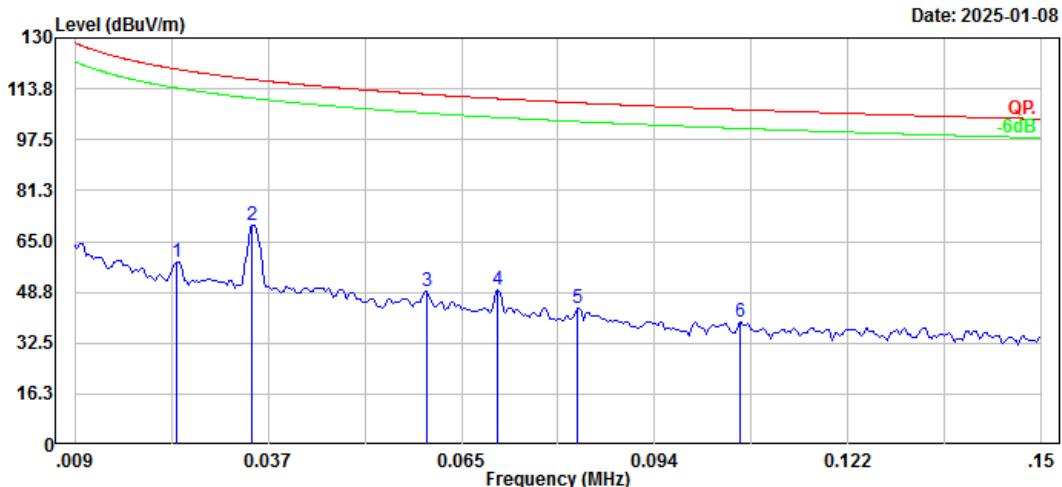


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.675	18.05	21.71	39.76	70.95	31.19	Peak
2	0.809	19.41	20.38	39.79	69.36	29.57	Peak
3	0.989	20.02	16.78	36.80	67.57	30.77	Peak
4	1.160	21.70	15.85	37.55	66.16	28.61	Peak
5	1.249	22.47	15.45	37.92	65.50	27.58	Peak
6	1.388	21.16	14.83	35.99	64.56	28.57	Peak

Configuration 2#:

Project No.: XMDN240206-08078E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
RBW:300Hz VBW:1kHz

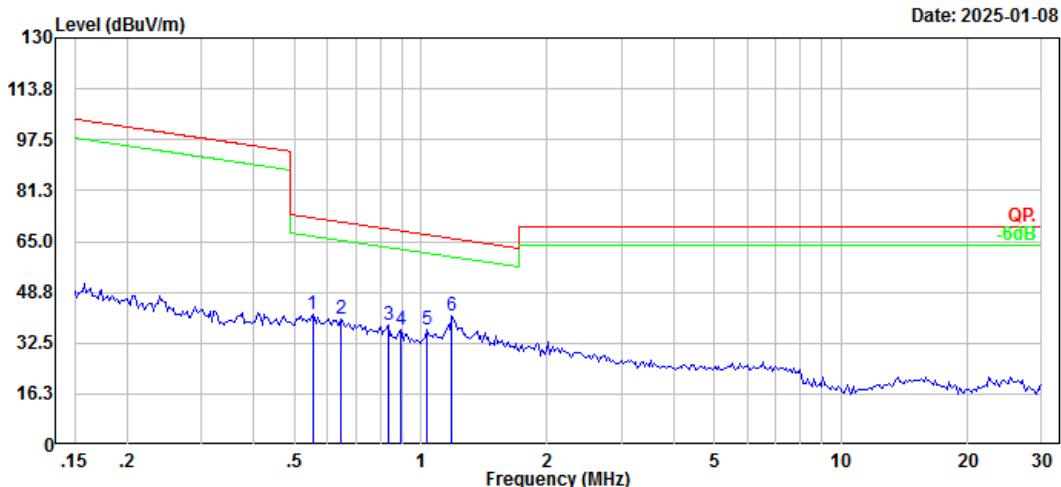
Serial No.: 2VU3-5
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.024	9.29	49.05	58.34	120.02	61.68	Peak
2	0.035	23.71	46.67	70.38	116.74	46.36	Peak
3	0.060	6.55	42.28	48.83	111.99	63.16	Peak
4	0.071	8.85	40.46	49.31	110.61	61.30	Peak
5	0.082	5.02	38.51	43.53	109.29	65.76	Peak
6	0.106	4.02	35.07	39.09	107.10	68.01	Peak

Project No.: XMDN240206-08078E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
RBW:10kHz VBW:30kHz

Serial No.: 2VU3-5
Tester: Leesin Xiang



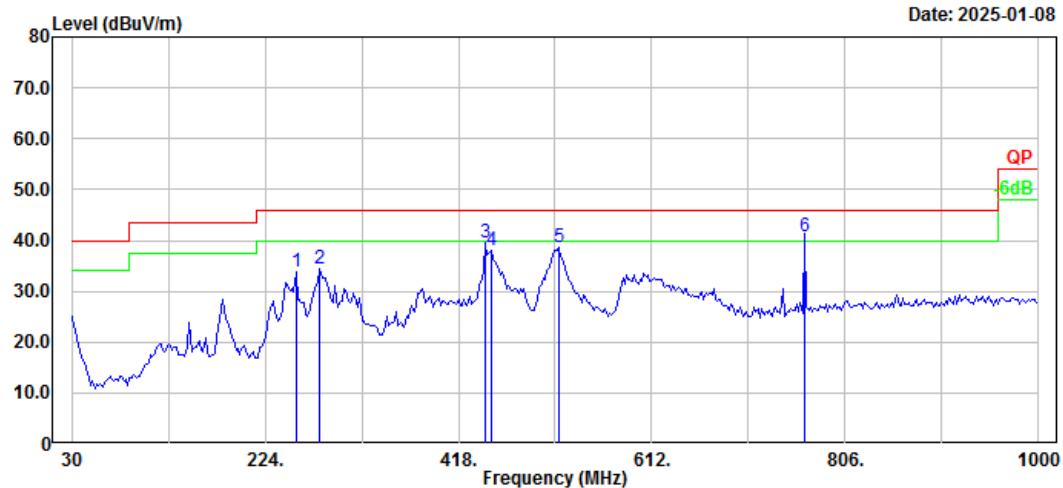
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.552	18.70	22.97	41.67	72.74	31.07	Peak
2	0.647	18.42	22.00	40.42	71.33	30.91	Peak
3	0.835	18.46	19.86	38.32	69.07	30.75	Peak
4	0.899	18.29	18.58	36.87	68.42	31.55	Peak
5	1.032	20.15	16.42	36.57	67.19	30.62	Peak
6	1.184	25.36	15.74	41.10	65.97	24.87	Peak

30MHz-1GHz

Configuration 1#:

Project No.: XMDN240206-08078E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

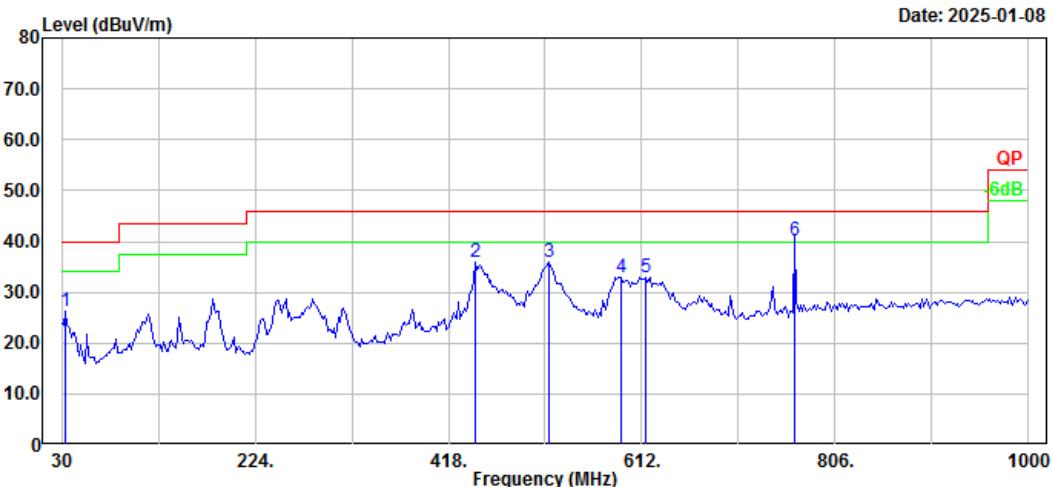
Serial No.: 2VU3-3
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	255.04	44.96	-11.27	33.69	46.00	12.31	Peak
2	278.32	44.22	-9.79	34.43	46.00	11.57	Peak
3	445.16	45.31	-5.65	39.66	46.00	6.34	Peak
4	450.98	43.34	-5.45	37.89	46.00	8.11	Peak
5	518.88	42.66	-3.96	38.70	46.00	7.30	Peak
6	765.26	40.81	-0.08	40.73	46.00	5.27	QP

Project No.: XMDN240206-08078E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

Serial No.: 2VU3-3
Tester: Leesin Xiang

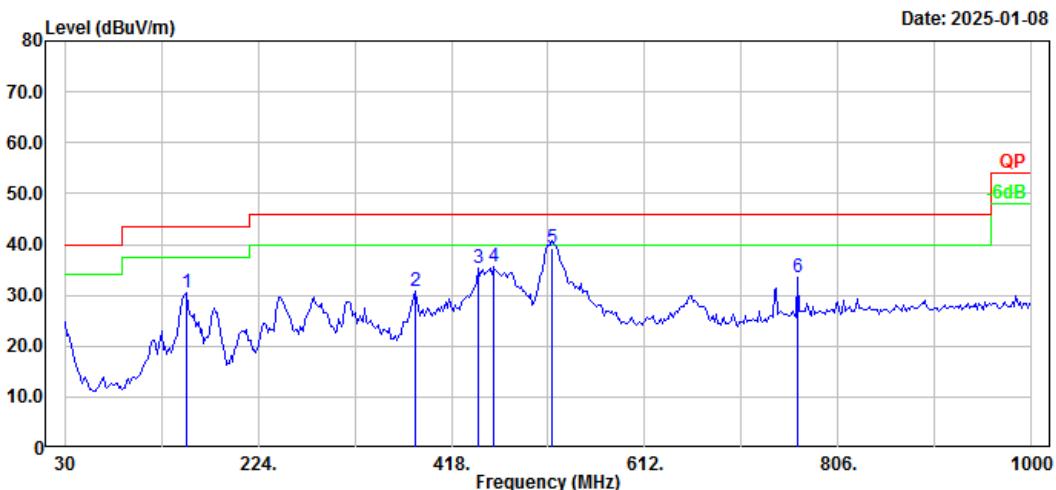


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	33.88	32.89	-6.62	26.27	40.00	13.73	Peak
2	445.16	41.72	-5.65	36.07	46.00	9.93	Peak
3	518.88	39.78	-3.96	35.82	46.00	10.18	Peak
4	590.66	36.04	-3.02	33.02	46.00	12.98	Peak
5	615.88	35.50	-2.59	32.91	46.00	13.09	Peak
6	765.26	40.31	-0.08	40.23	46.00	5.77	QP

Configuration 2#:

Project No.: XMDN240206-08078E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

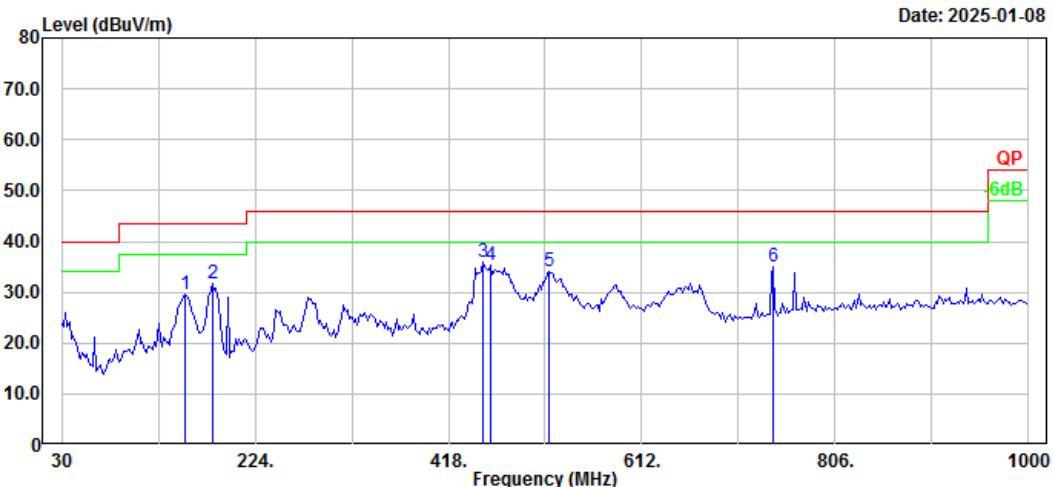
Serial No.: 2VU3-5
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	152.22	41.63	-11.08	30.55	43.50	12.95	Peak
2	381.14	38.50	-7.58	30.92	46.00	15.08	Peak
3	445.16	40.88	-5.65	35.23	46.00	10.77	Peak
4	460.68	40.82	-5.12	35.70	46.00	10.30	Peak
5	518.88	43.10	-3.96	39.14	46.00	6.86	QP
6	765.26	33.62	-0.08	33.54	46.00	12.46	Peak

Project No.: XMDN240206-08078E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

Serial No.: 2VU3-5
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	154.16	40.59	-11.09	29.50	43.50	14.00	Peak
2	181.32	44.10	-12.33	31.77	43.50	11.73	Peak
3	452.92	41.35	-5.38	35.97	46.00	10.03	Peak
4	460.68	40.57	-5.12	35.45	46.00	10.55	Peak
5	518.88	38.07	-3.96	34.11	46.00	11.89	Peak
6	743.92	35.35	-0.43	34.92	46.00	11.08	Peak

2) 1-40GHz:

Serial Number:	2VU3-3	Test Date:	2025/2/8-2025/2/12
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Bill Yang, Leo Xiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	18.9~20.9	Relative Humidity: (%)	33~42	ATM Pressure: (kPa)	101.1~102

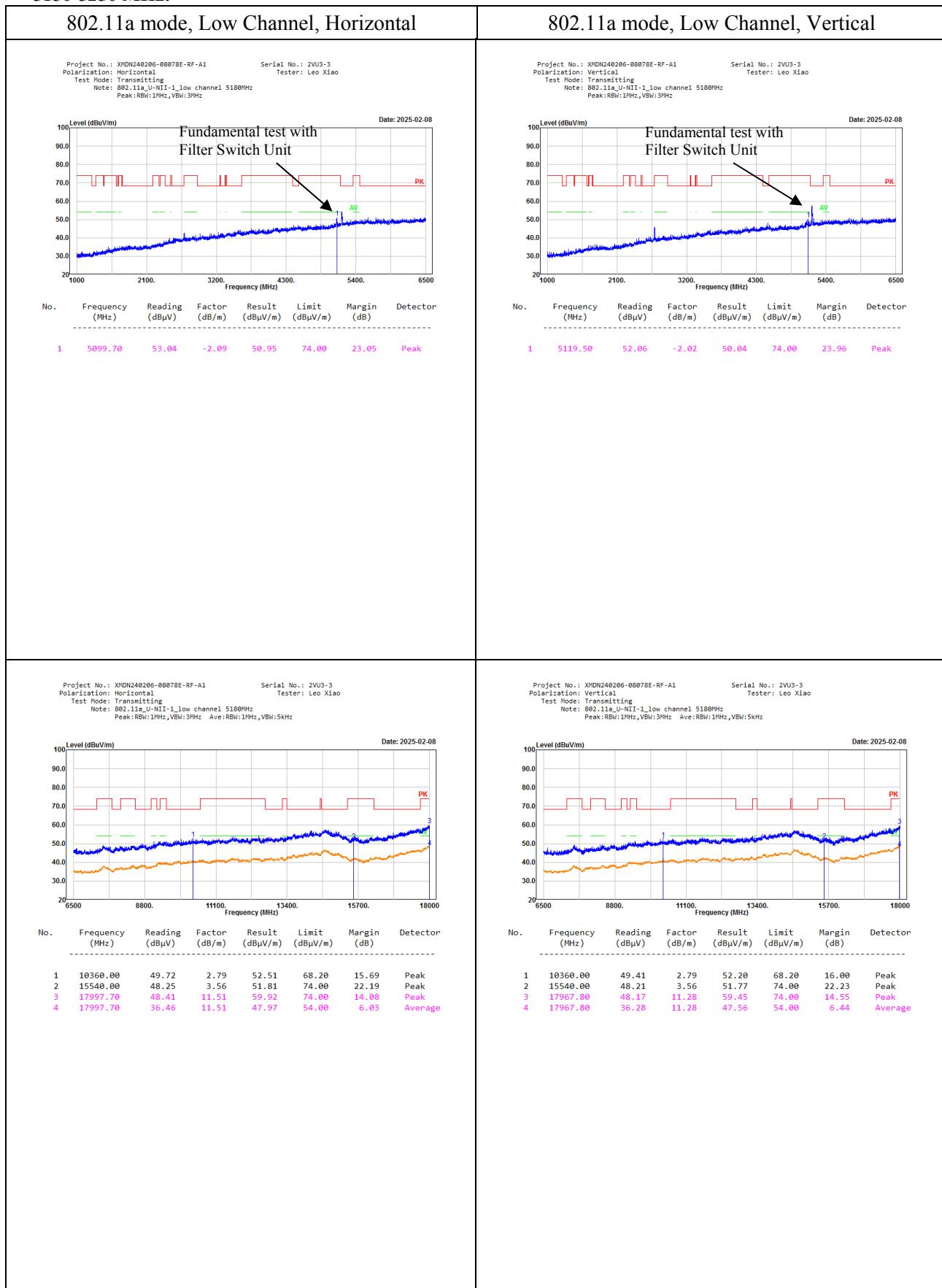
Test Equipment List and Details:

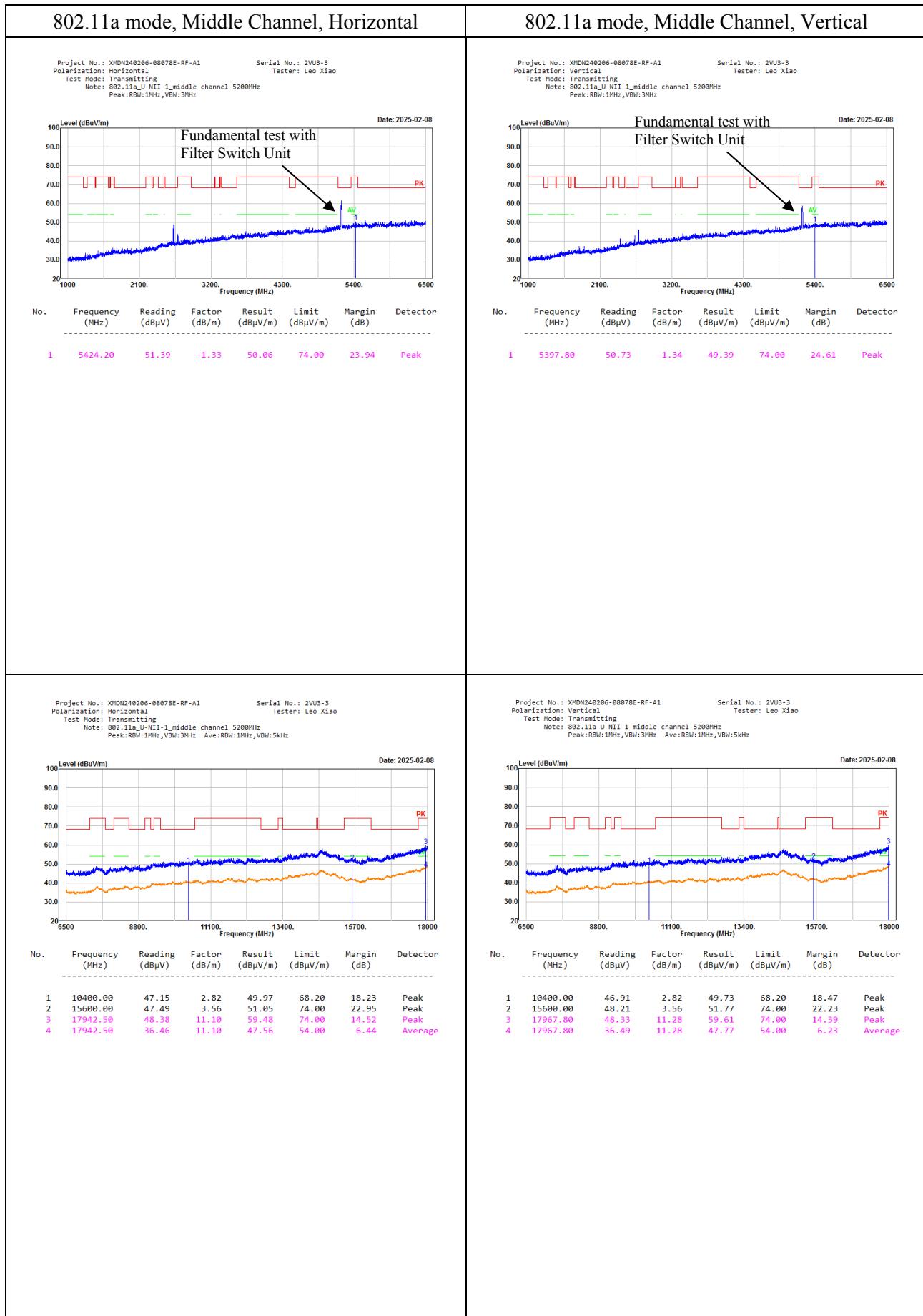
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
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

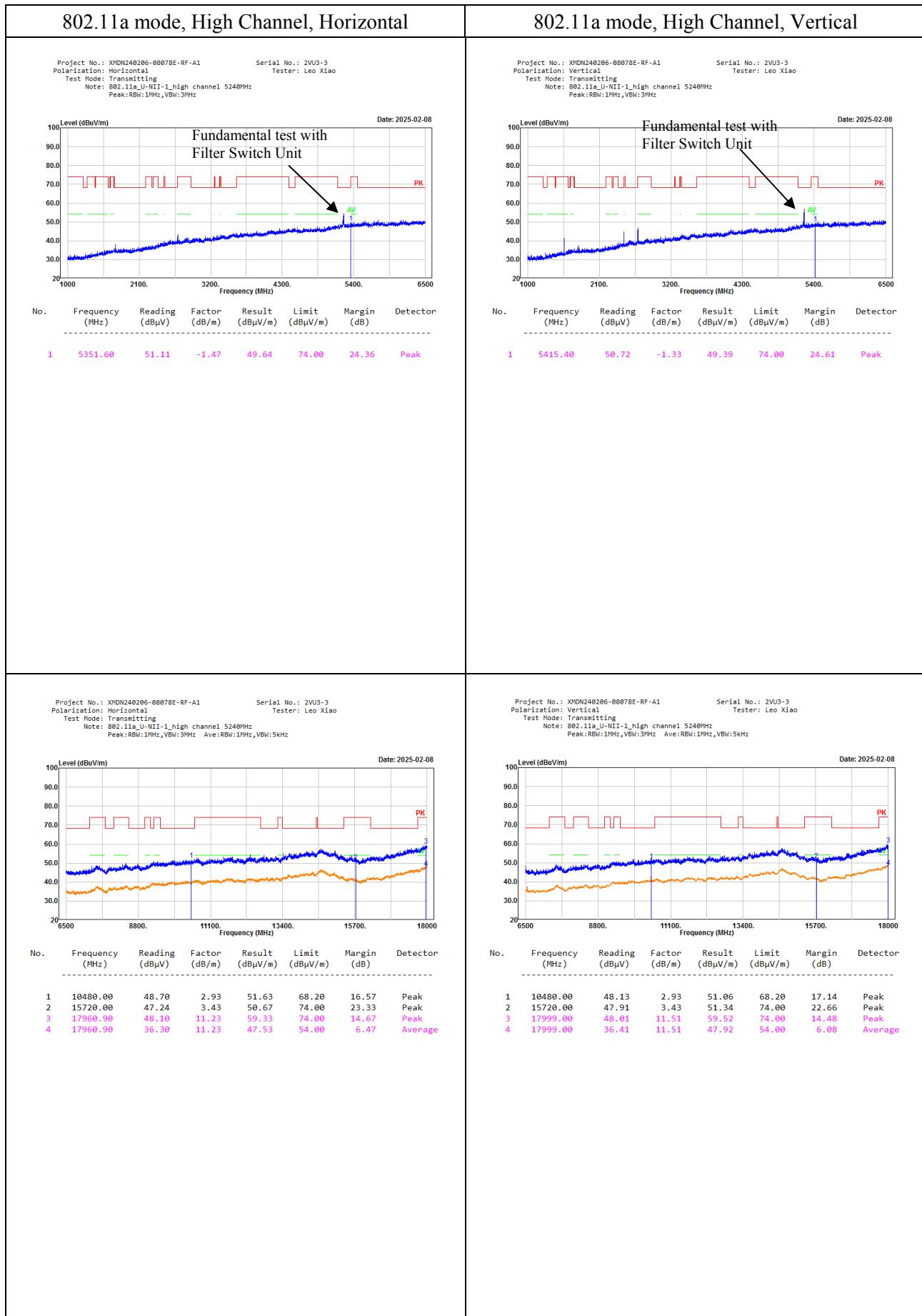
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

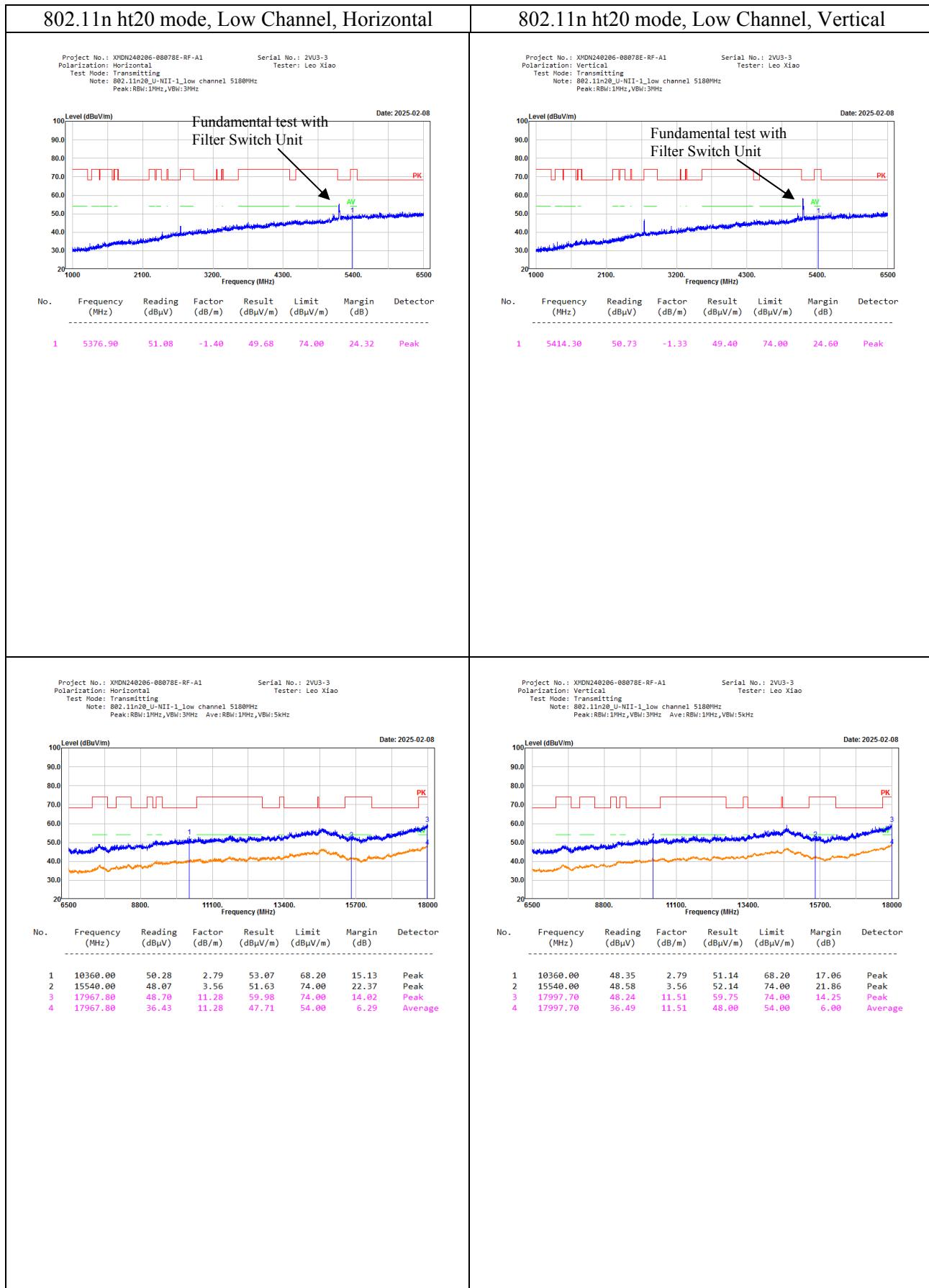
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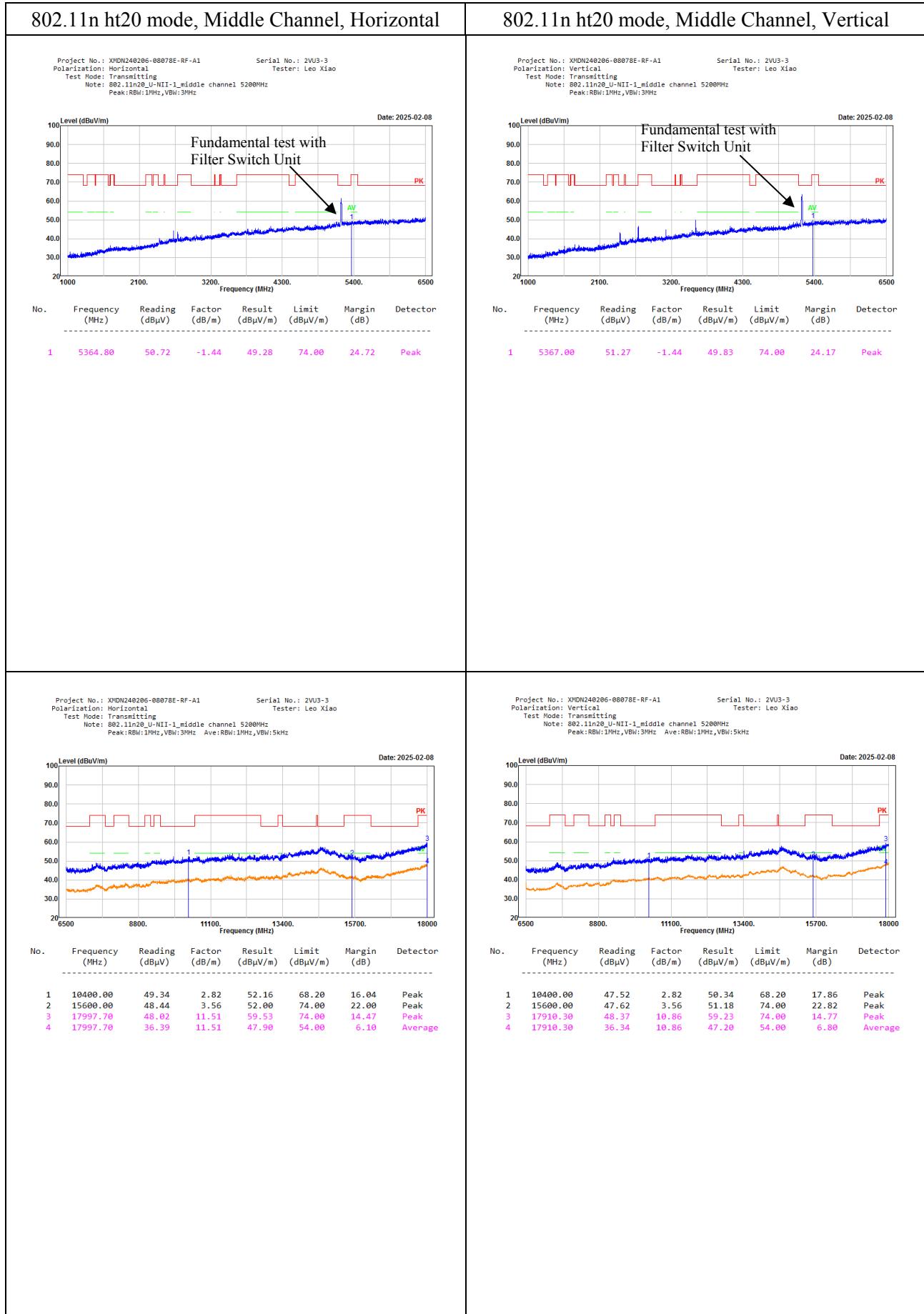
Please refer to the below table and plots.

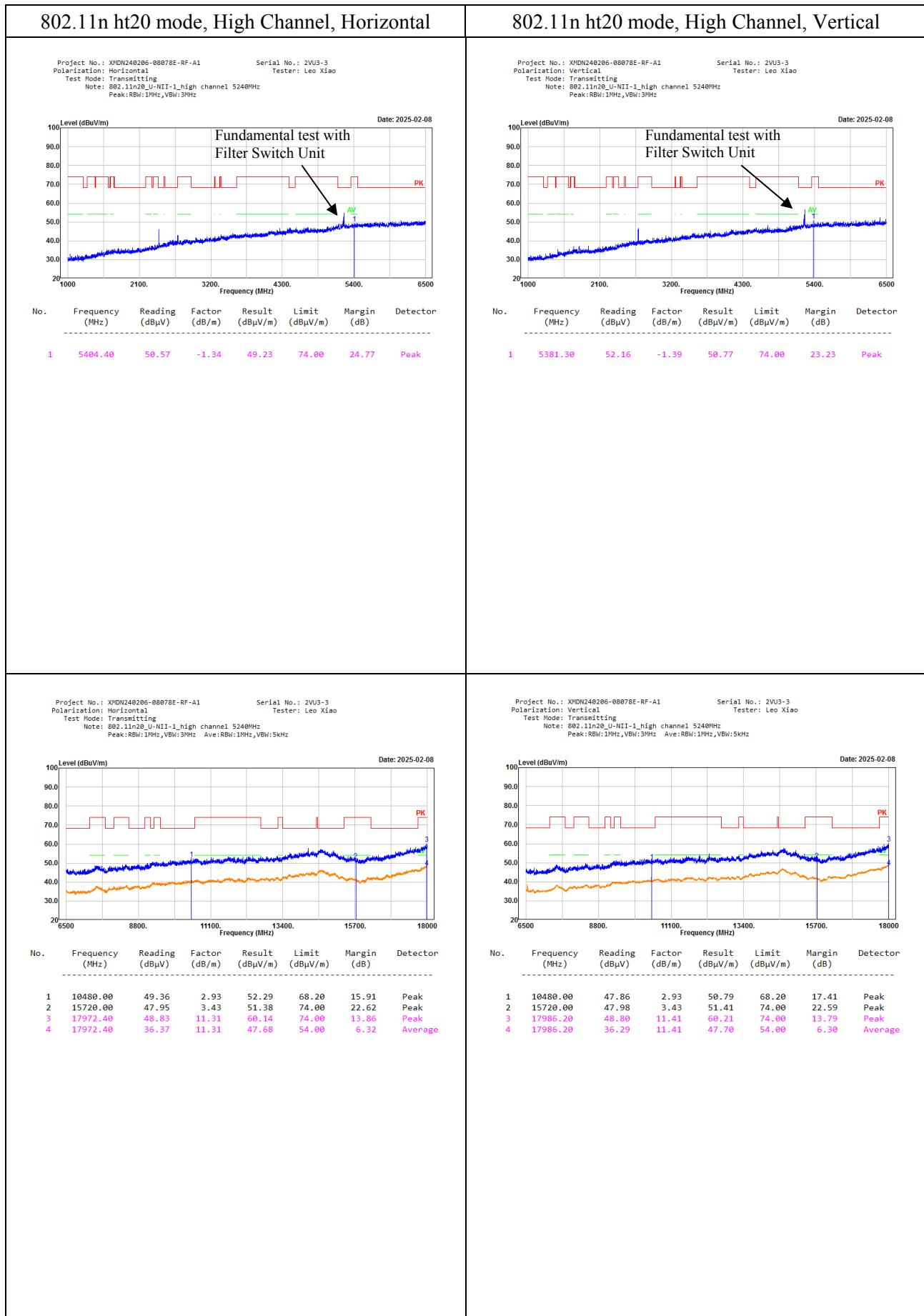
**1-18GHz:
5150-5250 MHz:**


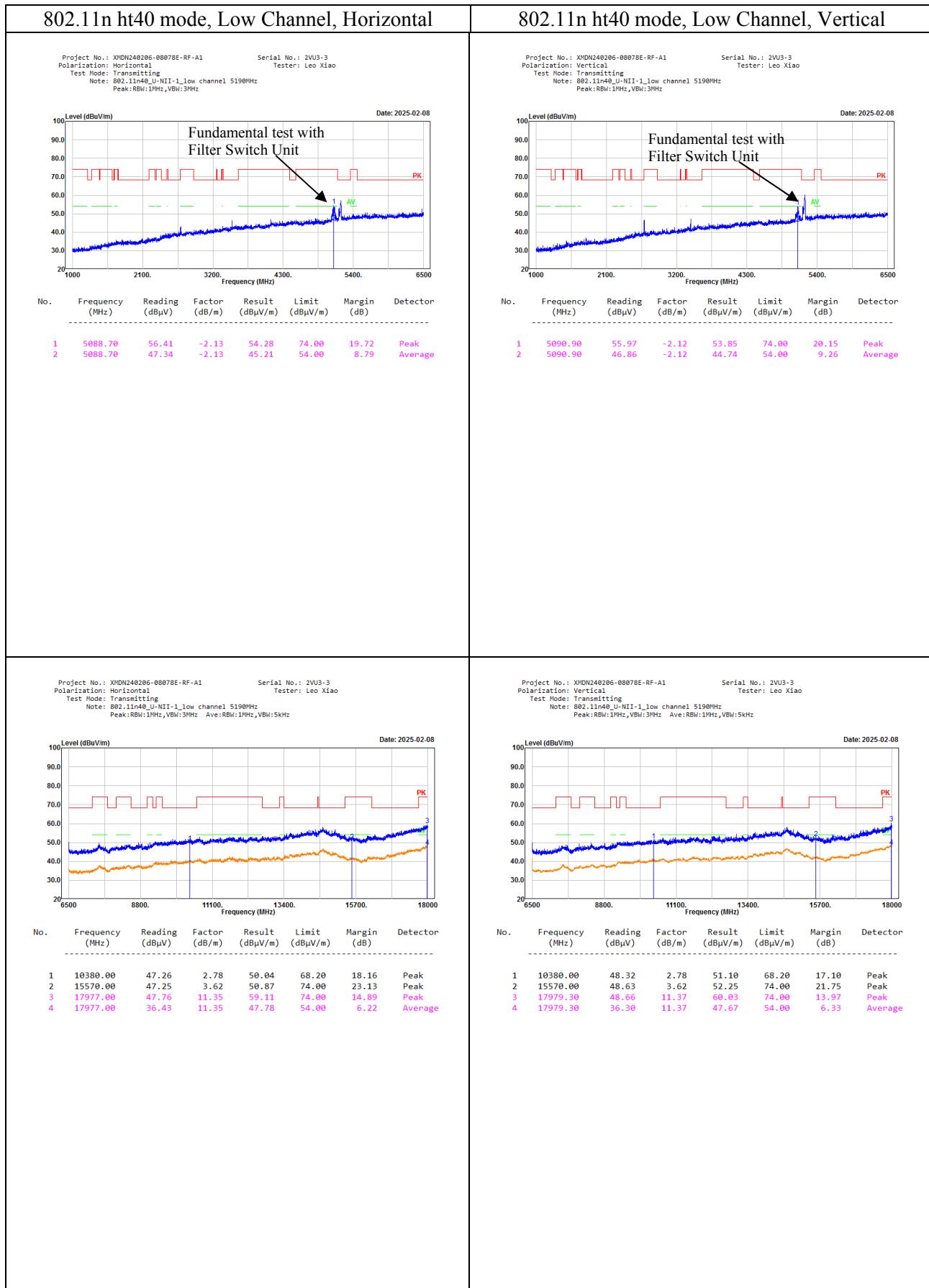


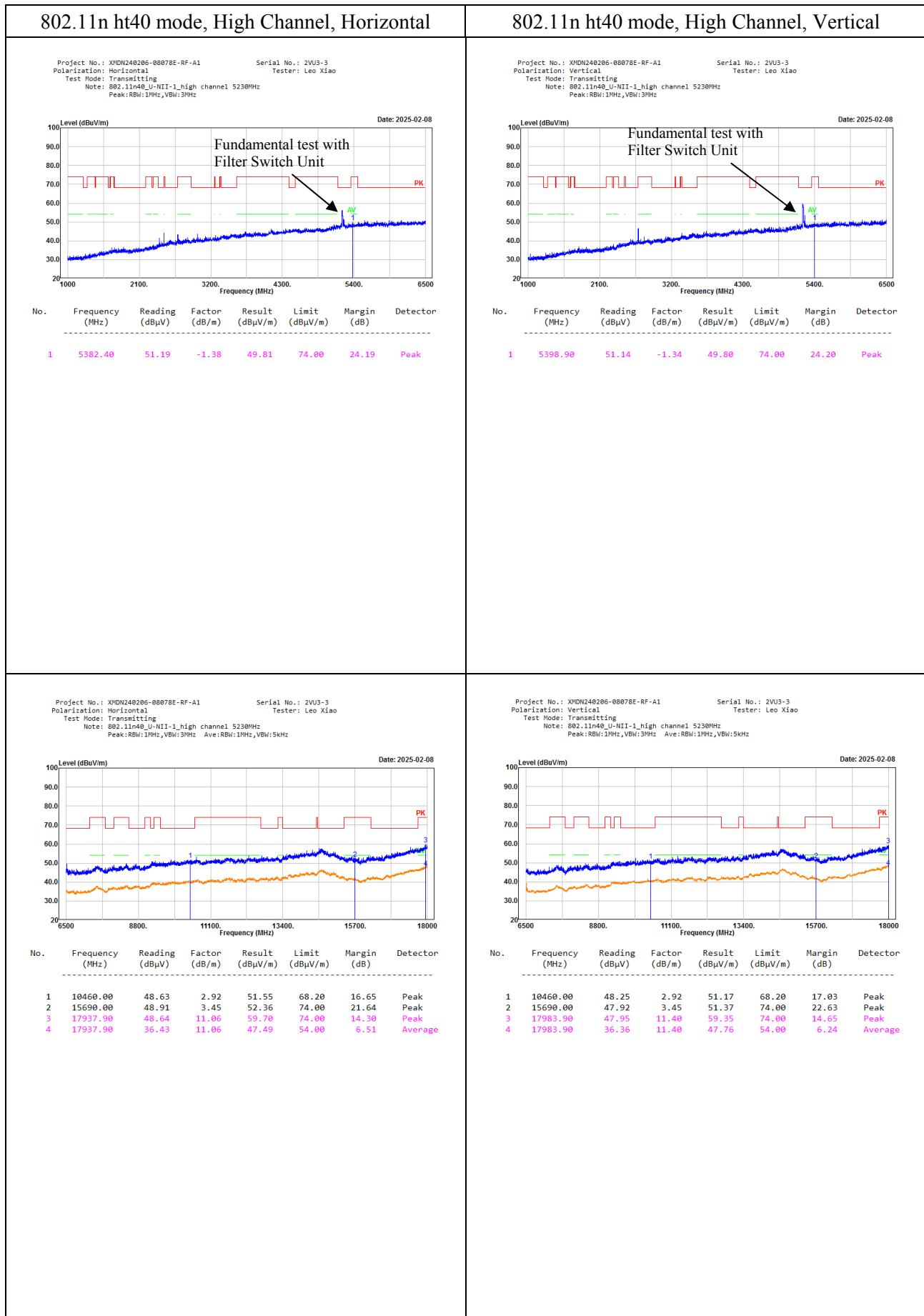


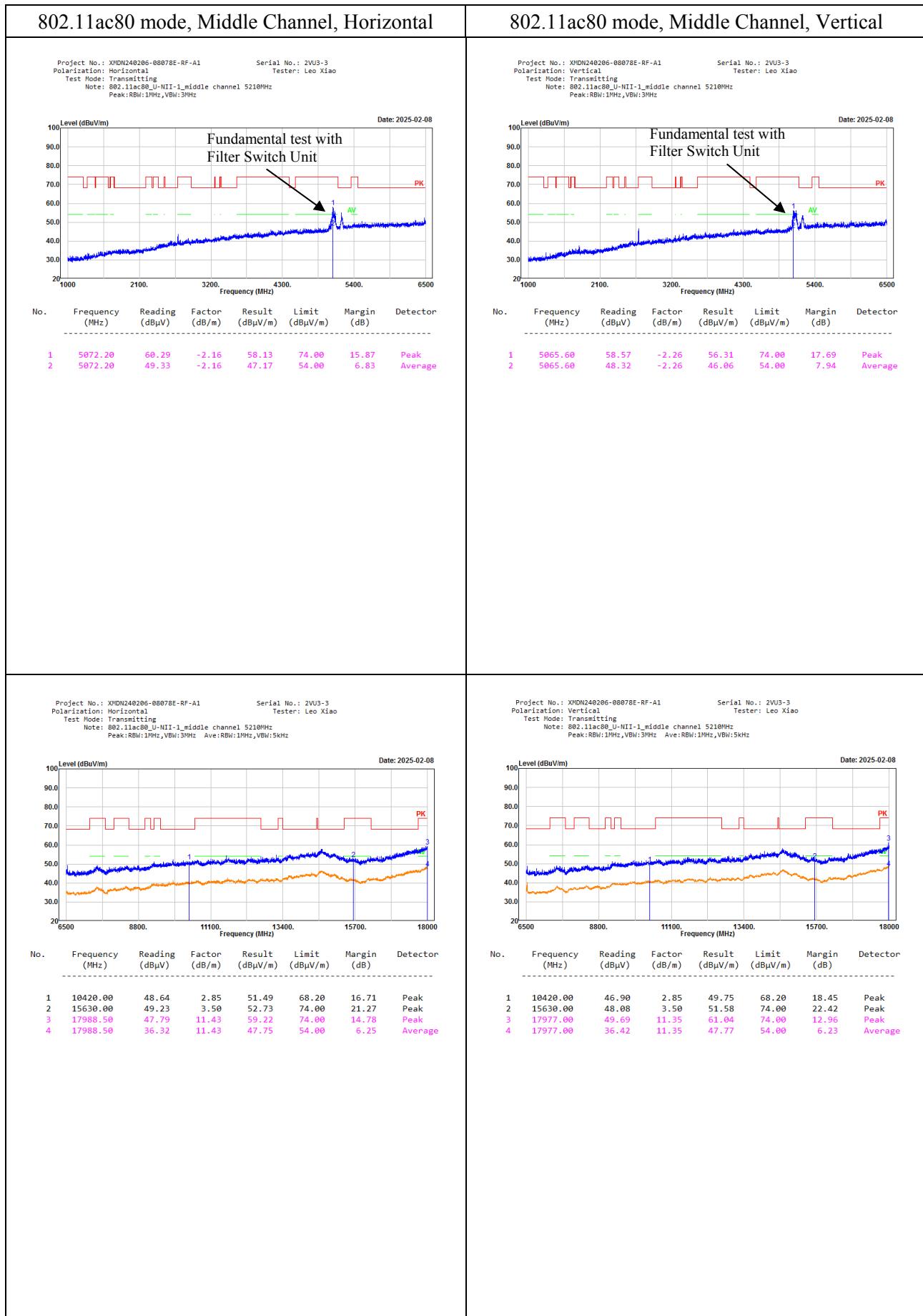


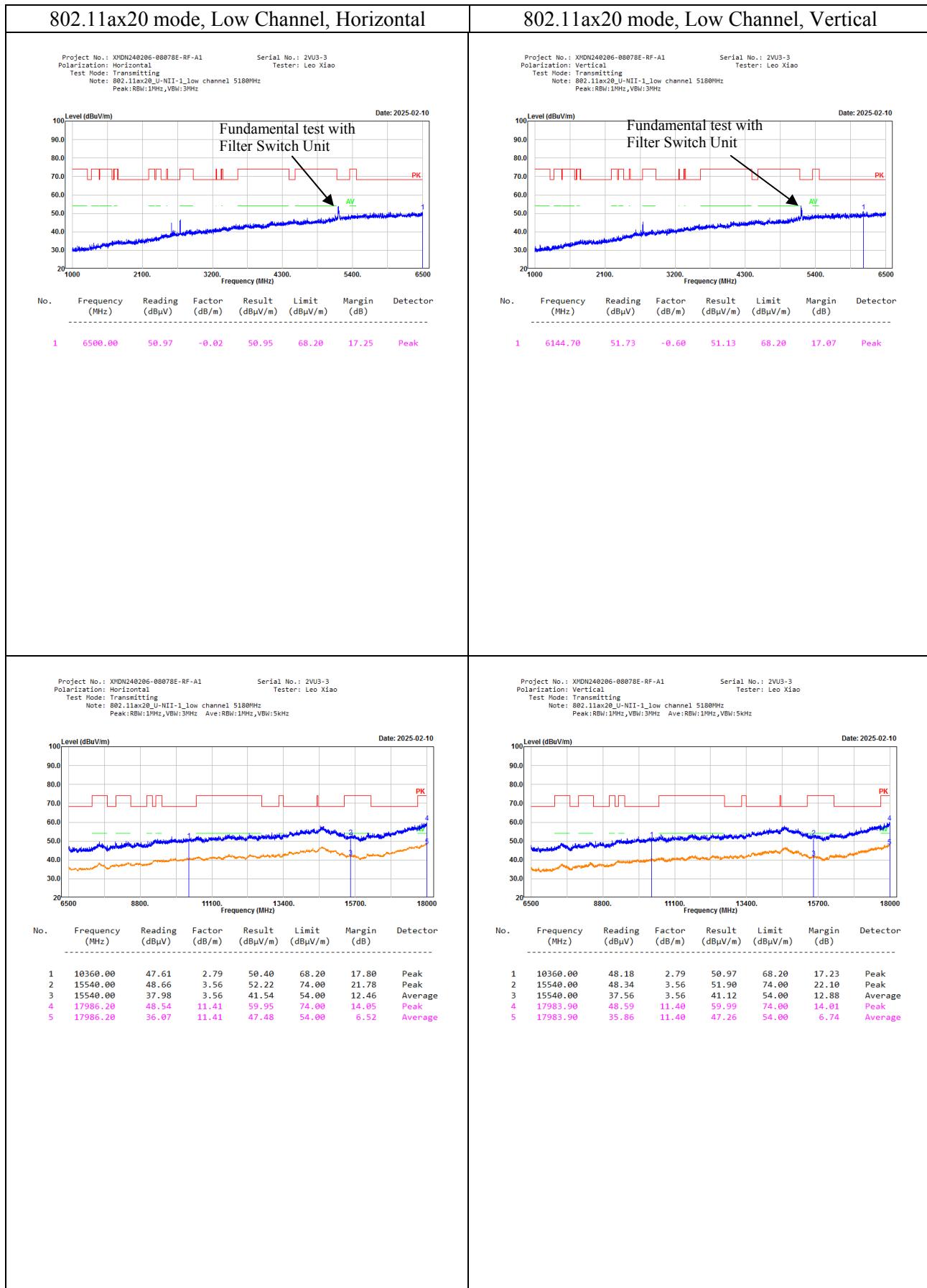


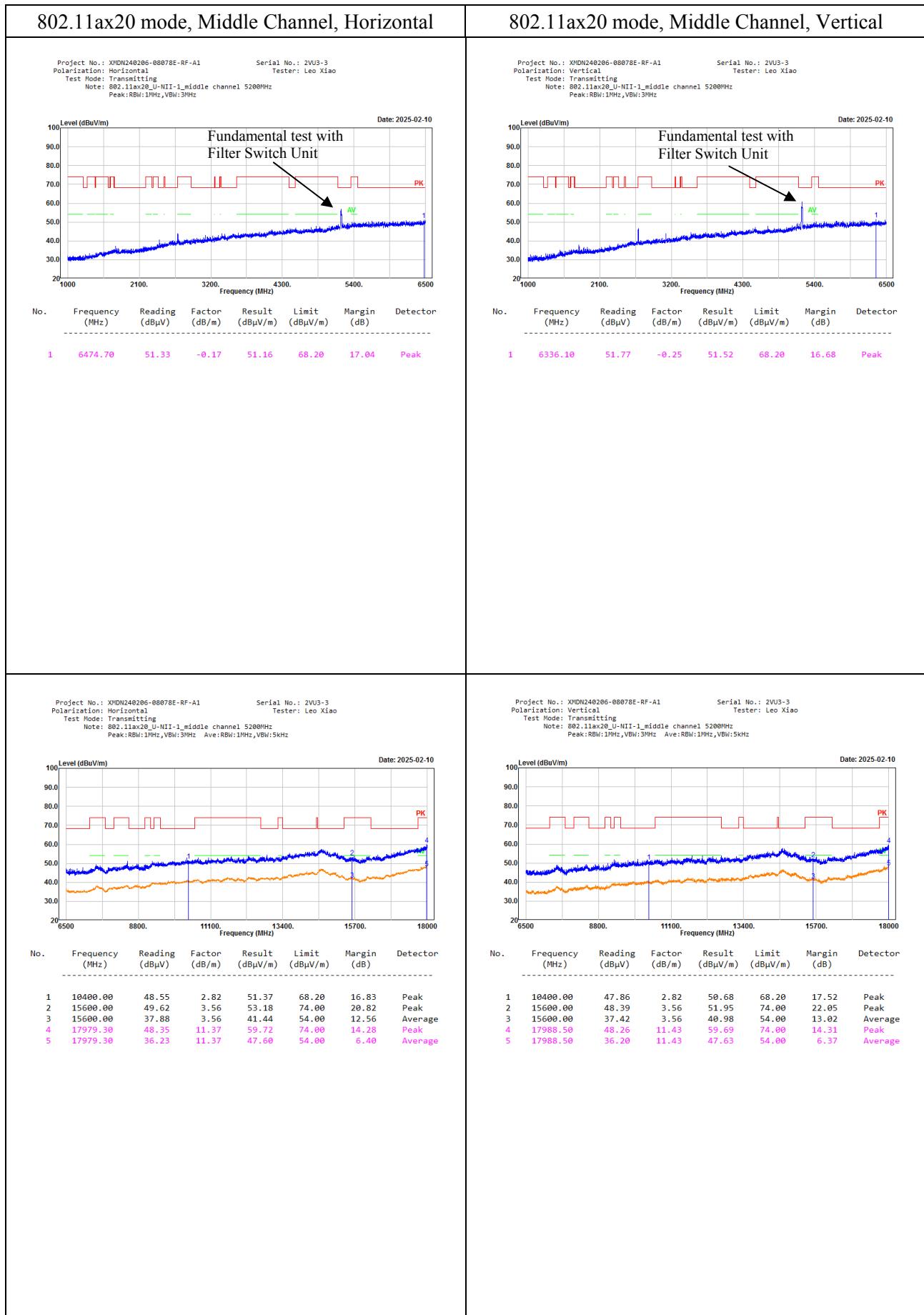


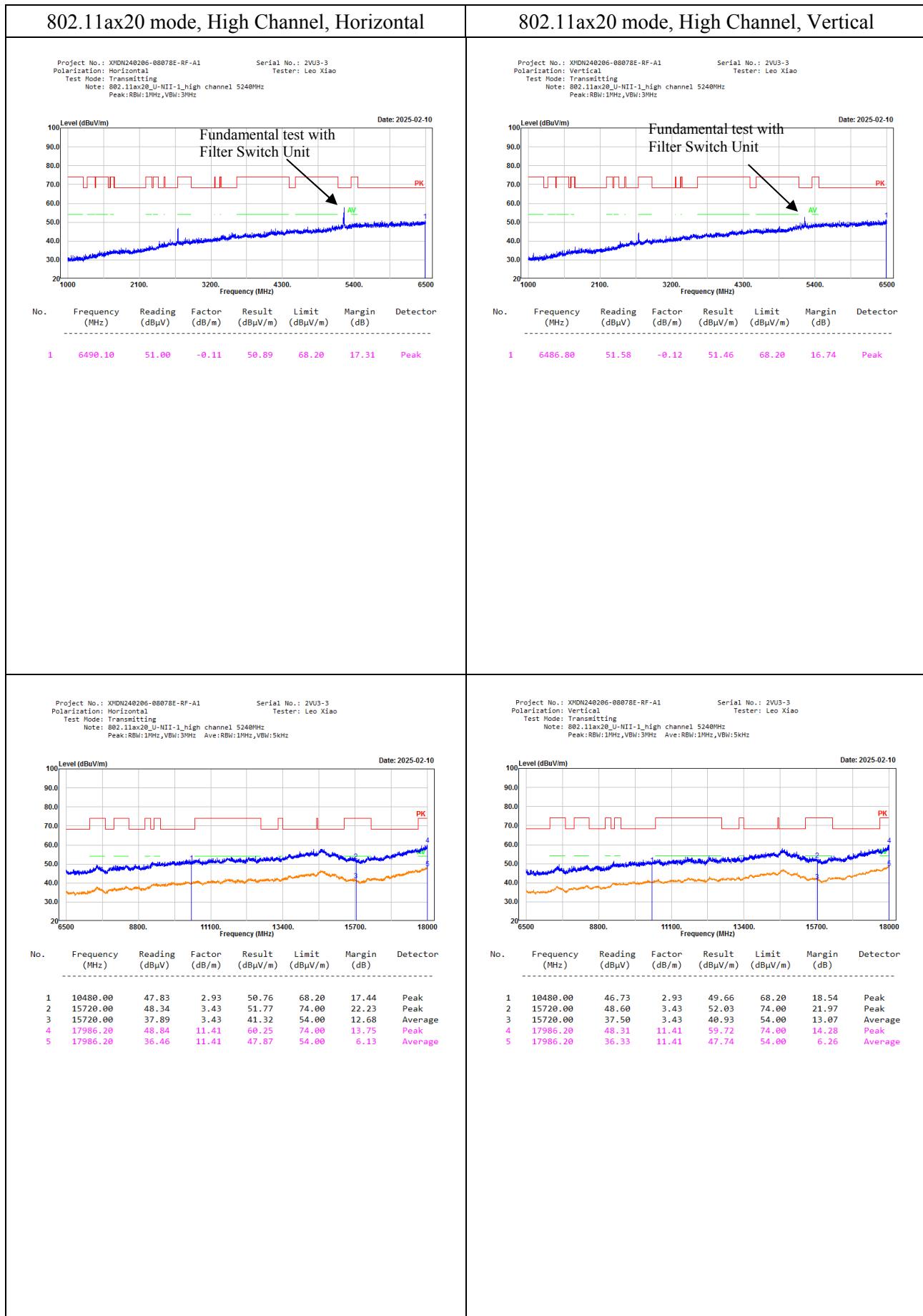


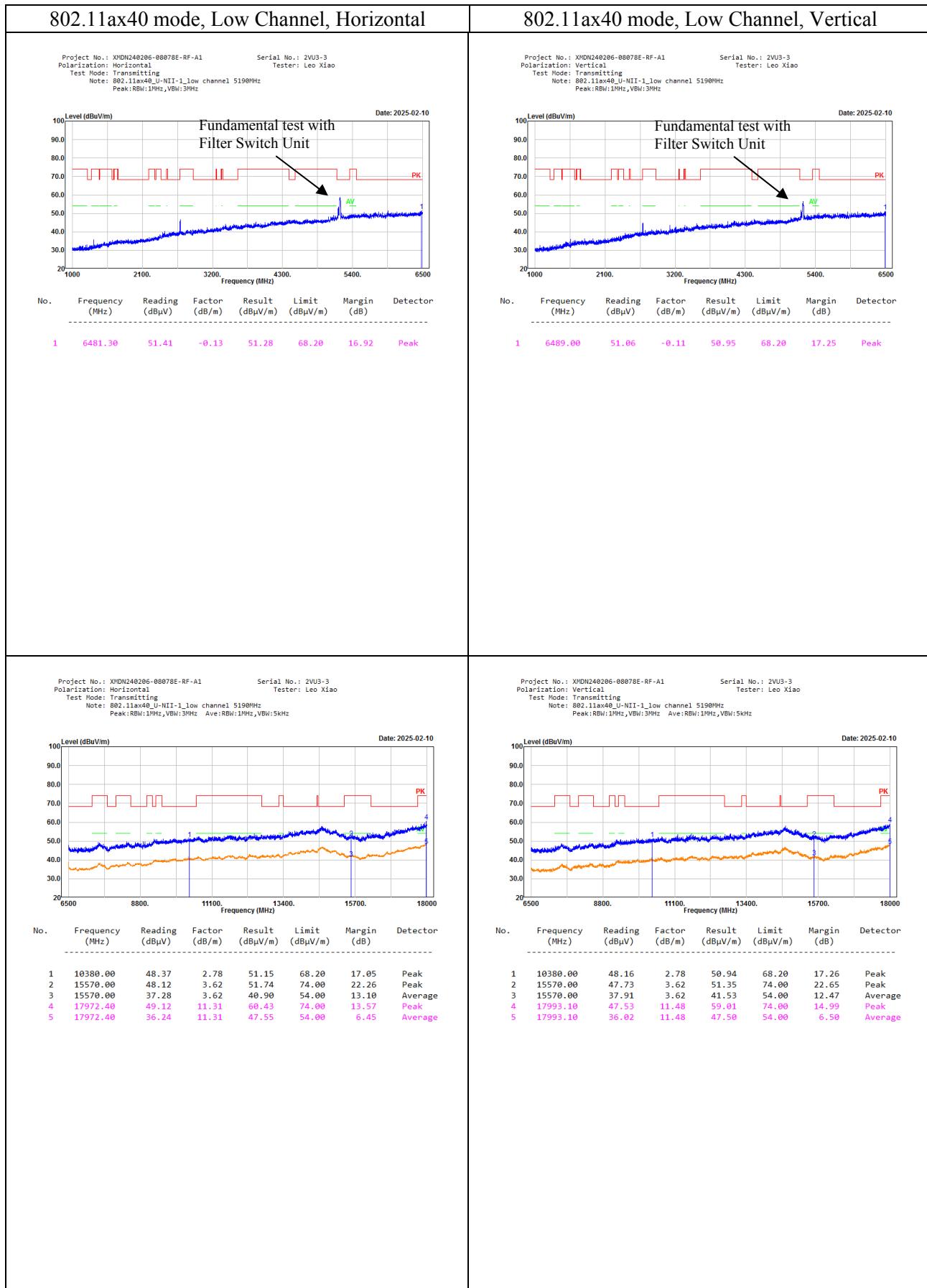


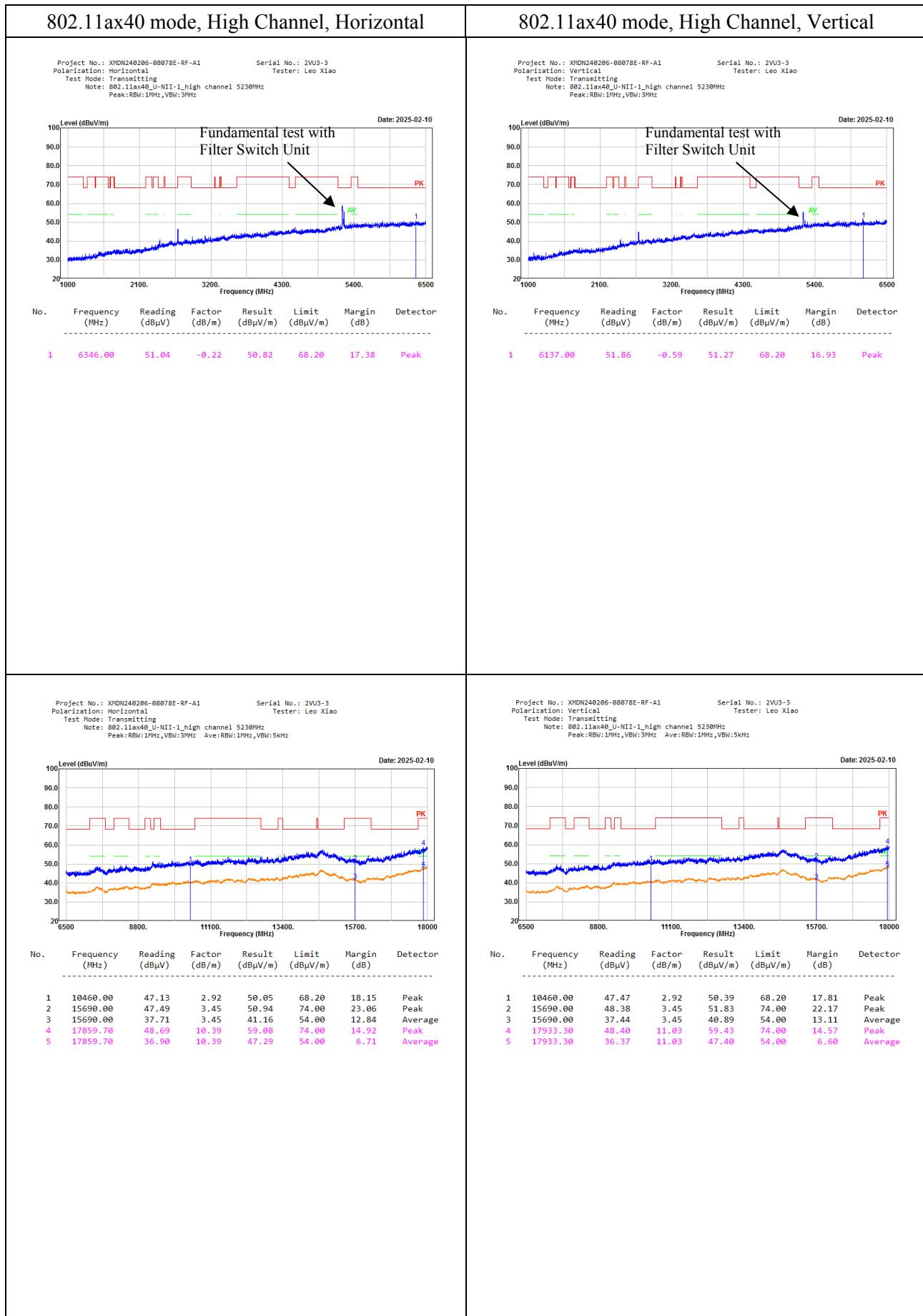


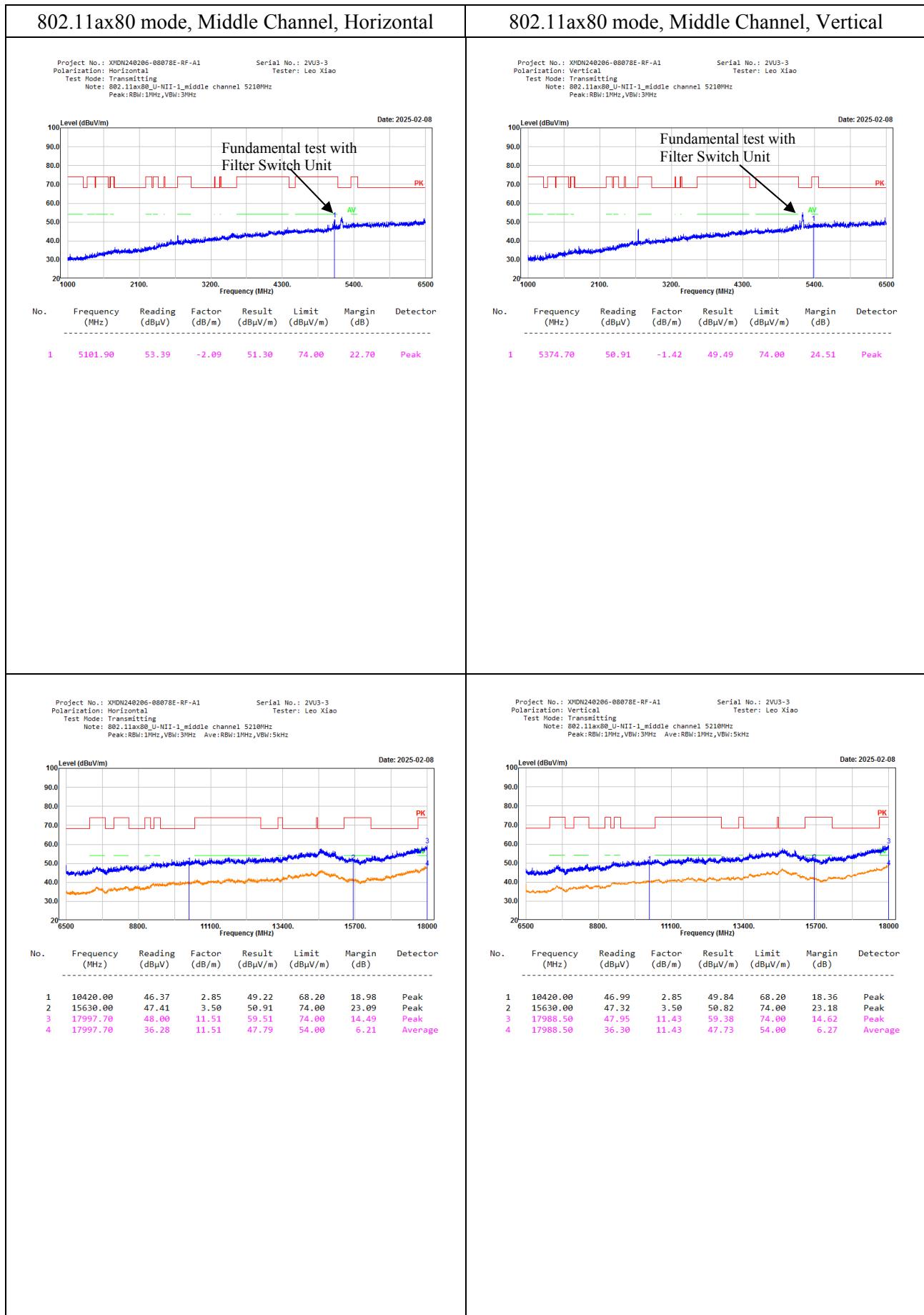




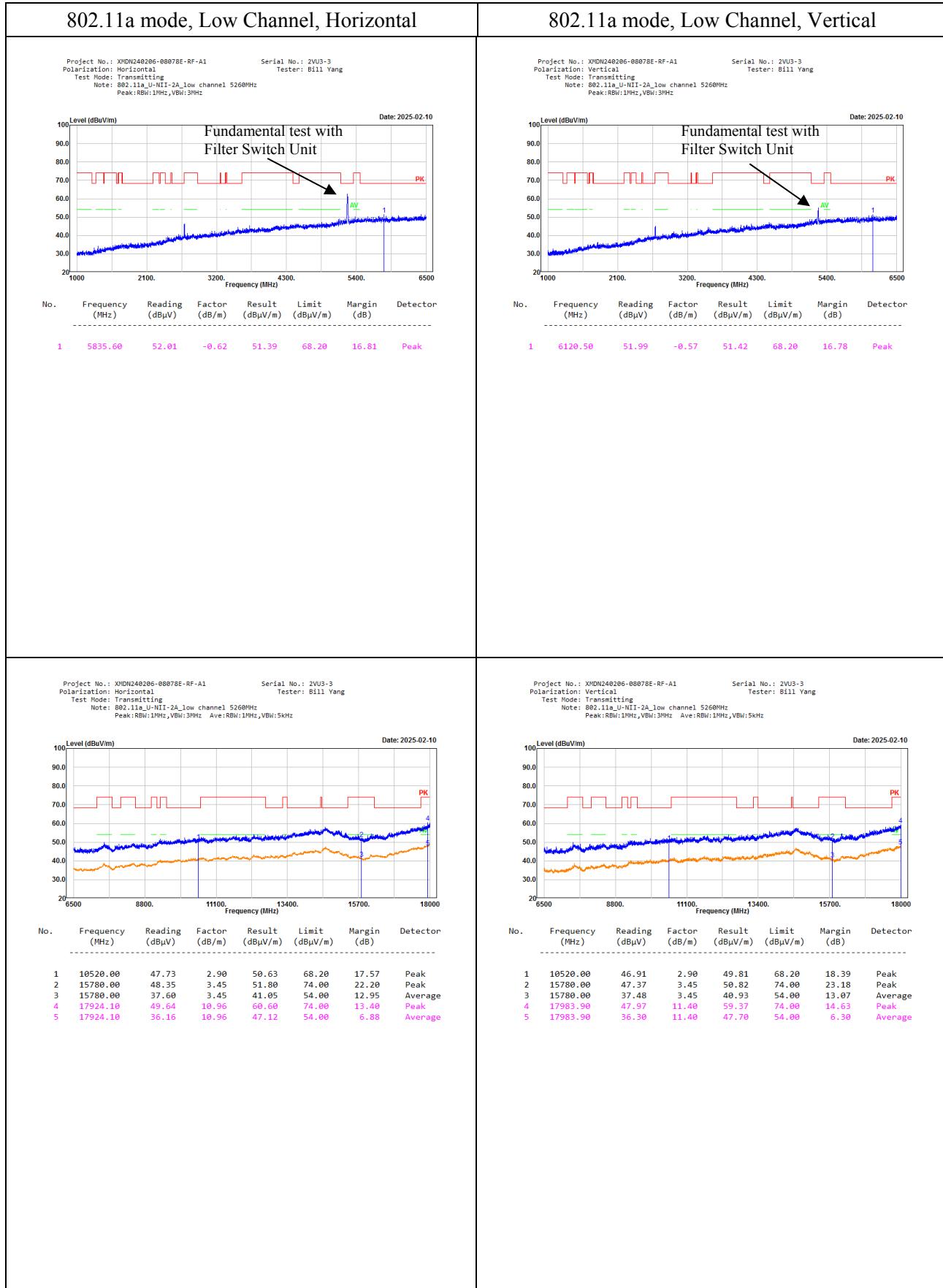


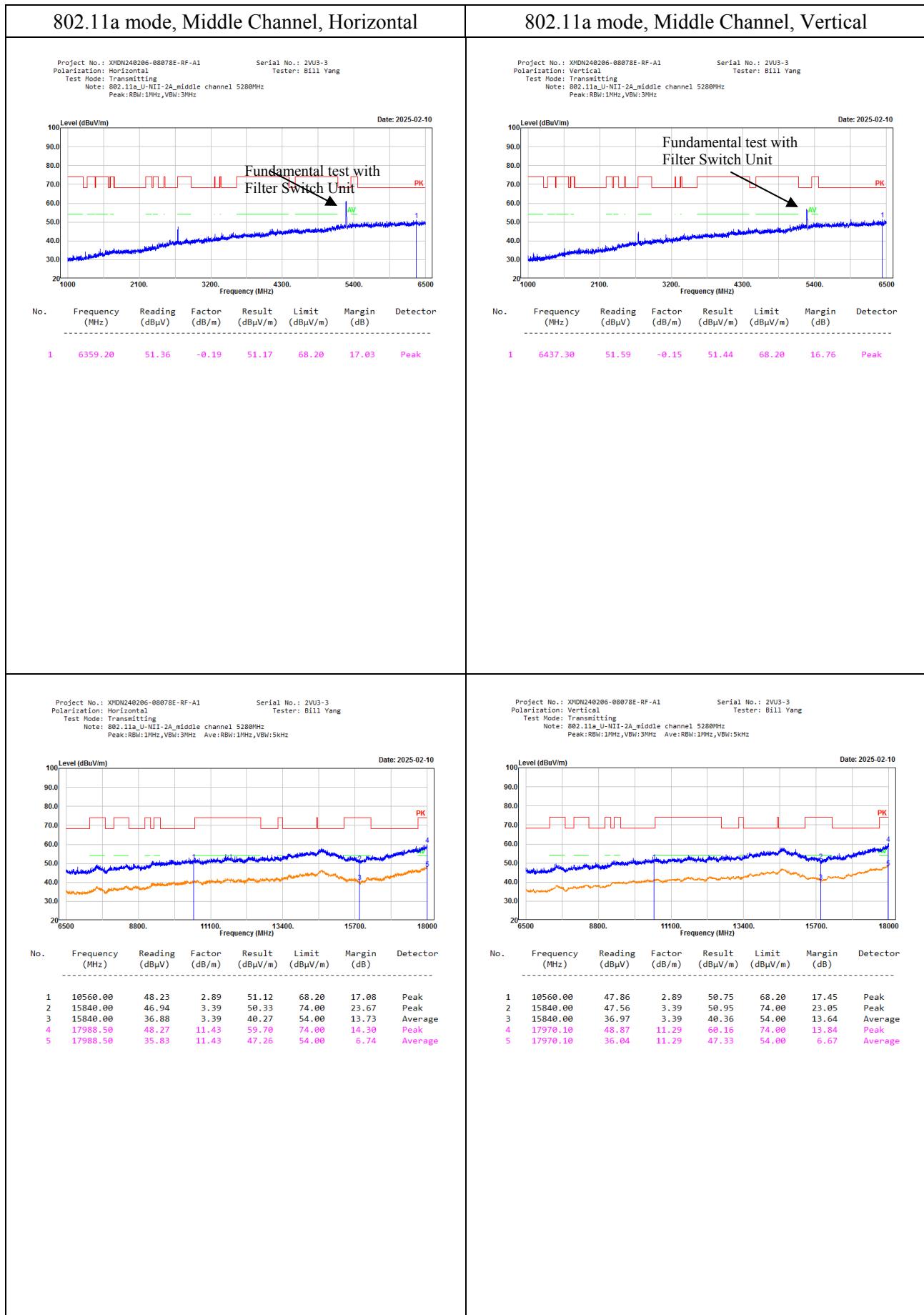


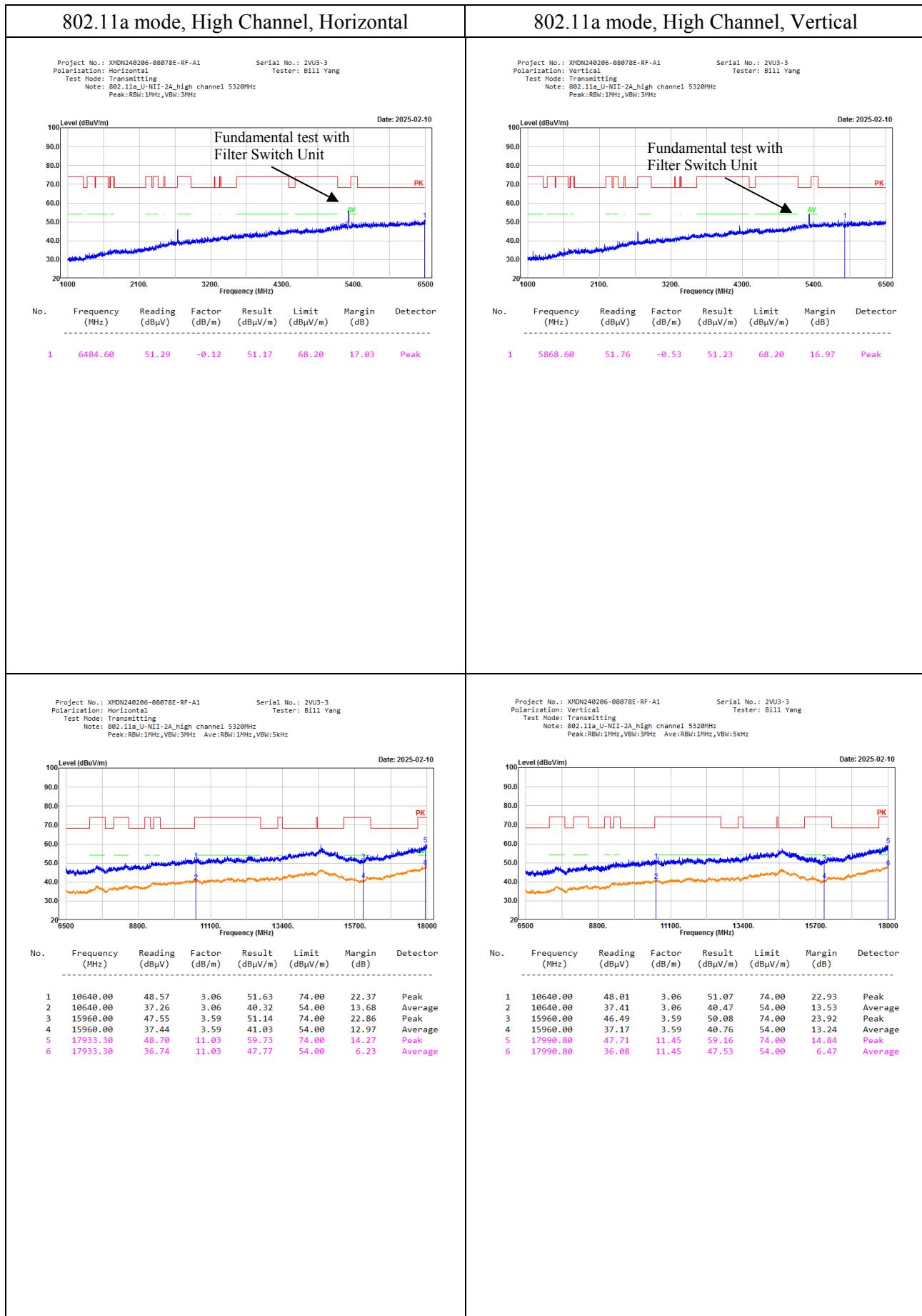


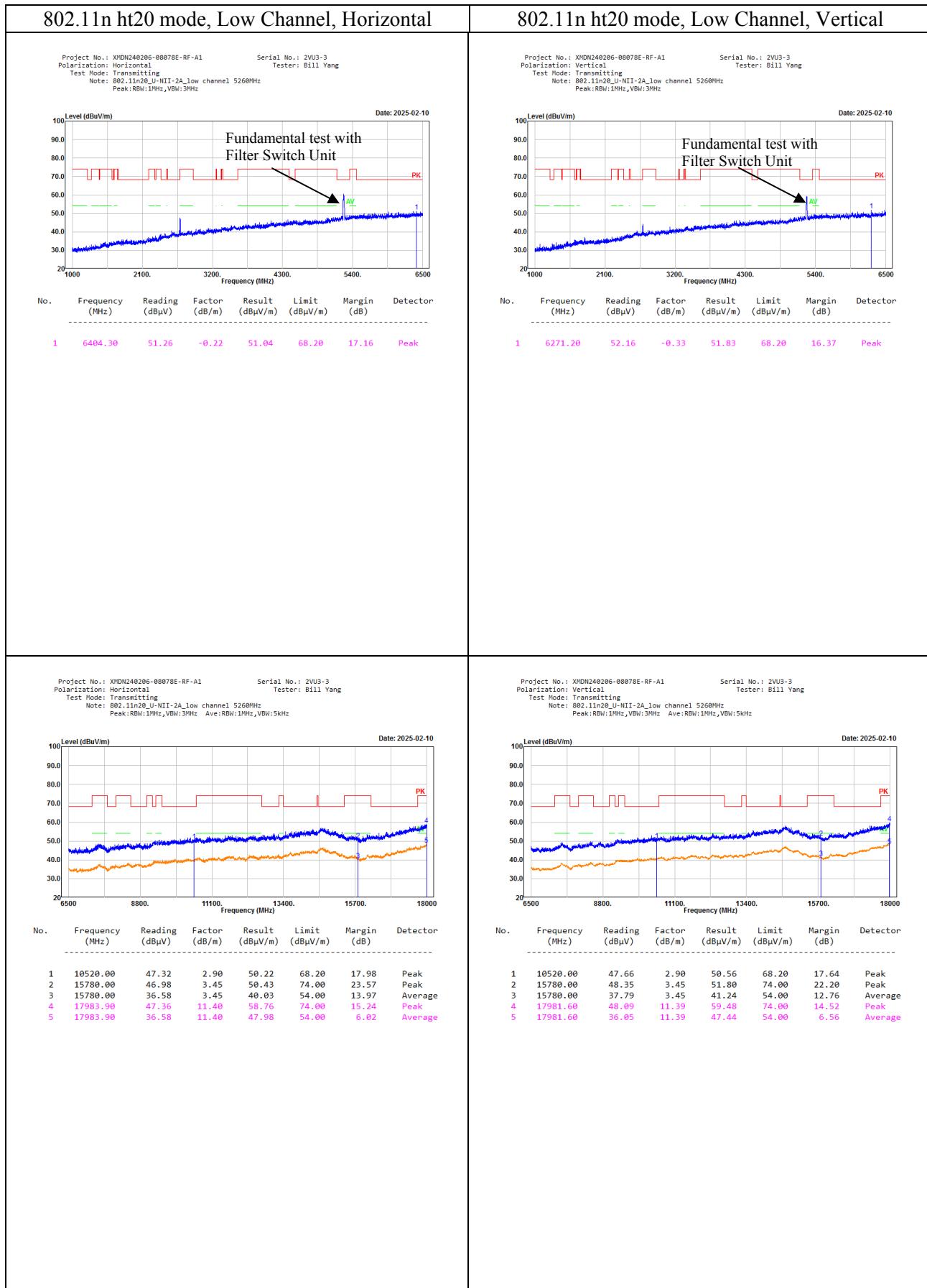


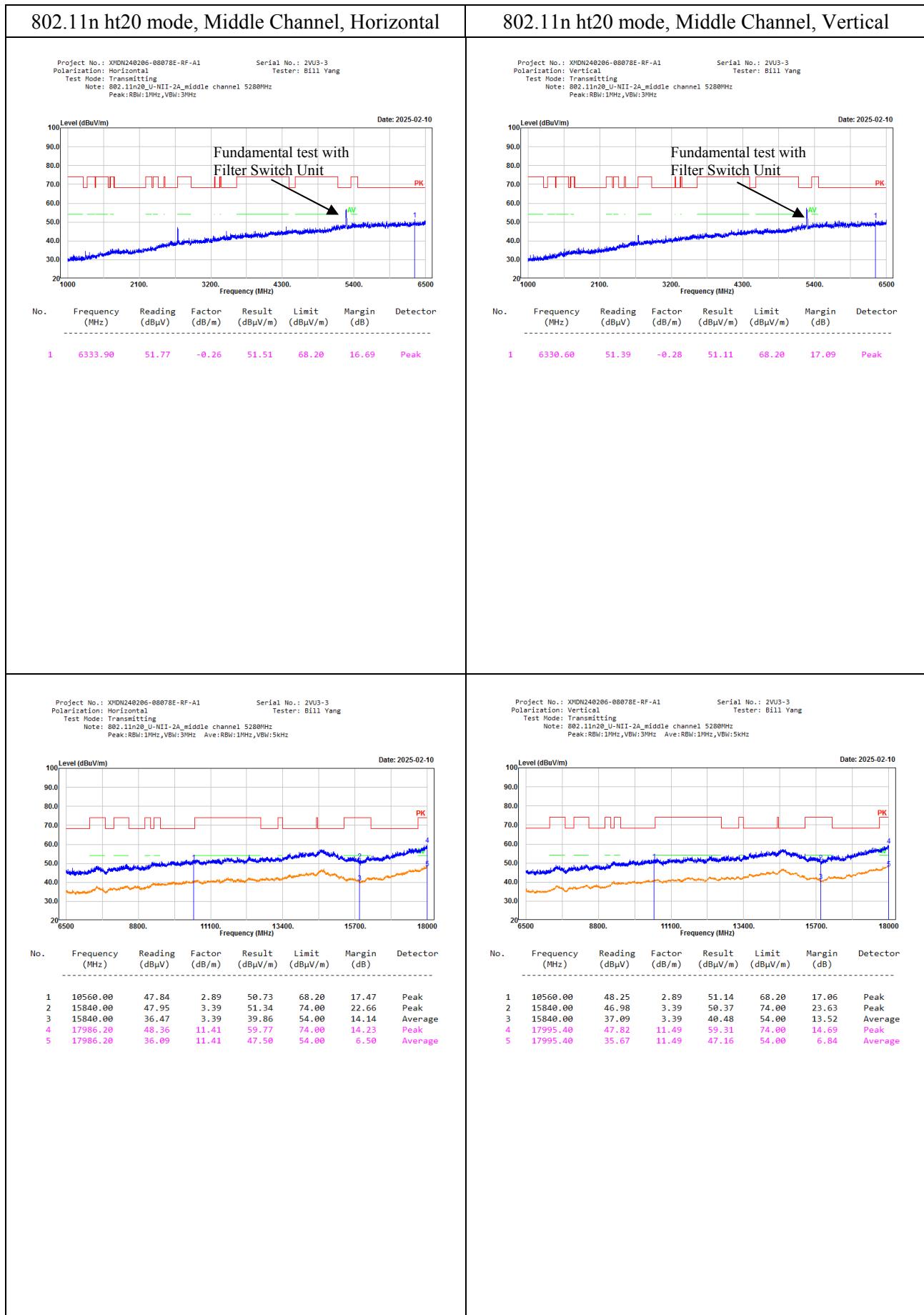
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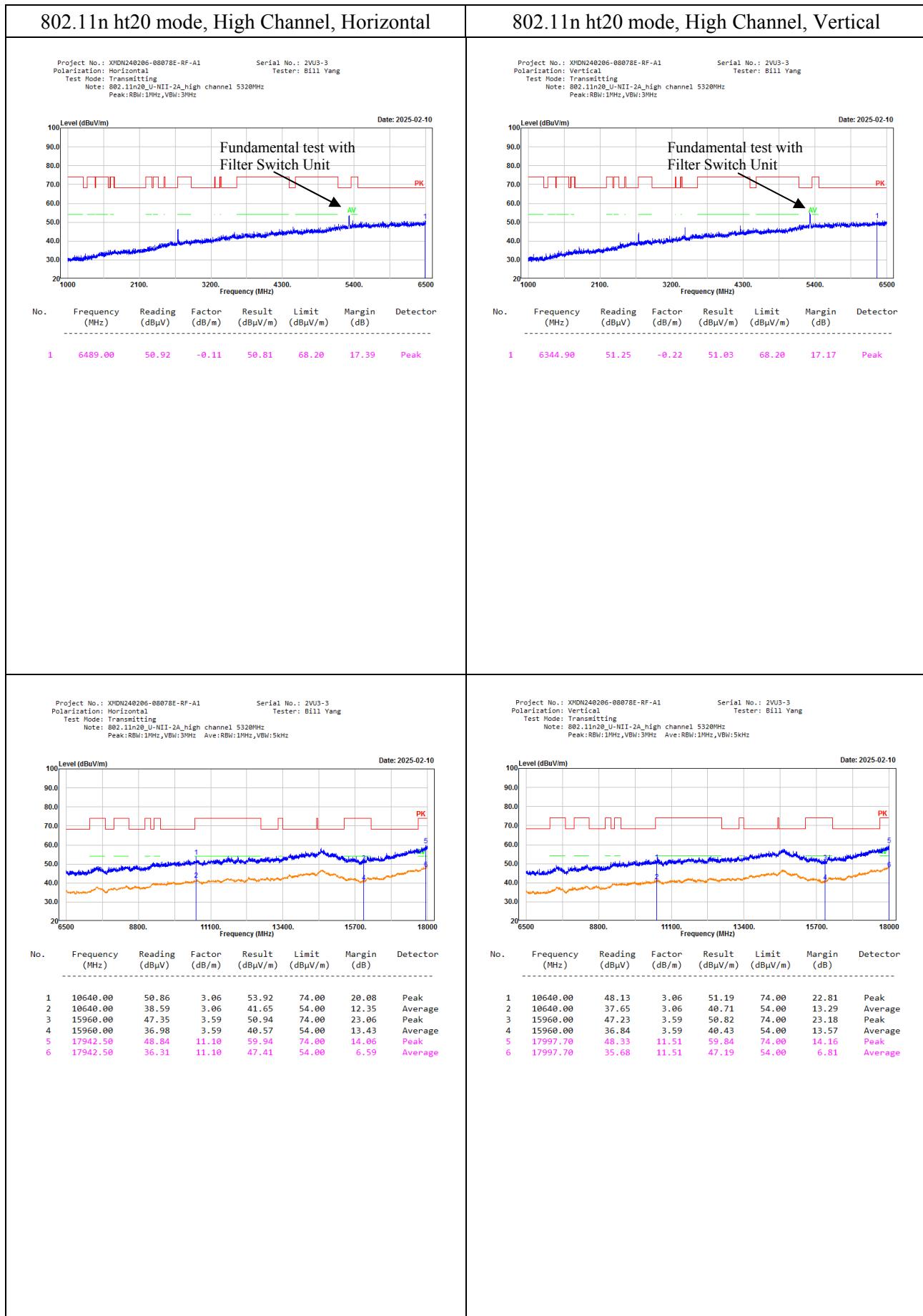


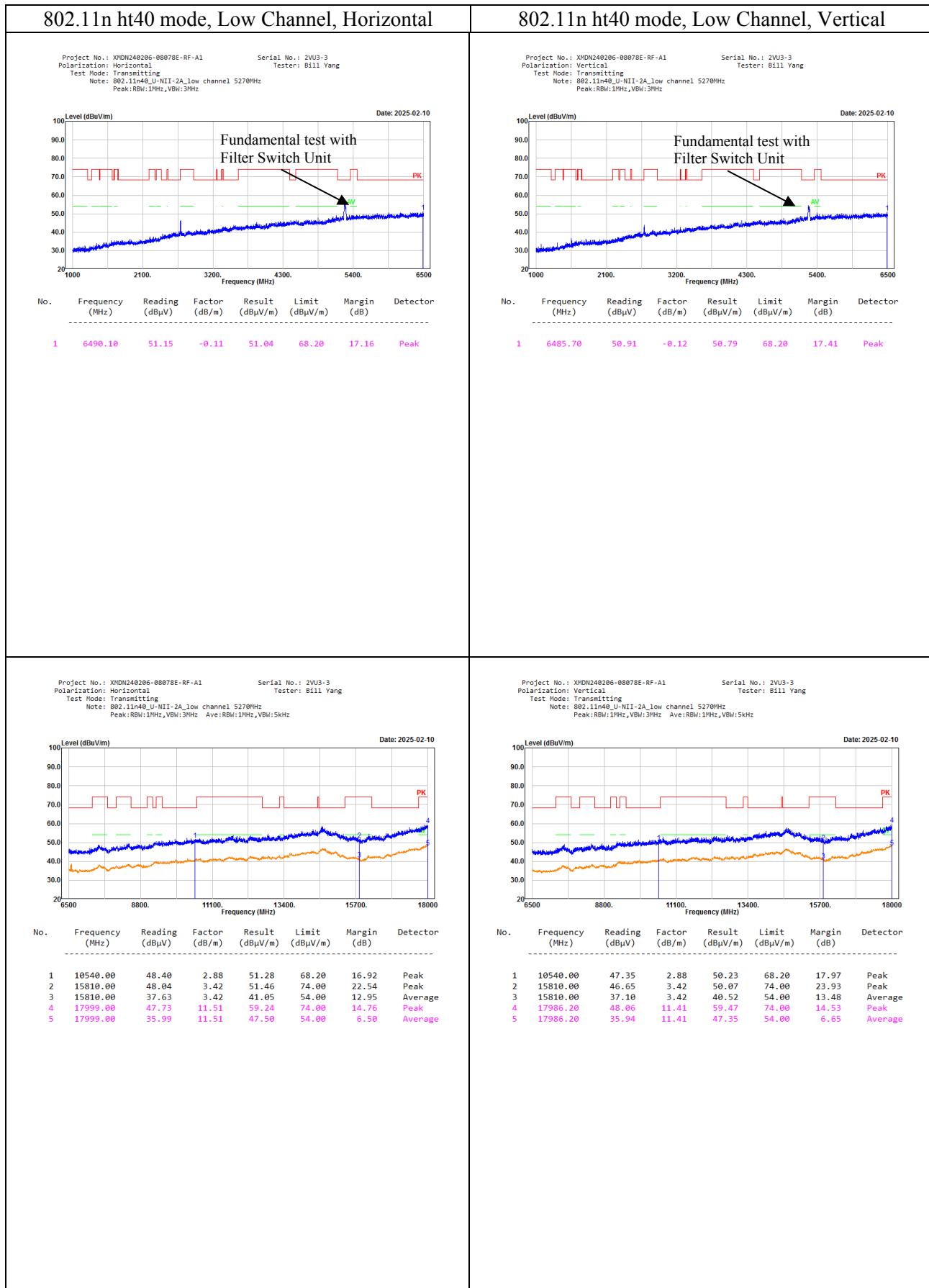


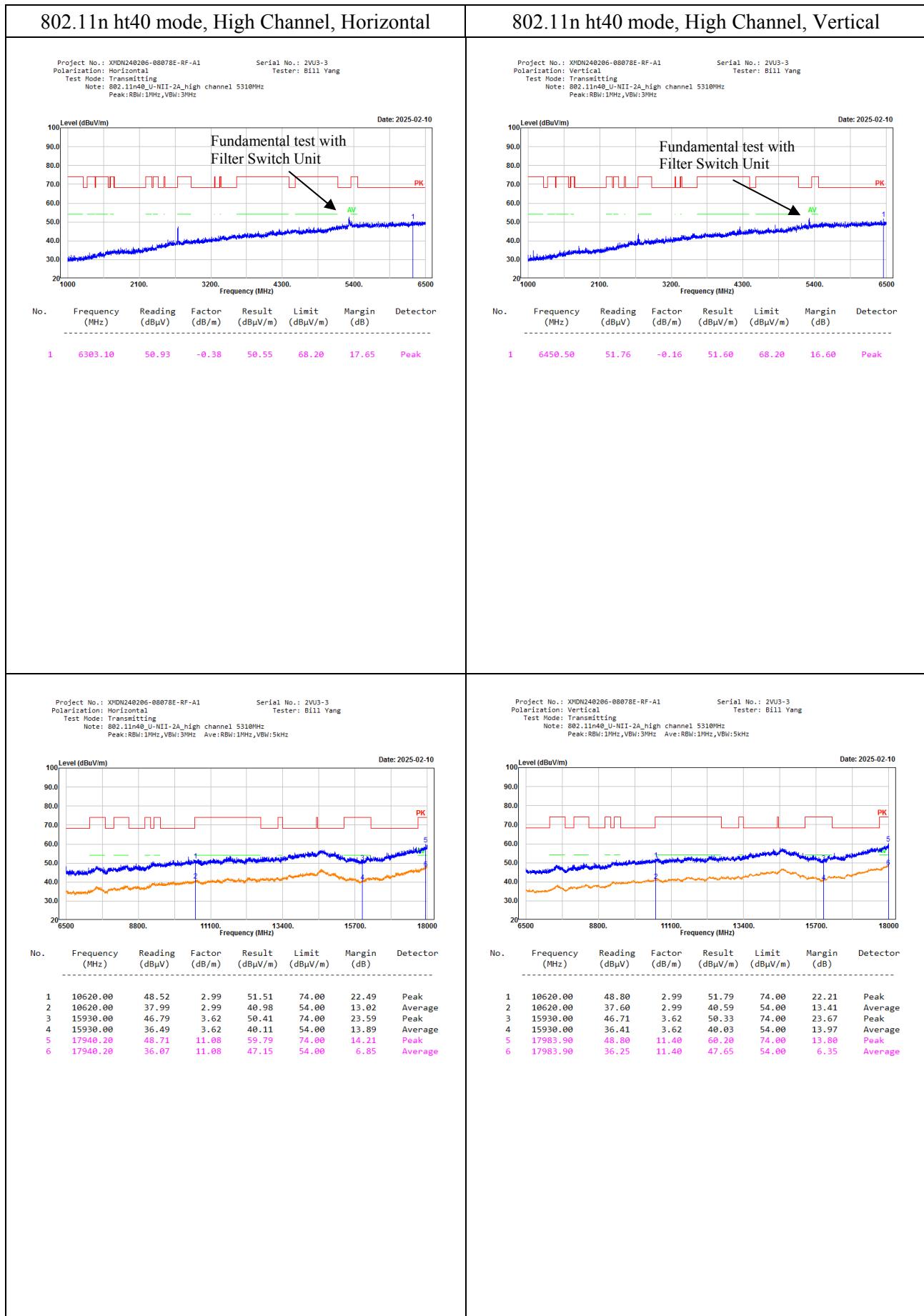


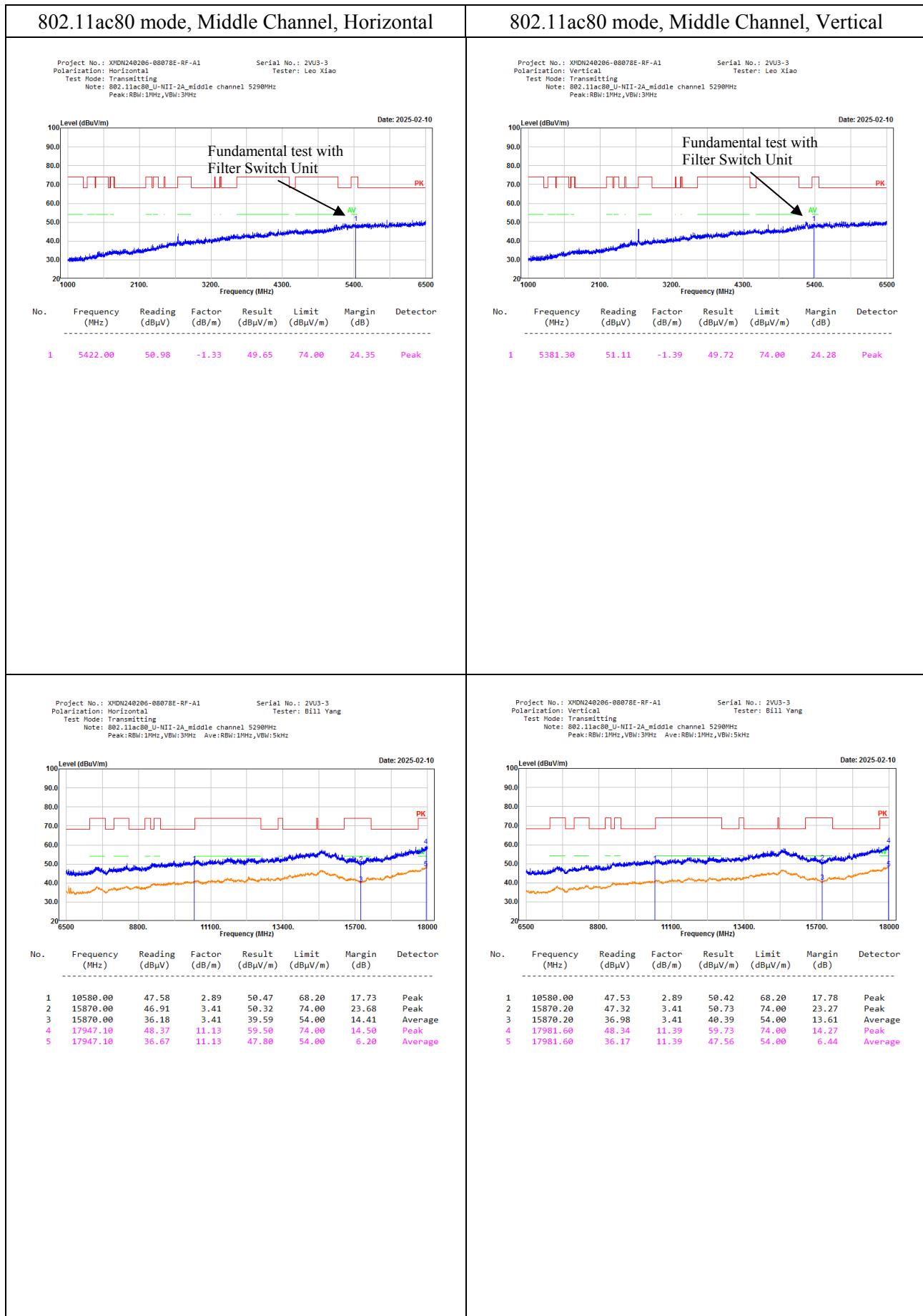


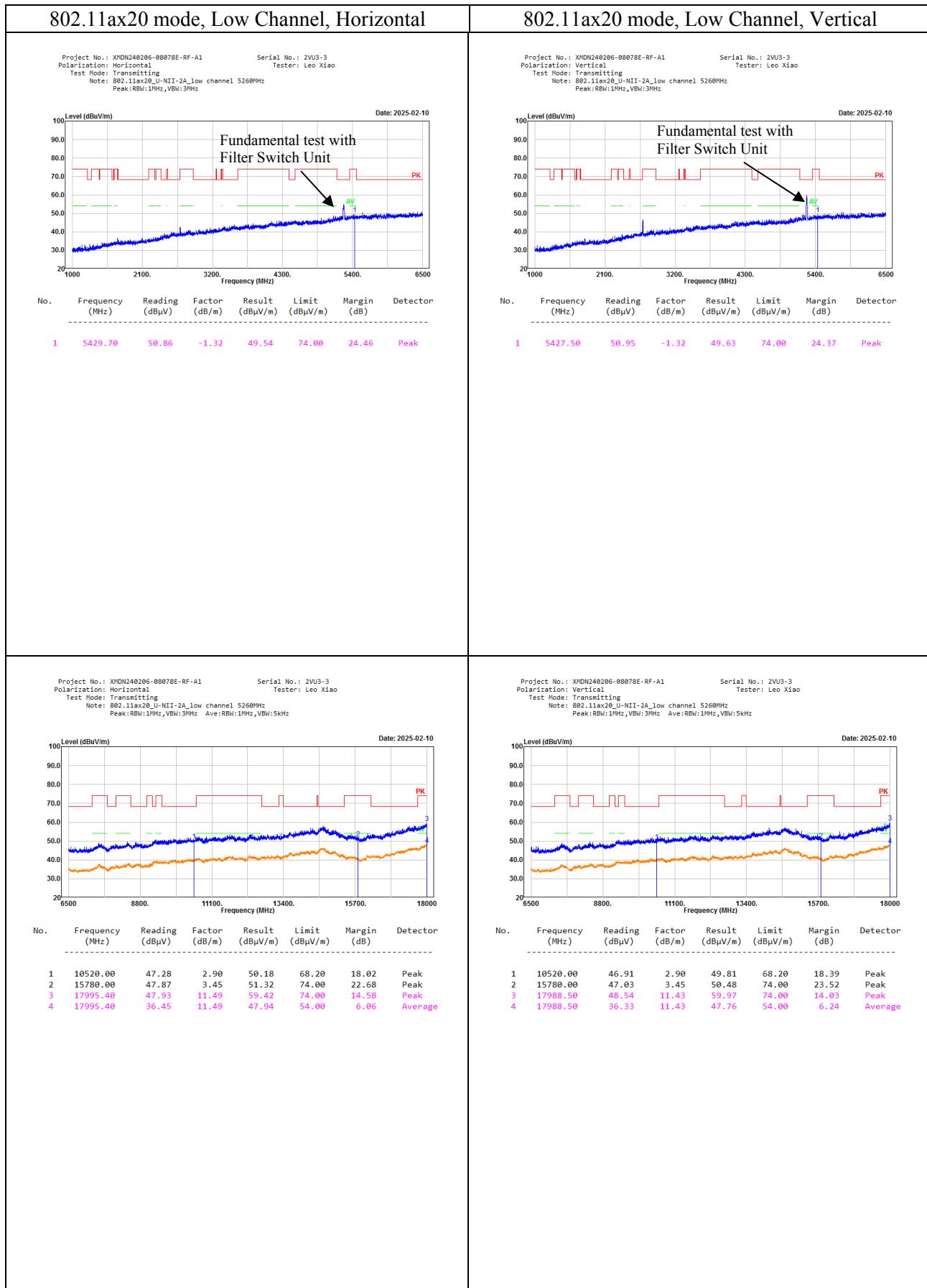


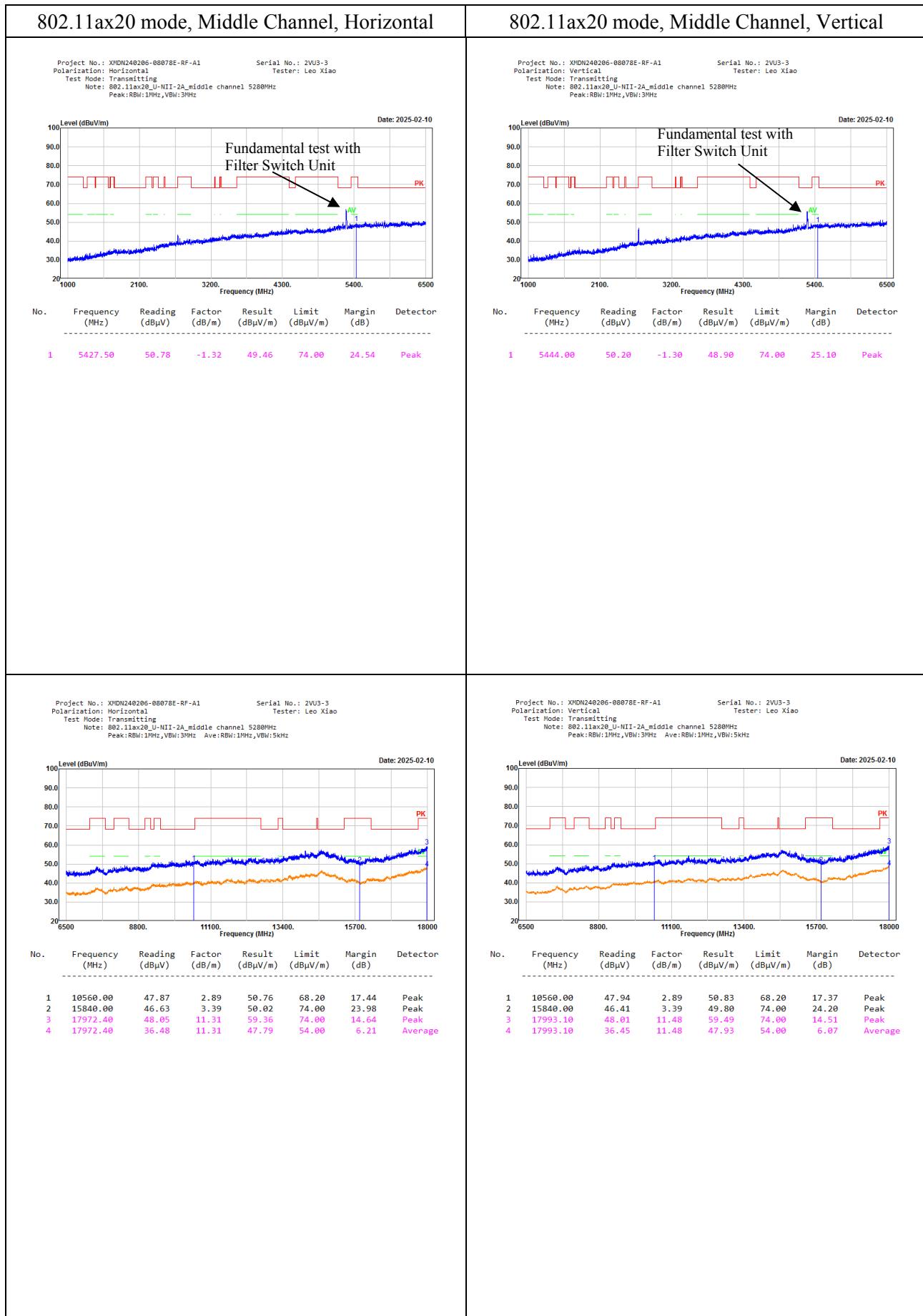


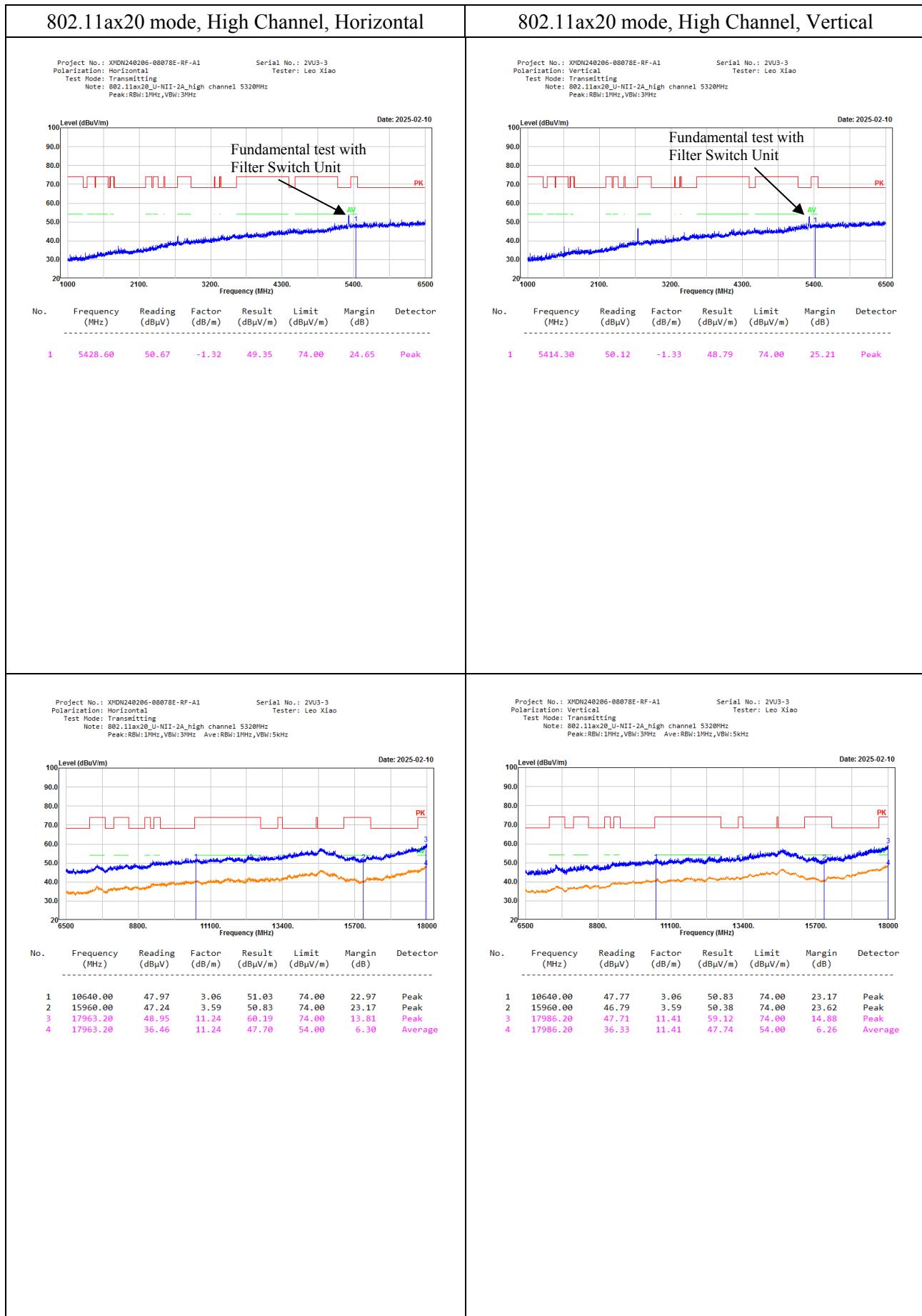


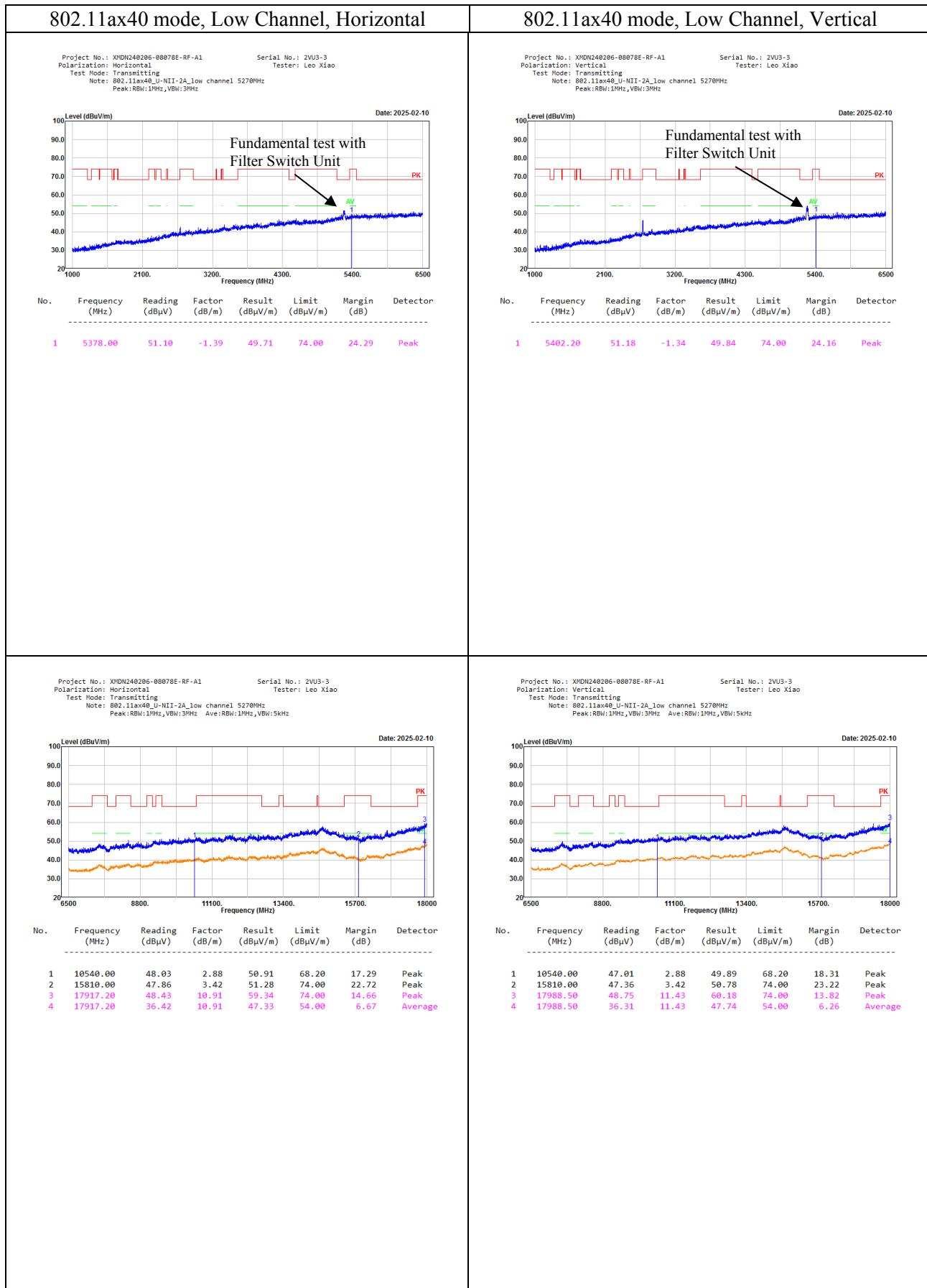


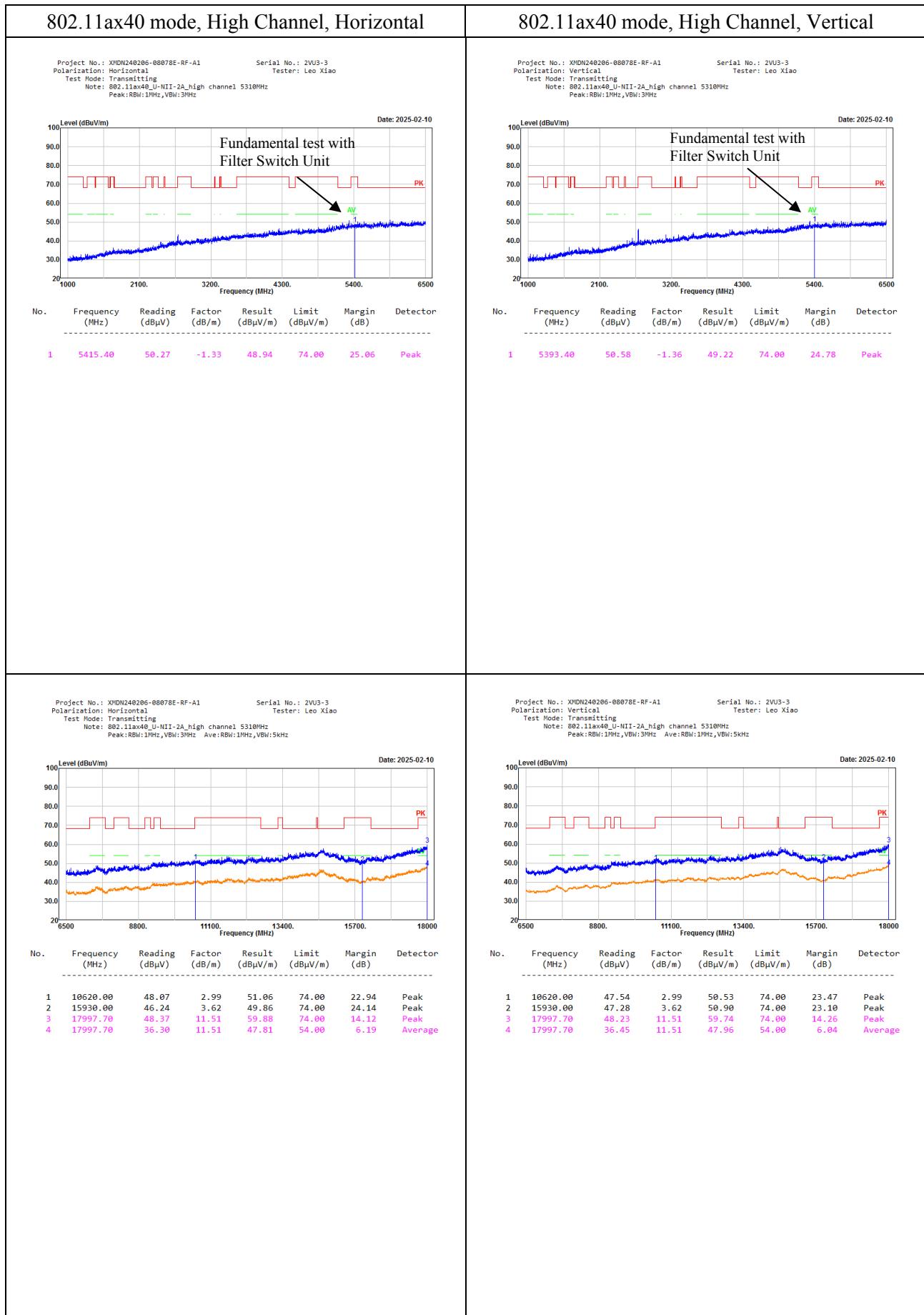


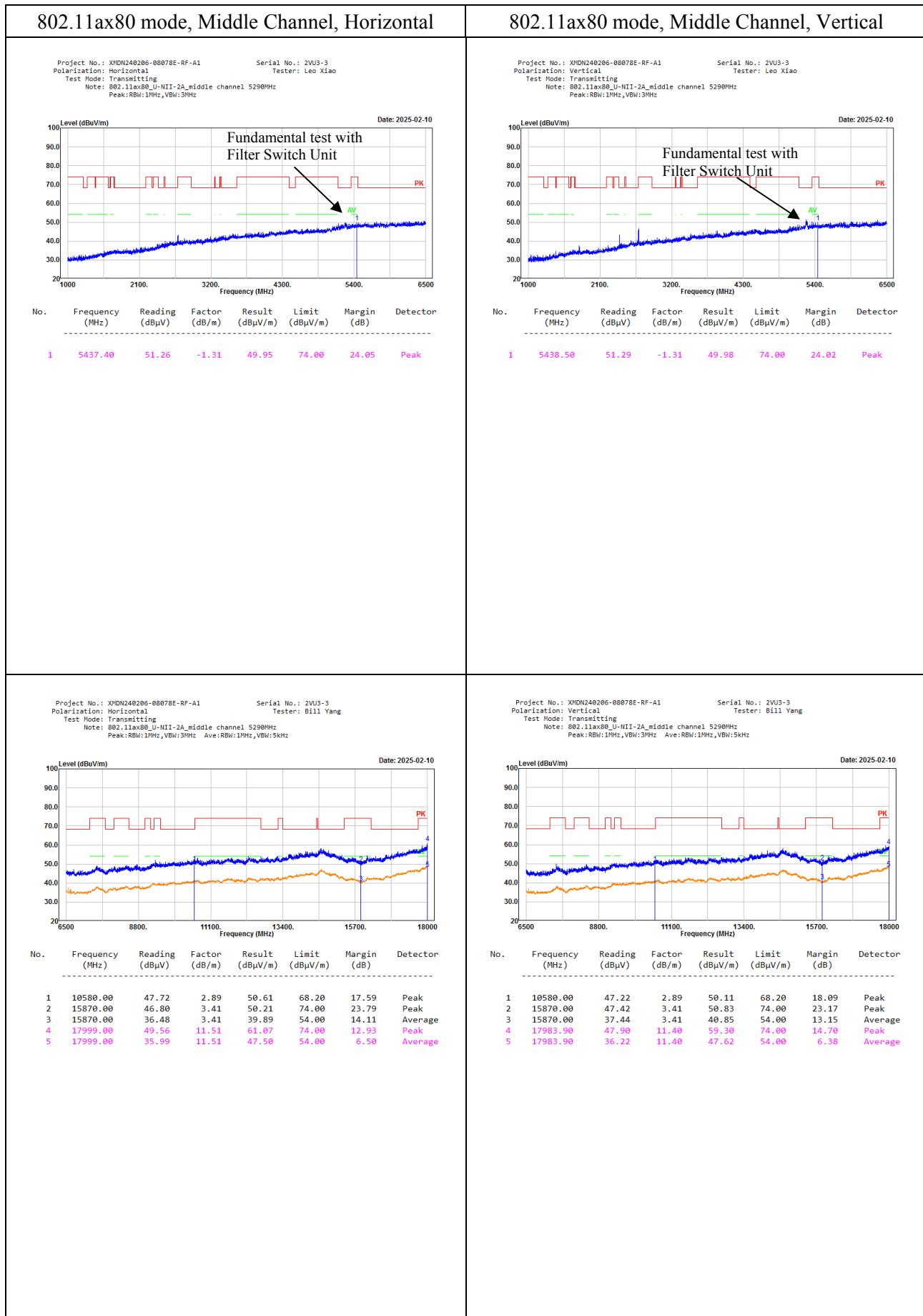




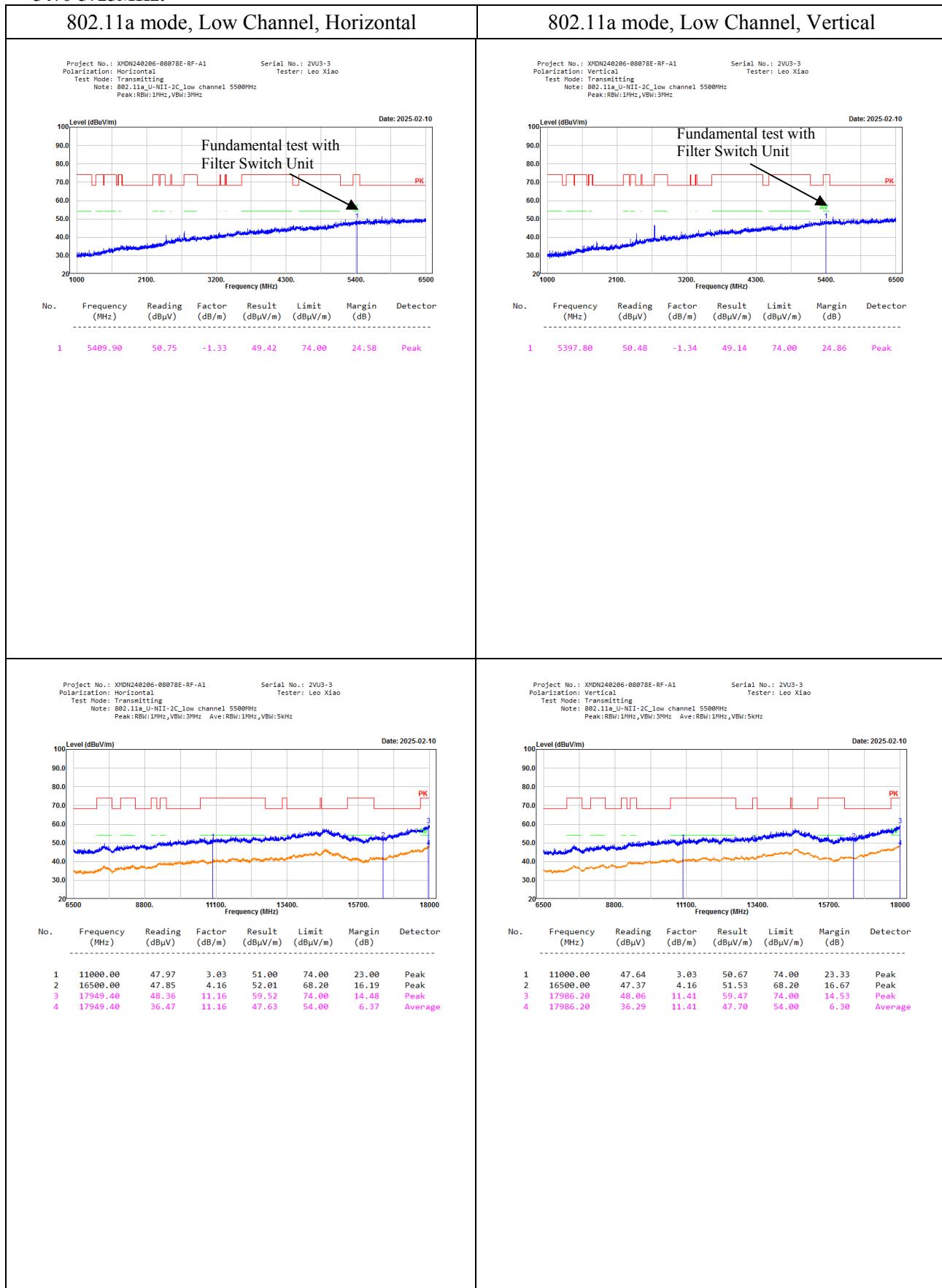


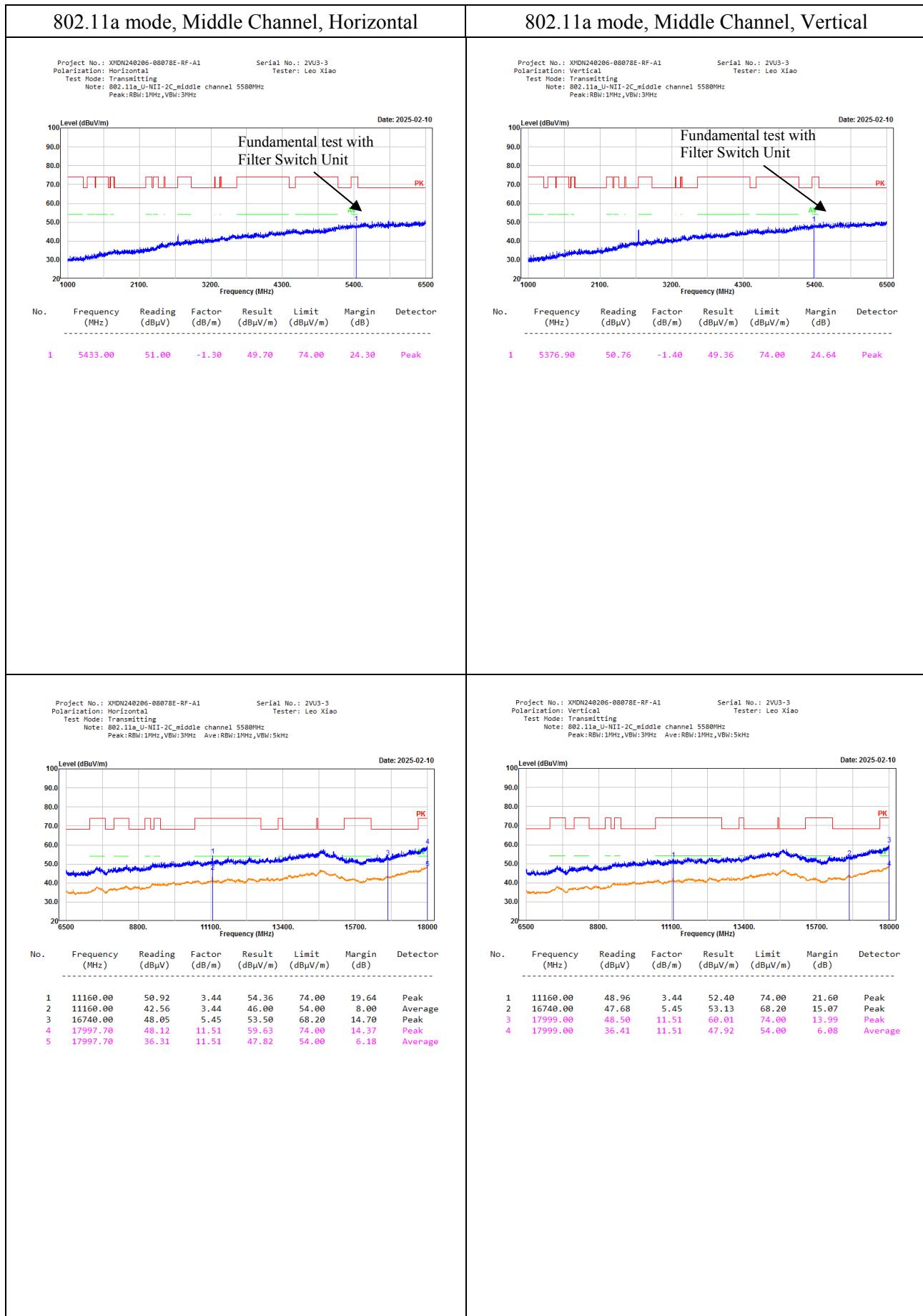


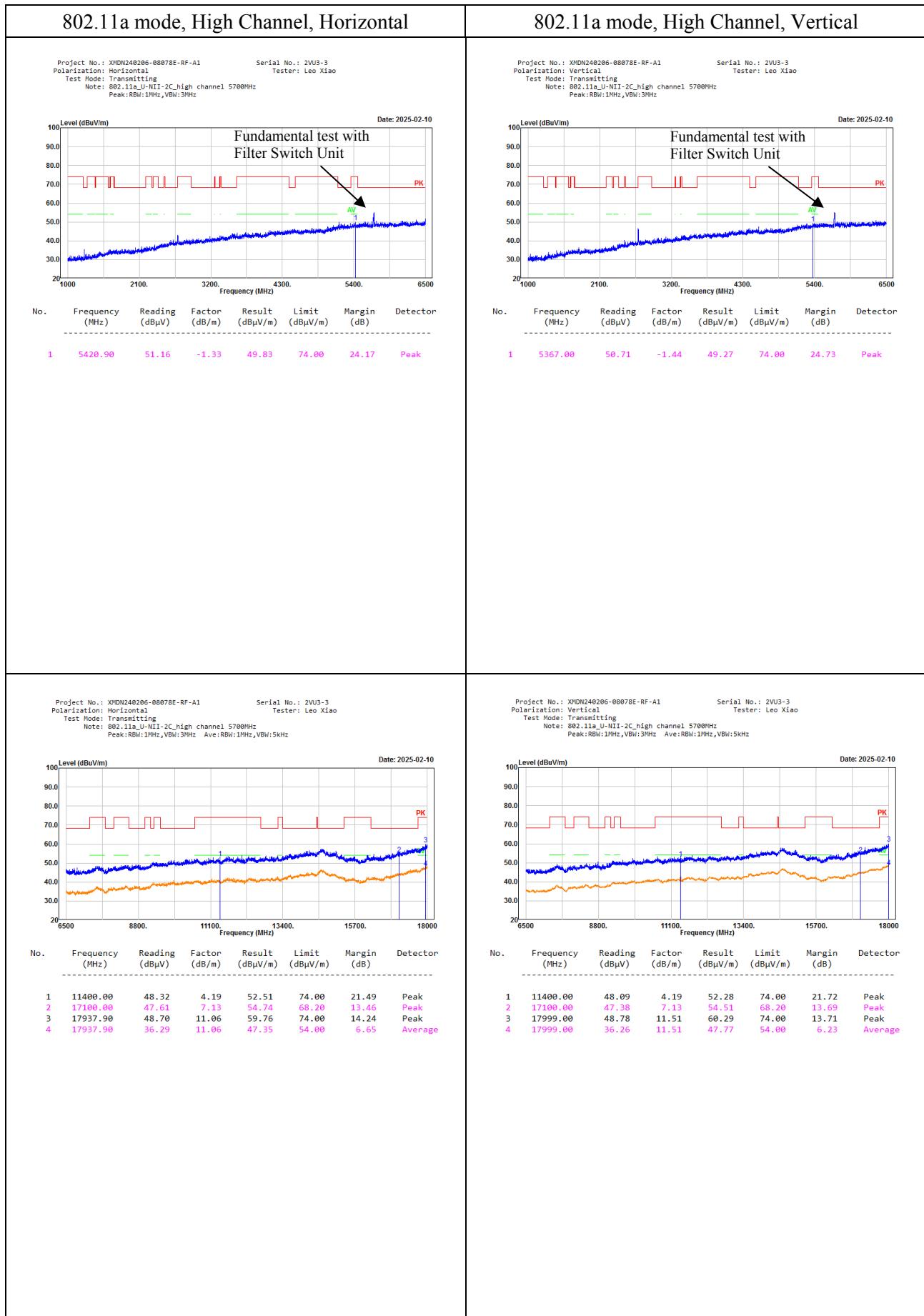


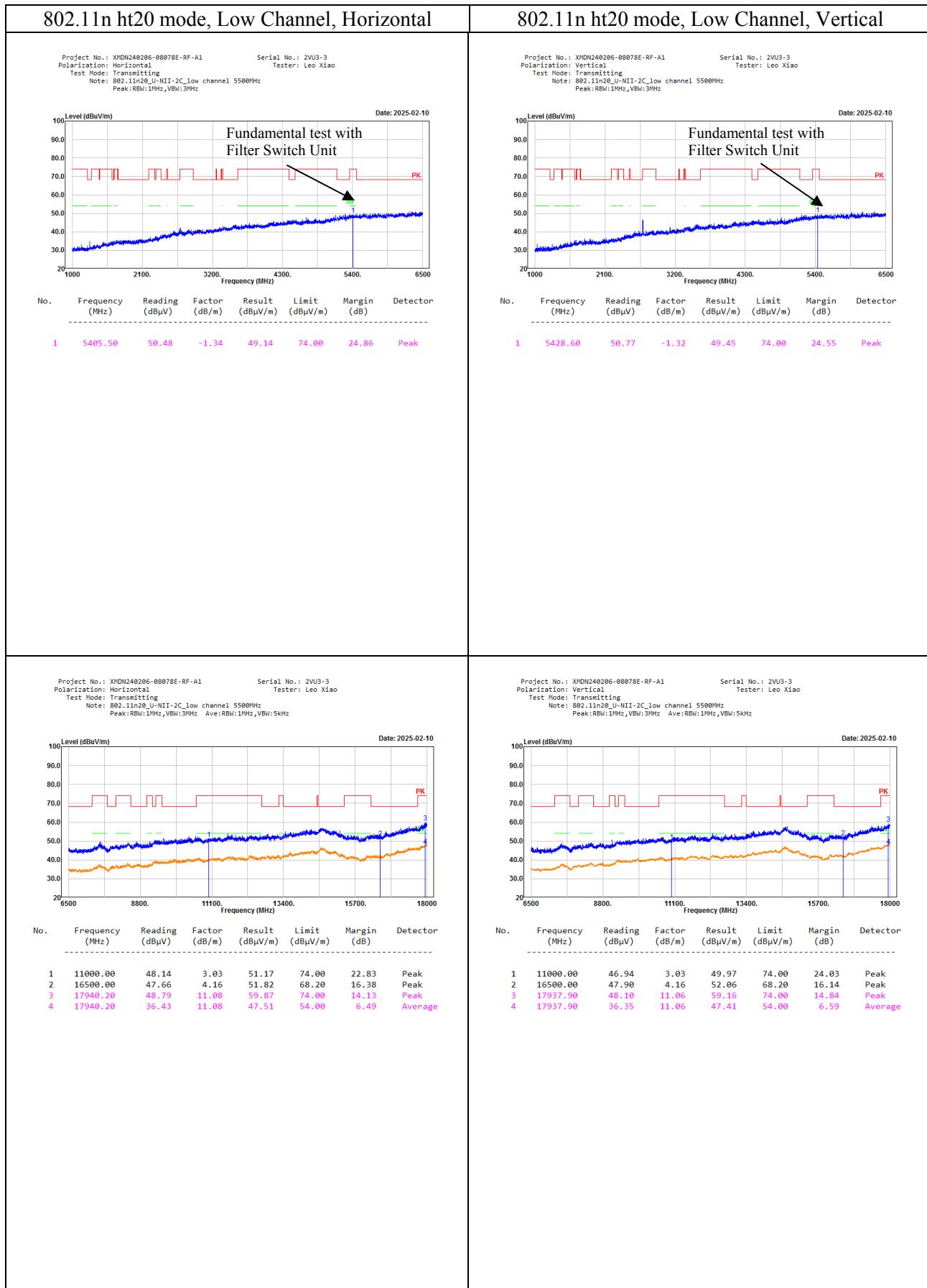


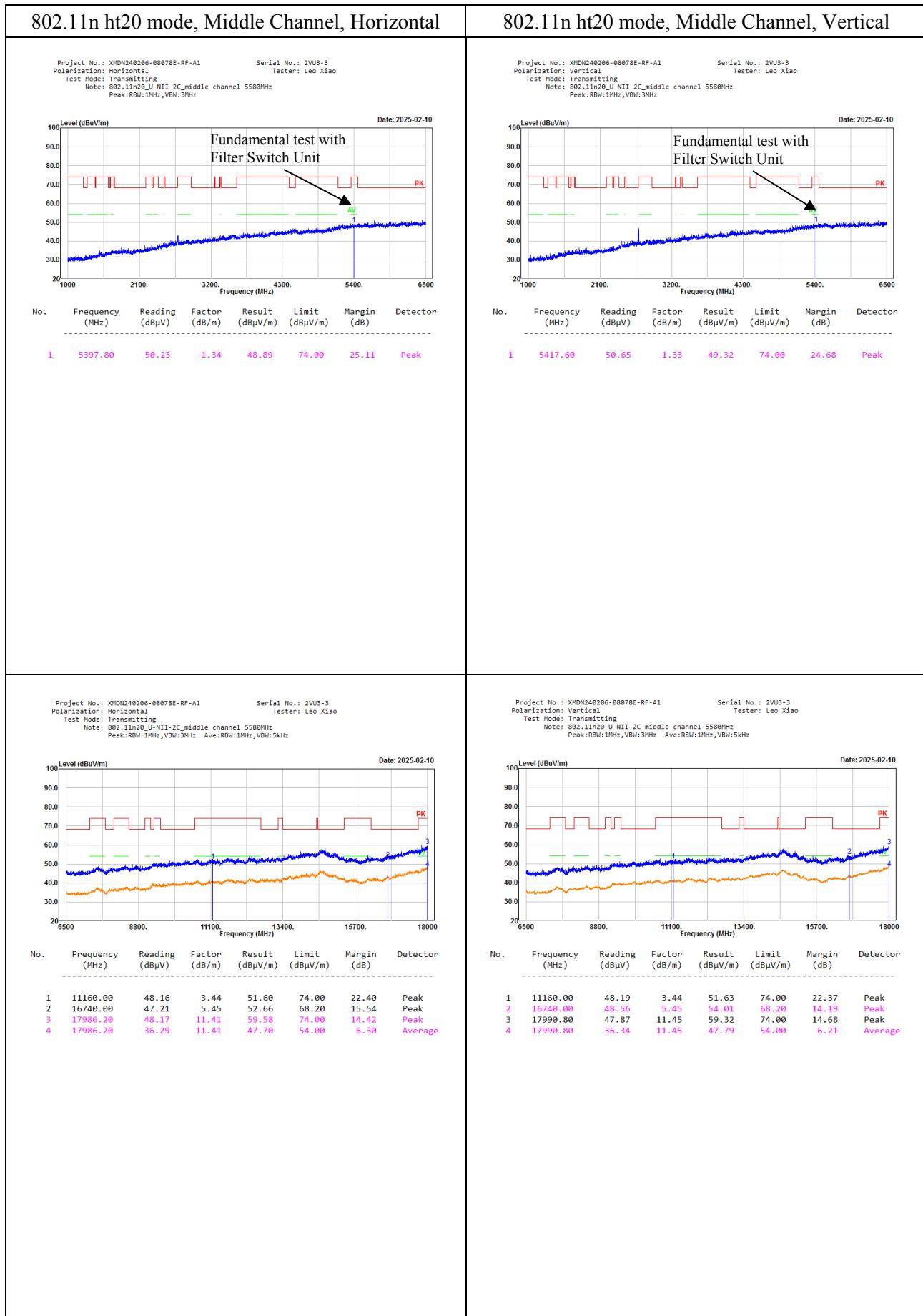
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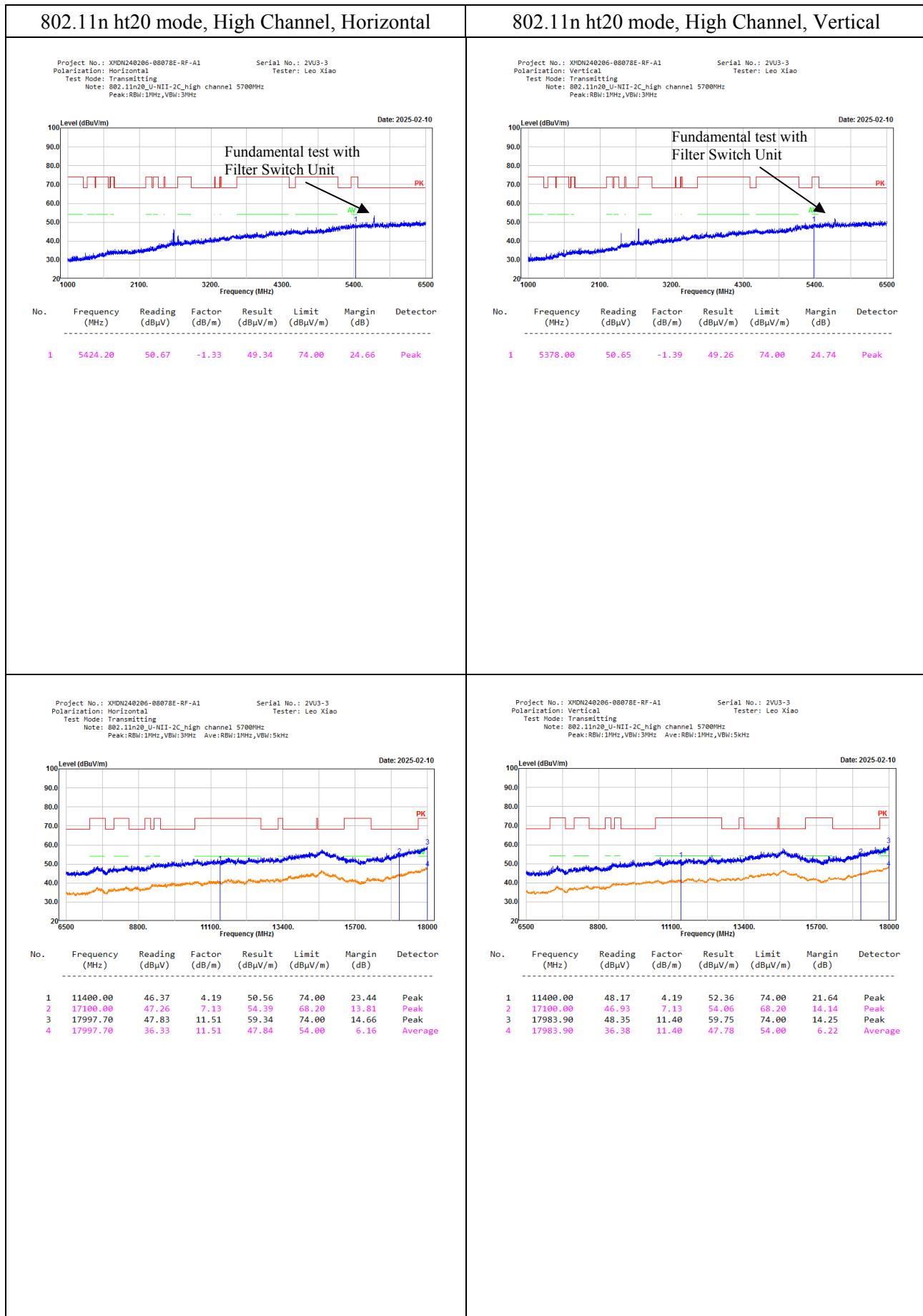


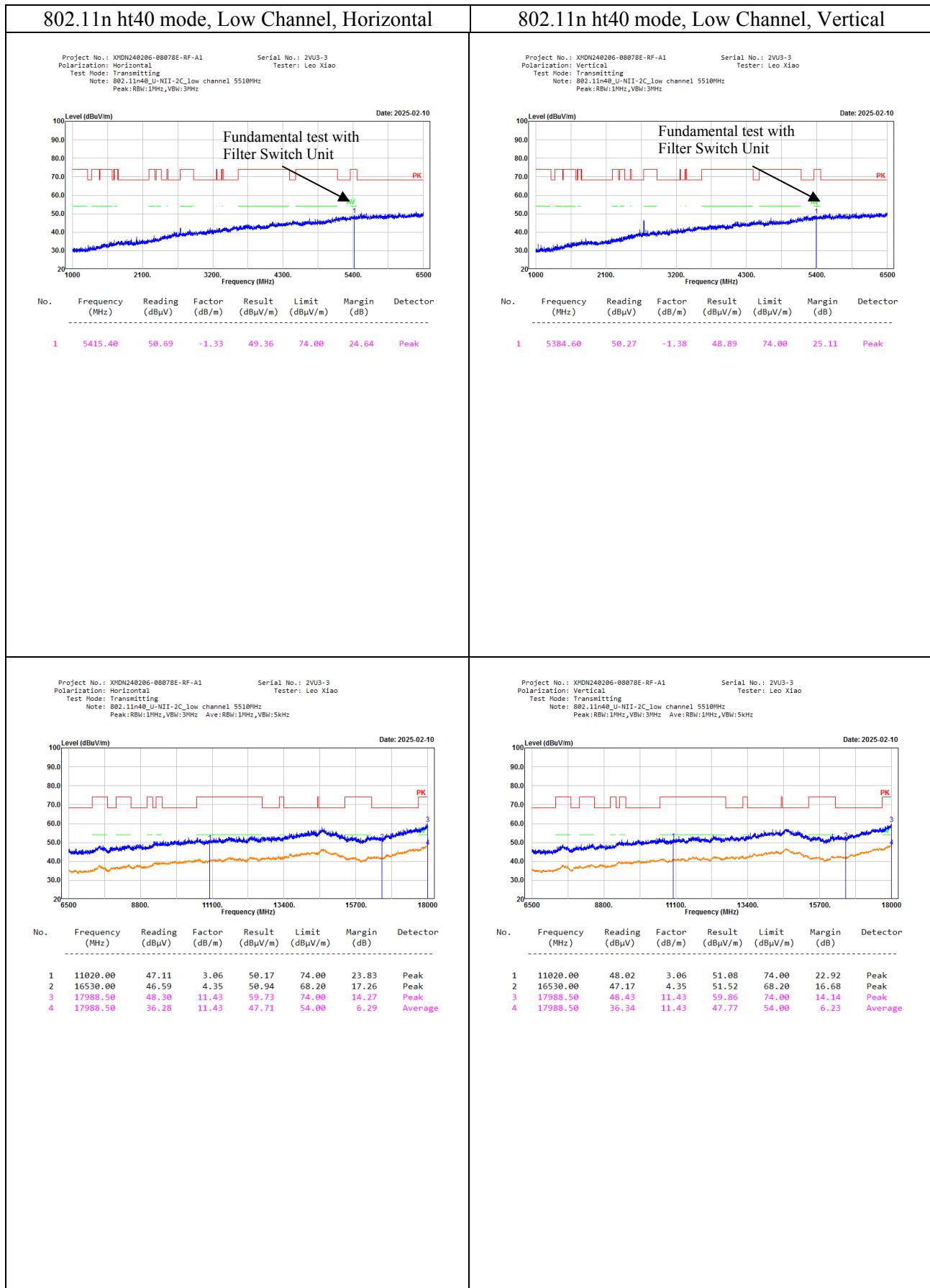


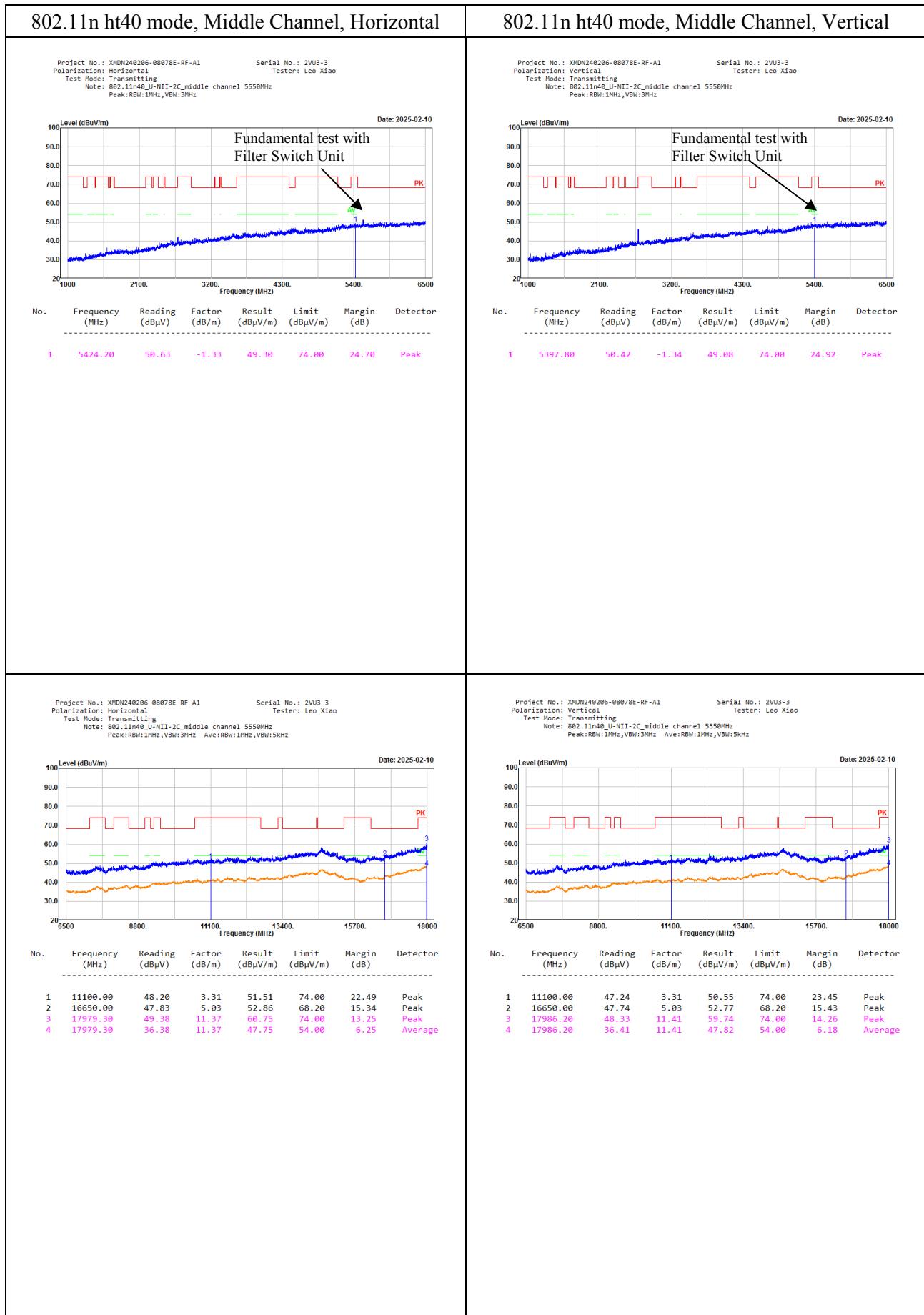


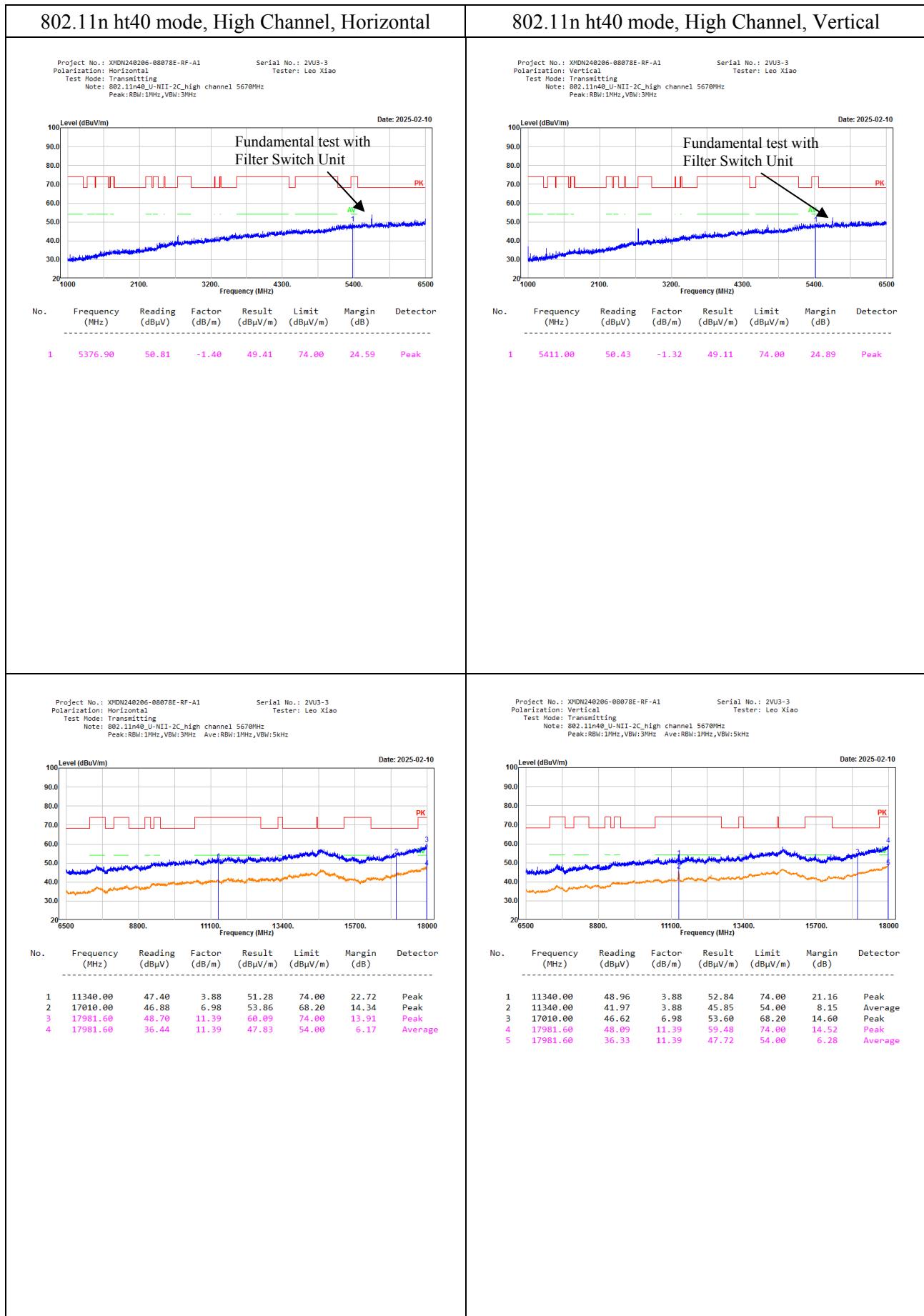


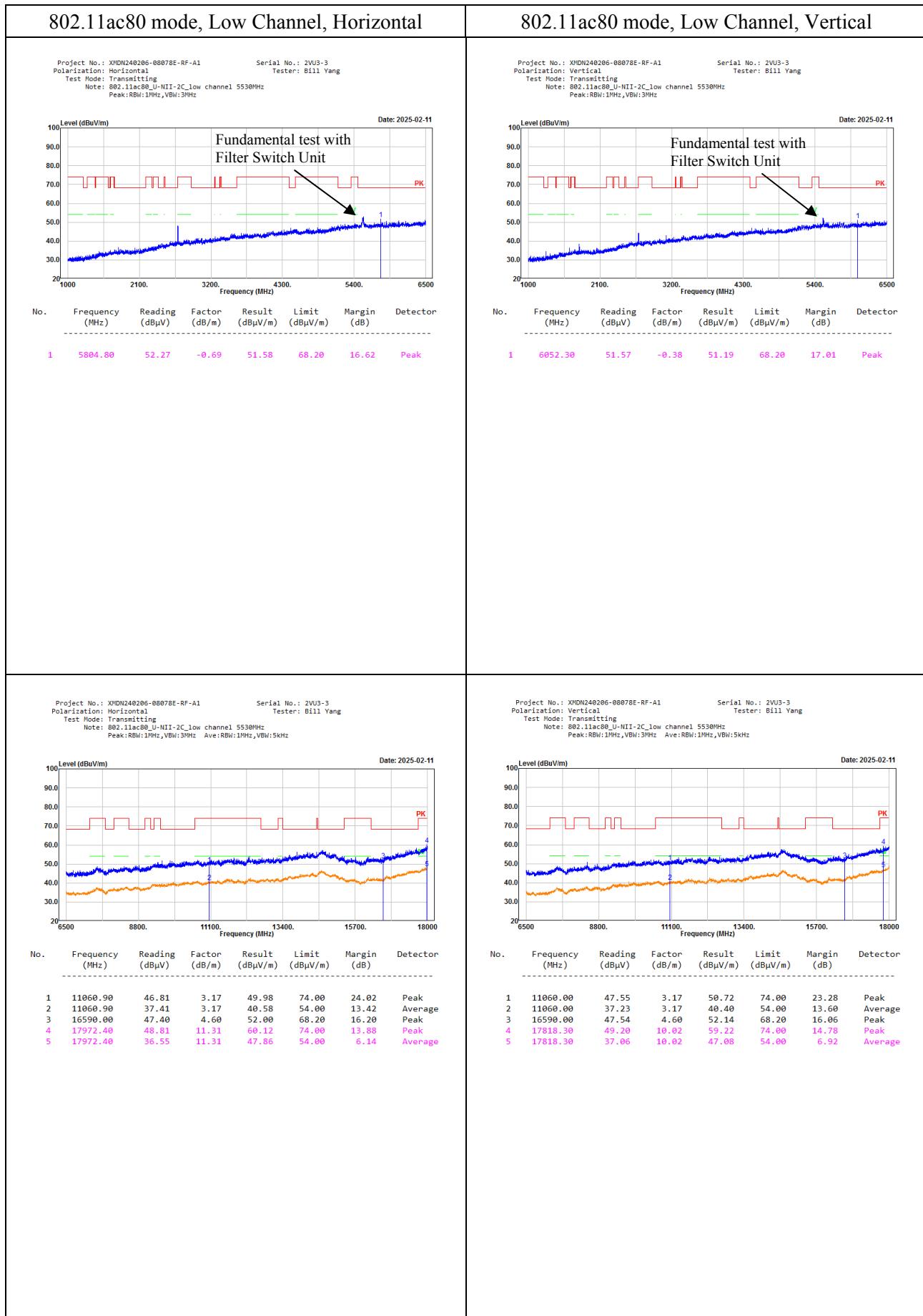


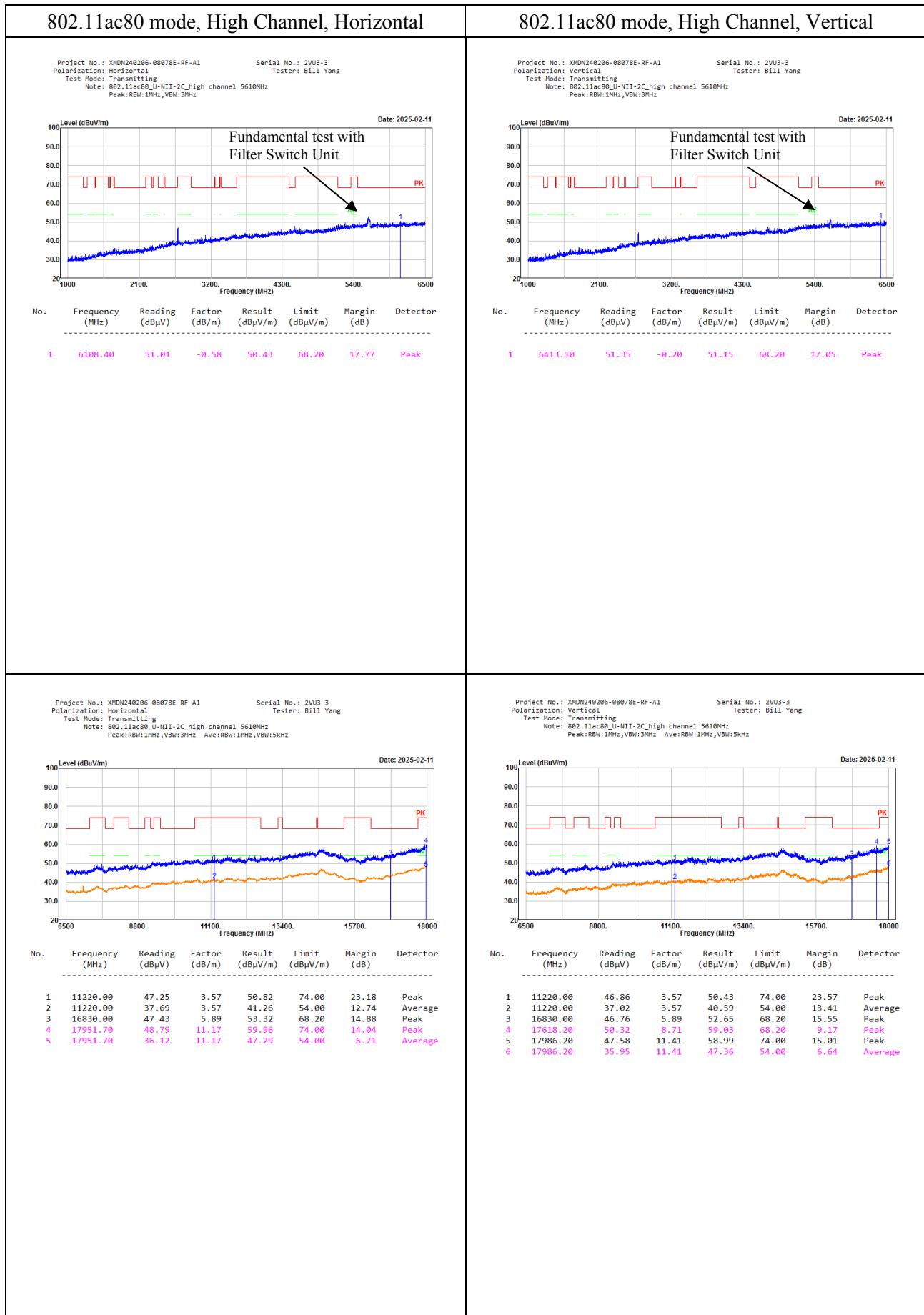


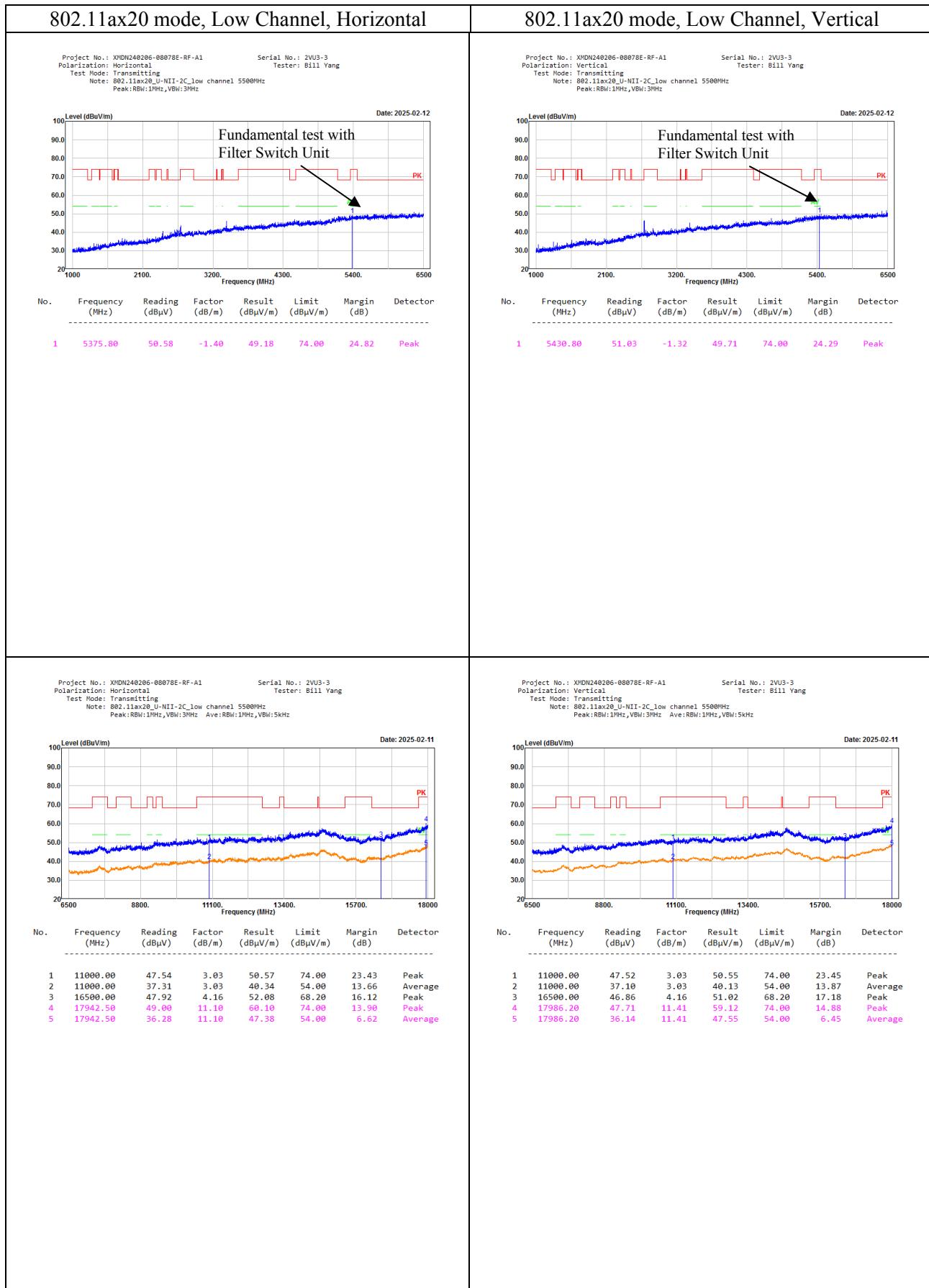


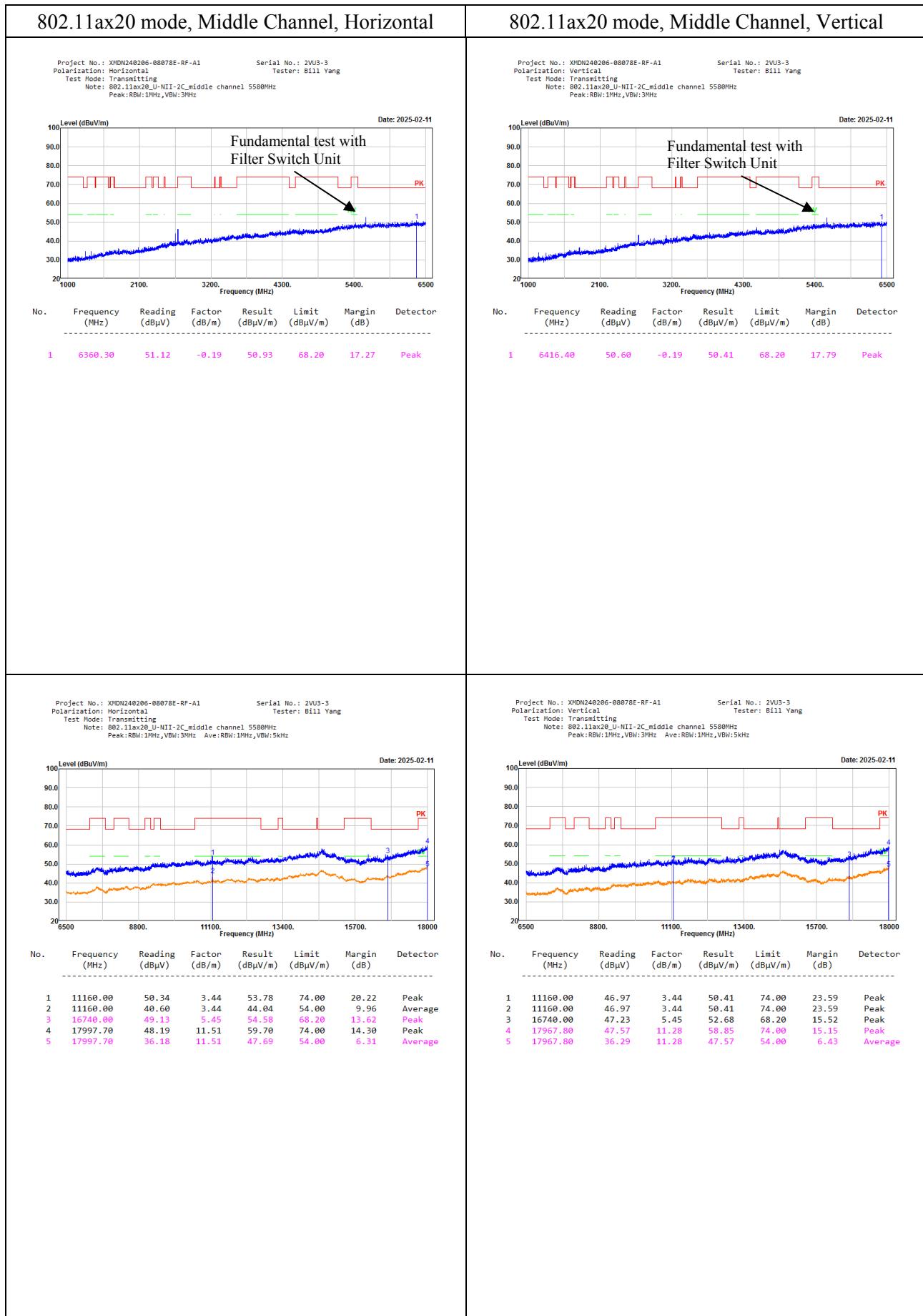


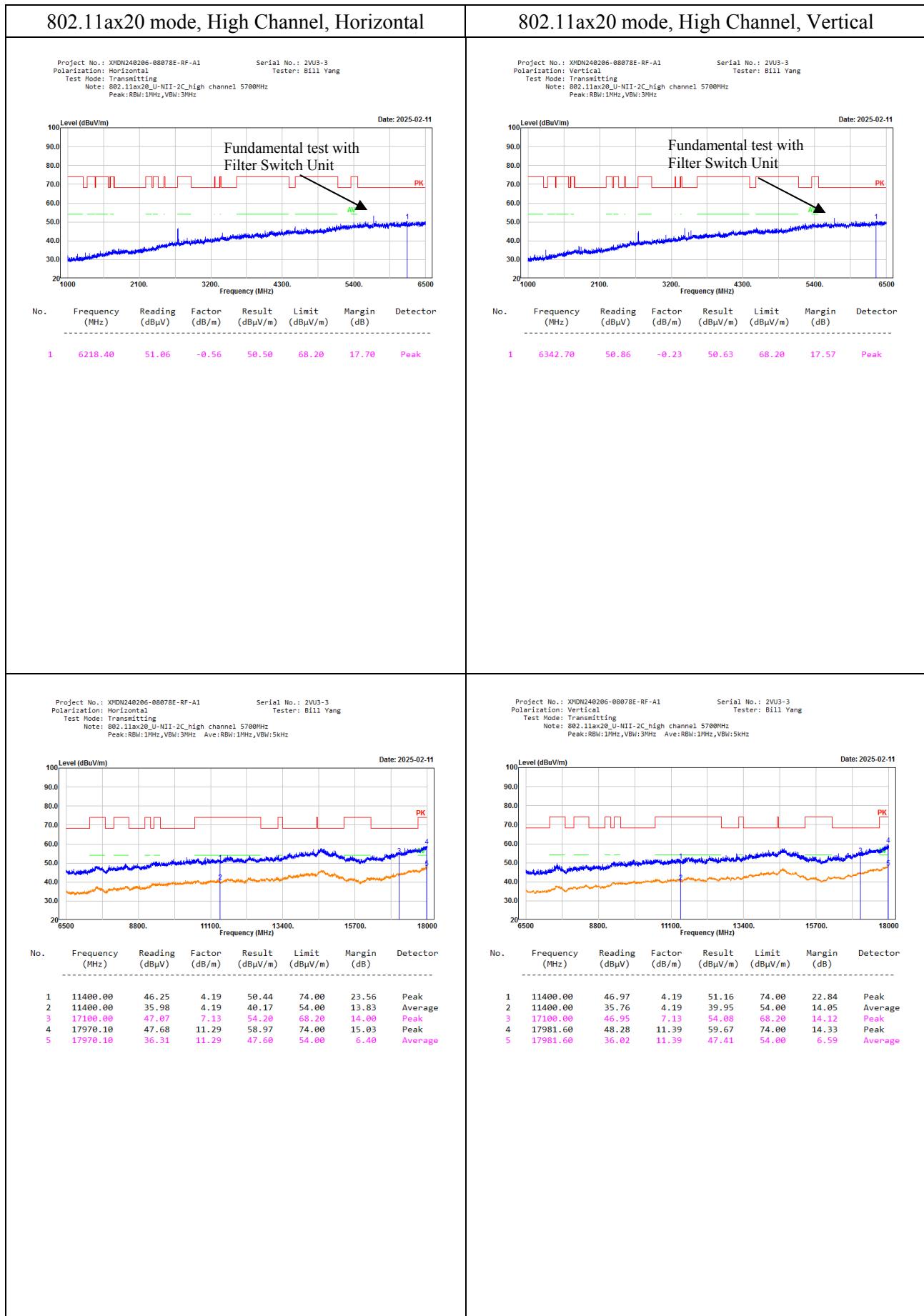


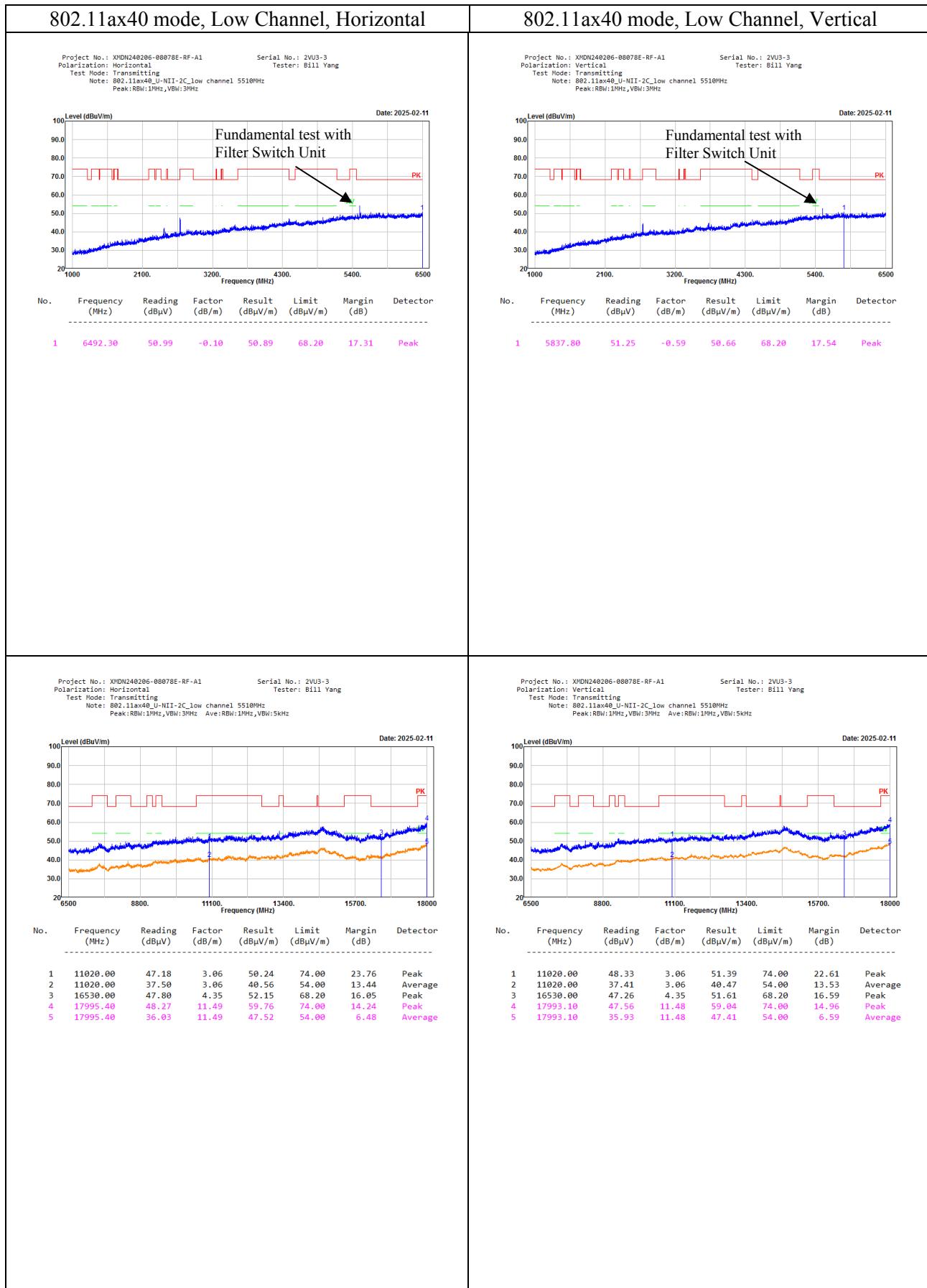


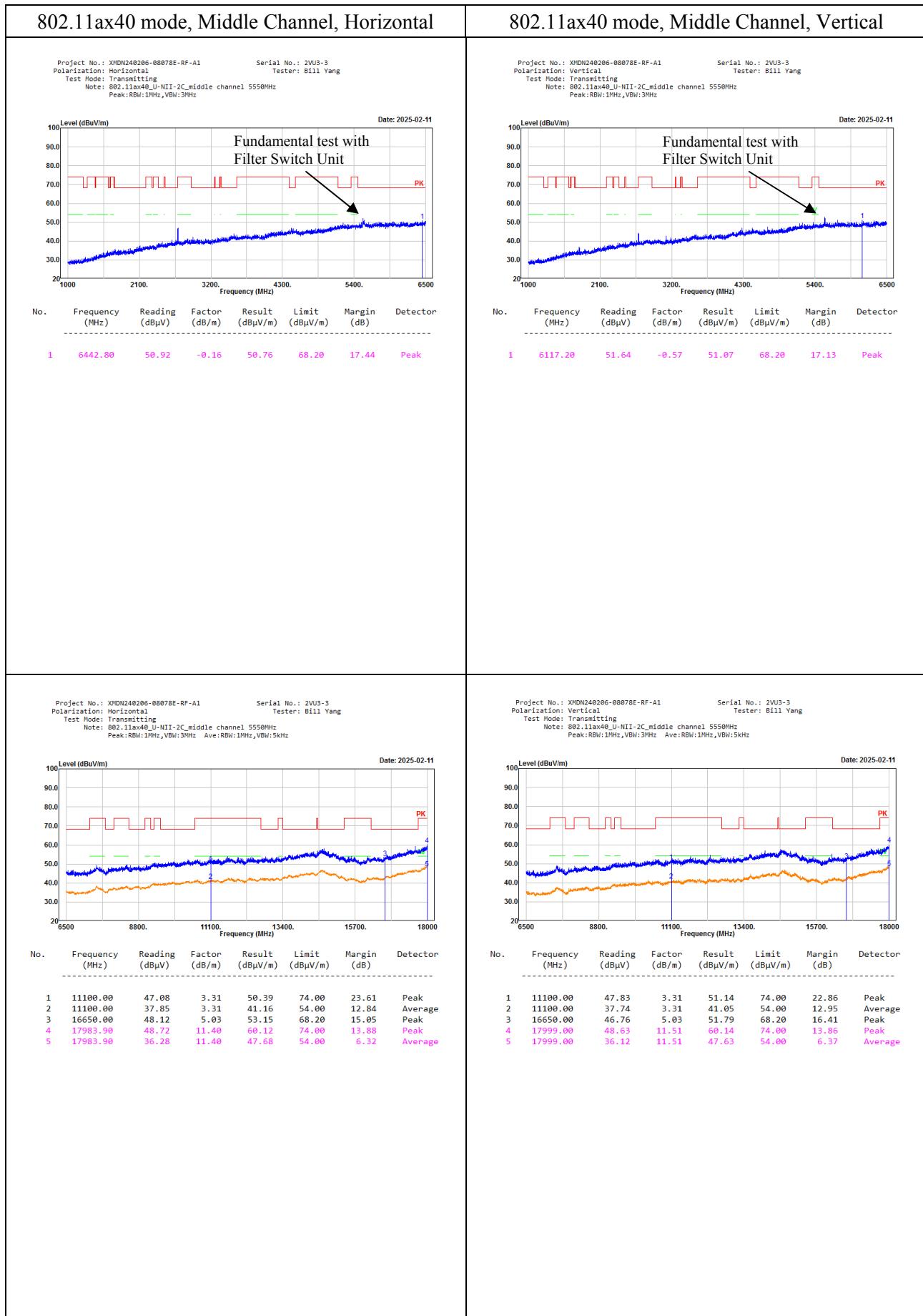


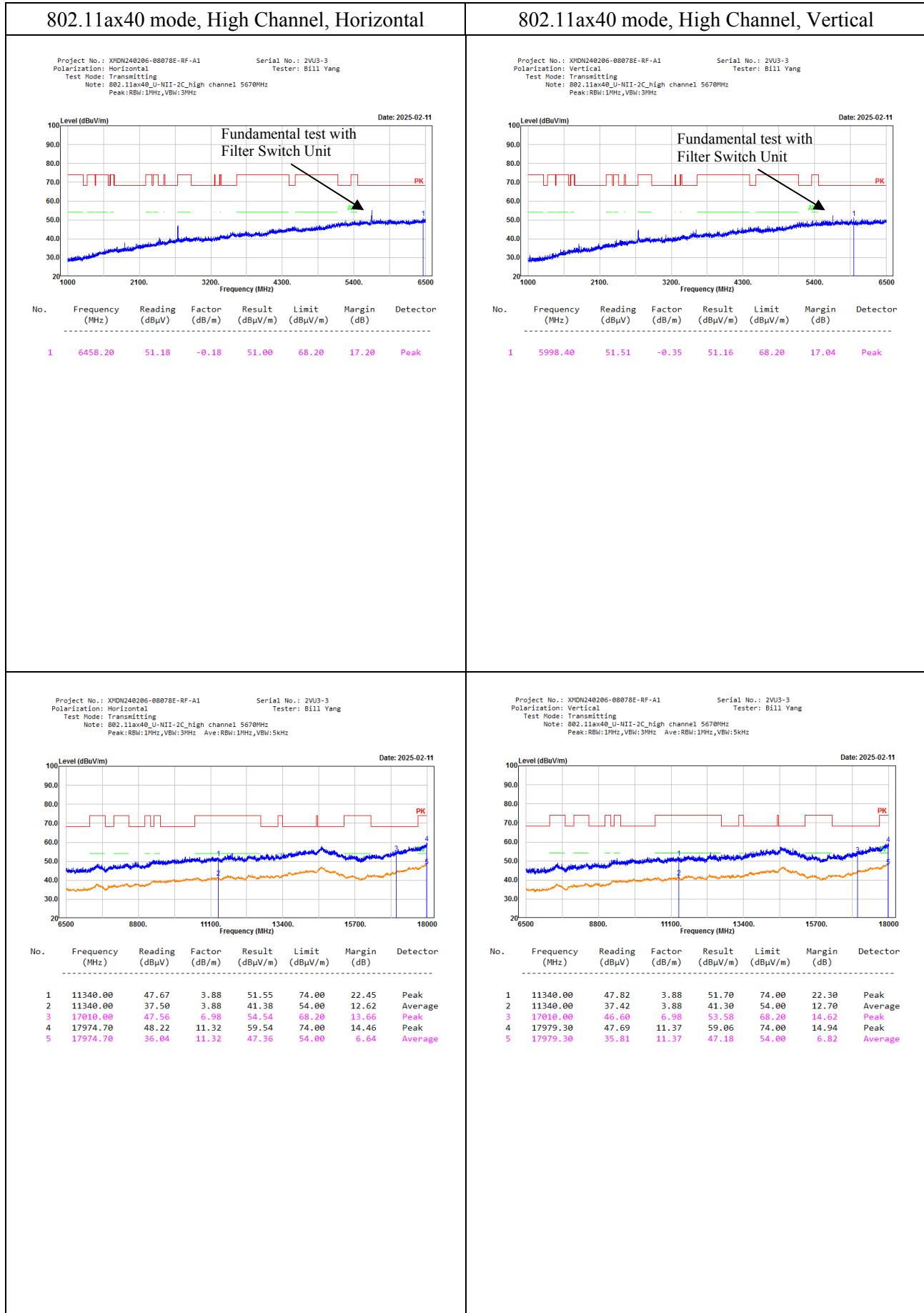


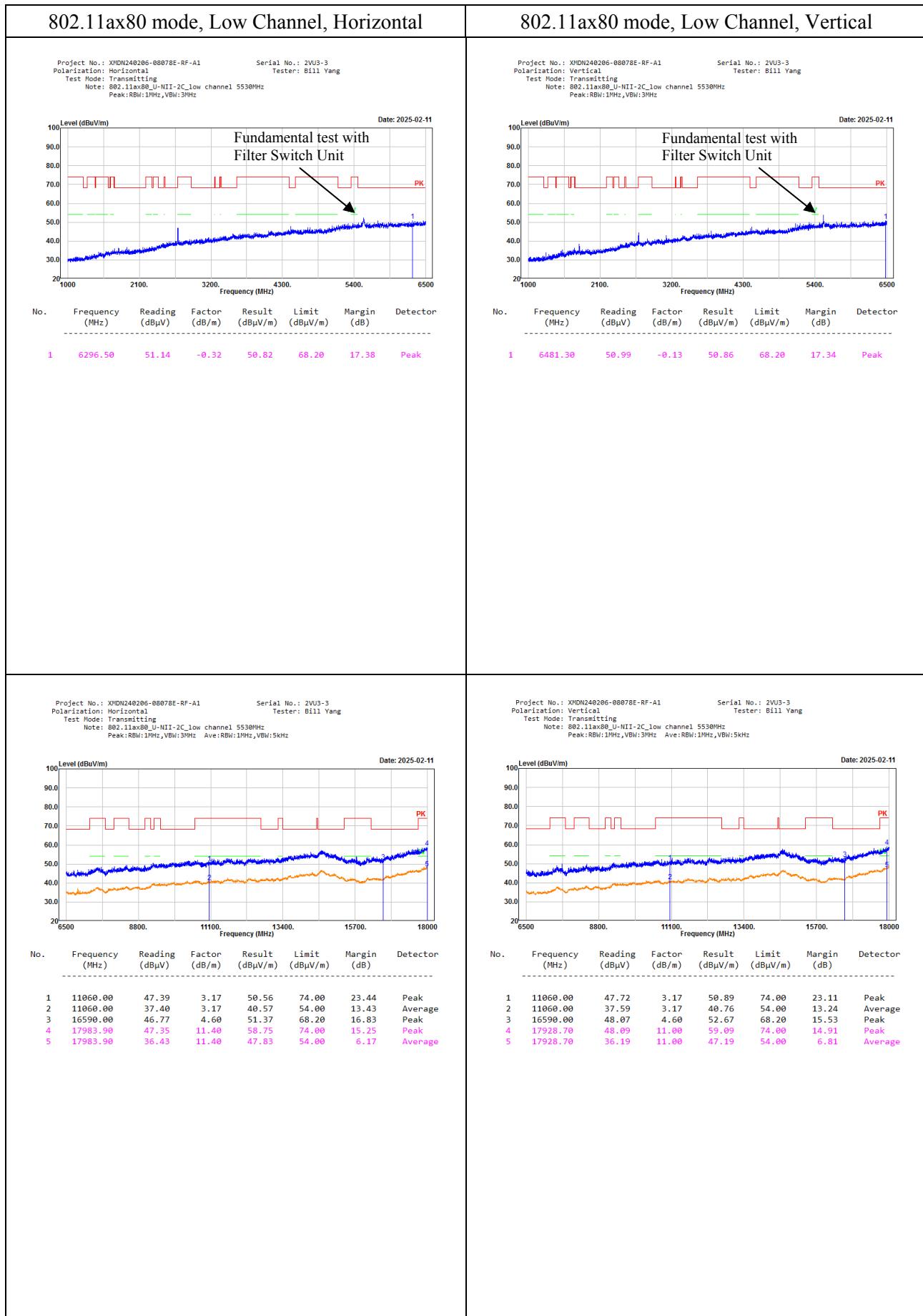


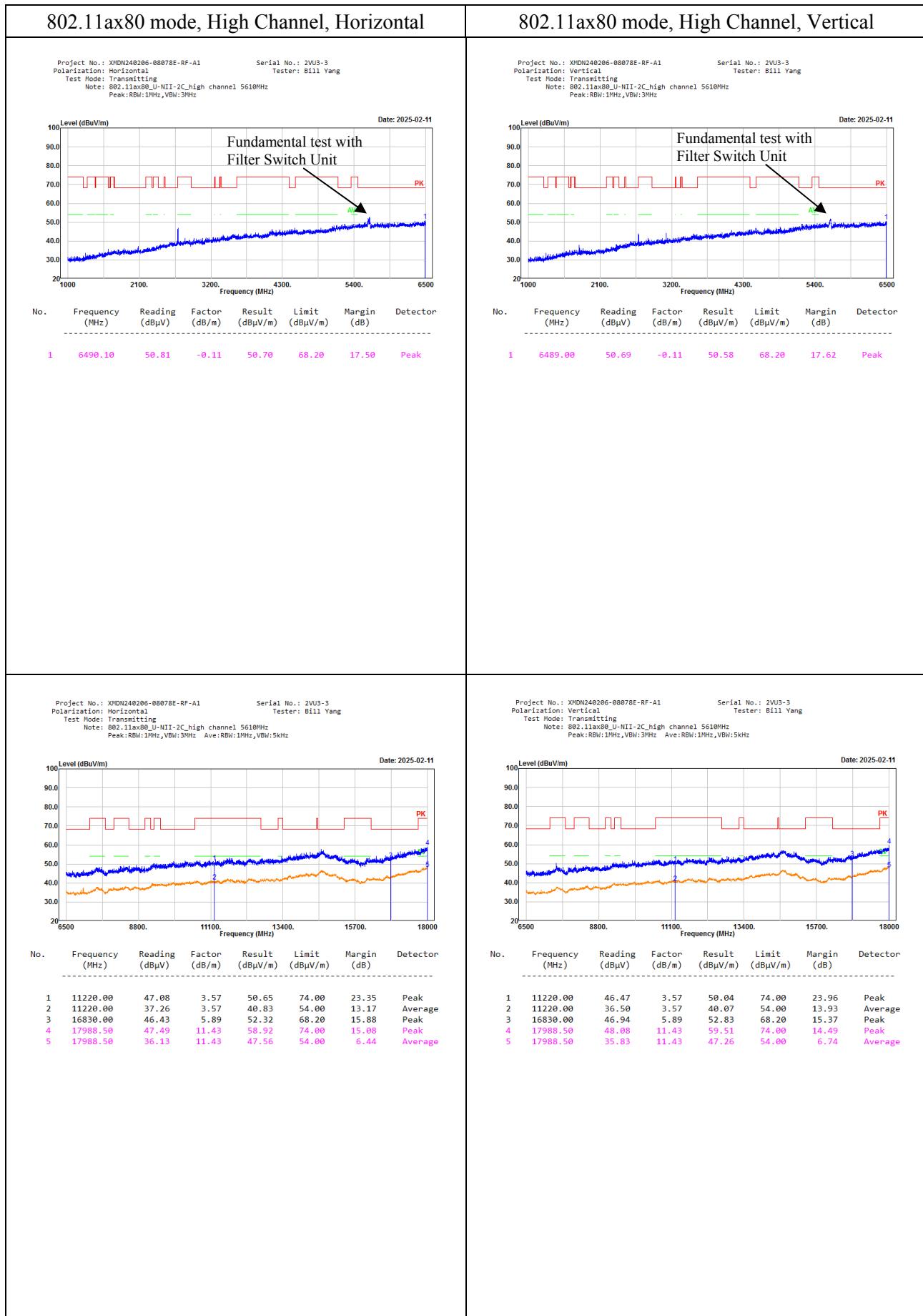




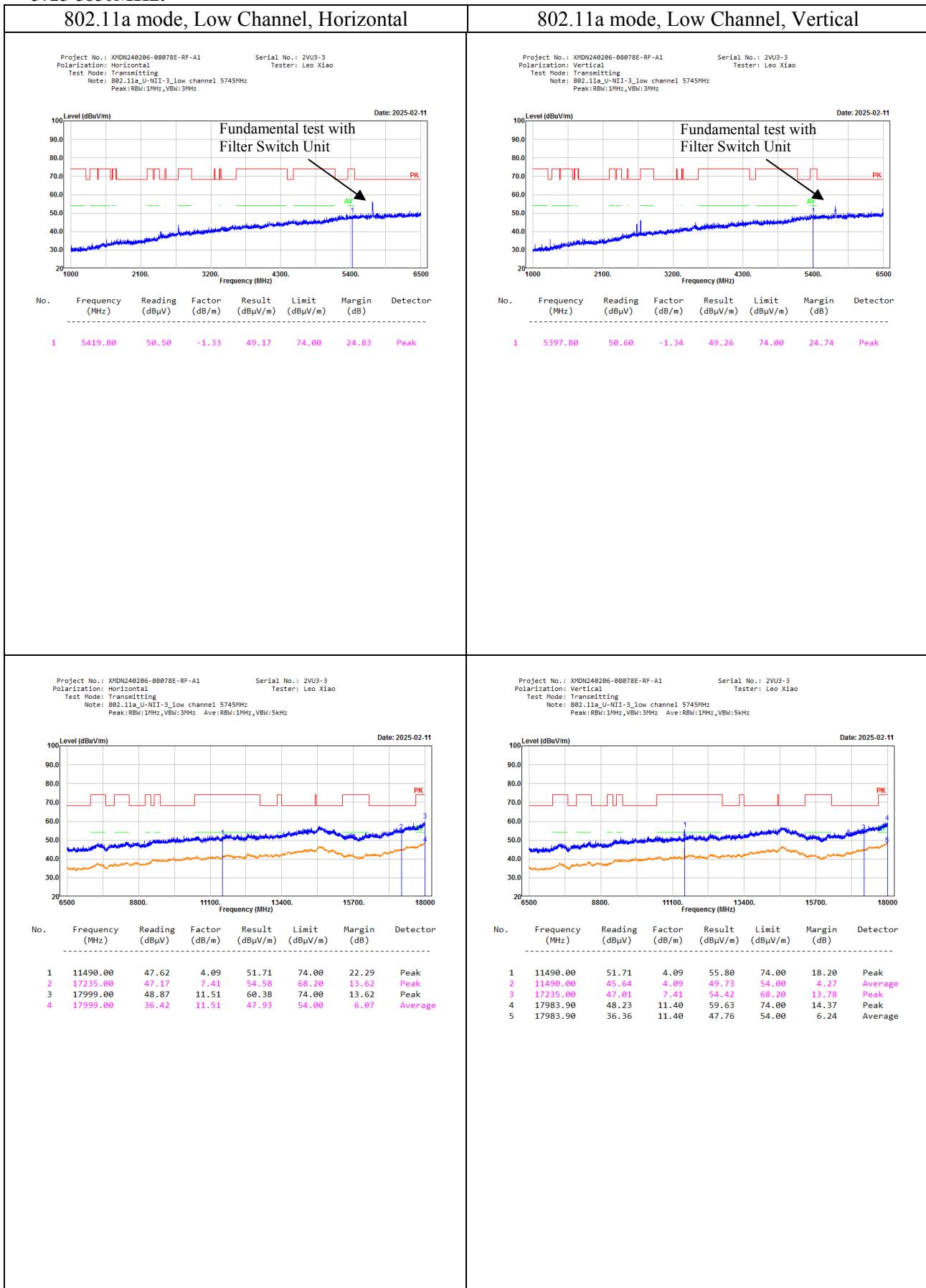


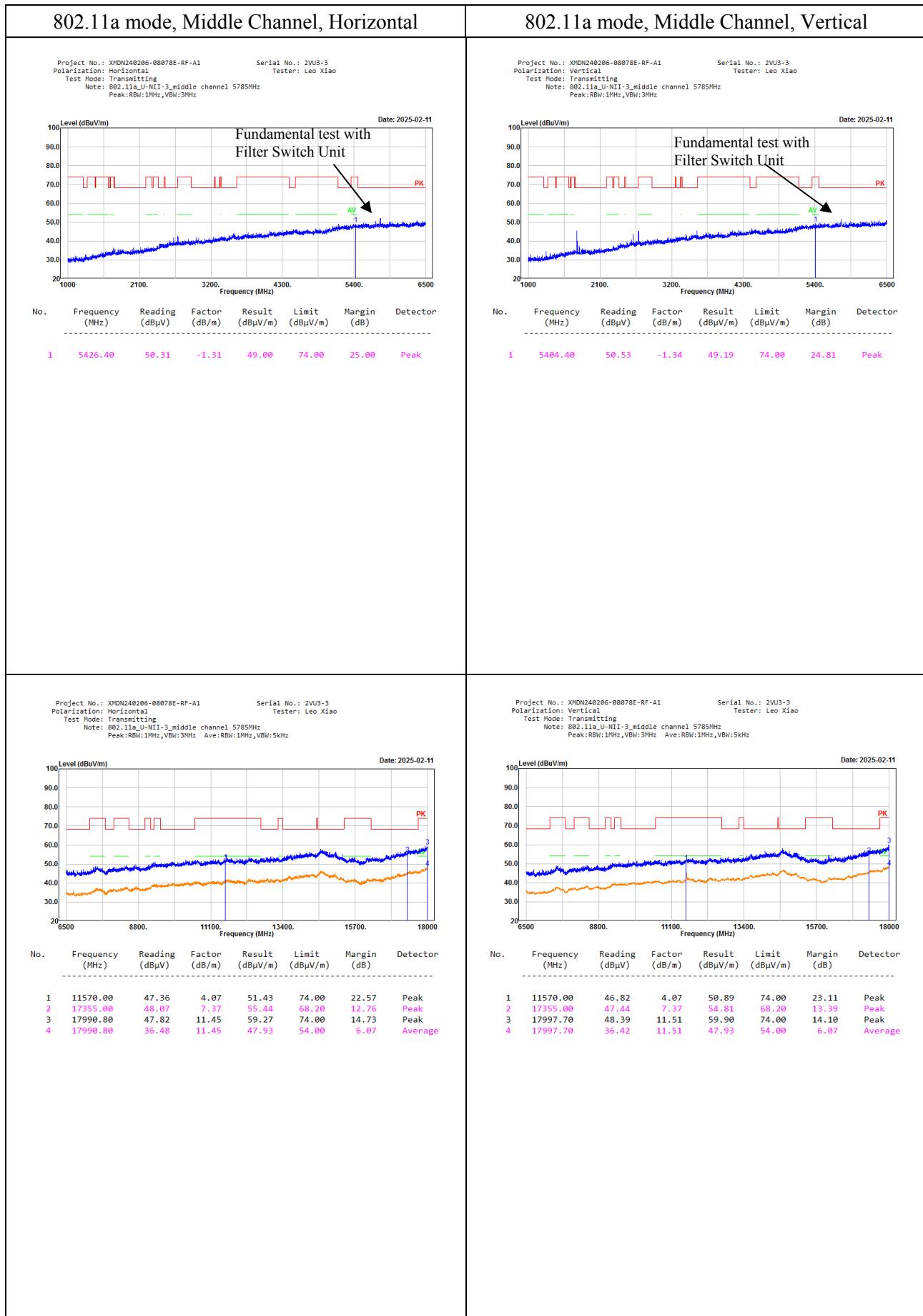


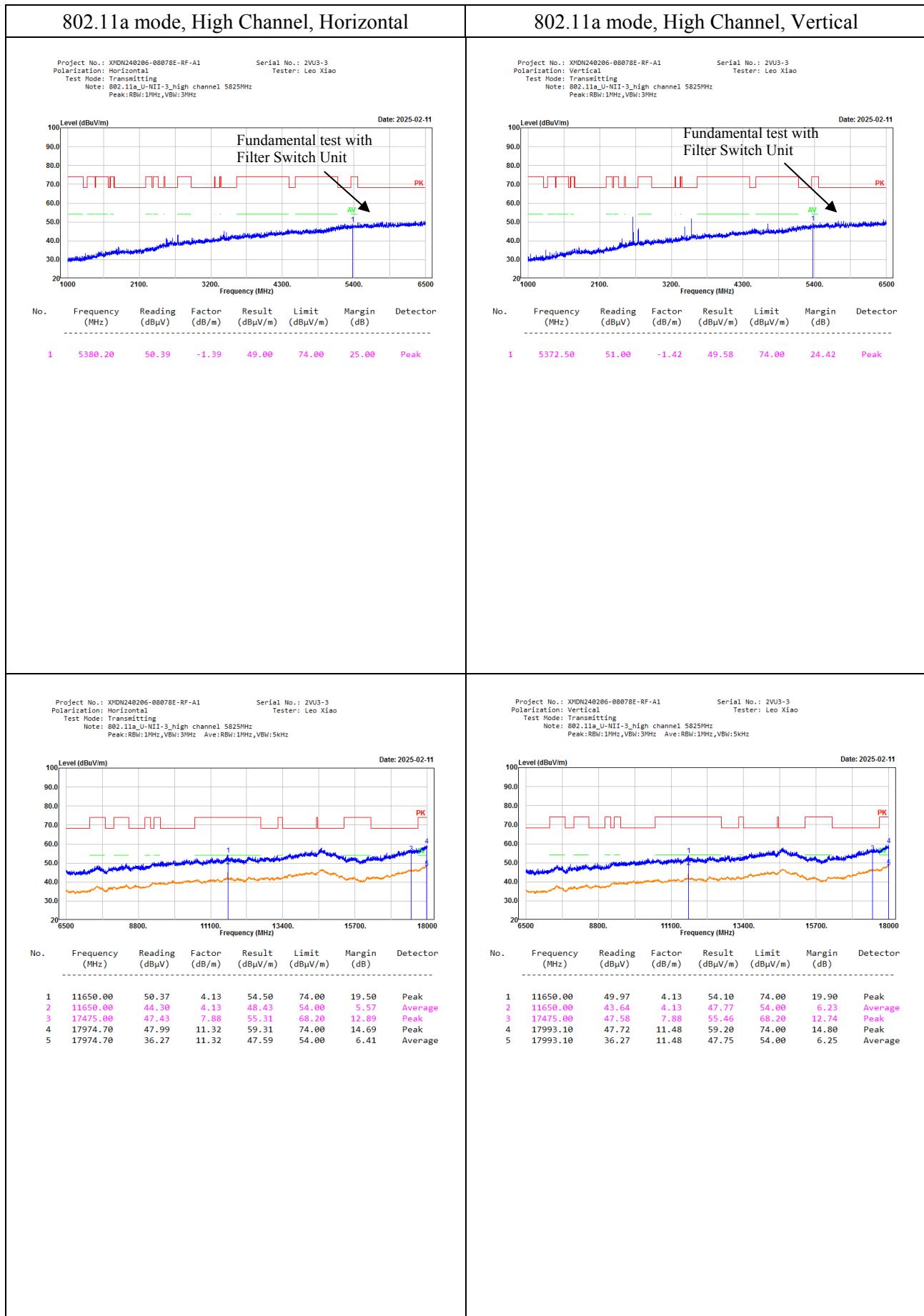


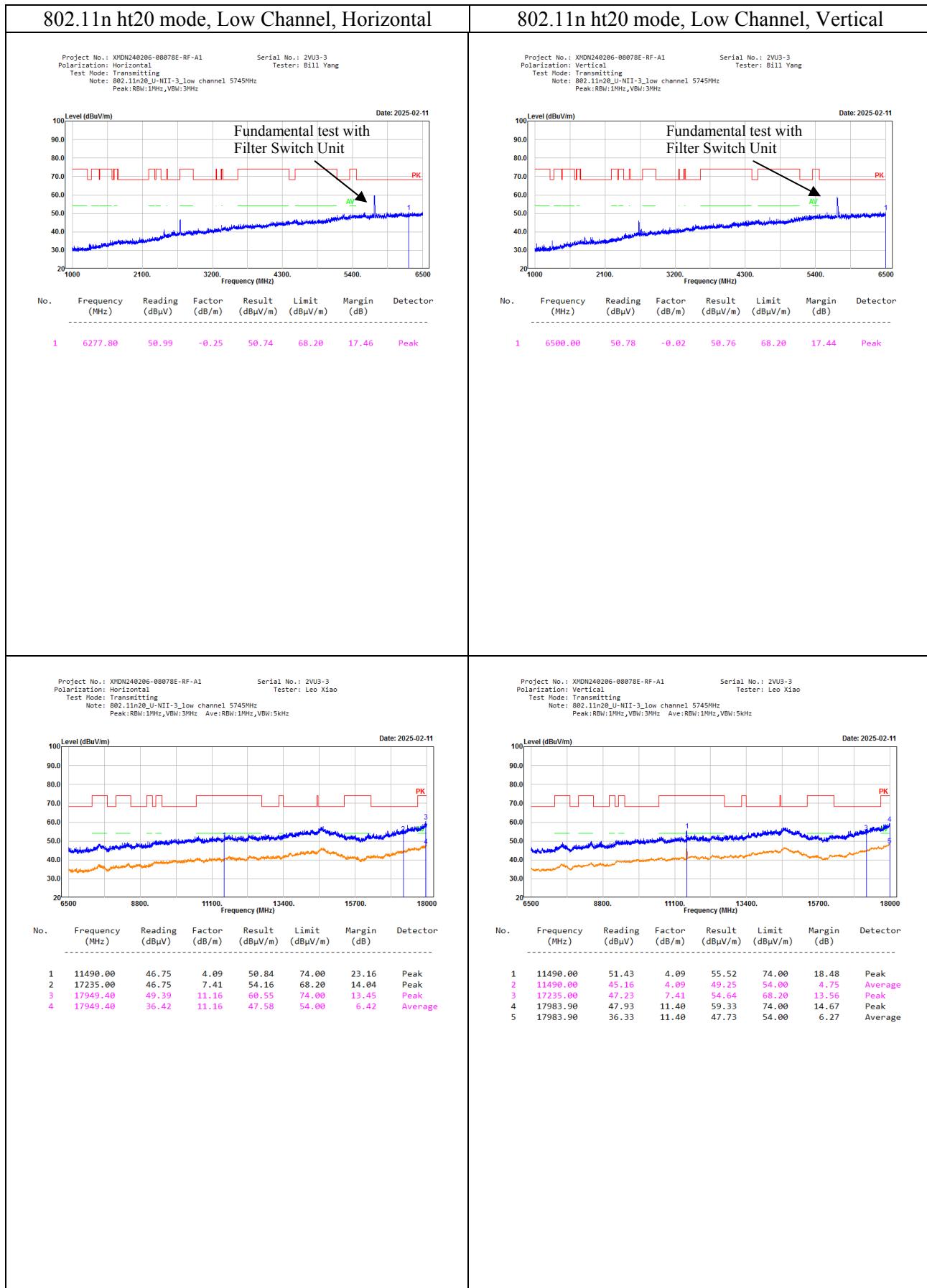


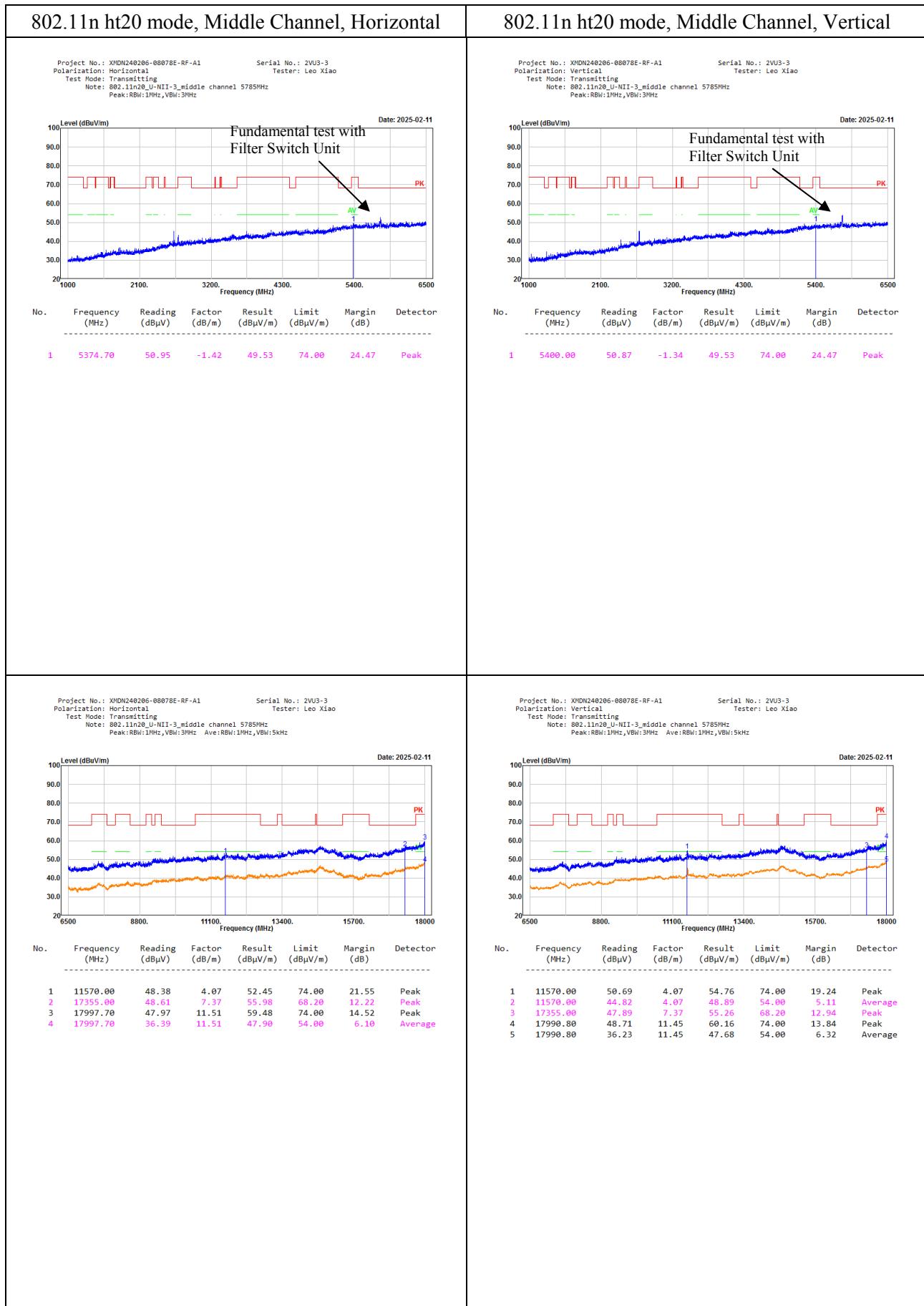
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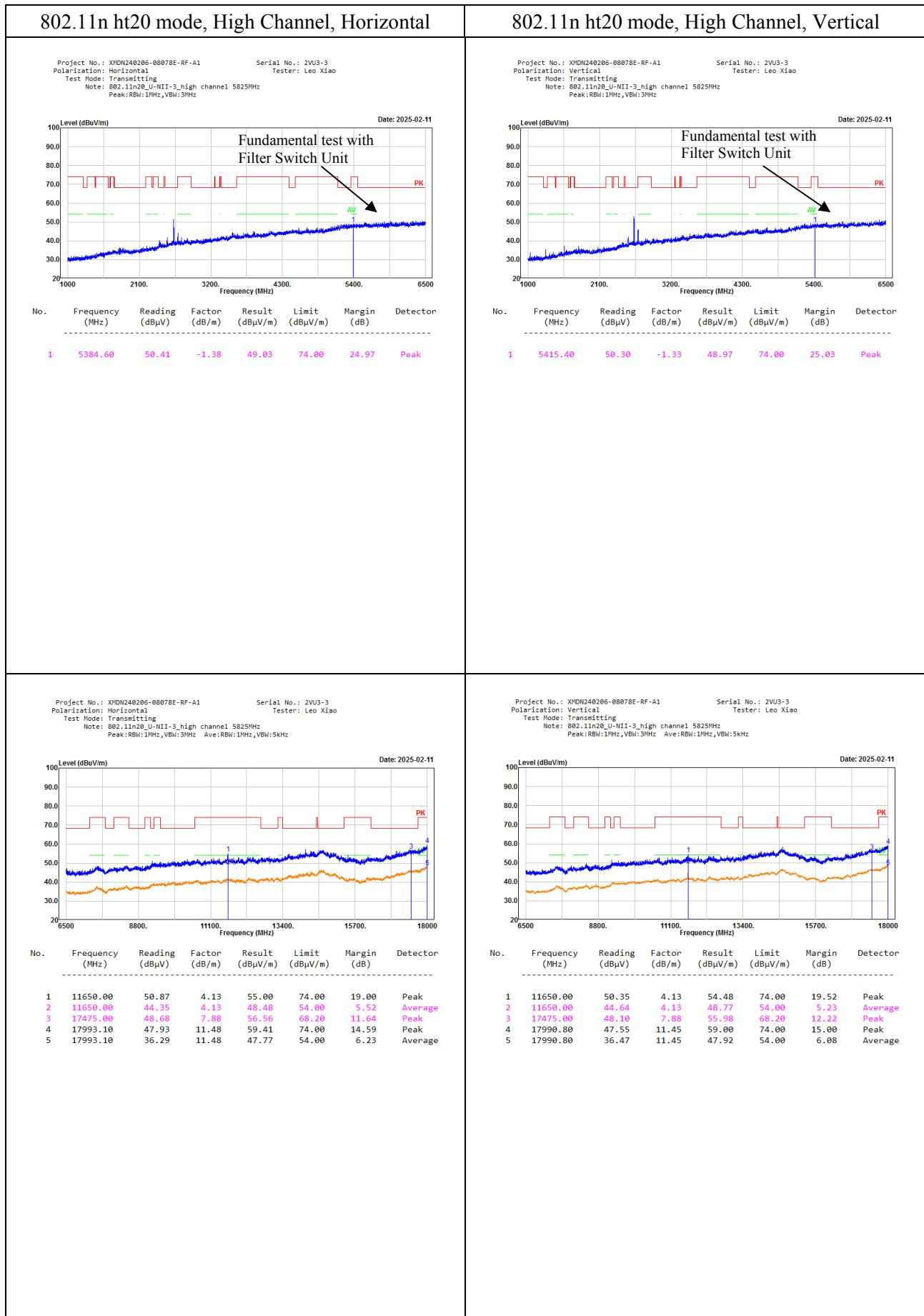


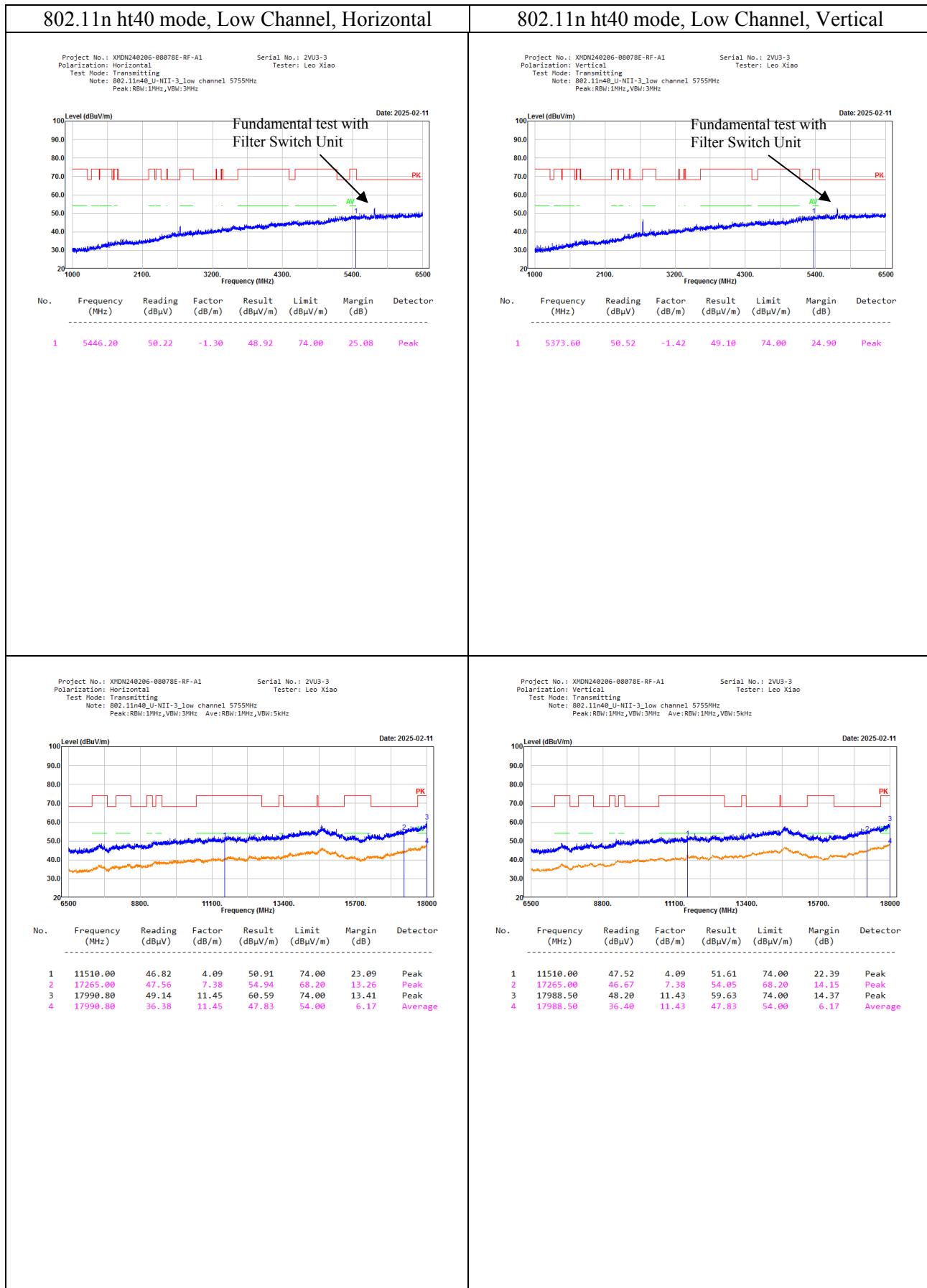


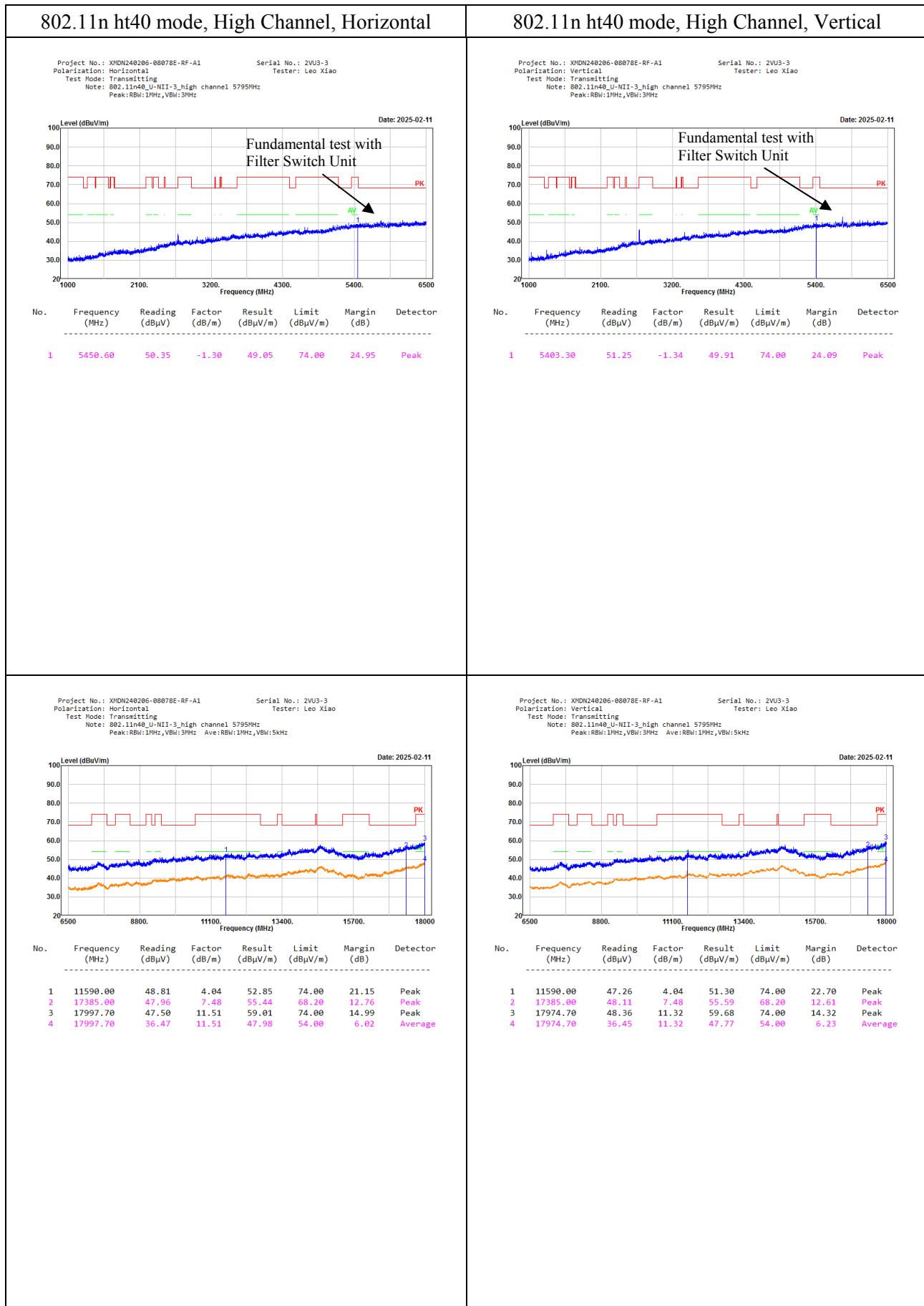


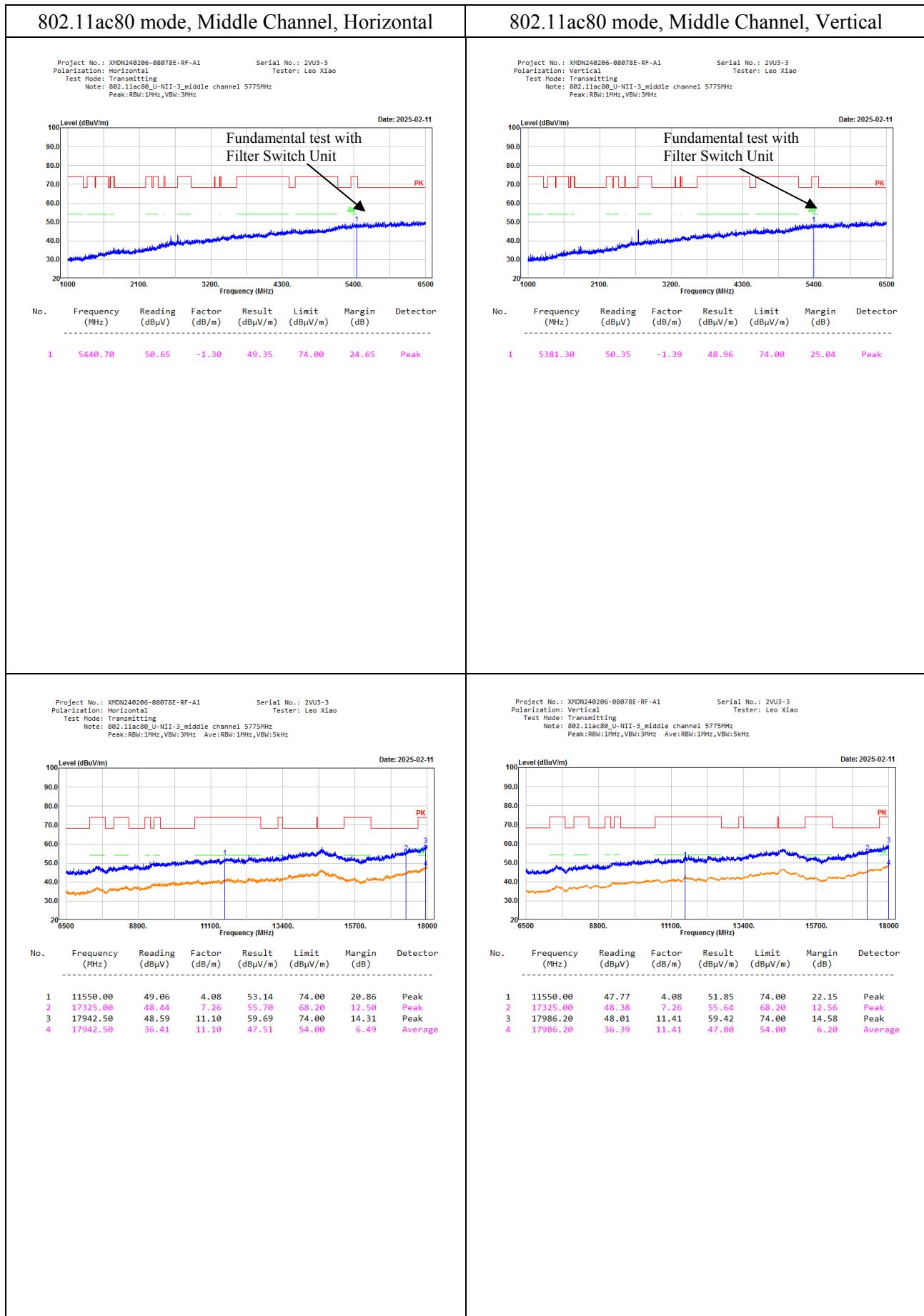


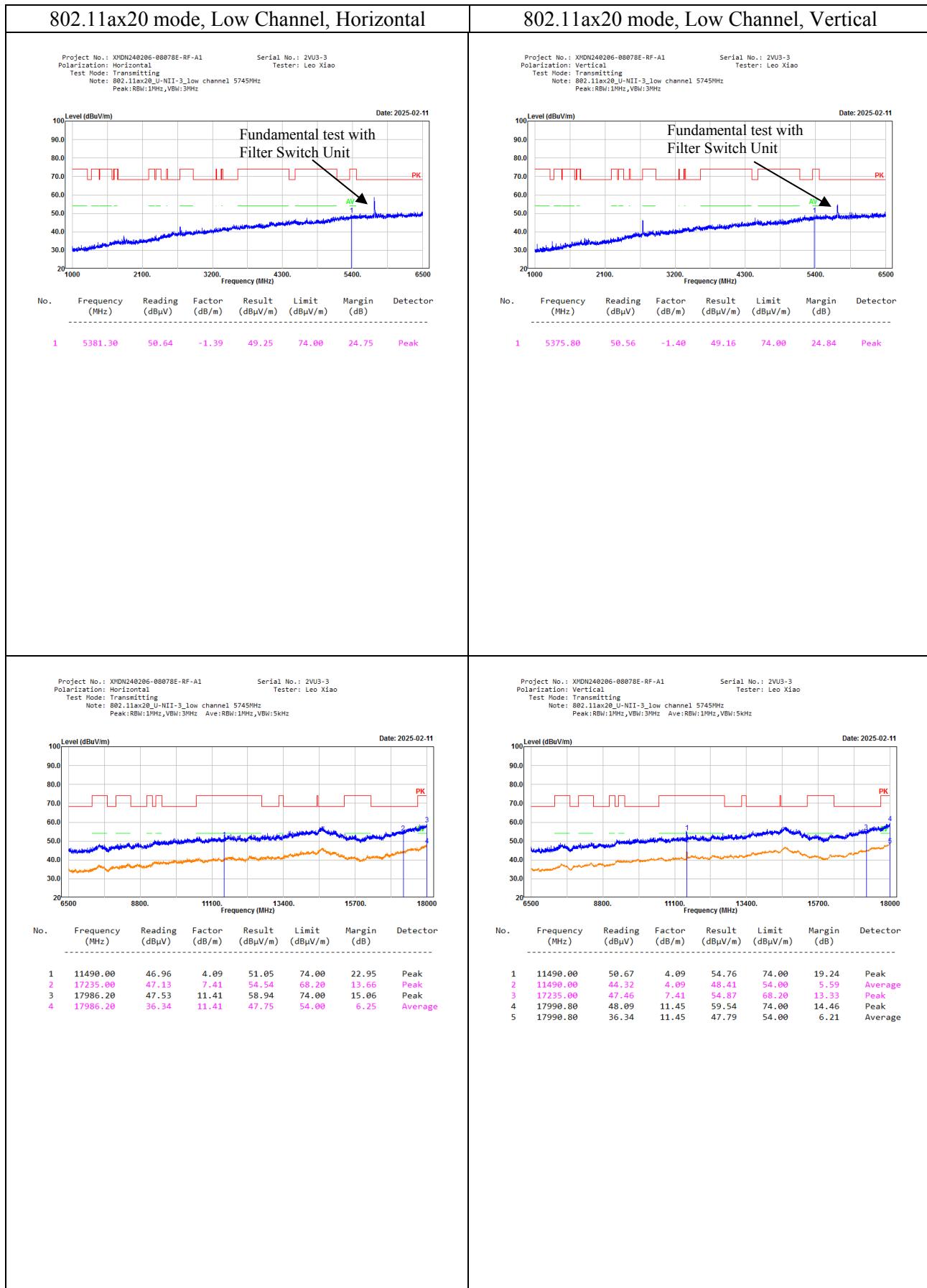


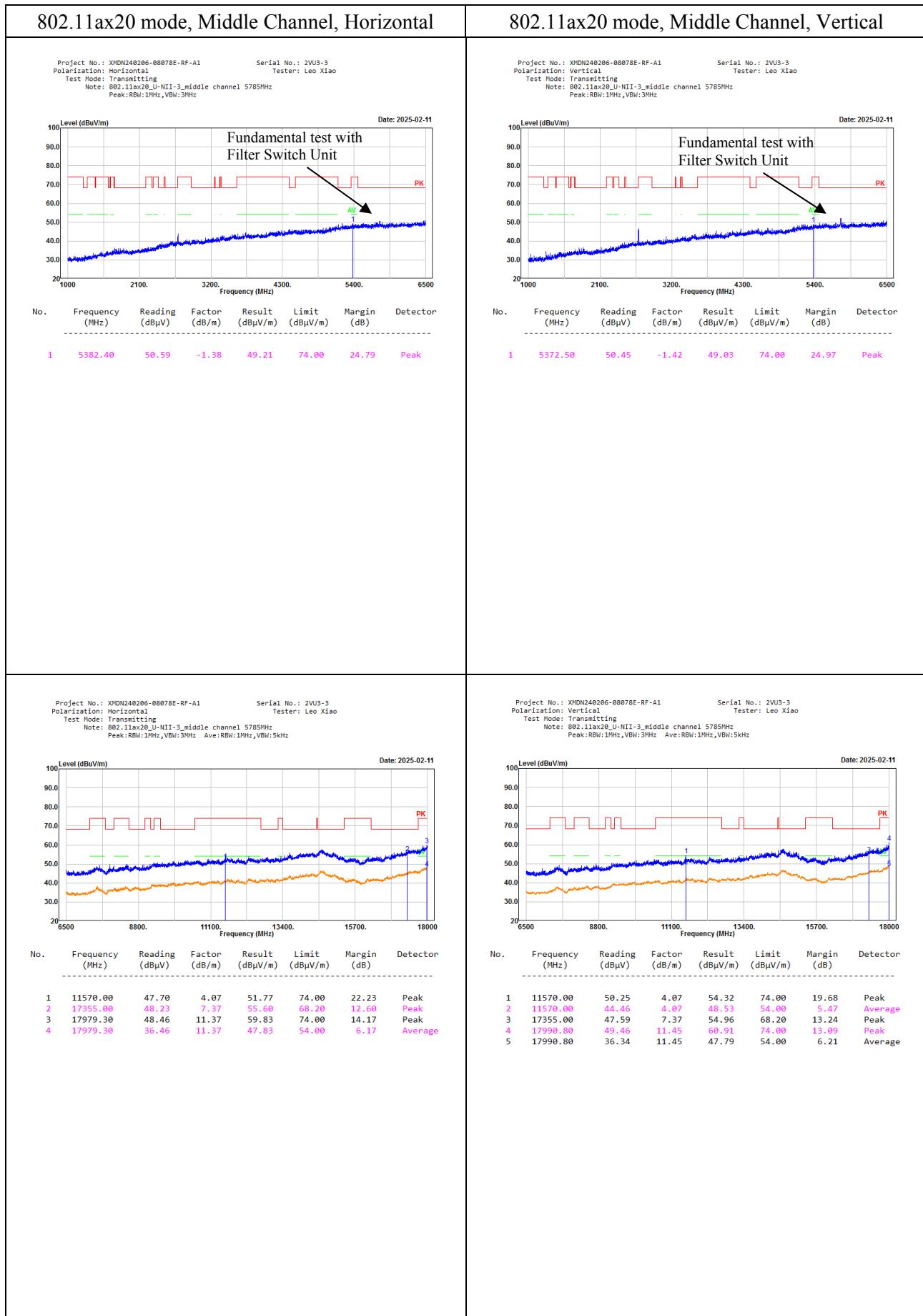


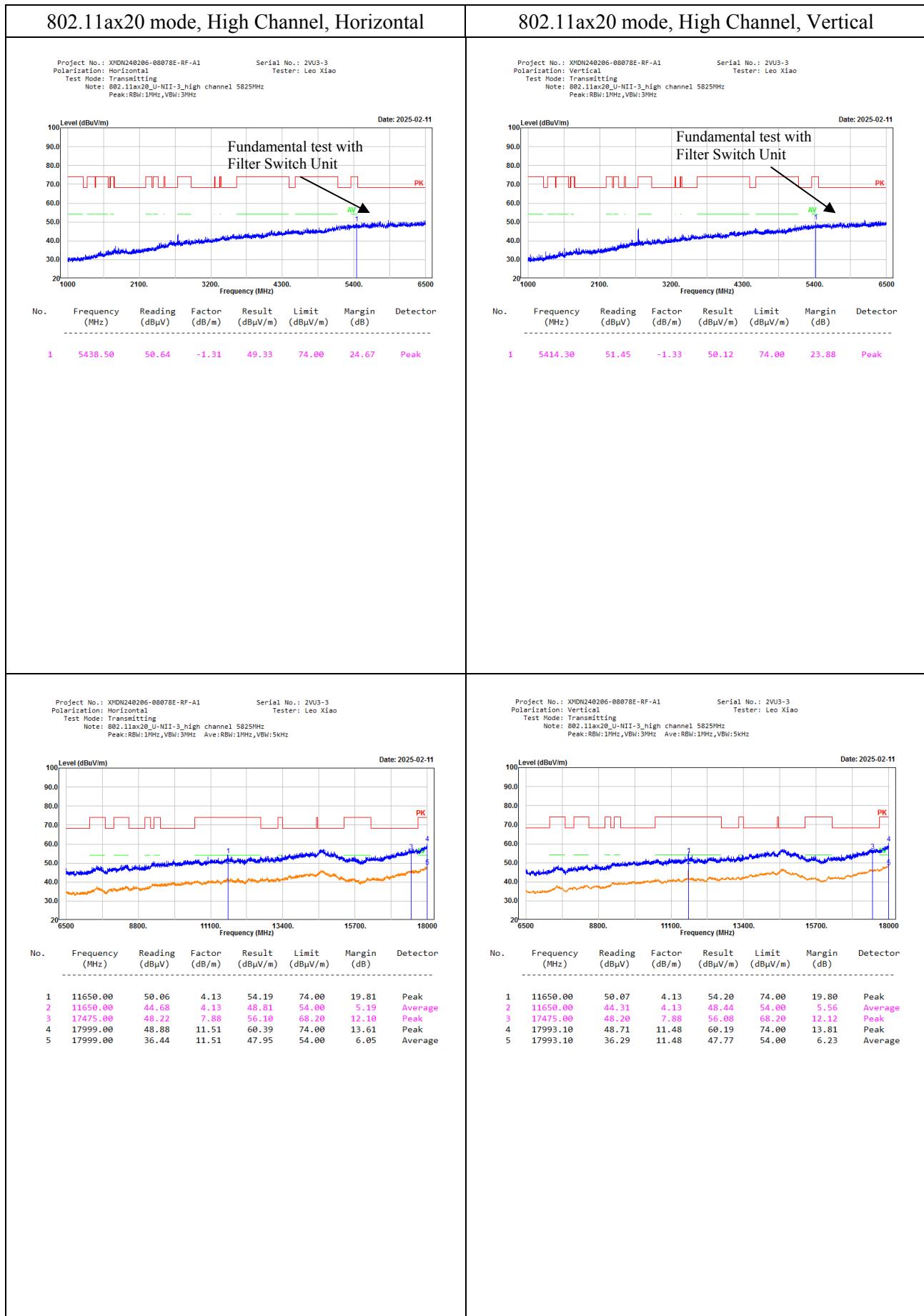


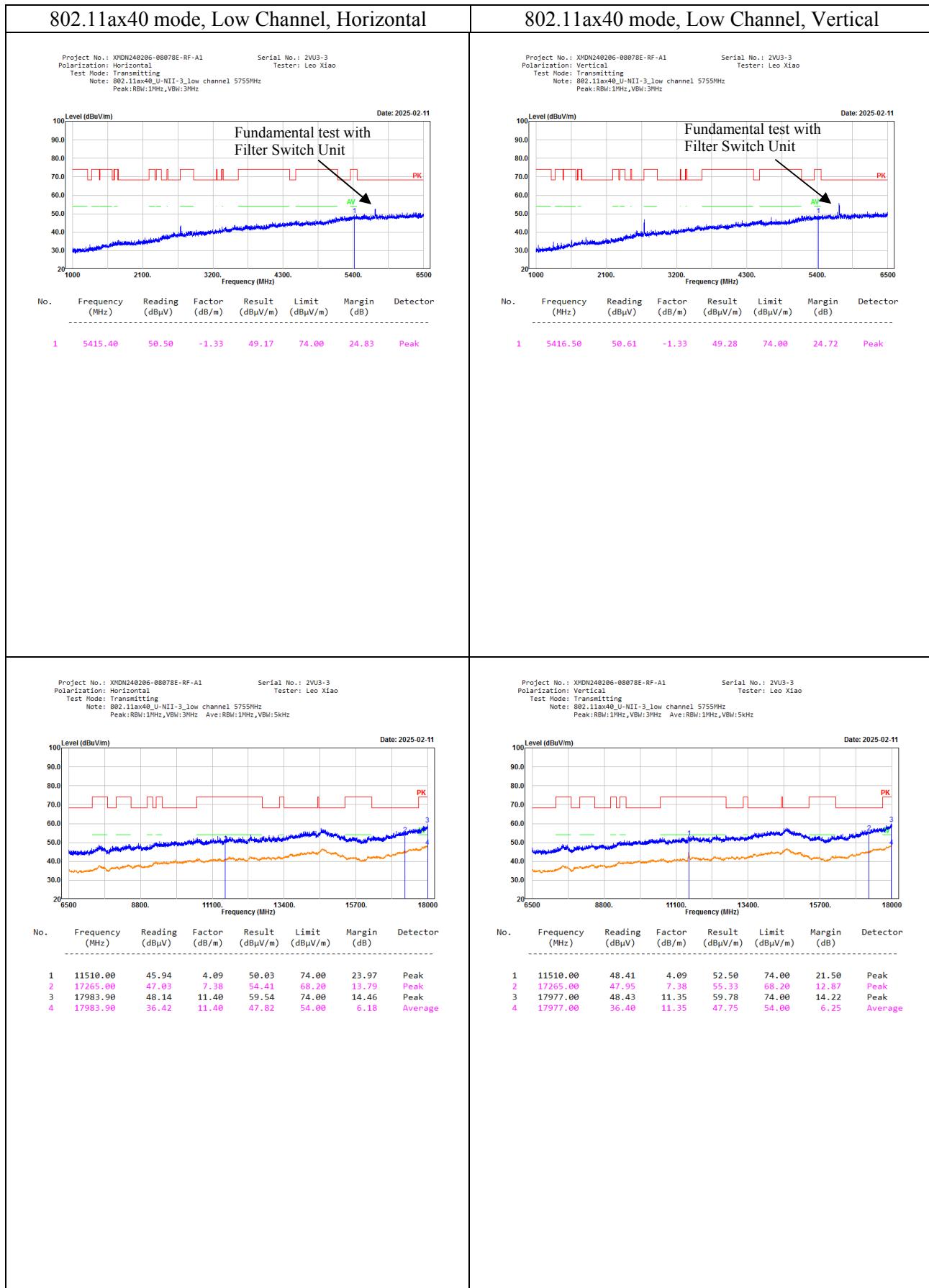


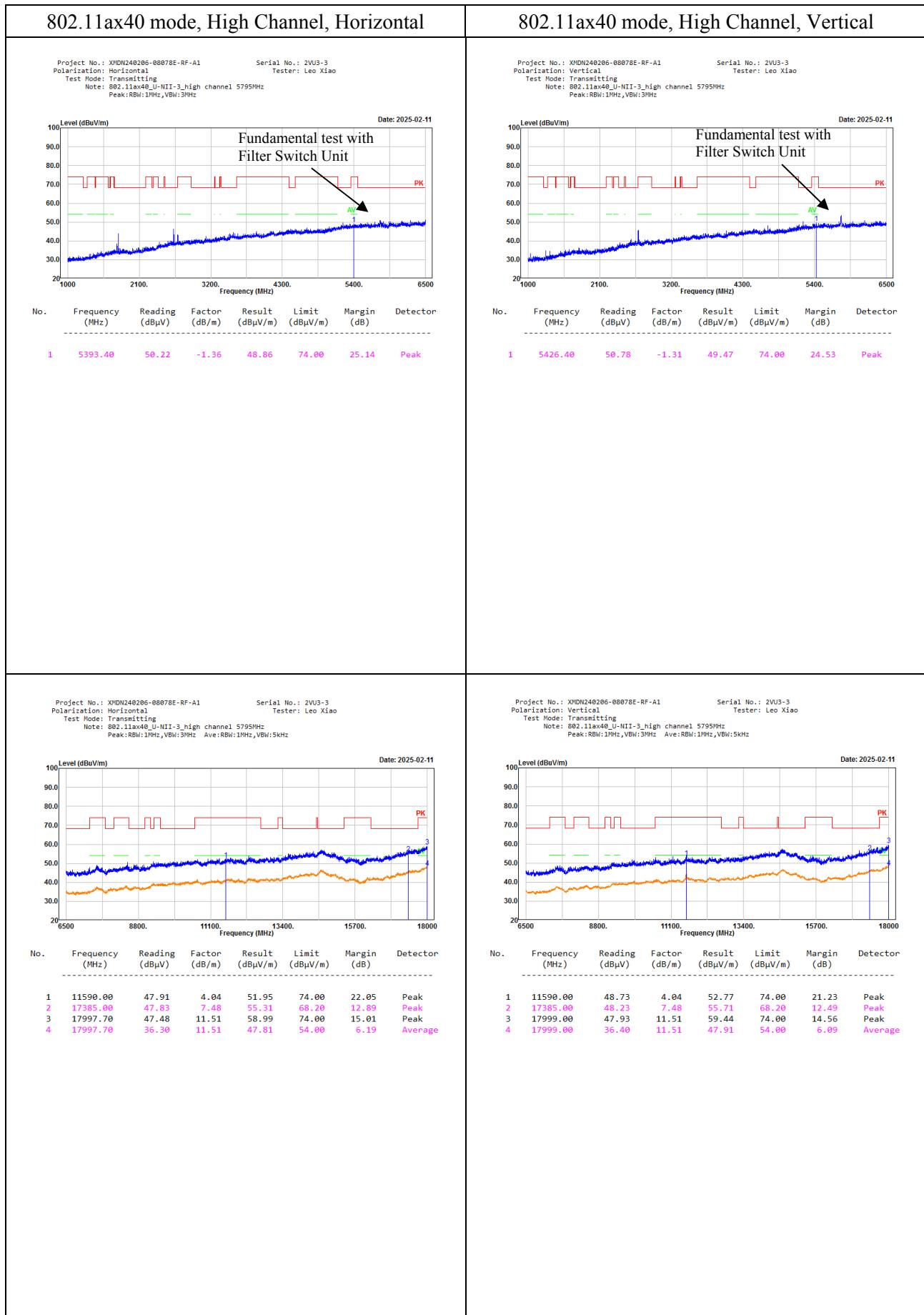


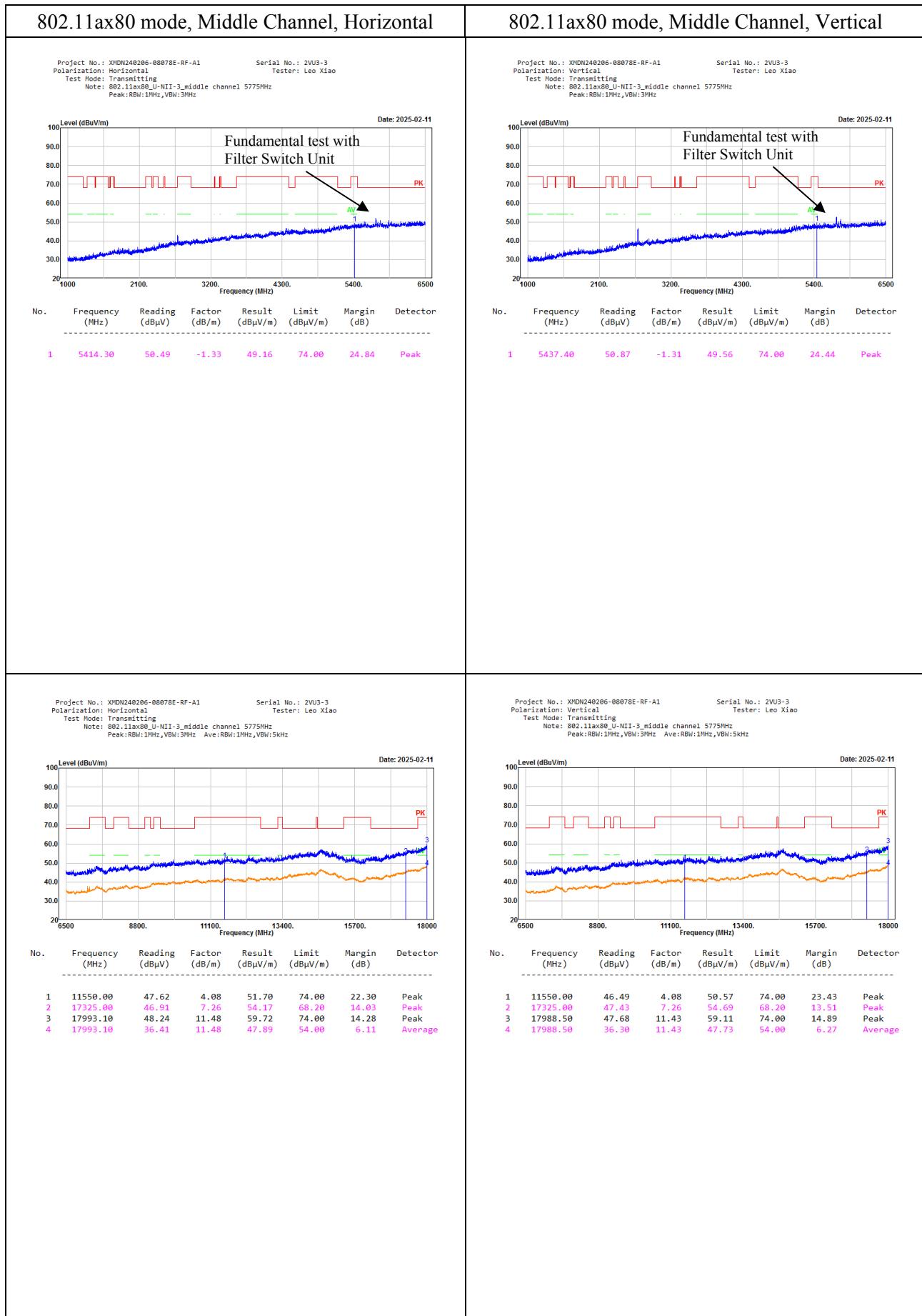






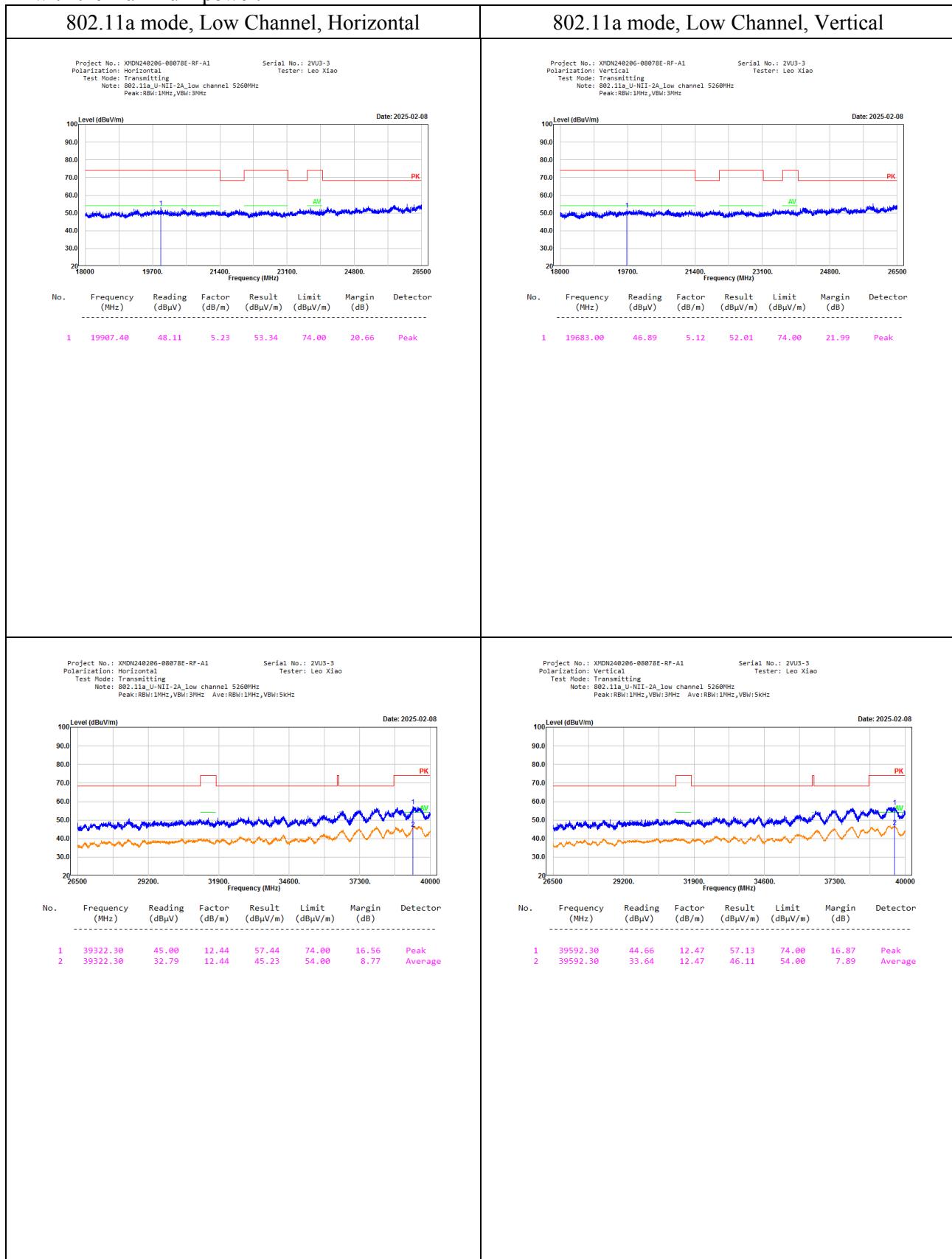




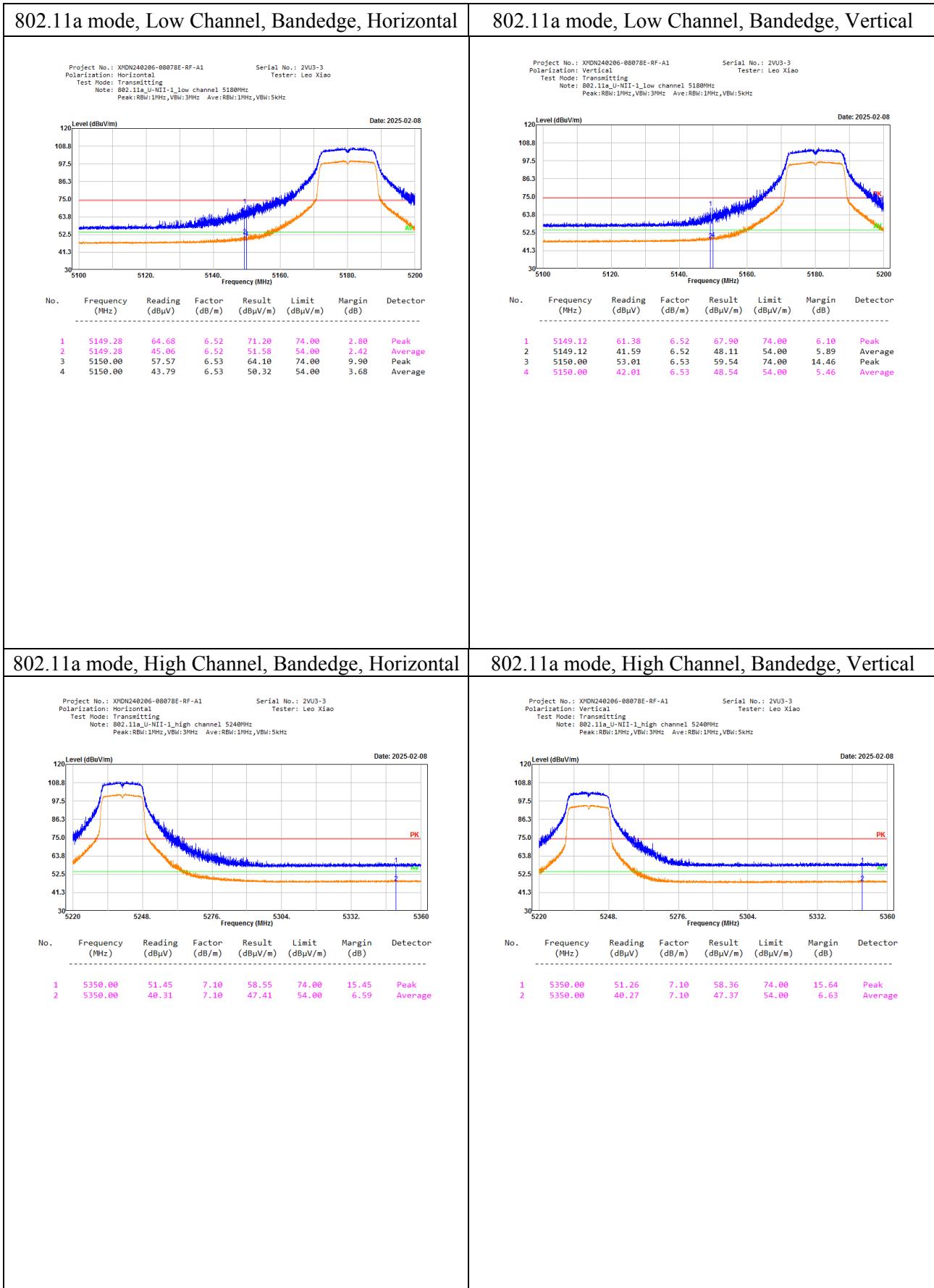


18-40GHz:

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



Bandedge:
5150-5250MHz:



<p>802.11n ht20 mode, Low Channel, Bandedge, Horizontal</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-1_low channel 5180MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p> <p>No. Frequency (MHz) Reading (dBmV) Factor (dB/m) Result (dBmV/m) Limit (dBmV/m) Margin (dB) Detector 1 5146.78 65.43 6.52 71.95 74.00 2.05 Peak 2 5146.78 42.45 6.52 48.97 54.00 5.03 Average 3 5150.00 59.14 6.53 65.67 74.00 8.33 Peak 4 5150.00 43.70 6.53 50.23 54.00 3.77 Average</p>	<p>802.11n ht20 mode, Low Channel, Bandedge, Vertical</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-1_low channel 5180MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p> <p>No. Frequency (MHz) Reading (dBmV) Factor (dB/m) Result (dBmV/m) Limit (dBmV/m) Margin (dB) Detector 1 5150.00 58.85 6.53 65.38 74.00 8.62 Peak 2 5150.00 40.61 6.53 47.14 54.00 6.86 Average</p>
<p>802.11n ht20 mode, High Channel, Bandedge, Horizontal</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-1_high channel 5240MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p> <p>No. Frequency (MHz) Reading (dBmV) Factor (dB/m) Result (dBmV/m) Limit (dBmV/m) Margin (dB) Detector 1 5350.00 50.47 7.10 57.57 74.00 16.43 Peak 2 5350.00 40.43 7.10 47.53 54.00 6.47 Average</p>	<p>802.11n ht20 mode, High Channel, Bandedge, Vertical</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-1_high channel 5240MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p> <p>No. Frequency (MHz) Reading (dBmV) Factor (dB/m) Result (dBmV/m) Limit (dBmV/m) Margin (dB) Detector 1 5350.00 50.39 7.10 57.49 74.00 16.51 Peak 2 5350.00 40.34 7.10 47.44 54.00 6.56 Average</p>

802.11ax20 mode, Low Channel, Bandedge, Horizontal Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11ax20_U-NII-1_low channel 5180MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz Serial No.: 2VU3-3 Tester: Leo Xiao Date: 2025-02-10 No. Frequency (MHz) Reading (dB μ V) Factor (dB/m) Result (dB μ V/m) Limit (dB μ V/m) Margin (dB) Detector										---	---	---	---	---	---	---	---		1	5149.48	63.46	6.52	69.98	74.00	4.02	Peak		2	5149.48	41.06	6.52	47.58	54.00	6.42	Average		3	5150.00	59.31	6.53	65.84	74.00	8.16	Peak		4	5150.00	41.29	6.53	47.82	54.00	6.18	Average	

802.11ax20 mode, Low Channel, Bandedge, Vertical

Project No.: XMDN240206-08078E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20_U-NII-1_low channel 5180MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VU3-3 Tester: Leo Xiao

Date: 2025-02-10

No. Frequency (MHz) Reading (dB μ V) Factor (dB/m) Result (dB μ V/m) Limit (dB μ V/m) Margin (dB) Detector

1	5146.06	62.31	6.51	68.82	74.00	5.18	Peak
2	5146.06	41.26	6.51	47.77	54.00	6.23	Average
3	5150.00	57.22	6.53	63.75	74.00	10.25	Peak
4	5150.00	42.15	6.53	48.68	54.00	5.32	Average

802.11ax20 mode, High Channel, Bandedge, Horizontal

Project No.: XMDN240206-08078E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax20_U-NII-1_high channel 5240MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VU3-3 Tester: Leo Xiao

Date: 2025-02-10

No. Frequency (MHz) Reading (dB μ V) Factor (dB/m) Result (dB μ V/m) Limit (dB μ V/m) Margin (dB) Detector

1	5350.00	51.50	7.10	58.60	74.00	15.40	Peak
2	5350.00	40.59	7.10	47.69	54.00	6.31	Average

802.11ax20 mode, High Channel, Bandedge, Vertical

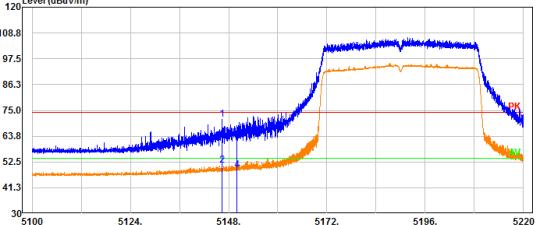
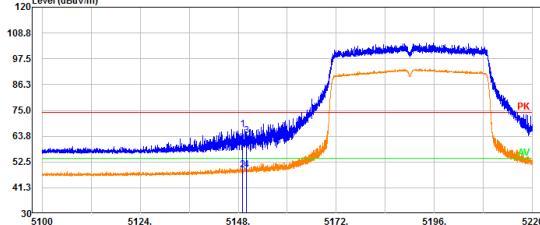
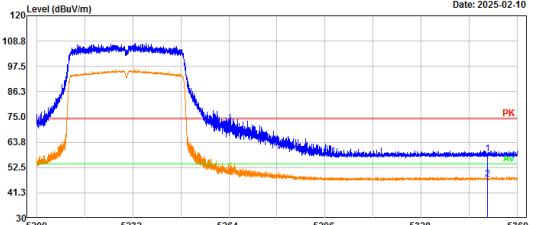
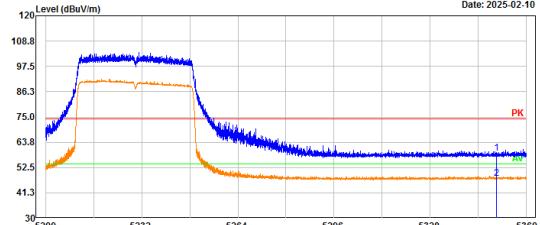
Project No.: XMDN240206-08078E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20_U-NII-1_high channel 5240MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VU3-3 Tester: Leo Xiao

Date: 2025-02-10

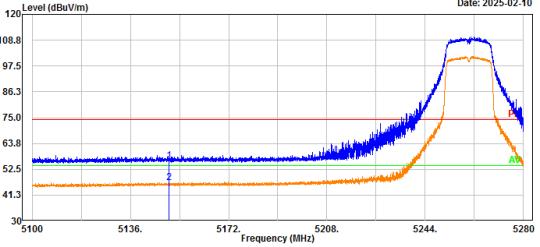
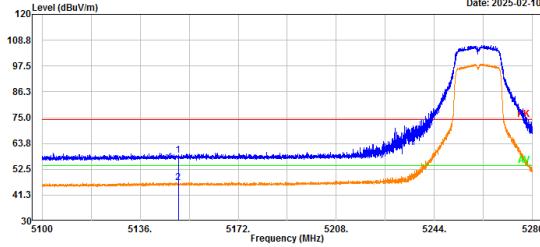
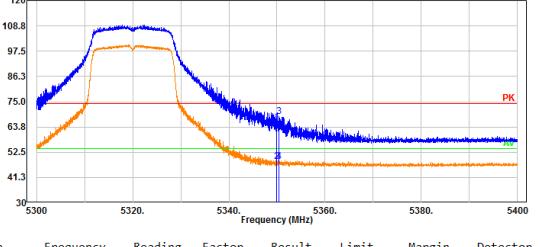
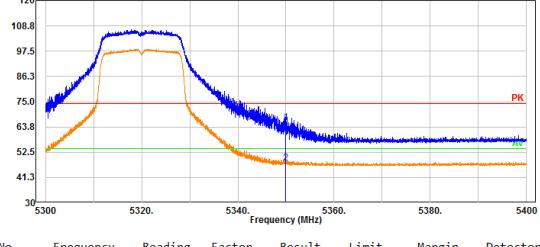
No. Frequency (MHz) Reading (dB μ V) Factor (dB/m) Result (dB μ V/m) Limit (dB μ V/m) Margin (dB) Detector

1	5350.00	51.14	7.10	58.24	74.00	15.76	Peak
2	5350.00	40.78	7.10	47.88	54.00	6.12	Average

<p>802.11ax40 mode, Low Channel, Bandedge, Horizontal</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitter Note: 802.11ax40_U-NII-1_low channel 5190MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5146.39</td> <td>64.70</td> <td>6.51</td> <td>71.21</td> <td>74.00</td> <td>2.79</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5146.39</td> <td>44.66</td> <td>6.51</td> <td>51.17</td> <td>54.00</td> <td>2.83</td> <td>Average</td> </tr> <tr> <td>3</td> <td>5150.00</td> <td>55.55</td> <td>6.53</td> <td>62.08</td> <td>74.00</td> <td>11.92</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>5150.00</td> <td>42.56</td> <td>6.53</td> <td>49.09</td> <td>54.00</td> <td>4.91</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5146.39	64.70	6.51	71.21	74.00	2.79	Peak	2	5146.39	44.66	6.51	51.17	54.00	2.83	Average	3	5150.00	55.55	6.53	62.08	74.00	11.92	Peak	4	5150.00	42.56	6.53	49.09	54.00	4.91	Average	<p>802.11ax40 mode, Low Channel, Bandedge, Vertical</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitter Note: 802.11ax40_U-NII-1_low channel 5190MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-08</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5148.98</td> <td>60.29</td> <td>6.52</td> <td>66.81</td> <td>74.00</td> <td>7.19</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5148.98</td> <td>42.37</td> <td>6.52</td> <td>48.89</td> <td>54.00</td> <td>5.11</td> <td>Average</td> </tr> <tr> <td>3</td> <td>5150.00</td> <td>57.49</td> <td>6.53</td> <td>64.02</td> <td>74.00</td> <td>9.98</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>5150.00</td> <td>42.68</td> <td>6.53</td> <td>49.13</td> <td>54.00</td> <td>4.87</td> <td>Average</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5148.98	60.29	6.52	66.81	74.00	7.19	Peak	2	5148.98	42.37	6.52	48.89	54.00	5.11	Average	3	5150.00	57.49	6.53	64.02	74.00	9.98	Peak	4	5150.00	42.68	6.53	49.13	54.00	4.87	Average
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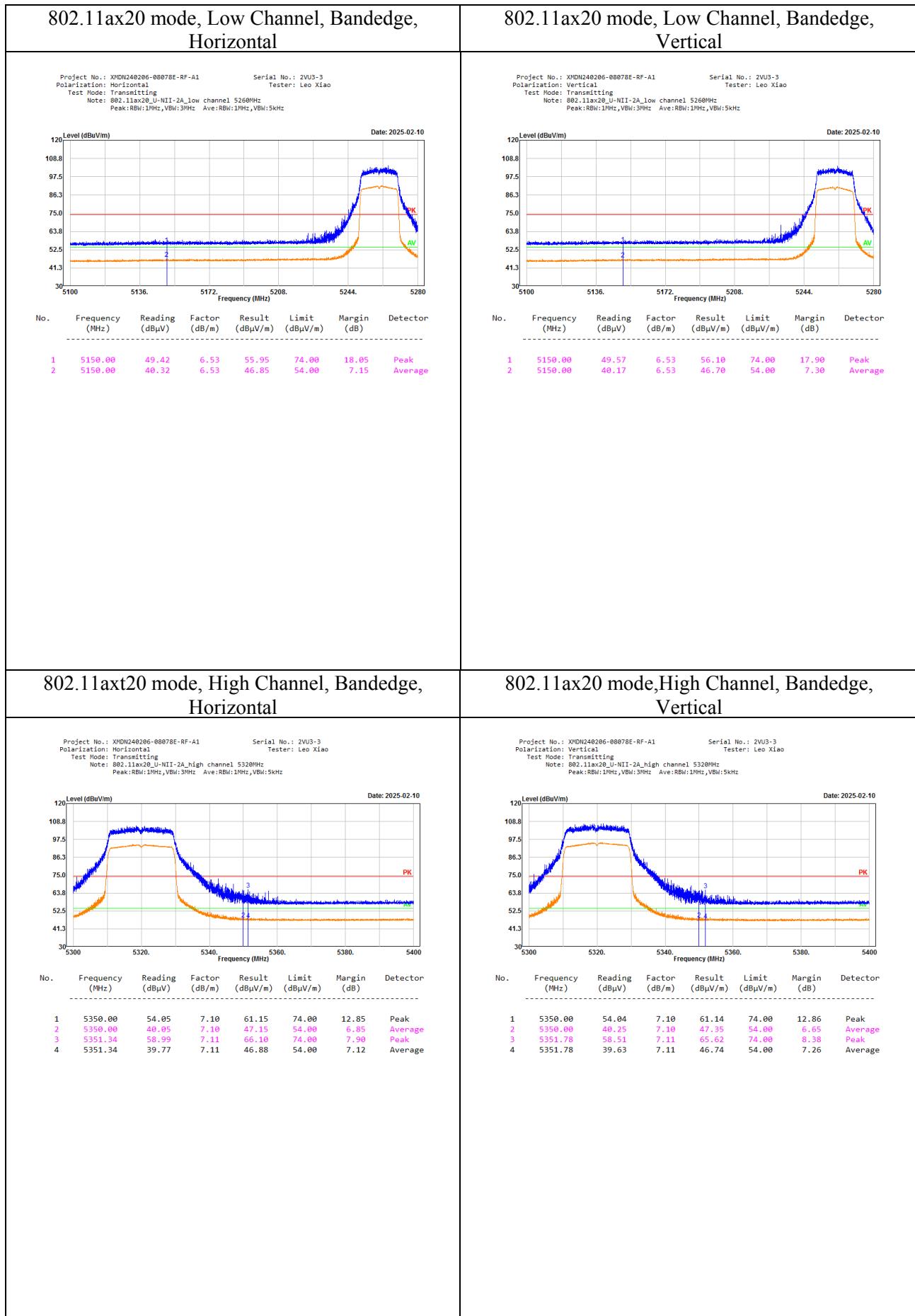
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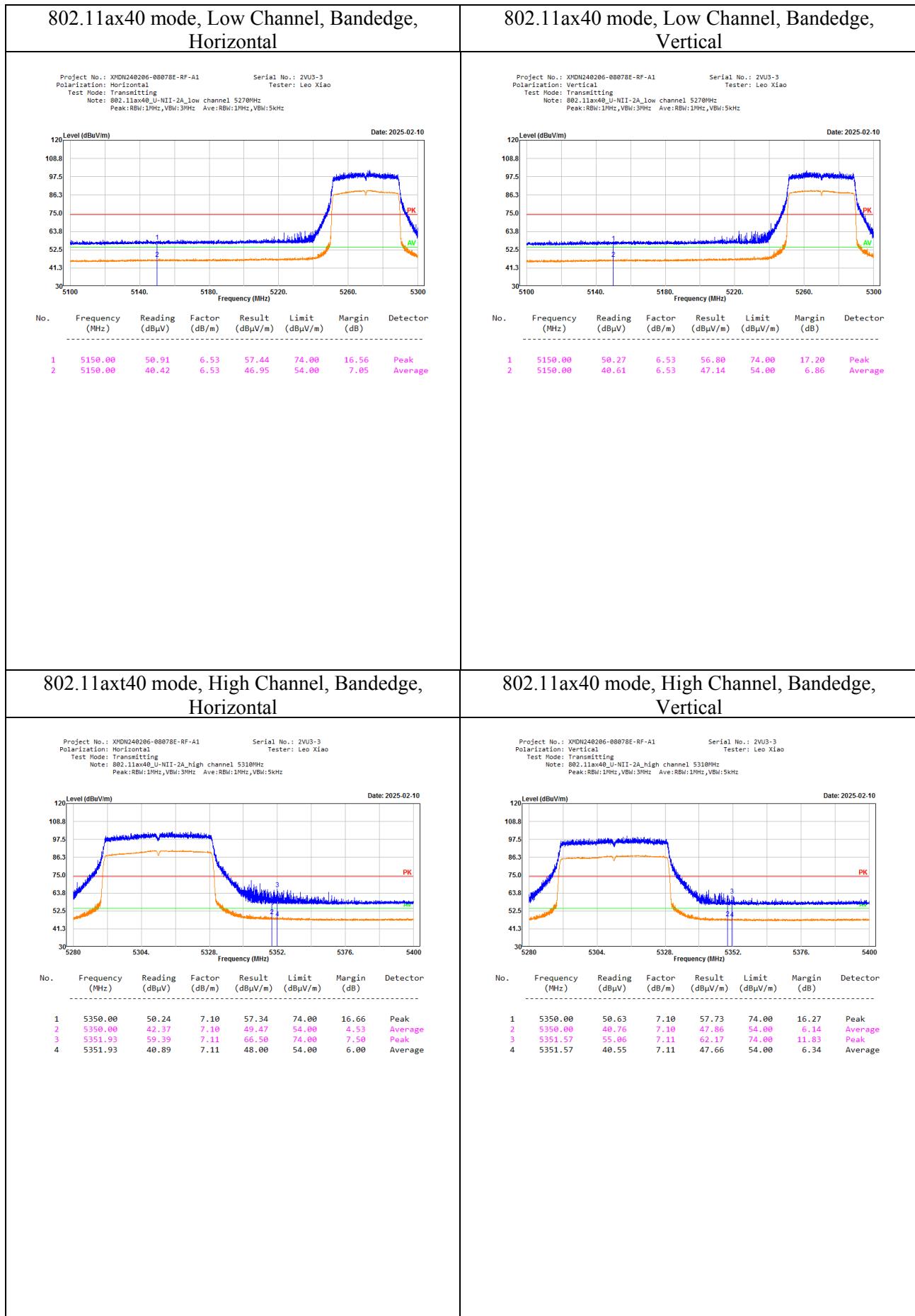
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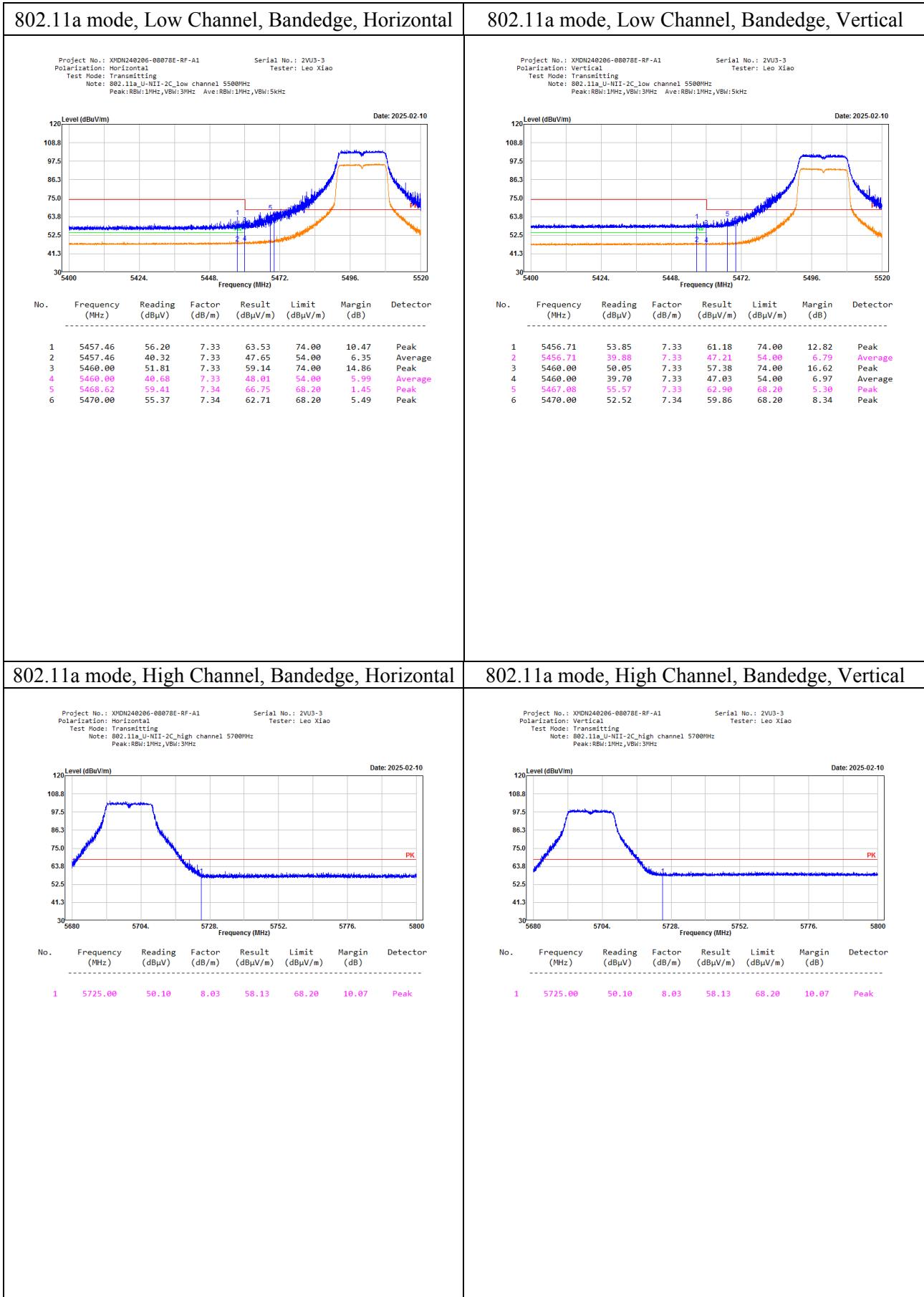
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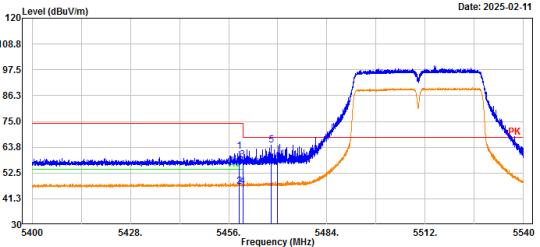
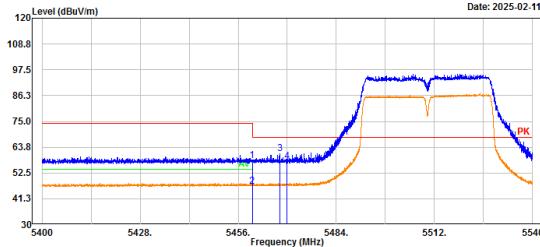


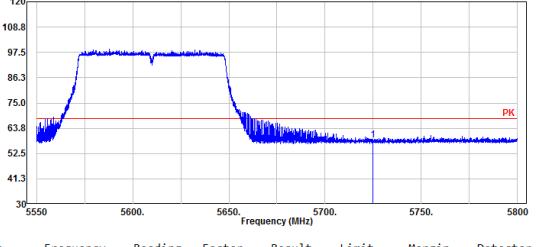
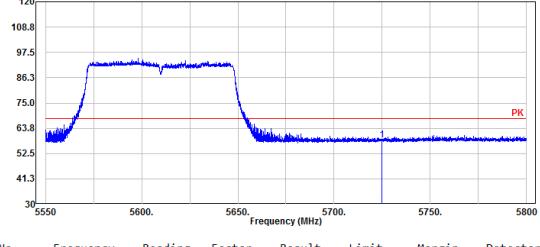


5470-5725MHz:



<p>802.11n ht20 mode, Low Channel, Bandedge, Horizontal</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n20_U-NII-2C_low channel 5500MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-10</p> <p>No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector</p> <table border="1"> <tr> <td>1</td> <td>5460.00</td> <td>50.67</td> <td>7.33</td> <td>58.00</td> <td>74.00</td> <td>16.00</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5460.00</td> <td>39.67</td> <td>7.33</td> <td>47.00</td> <td>54.00</td> <td>7.00</td> <td>Average</td> </tr> <tr> <td>3</td> <td>5466.84</td> <td>54.48</td> <td>7.33</td> <td>61.73</td> <td>68.20</td> <td>6.47</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>5470.00</td> <td>50.19</td> <td>7.34</td> <td>57.53</td> <td>68.20</td> <td>10.67</td> <td>Peak</td> </tr> </table>	1	5460.00	50.67	7.33	58.00	74.00	16.00	Peak	2	5460.00	39.67	7.33	47.00	54.00	7.00	Average	3	5466.84	54.48	7.33	61.73	68.20	6.47	Peak	4	5470.00	50.19	7.34	57.53	68.20	10.67	Peak	<p>802.11n ht20 mode, Low Channel, Bandedge, Vertical</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n20_U-NII-2C_low channel 5500MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-10</p> <p>No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector</p> <table border="1"> <tr> <td>1</td> <td>5460.00</td> <td>50.29</td> <td>7.33</td> <td>57.62</td> <td>74.00</td> <td>16.38</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5460.00</td> <td>39.48</td> <td>7.33</td> <td>46.81</td> <td>54.00</td> <td>7.19</td> <td>Average</td> </tr> <tr> <td>3</td> <td>5470.00</td> <td>50.00</td> <td>7.34</td> <td>57.34</td> <td>68.20</td> <td>10.86</td> <td>Peak</td> </tr> </table>	1	5460.00	50.29	7.33	57.62	74.00	16.38	Peak	2	5460.00	39.48	7.33	46.81	54.00	7.19	Average	3	5470.00	50.00	7.34	57.34	68.20	10.86	Peak
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802.11n ht40 mode, Low Channel, Bandedge, Horizontal	802.11n ht40 mode, Low Channel, Bandedge, Vertical																																																																																																
<p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11n40_U-NII-2C_low channel 5510MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-11</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr><td>1</td><td>5458.97</td><td>54.62</td><td>7.33</td><td>61.95</td><td>74.00</td><td>12.05</td><td>Peak</td></tr> <tr><td>2</td><td>5458.97</td><td>39.37</td><td>7.33</td><td>46.70</td><td>54.00</td><td>7.30</td><td>Average</td></tr> <tr><td>3</td><td>5460.00</td><td>50.72</td><td>7.33</td><td>58.05</td><td>74.00</td><td>15.95</td><td>Peak</td></tr> <tr><td>4</td><td>5460.00</td><td>39.25</td><td>7.33</td><td>46.58</td><td>54.00</td><td>7.42</td><td>Average</td></tr> <tr><td>5</td><td>5468.21</td><td>57.35</td><td>7.34</td><td>64.69</td><td>68.20</td><td>3.51</td><td>Peak</td></tr> <tr><td>6</td><td>5470.00</td><td>49.78</td><td>7.34</td><td>57.12</td><td>68.20</td><td>11.08</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5458.97	54.62	7.33	61.95	74.00	12.05	Peak	2	5458.97	39.37	7.33	46.70	54.00	7.30	Average	3	5460.00	50.72	7.33	58.05	74.00	15.95	Peak	4	5460.00	39.25	7.33	46.58	54.00	7.42	Average	5	5468.21	57.35	7.34	64.69	68.20	3.51	Peak	6	5470.00	49.78	7.34	57.12	68.20	11.08	Peak	<p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11n40_U-NII-2C_low channel 5510MHz Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz</p> <p>Serial No.: 2VU3-3 Tester: Leo Xiao</p> <p>Date: 2025-02-11</p>  <table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr><td>1</td><td>5460.00</td><td>50.41</td><td>7.33</td><td>57.74</td><td>74.00</td><td>16.26</td><td>Peak</td></tr> <tr><td>2</td><td>5460.00</td><td>39.29</td><td>7.33</td><td>46.62</td><td>54.00</td><td>7.38</td><td>Average</td></tr> <tr><td>3</td><td>5467.90</td><td>53.57</td><td>7.34</td><td>68.91</td><td>68.20</td><td>7.29</td><td>Peak</td></tr> <tr><td>4</td><td>5470.00</td><td>50.20</td><td>7.34</td><td>57.54</td><td>68.20</td><td>10.66</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5460.00	50.41	7.33	57.74	74.00	16.26	Peak	2	5460.00	39.29	7.33	46.62	54.00	7.38	Average	3	5467.90	53.57	7.34	68.91	68.20	7.29	Peak	4	5470.00	50.20	7.34	57.54	68.20	10.66	Peak
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<p>802.11ac80 mode, Low Channel, Bandedge, Horizontal</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Horizontal Test Mode: Transmitting Note: 802.11ac80_U-NII-2C_low channel 5530MHz Peak:RBW:1MHz,VBW:3MHz</p> <p>Serial No.: 2VU3-3 Tester: Bill Yang</p> <p>Date: 2025-02-11</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5725.00</td> <td>50.38</td> <td>8.03</td> <td>58.41</td> <td>68.20</td> <td>9.79</td> <td>Peak</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5725.00	50.38	8.03	58.41	68.20	9.79	Peak	<p>802.11ac80 mode, High Channel, Bandedge, Vertical</p> <p>Project No.: XMDN240206-08078E-RF-A1 Polarization: Vertical Test Mode: Transmitting Note: 802.11ac80_U-NII-2C_high channel 5610MHz Peak:RBW:1MHz,VBW:3MHz</p> <p>Serial No.: 2VU3-3 Tester: Bill Yang</p> <p>Date: 2025-02-11</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBμV)</th> <th>Factor (dB/m)</th> <th>Result (dBμV/m)</th> <th>Limit (dBμV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5725.00</td> <td>50.34</td> <td>8.03</td> <td>58.37</td> <td>68.20</td> <td>9.83</td> <td>Peak</td> </tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	1	5725.00	50.34	8.03	58.37	68.20	9.83	Peak
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