

FCC Test Report

Report No.: 2505Q30506EB

Applicant: ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.

Address: No.2602, 26th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, China

Product Name: Wi-Fi Low Voltage Landscape Transformer

Product Model: TD-300-12WF-1 WiFi-M

Multiple Models: TD-200-12WF-1 WiFi-M, TD-300S-12WF-2 WiFi-M

Trade Mark: N/A

FCC ID: 2A4G9-026

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2025-02-14 to 2025-03-13

Test Result: Complied

Report Date: 2025-03-14

Reviewed by:

Abel chen

Abel Chen
Project Engineer

Approved by:

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2025-03-14	Original

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1 General Information

1.1 Client Information

Applicant:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address:	No.2602, 26th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, China
Manufacturer:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address:	No.2602, 26th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, China

1.2 Product Description of EUT

The EUT is Wi-Fi Low Voltage Landscape Transformer that contains BLE and 2.4G WLAN radios, this report covers the full testing of the 2.4G WLAN radio.

Sample Serial Number	2YET-2(TD-300-12WF-1 WiFi-M) & 2YET-3(TD-200-12WF-1 WiFi-M) for CE&RE test, 2YET-1 for RF conducted test (assigned by WATC)
Sample Received Date	2025-02-14
Sample Status	Good Condition
Frequency Range	2412MHz - 2472MHz(802.11b, g, n-HT20) 2422MHz - 2462MHz(802.11n-HT40)
Maximum Conducted Peak Output Power	17.17dBm
Modulation Technology	DSSS, OFDM
Antenna Gain [#]	2.0dBi
Spatial Streams [#]	SISO (1TX, 1RX)
Power Supply	AC 120V/60Hz
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement: 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, 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.	
Device Antenna information:	
The Wi-Fi antenna is an integral antenna which cannot replace by end-user. Please see product external photos for details.	

1.4 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.		

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

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. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11b, 802.11g, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	7	2442	13	2472
802.11n-HT40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	7	2442	11	2462

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :		Wifi Test Tool v1.6.5		
Mode	Worst-case Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	8	8	8
802.11g	6Mbps	25	25	25
802.11n-HT20	6.5Mbps	13	13	13
802.11n-HT40	13.5Mbps	3	3	3
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.
For AC power line conducted emission and radiated emission 9kHz-1GHz were performed with the EUT output connect to resistor loads which make the output to the maximum.
For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

Model TD-200-12WF-1 WiFi-M and TD-300-12WF-1 WiFi-M was electrical identical, difference for transformer coil output power, TD-300-12WF-1 WiFi-M and TD-300S-12WF-2 WiFi-M only difference for Appearance, Housing material (Iron vs stainless steel) and output connector, detail please refer the EUT photo and DOS provided by applicant, Model TD-300-12WF-1 WiFi-M was selected to full test, model TD-200-12WF-1 WiFi-M was additional check AC line conducted emission and radiated emissions of below 1GHz.

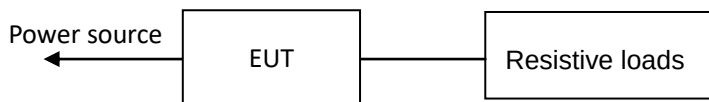
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Unknown	Resistive loads	Unknown	Unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Unknown	DC Power Cable	1.0	EUT	Resistive loads

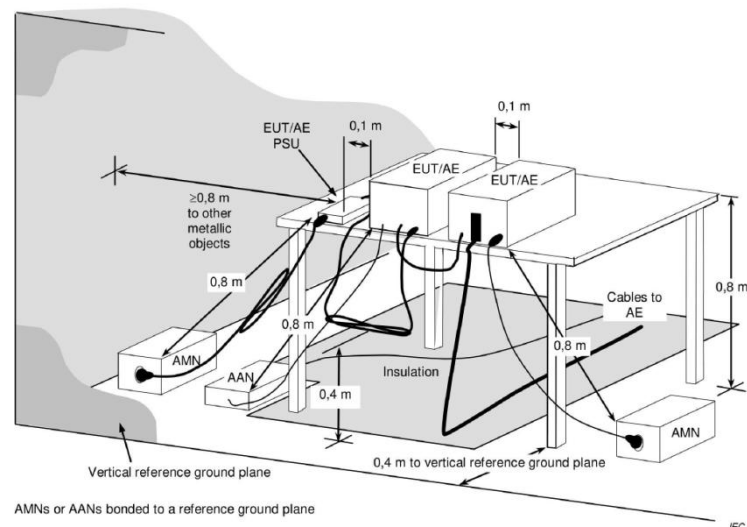
2.4 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.5 Test Setup

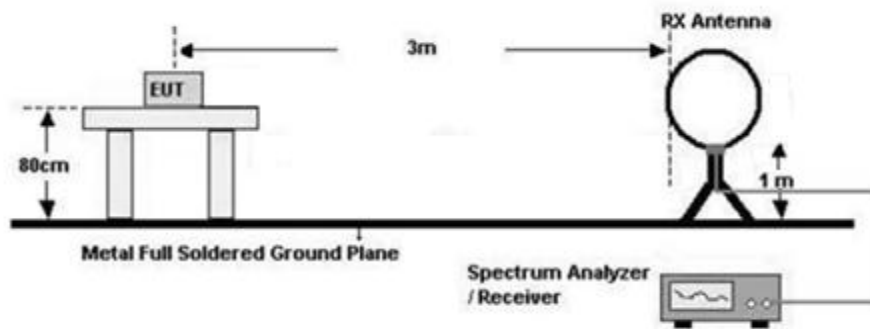
1) Conducted emission measurement:



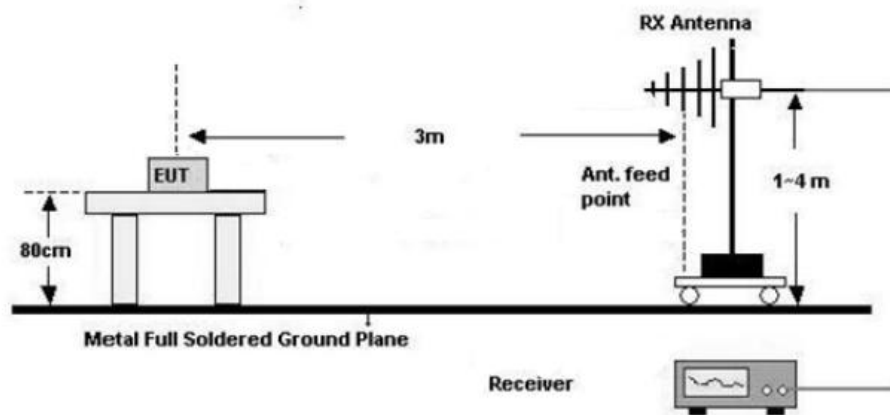
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

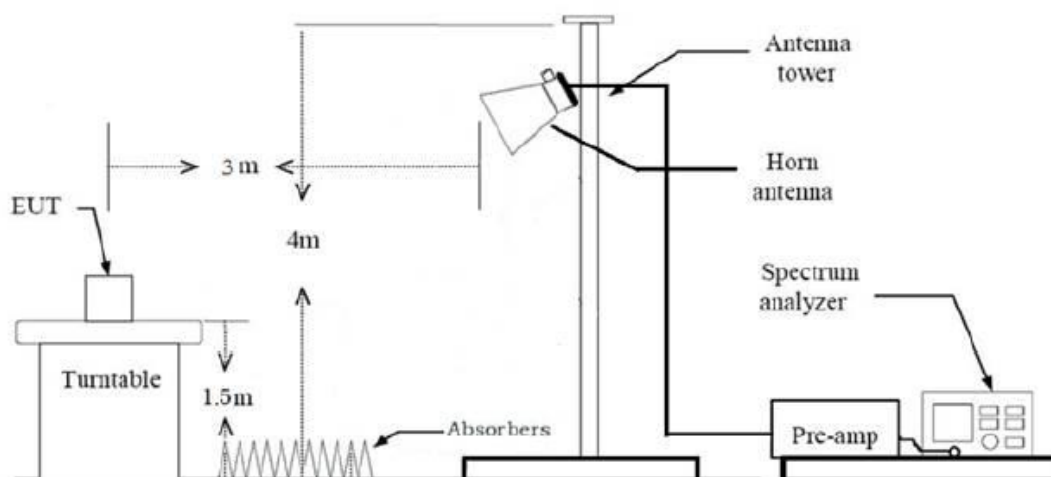
Below 30MHz (3m SAC)

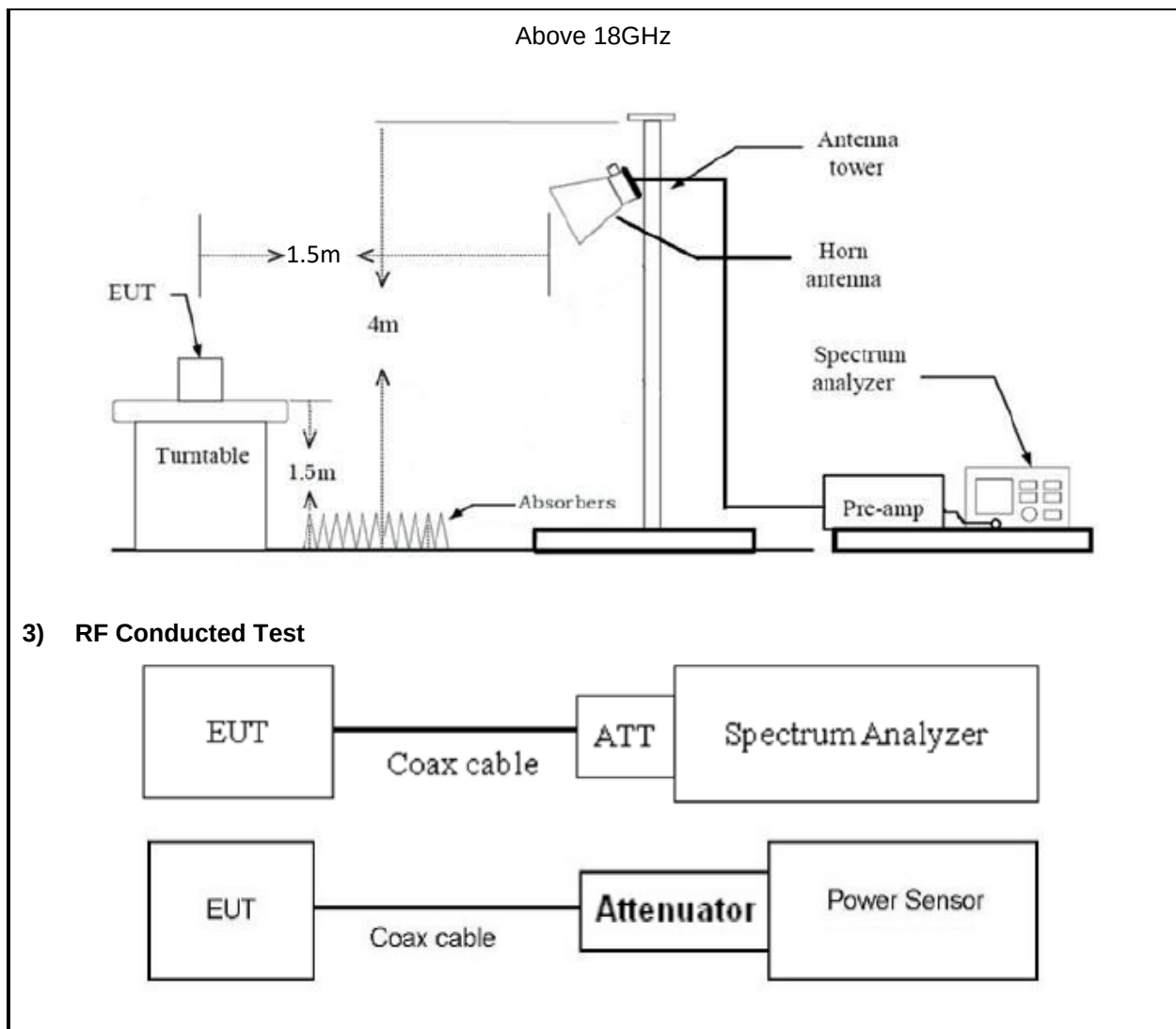


30MHz-1GHz (3m SAC)



1GHz-18GHz





2.6 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, ground-parallel)
3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 10kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz(for duty cycle $\geq$ 98%), or $\geq 1/T$ (for duty cycle $<$ 98%). T is minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than 1/T) may used to scan average emissions to avoid long sweep time.)
4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
6. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 8.0dB (including 6.0 dB Attenuator and 2.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 2.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.2 PKPM1 Peak power meter method or ANSI C63.10-2020 Section 11.9.2.3.2 Method AVGPM-G
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2 Method PKPSD (peak PSD)
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12
Duty Cycle	ANSI C63.10-2020 Section 11.6

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2024/6/4	2025/6/3
Unknown	6.7G High Pass Filter	Unknown	6.7G	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2024/6/4	2025/6/3
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
narda	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only

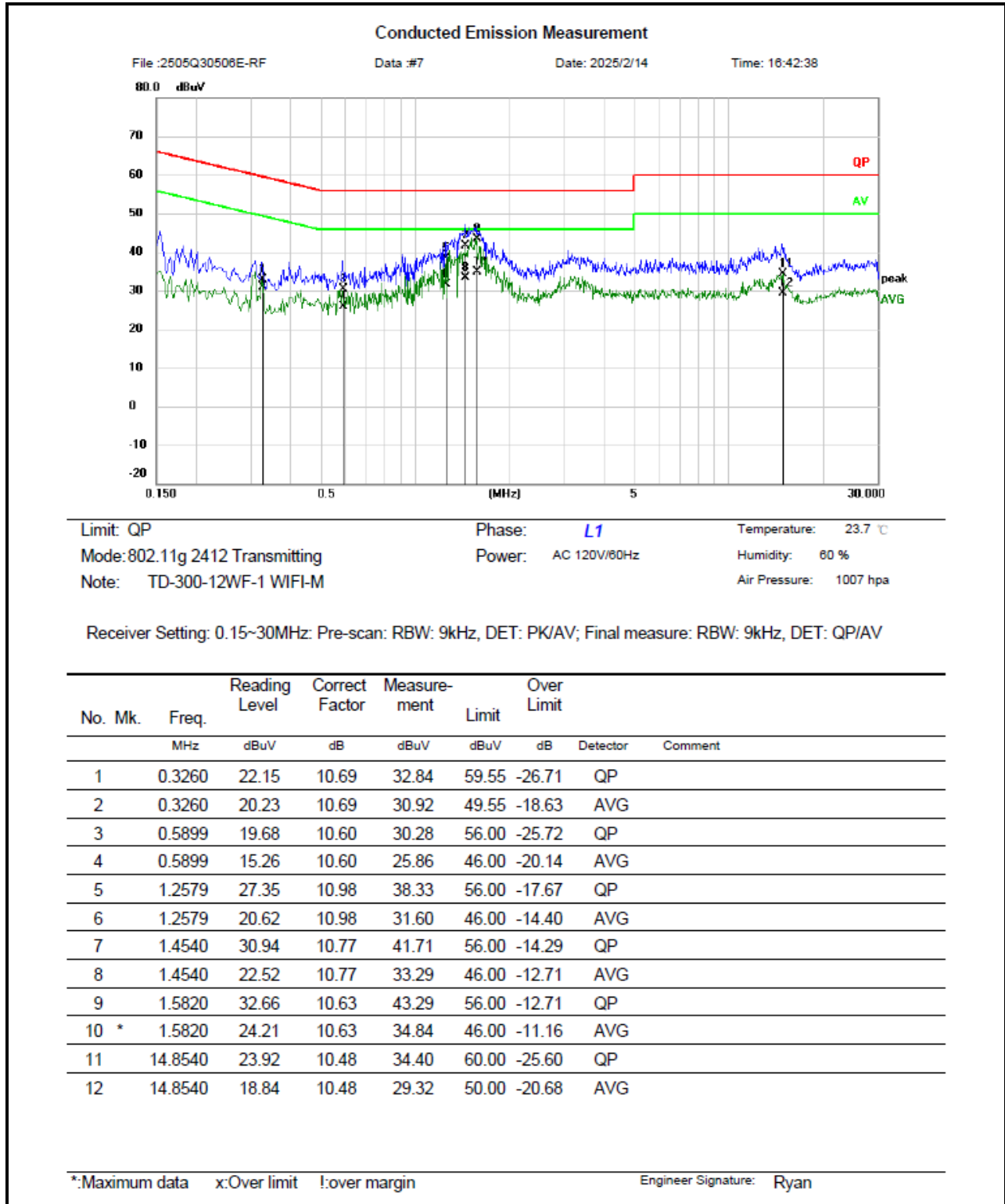
3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.3 AC Line Conducted Emissions Test Data

Test Date:	2025-02-14~2025-03-13	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.7~25.8°C; Relative Humidity:60~79%; ATM Pressure: 100.7~101.0kPa		

Model: TD-300-12WF-1 WiFi-M



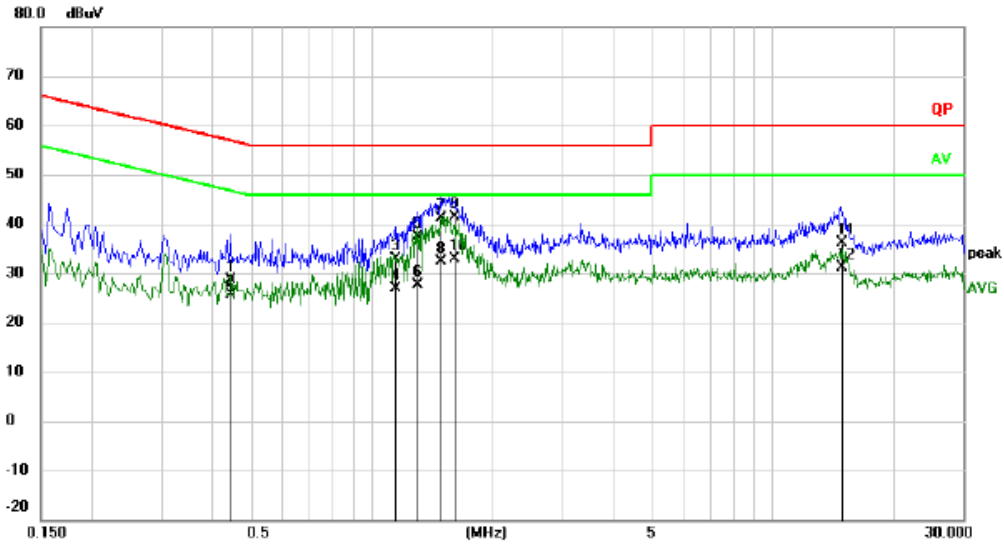
Conducted Emission Measurement

File :2505Q30506E-RF

Data :#8

Date: 2025/2/14

Time: 16:44:20



Limit: QP

Phase: **N**

Temperature: 23.7 °C

Mode:802.11g 2412 Transmitting

Power: AC 120V/60Hz

Humidity: 60 %

Note: TD-300-12WF-1 WIFI-M

Air Pressure: 1007 hpa

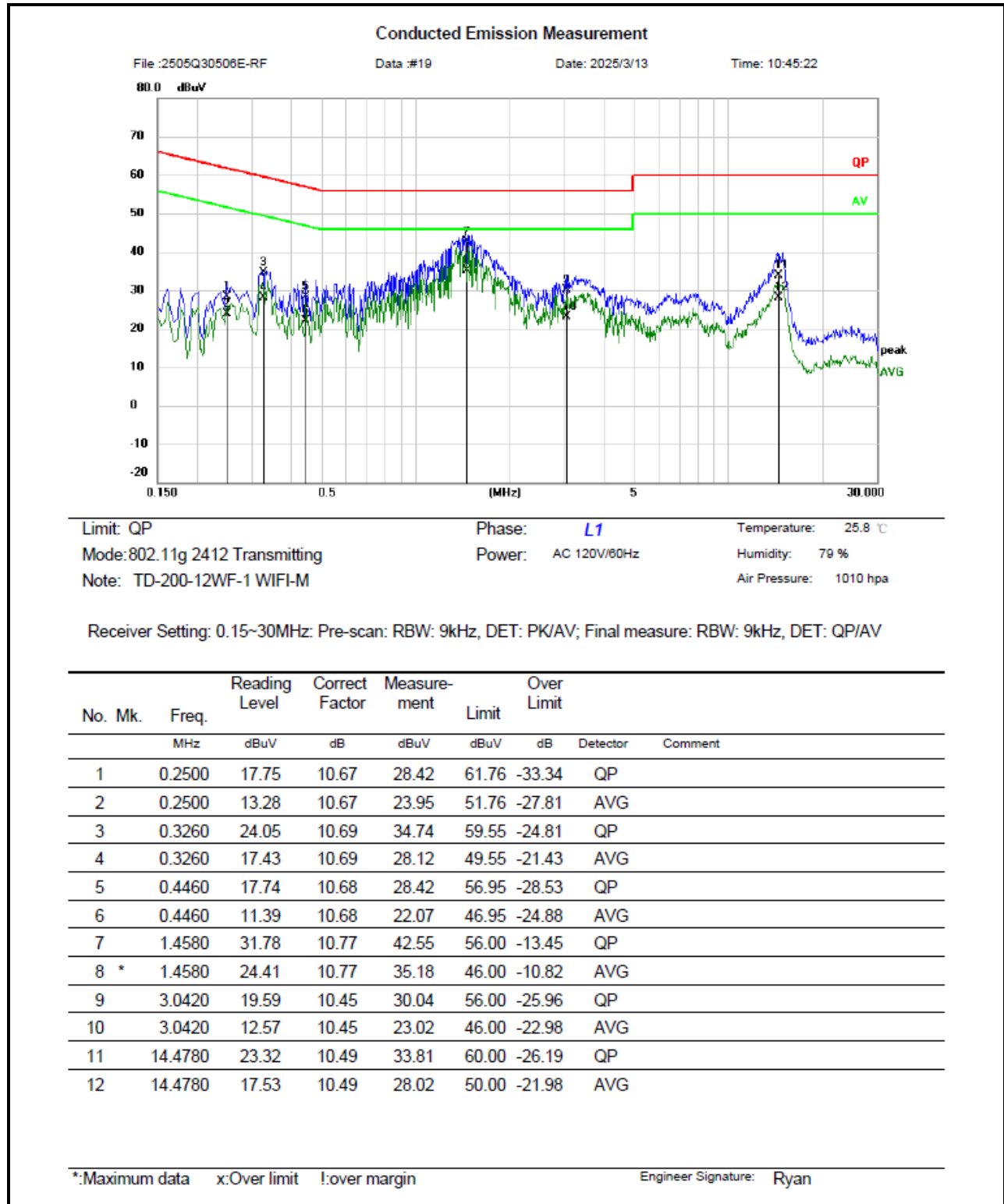
Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

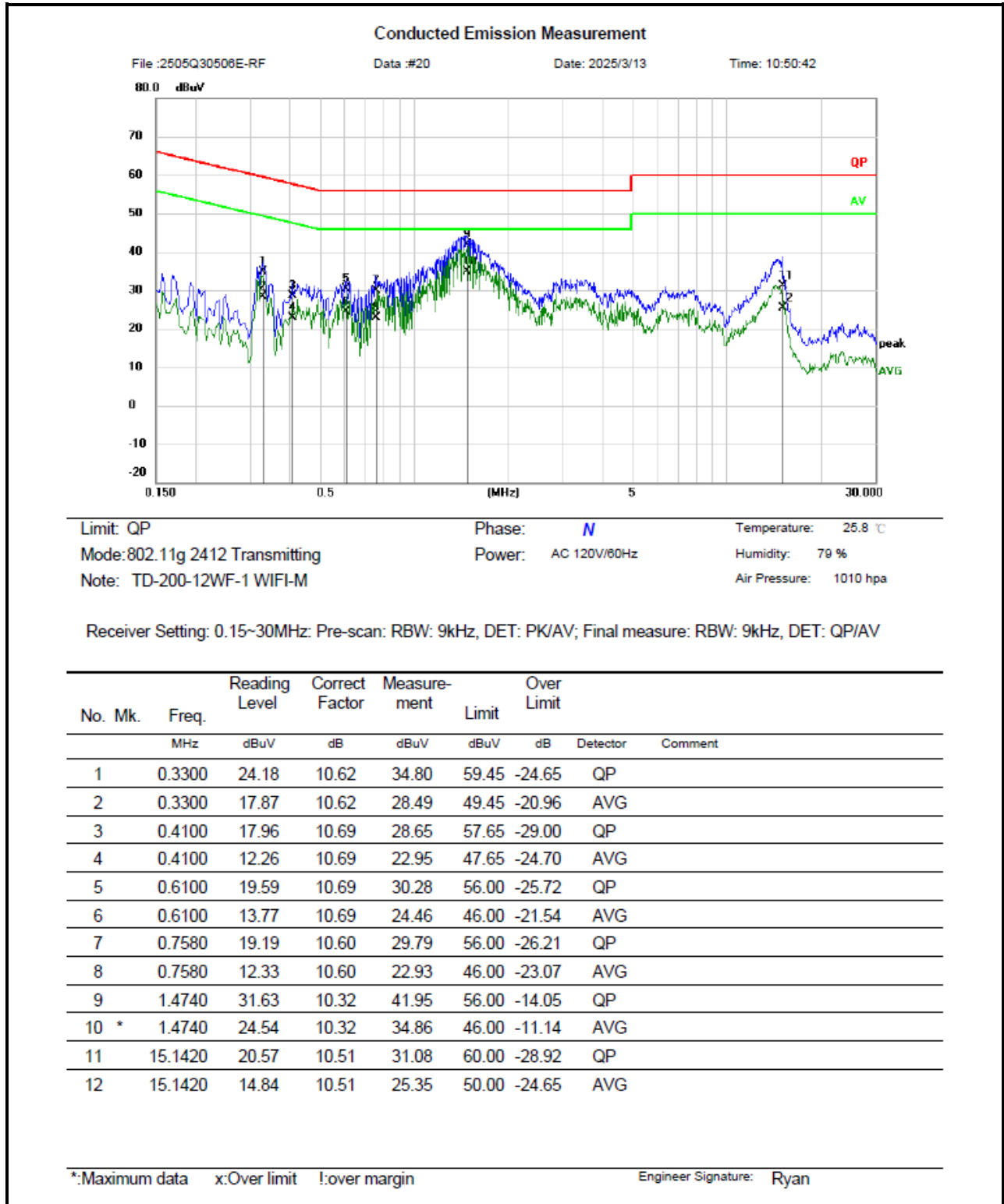
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.4460	17.87	10.73	28.60	56.95	-28.35	QP	
2	0.4460	14.90	10.73	25.63	46.95	-21.32	AVG	
3	1.1420	22.67	10.27	32.94	56.00	-23.06	QP	
4	1.1420	16.59	10.27	26.86	46.00	-19.14	AVG	
5	1.3020	27.21	10.29	37.50	56.00	-18.50	QP	
6	1.3020	17.37	10.29	27.66	46.00	-18.34	AVG	
7	1.4940	30.74	10.32	41.06	56.00	-14.94	QP	
8	1.4940	21.98	10.32	32.30	46.00	-13.70	AVG	
9	1.6180	31.04	10.33	41.37	56.00	-14.63	QP	
10 *	1.6180	22.56	10.33	32.89	46.00	-13.11	AVG	
11	14.8540	25.71	10.49	36.20	60.00	-23.80	QP	
12	14.8540	20.70	10.49	31.19	50.00	-18.81	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Model: TD-200-12WF-1 WiFi-M





Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

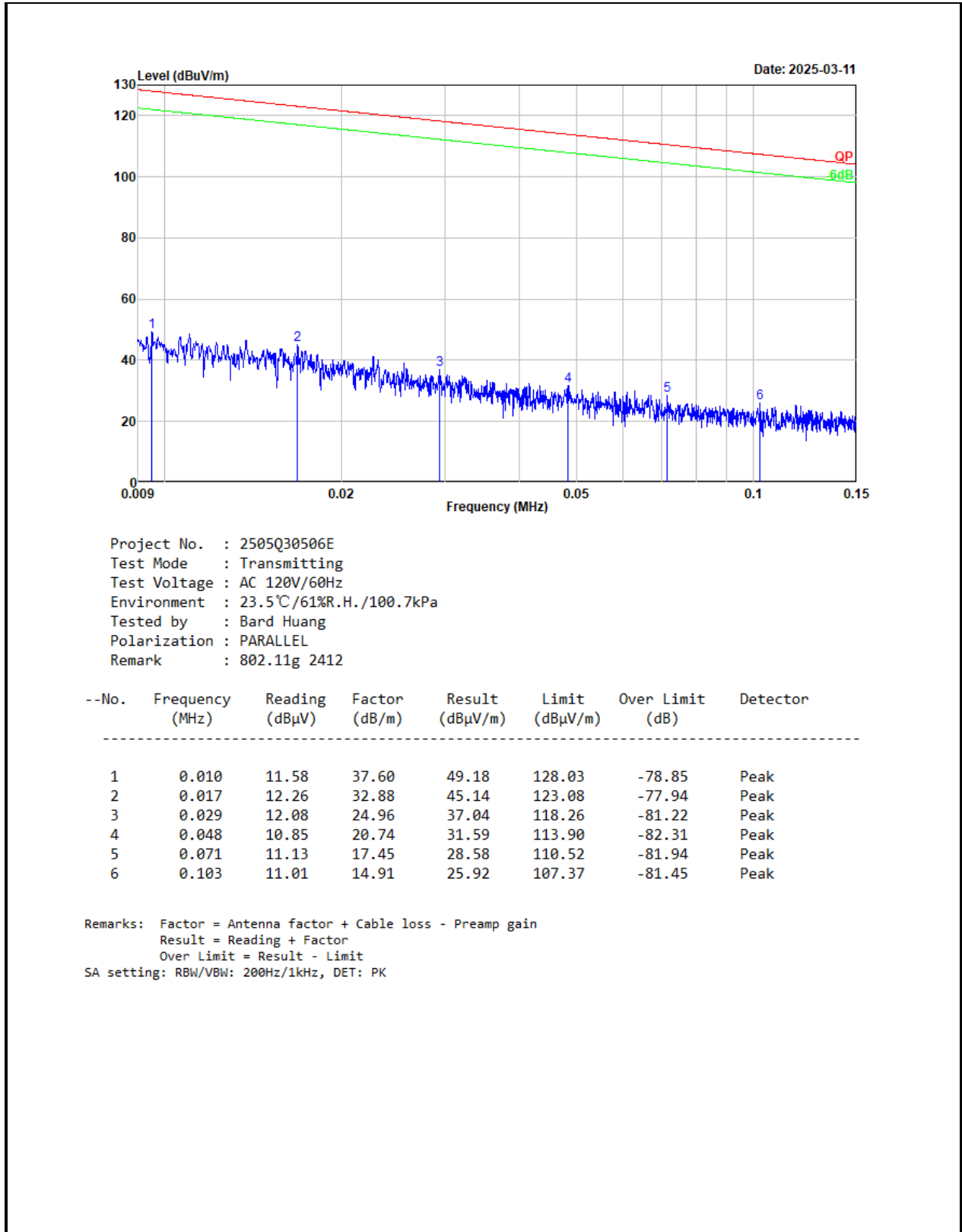
Over Limit = Measurement – Limit

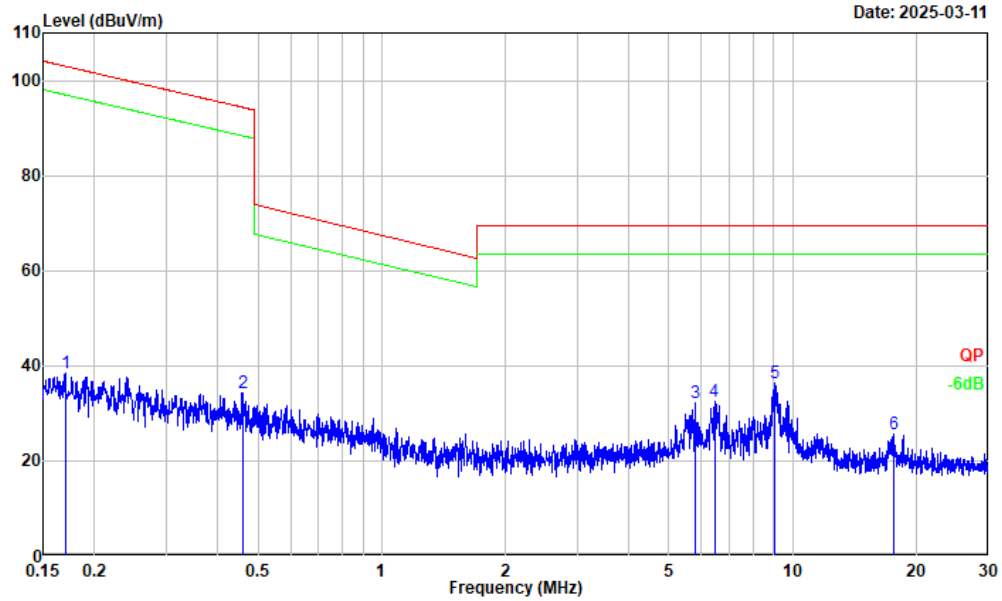
3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2025-03-11	Test By:	Bard Huang
Environment condition:	Temperature: 23.5°C; Relative Humidity:61%; ATM Pressure: 100.7kPa		

Model: TD-300-12WF-1 WiFi-M



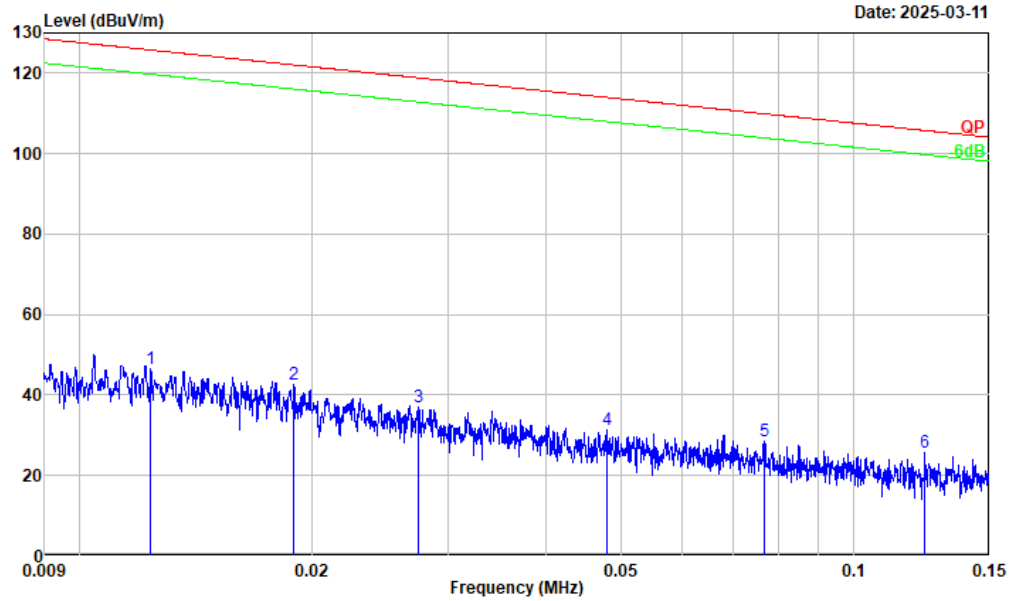


Project No. : 2505Q30506E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.5°C/61%R.H./100.7kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.170	25.29	13.02	38.31	103.01	-64.70	Peak
2	0.458	27.94	6.38	34.32	94.38	-60.06	Peak
3	5.792	36.18	-4.06	32.12	69.54	-37.42	Peak
4	6.451	36.43	-4.04	32.39	69.54	-37.15	Peak
5	9.040	40.13	-3.66	36.47	69.54	-33.07	Peak
6	17.627	28.91	-3.21	25.70	69.54	-43.84	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

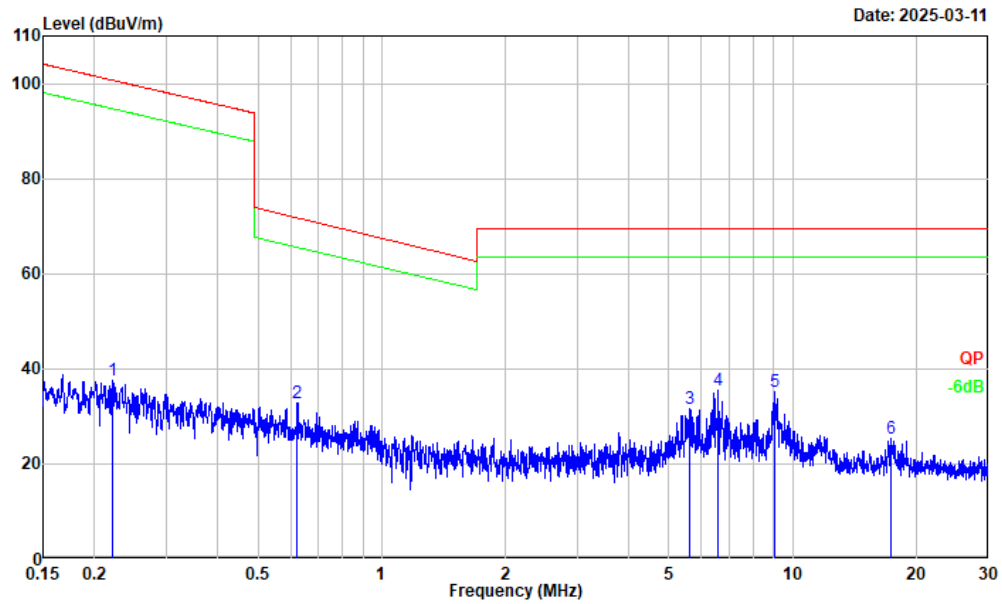
Model: TD-200-12WF-1 WiFi-M



Project No. : 2505Q30506E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.5°C/61%R.H./100.7kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.012	10.92	35.71	46.63	125.76	-79.13	Peak
2	0.019	11.11	31.55	42.66	122.07	-79.41	Peak
3	0.027	10.78	26.15	36.93	118.84	-81.91	Peak
4	0.048	10.44	20.81	31.25	113.96	-82.71	Peak
5	0.077	11.82	16.71	28.53	109.90	-81.37	Peak
6	0.124	11.29	14.32	25.61	105.76	-80.15	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 200Hz/1kHz, DET: PK



Project No. : 2505Q30506E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.5°C/61%R.H./100.7kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 802.11g 2412

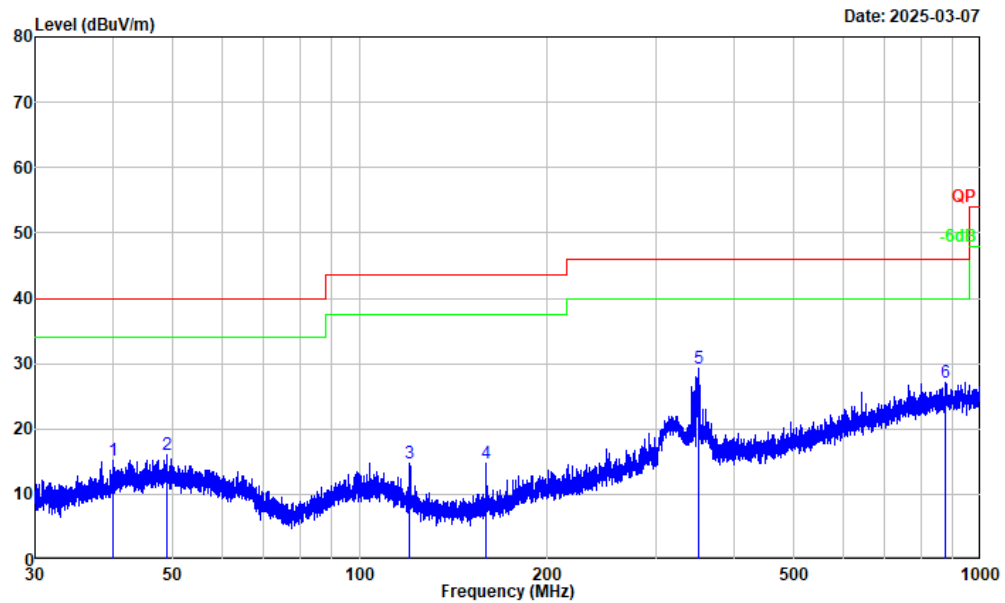
--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.222	25.90	11.54	37.44	100.68	-63.24	Peak
2	0.624	28.43	4.27	32.70	71.65	-38.95	Peak
3	5.620	35.57	-4.04	31.53	69.54	-38.01	Peak
4	6.566	39.43	-4.03	35.40	69.54	-34.14	Peak
5	9.056	38.69	-3.66	35.03	69.54	-34.51	Peak
6	17.318	28.58	-3.26	25.32	69.54	-44.22	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

30MHz-1GHz:

Test Date:	2025-03-07	Test By:	Bard Huang
Environment condition:	Temperature: 22.5°C; Relative Humidity:56%; ATM Pressure: 101.5kPa		

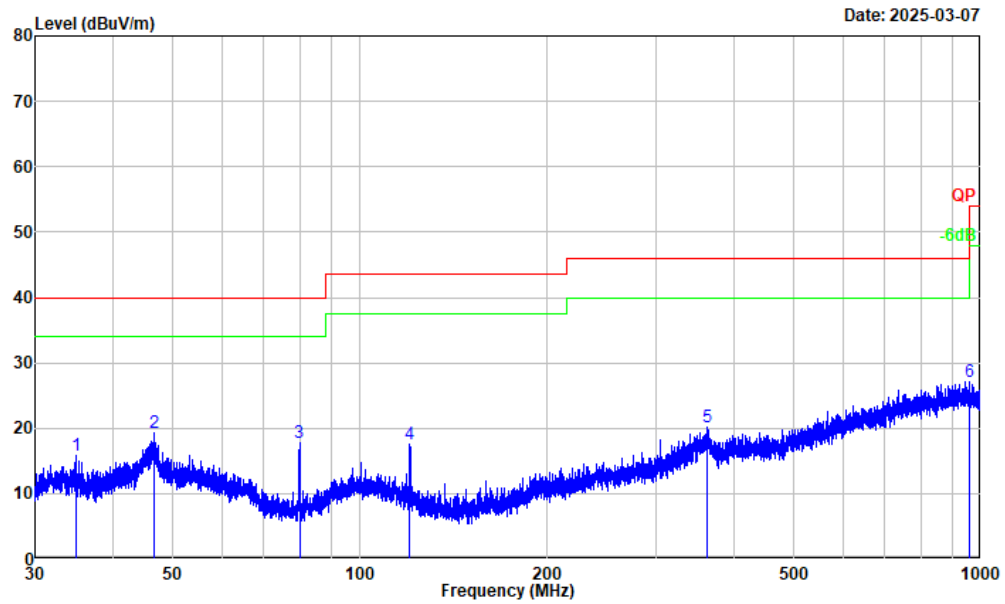
Model: TD-300-12WF-1 WiFi-M



Project No. : 2505Q30506
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/56%R.H./101.5kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	40.029	28.07	-13.00	15.07	40.00	-24.93	Peak
2	48.950	28.17	-12.08	16.09	40.00	-23.91	Peak
3	120.435	30.61	-15.83	14.78	43.50	-28.72	Peak
4	159.995	31.50	-16.78	14.72	43.50	-28.78	Peak
5	351.092	38.91	-9.59	29.32	46.00	-16.68	Peak
6	877.167	28.83	-1.70	27.13	46.00	-18.87	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

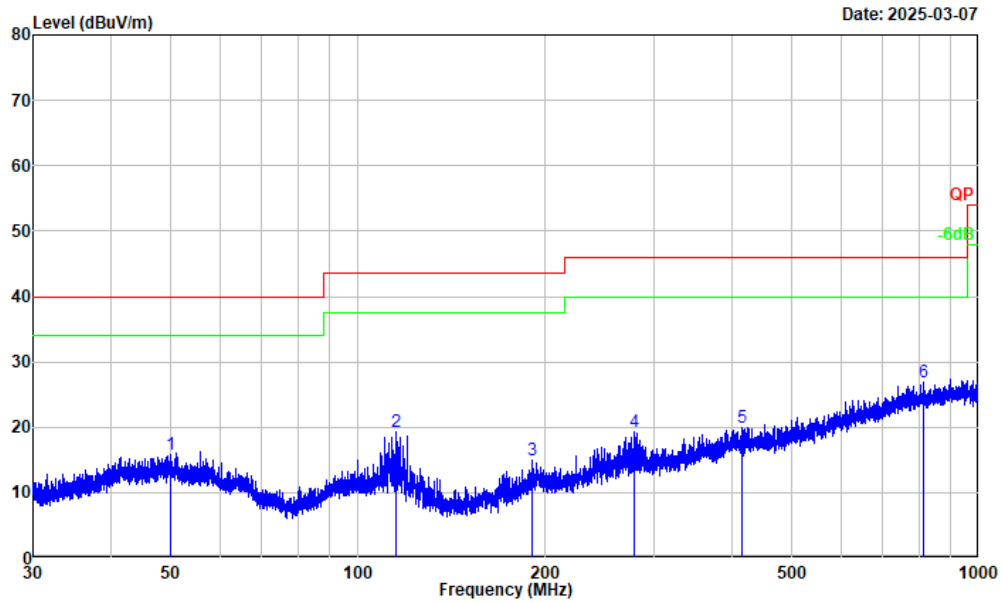


Project No. : 2505Q30506
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/56%R.H./101.5kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	34.898	30.47	-14.70	15.77	40.00	-24.23	Peak
2	46.605	31.44	-12.09	19.35	40.00	-20.65	Peak
3	79.975	35.81	-17.98	17.83	40.00	-22.17	Peak
4	120.488	33.30	-15.84	17.46	43.50	-26.04	Peak
5	362.985	29.68	-9.45	20.23	46.00	-25.77	Peak
6	957.534	28.09	-1.06	27.03	46.00	-18.97	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

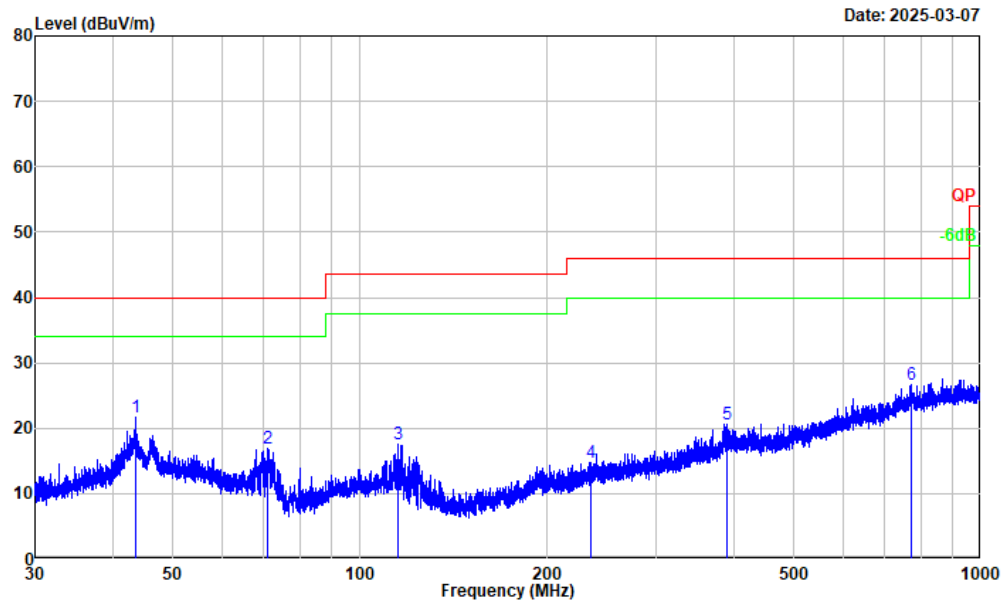
Model: TD-200-12WF-1 WiFi-M



Project No. : 2505Q30506
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/56%R.H./101.5kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	49.925	27.82	-12.07	15.75	40.00	-24.25	Peak
2	115.321	34.16	-14.93	19.23	43.50	-24.27	Peak
3	191.158	29.40	-14.43	14.97	43.50	-28.53	Peak
4	279.166	31.07	-11.74	19.33	46.00	-26.67	Peak
5	415.997	28.32	-8.37	19.95	46.00	-26.05	Peak
6	815.610	29.12	-2.28	26.84	46.00	-19.16	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2505Q30506
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/56%R.H./101.5kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	43.506	34.02	-12.25	21.77	40.00	-18.23	Peak
2	71.205	33.60	-16.74	16.86	40.00	-23.14	Peak
3	115.270	32.39	-14.92	17.47	43.50	-26.03	Peak
4	235.300	27.50	-12.73	14.77	46.00	-31.23	Peak
5	389.696	29.59	-8.91	20.68	46.00	-25.32	Peak
6	774.158	29.14	-2.48	26.66	46.00	-19.34	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-03-10	Test By:	Luke Li
Environment condition:	Temperature: 22.1°C; Relative Humidity:52%; ATM Pressure:101.1 kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
802.11b							
Low Channel							
1666.000	53.98	horizontal	-3.77	50.21	74.00	-23.79	Peak
1664.000	56.86	vertical	-3.78	53.08	74.00	-20.92	Peak
4824.000	50.68	horizontal	-2.29	48.39	74.00	-25.61	Peak
4824.000	52.71	vertical	-2.29	50.42	74.00	-23.58	Peak
Middle Channel							
1595.000	54.27	horizontal	-4.25	50.02	74.00	-23.98	Peak
1663.000	57.19	vertical	-3.78	53.41	74.00	-20.59	Peak
2129.000	56.04	vertical	-3.96	52.08	74.00	-21.92	Peak
4884.000	54.73	horizontal	-1.84	52.89	74.00	-21.11	Peak
4884.000	54.99	vertical	-1.84	53.15	74.00	-20.85	Peak
High Channel							
1973.000	51.40	horizontal	-5.25	46.15	74.00	-27.85	Peak
1662.000	53.57	vertical	-3.80	49.77	74.00	-24.23	Peak
4944.000	49.51	horizontal	-1.70	47.81	74.00	-26.19	Peak
4944.000	51.13	vertical	-1.70	49.43	74.00	-24.57	Peak
802.11g							
Low Channel							
1666.000	51.97	horizontal	-3.77	48.20	74.00	-25.80	Peak
1592.000	55.53	vertical	-4.28	51.25	74.00	-22.75	Peak
4824.000	47.43	horizontal	-2.29	45.14	74.00	-28.86	Peak
4824.000	48.04	vertical	-2.29	45.75	74.00	-28.25	Peak
Middle Channel							
1663.000	50.52	horizontal	-3.78	46.74	74.00	-27.26	Peak
1666.000	54.94	vertical	-3.77	51.17	74.00	-22.83	Peak
2125.000	55.30	vertical	-3.98	51.32	74.00	-22.68	Peak
4884.000	48.69	horizontal	-1.84	46.85	74.00	-27.15	Peak
4884.000	50.97	vertical	-1.84	49.13	74.00	-24.87	Peak

High Channel							
1596.000	51.77	horizontal	-4.24	47.53	74.00	-26.47	Peak
1599.000	55.52	vertical	-4.22	51.30	74.00	-22.70	Peak
4944.000	48.50	horizontal	-1.70	46.80	74.00	-27.20	Peak
4944.000	50.72	vertical	-1.70	49.02	74.00	-24.98	Peak
802.11n20							
Low Channel							
2129.000	51.43	horizontal	-3.96	47.47	74.00	-26.53	Peak
1603.000	51.66	vertical	-4.19	47.47	74.00	-26.53	Peak
2367.000	54.55	vertical	-2.91	51.64	74.00	-22.36	Peak
4824.000	49.38	horizontal	-2.29	47.09	74.00	-26.91	Peak
4824.000	47.41	vertical	-2.29	45.12	74.00	-28.88	Peak
Middle Channel							
1975.000	51.78	horizontal	-5.28	46.50	74.00	-27.50	Peak
1595.000	55.78	vertical	-4.25	51.53	74.00	-22.47	Peak
4884.000	47.99	horizontal	-1.84	46.15	74.00	-27.85	Peak
4884.000	48.52	vertical	-1.84	46.68	74.00	-27.32	Peak
High Channel							
1975.000	51.87	horizontal	-5.28	46.59	74.00	-27.41	Peak
1594.000	55.10	vertical	-4.26	50.84	74.00	-23.16	Peak
4944.000	48.02	horizontal	-1.70	46.32	74.00	-27.68	Peak
4944.000	48.24	vertical	-1.70	46.54	74.00	-27.46	Peak
802.11n40							
Low Channel							
1663.000	51.89	horizontal	-3.78	48.11	74.00	-25.89	Peak
1976.000	51.93	vertical	-5.29	46.64	74.00	-27.36	Peak
4844.000	47.55	horizontal	-2.17	45.38	74.00	-28.62	Peak
4844.000	48.09	vertical	-2.17	45.92	74.00	-28.08	Peak
Middle Channel							
1975.000	51.47	horizontal	-5.28	46.19	74.00	-27.81	Peak
1663.000	56.03	vertical	-3.78	52.25	74.00	-21.75	Peak
4884.000	47.33	horizontal	-1.84	45.49	74.00	-28.51	Peak
4884.000	47.98	vertical	-1.84	46.14	74.00	-27.86	Peak
High Channel							
1596.000	52.76	horizontal	-4.24	48.52	74.00	-25.48	Peak

1667.000	52.10	horizontal	-3.77	48.33	74.00	-25.67	Peak
1595.000	55.12	vertical	-4.25	50.87	74.00	-23.13	Peak
1663.000	56.04	vertical	-3.78	52.26	74.00	-21.74	Peak
2130.000	54.56	vertical	-3.96	50.60	74.00	-23.40	Peak
2239.000	53.65	vertical	-3.13	50.52	74.00	-23.48	Peak
2560.000	54.97	vertical	-2.60	52.37	74.00	-21.63	Peak
2663.000	53.51	vertical	-2.41	51.10	74.00	-22.90	Peak
4924.000	48.50	horizontal	-1.70	46.80	74.00	-27.20	Peak
4924.000	47.39	vertical	-1.70	45.69	74.00	-28.31	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

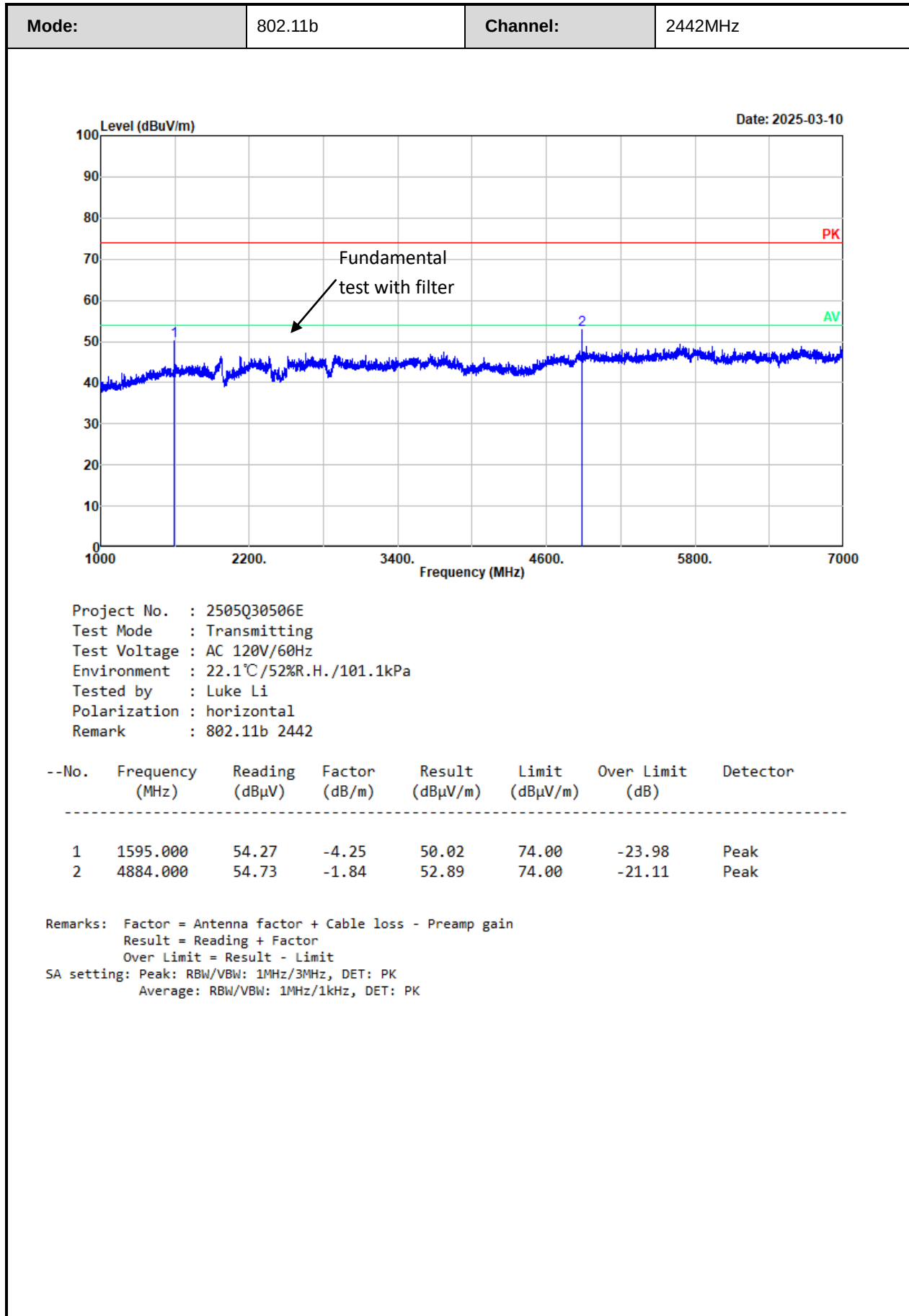
Margin = Corrected Amplitude – Limit

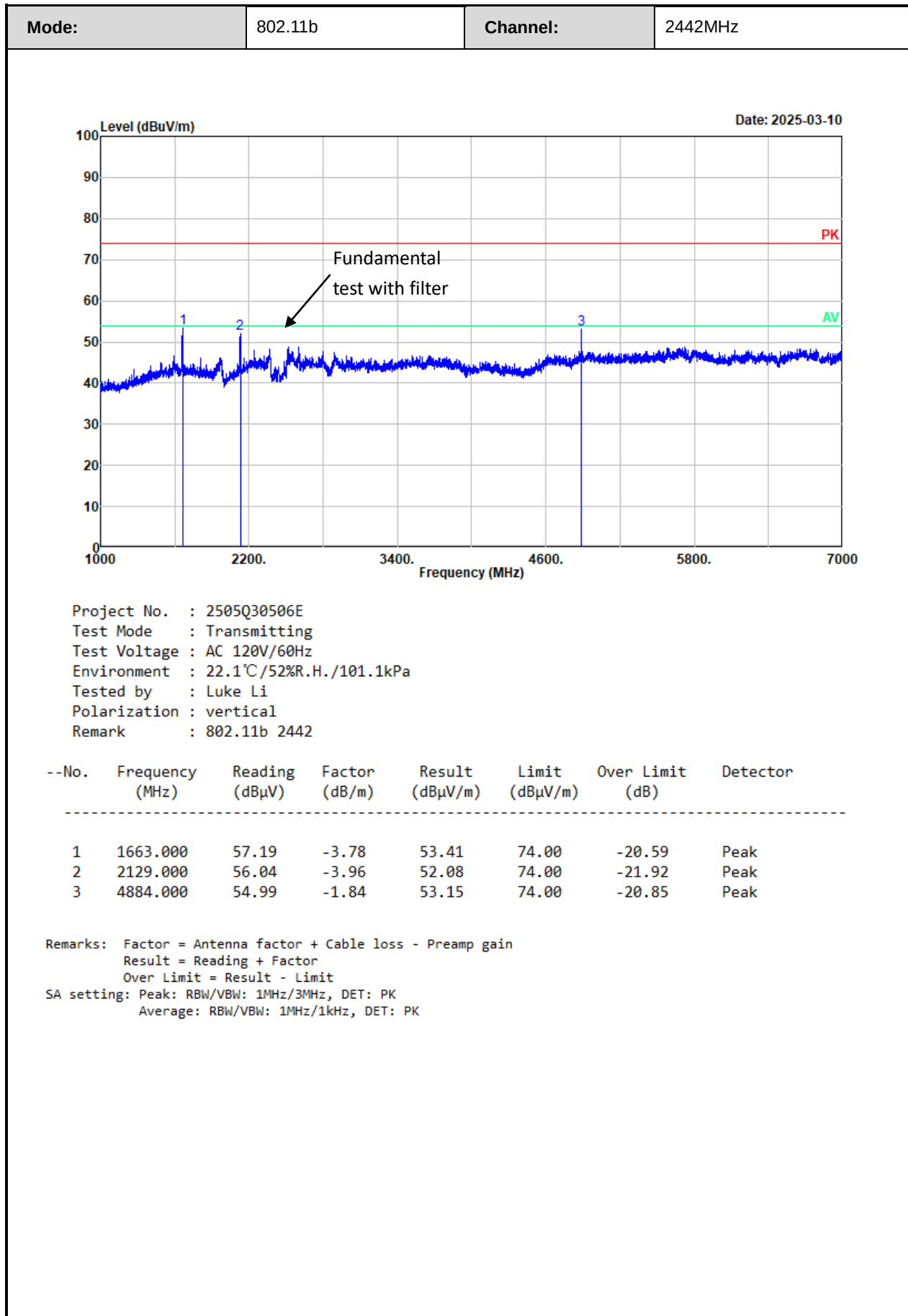
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

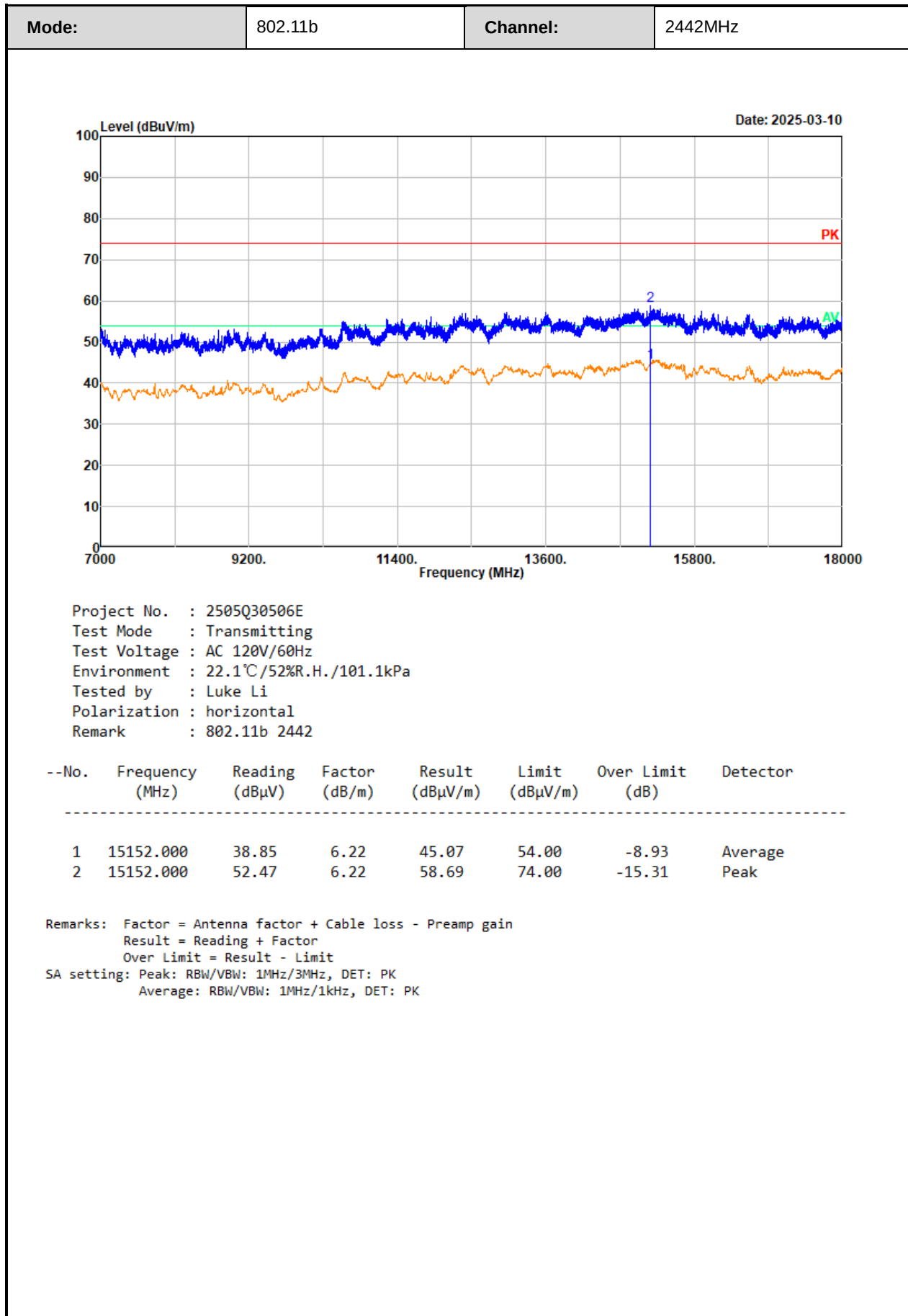
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

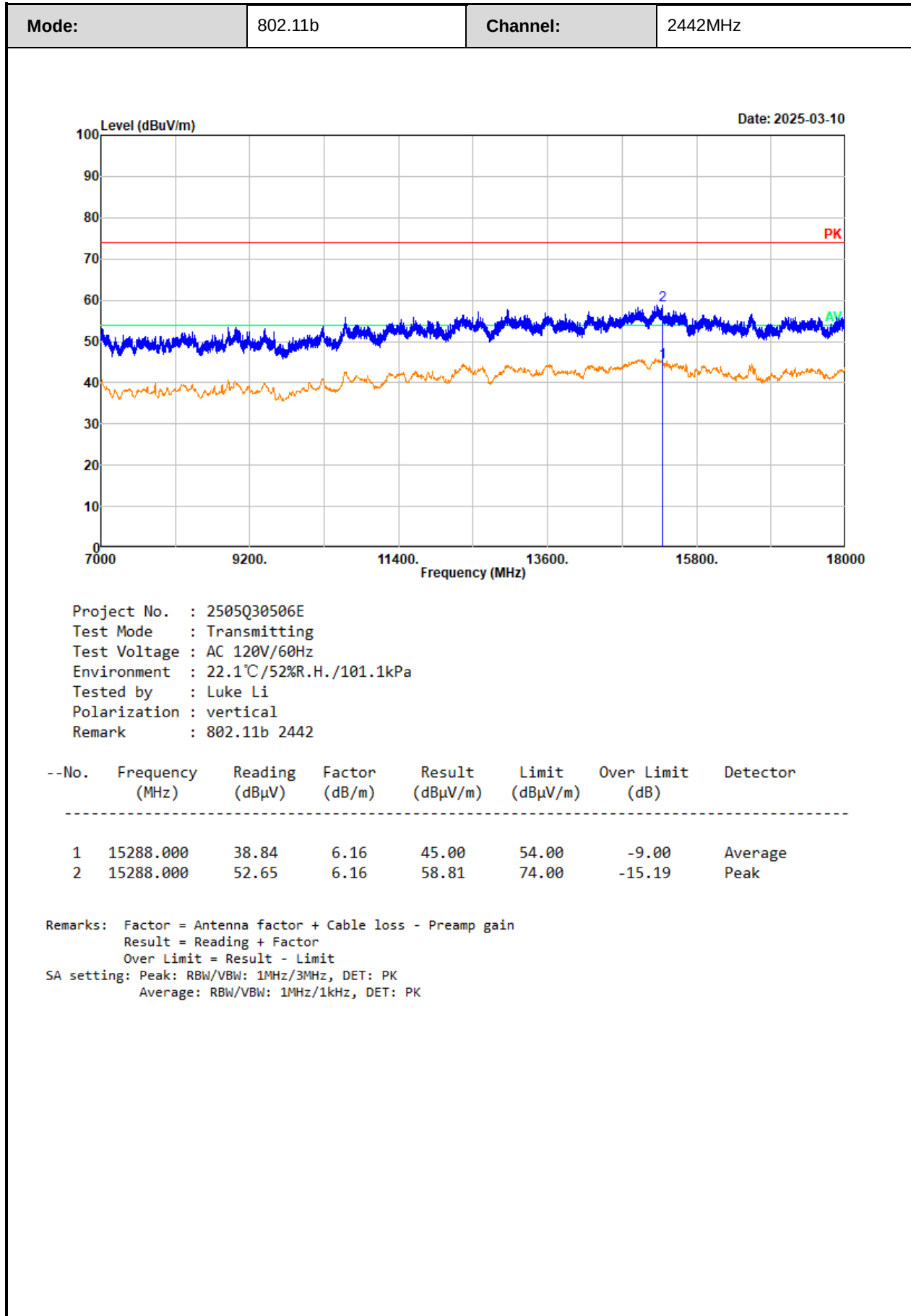
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

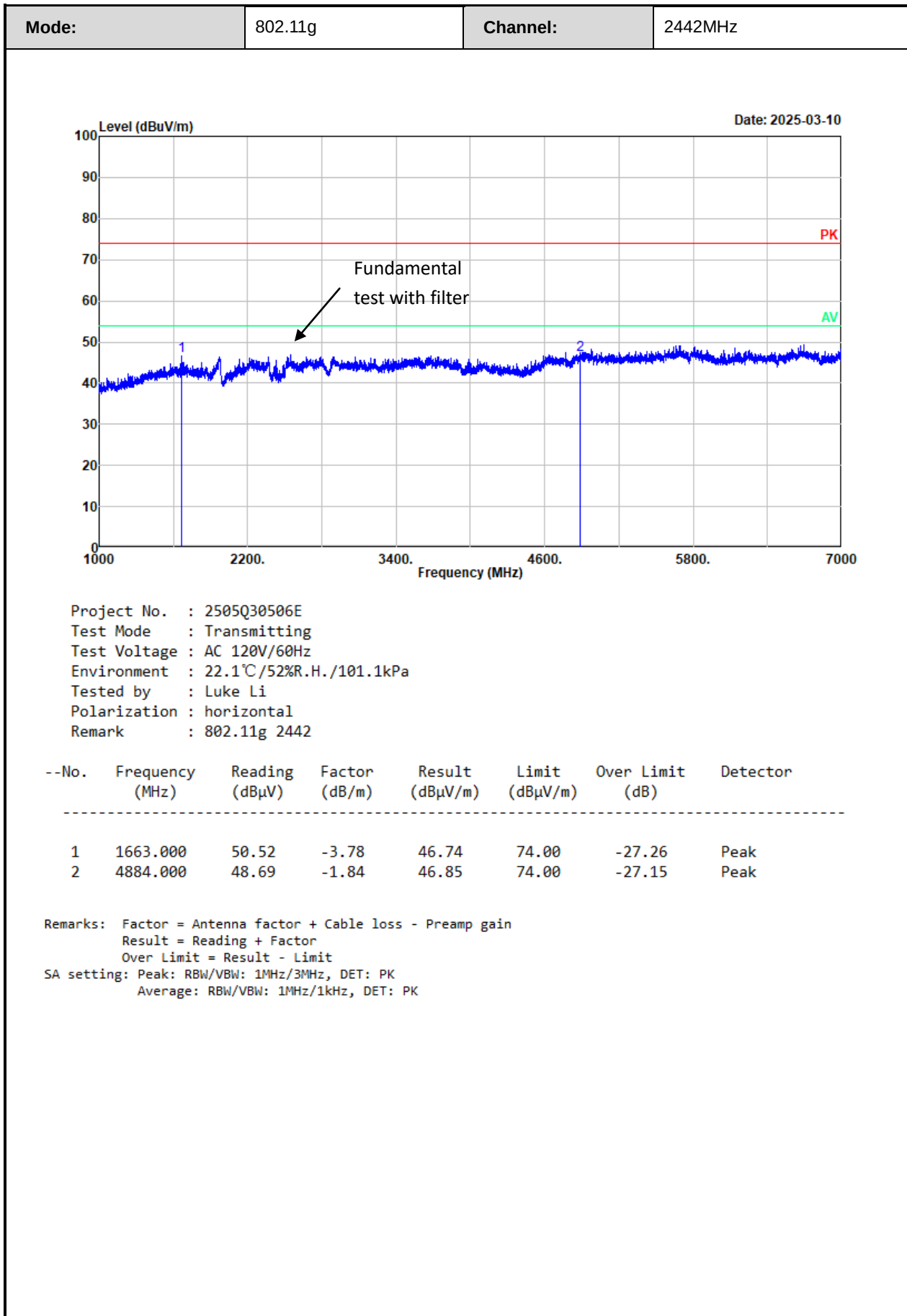
Test plot for example as below:

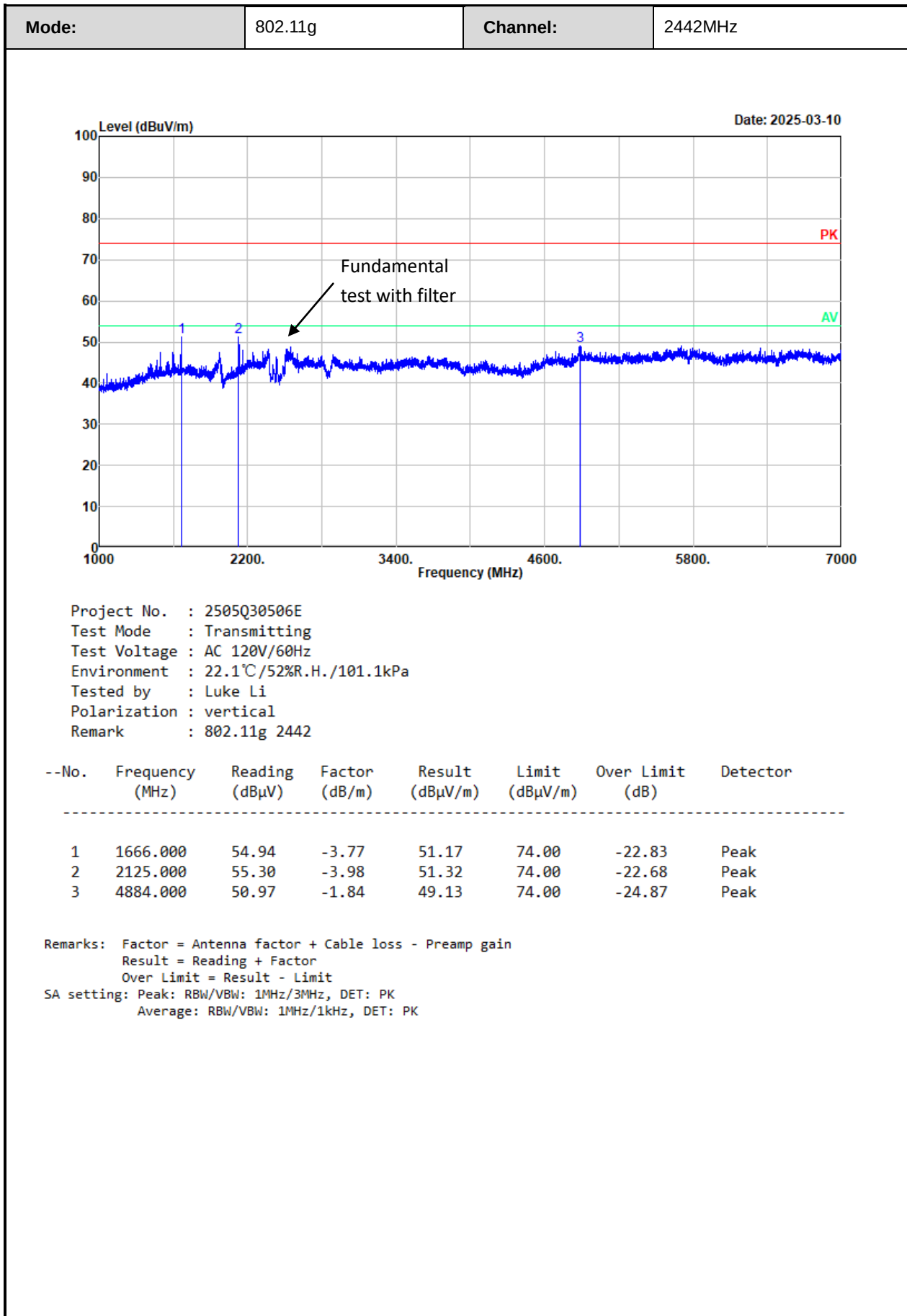


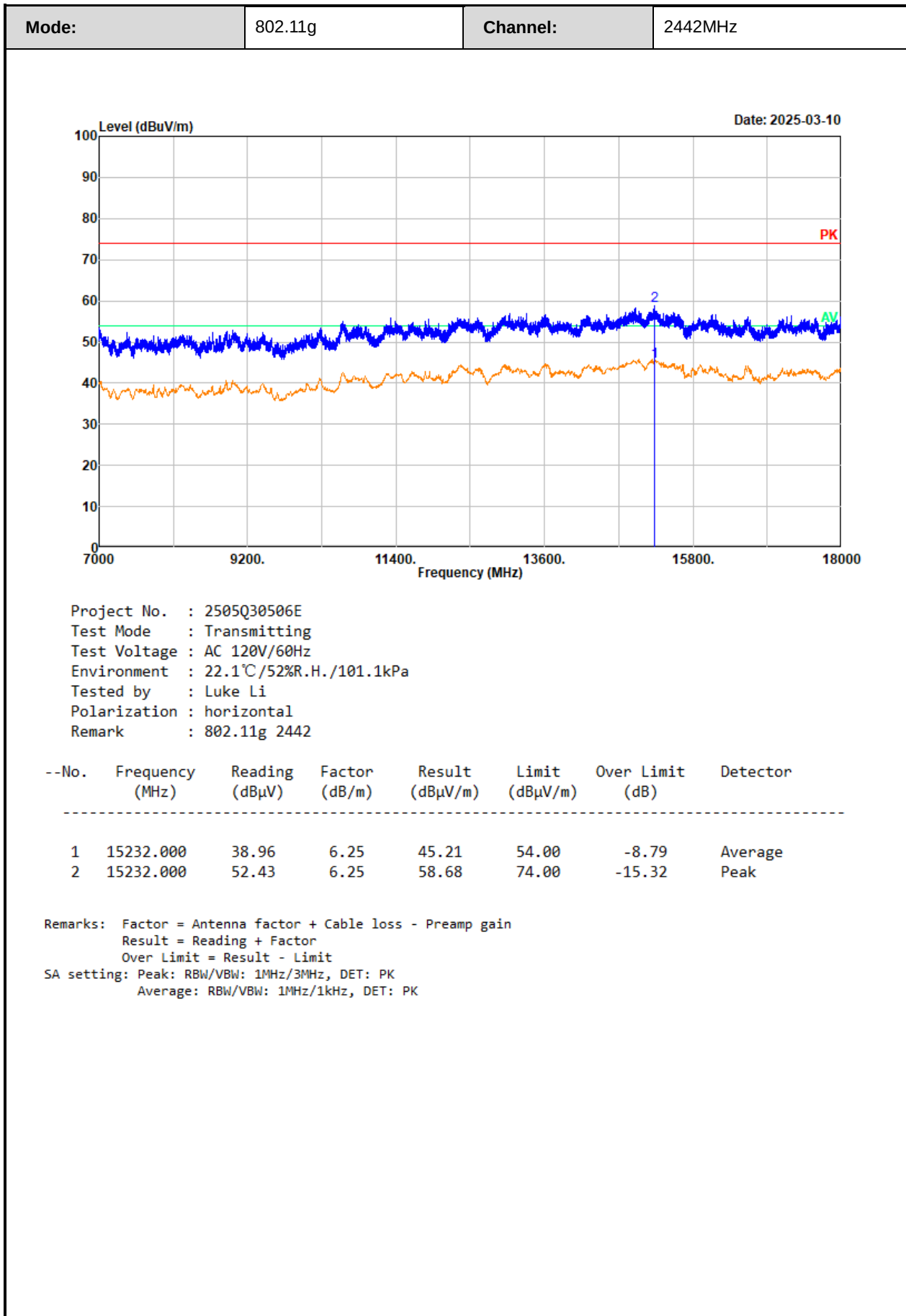


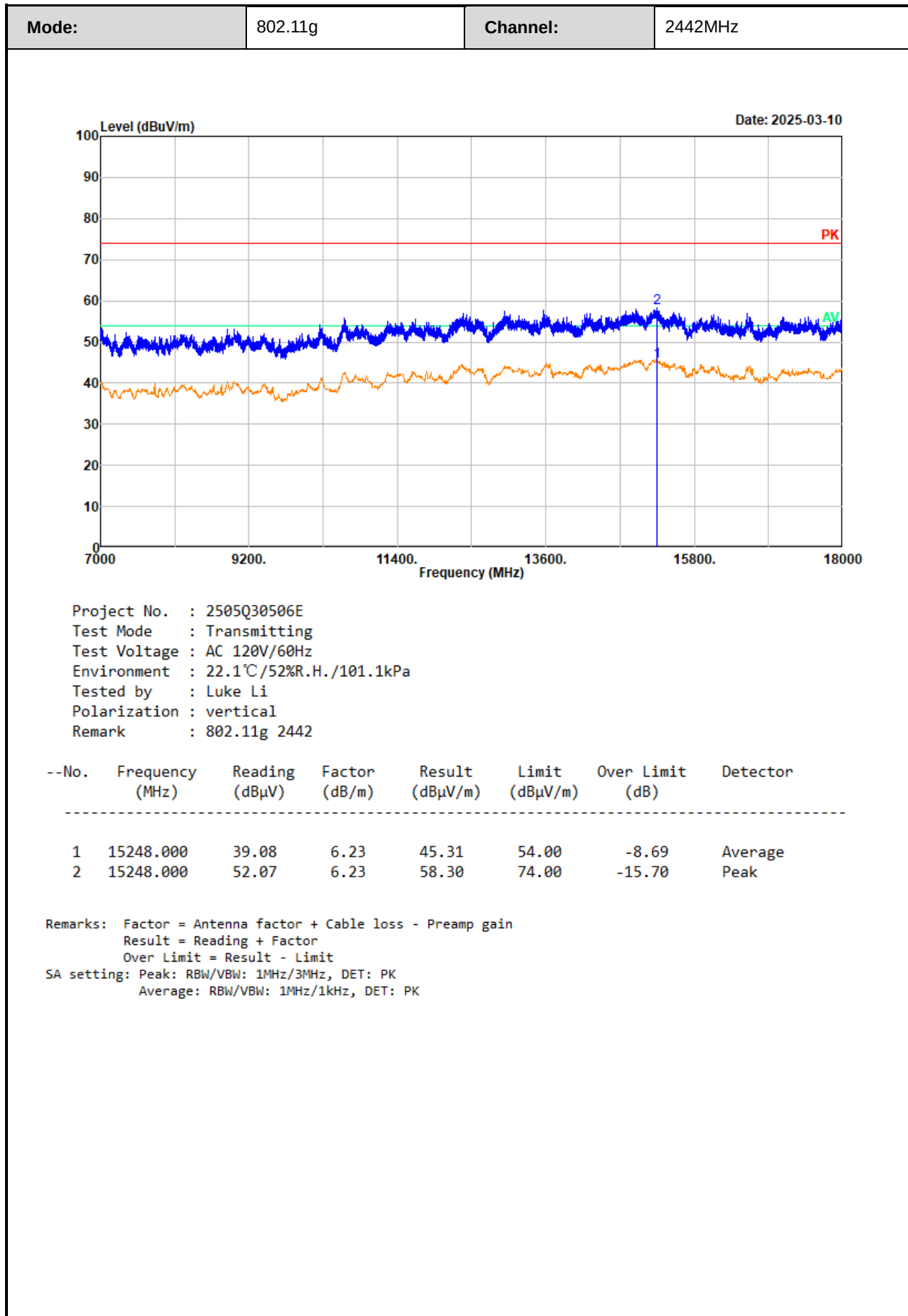


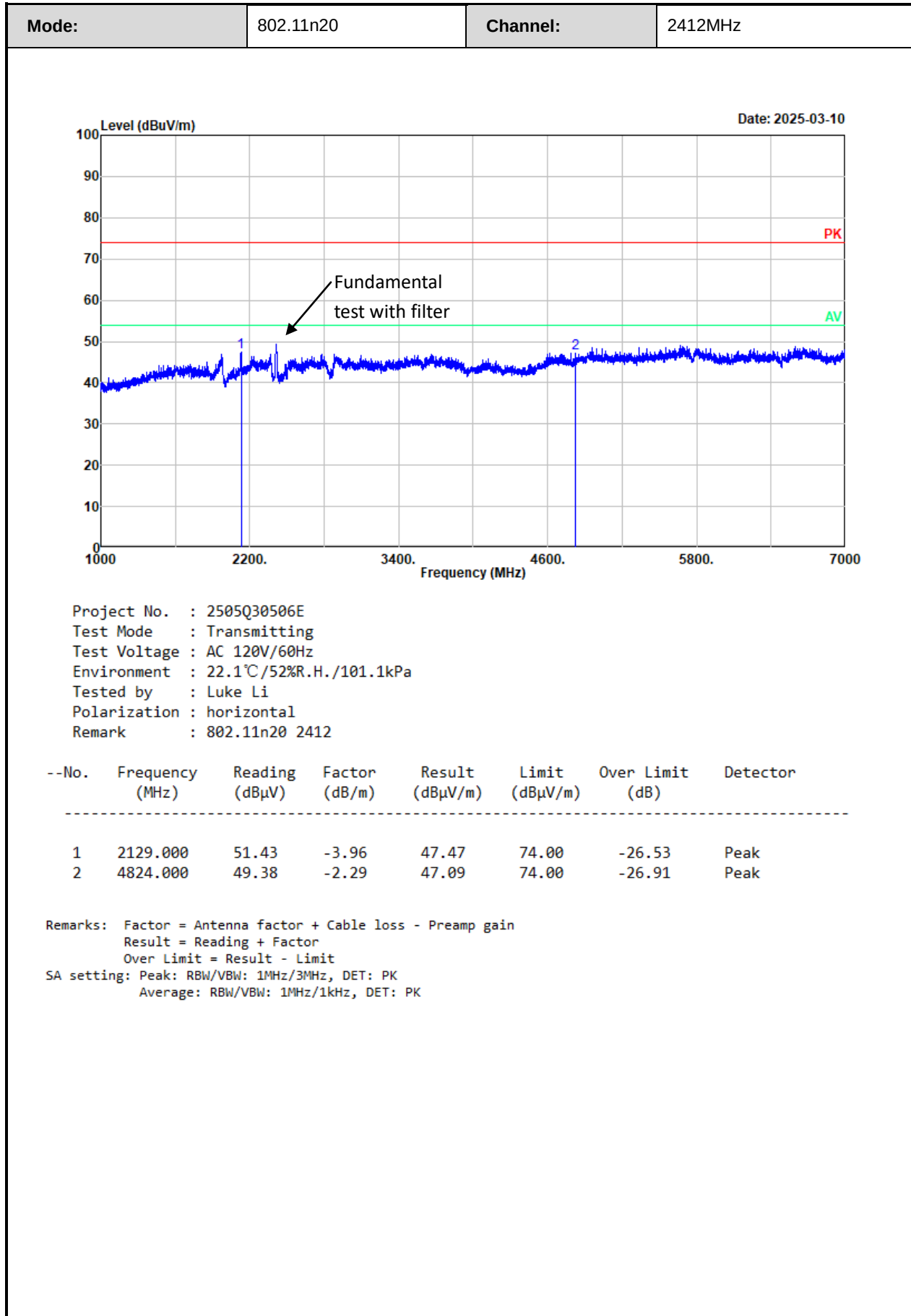


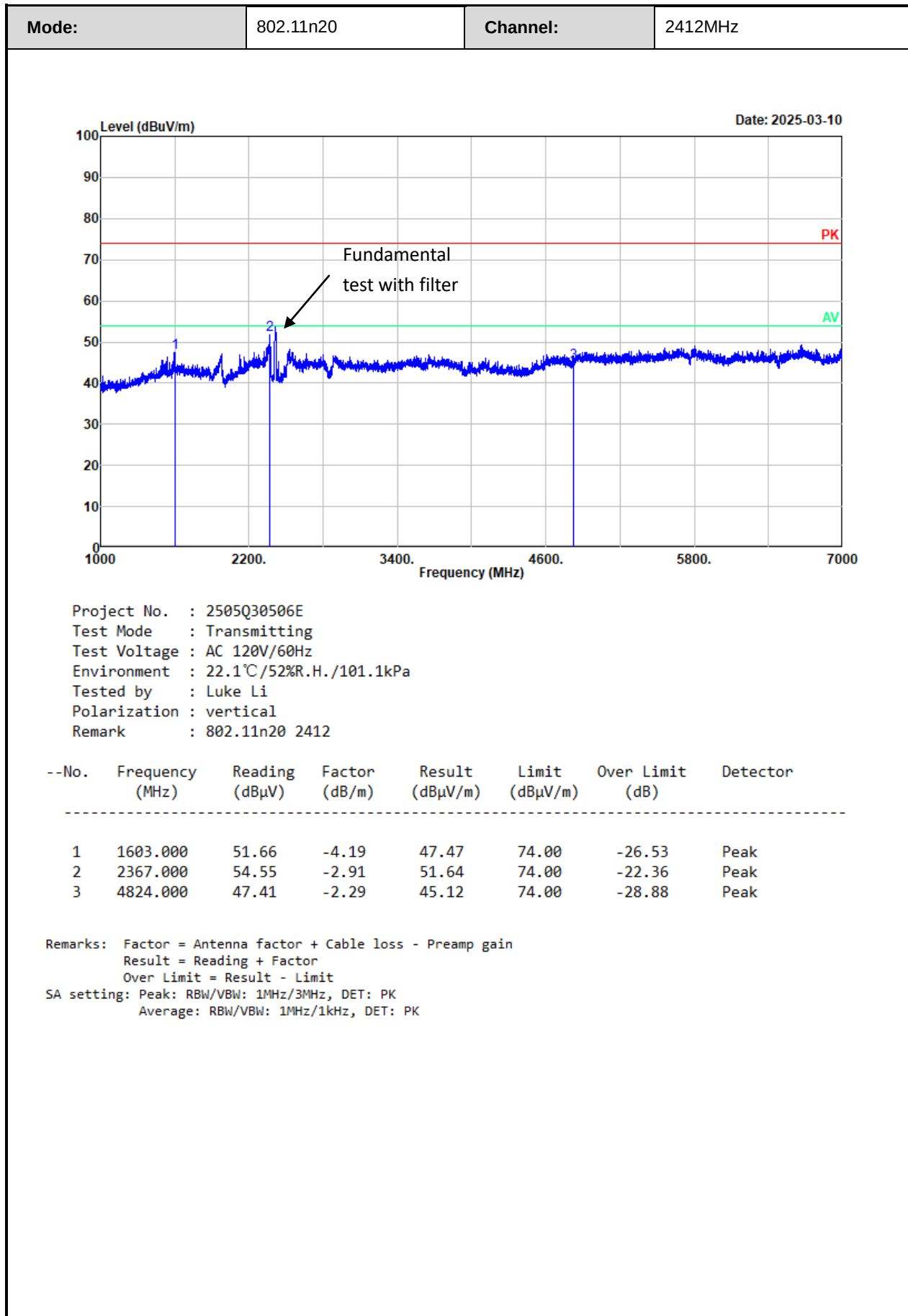


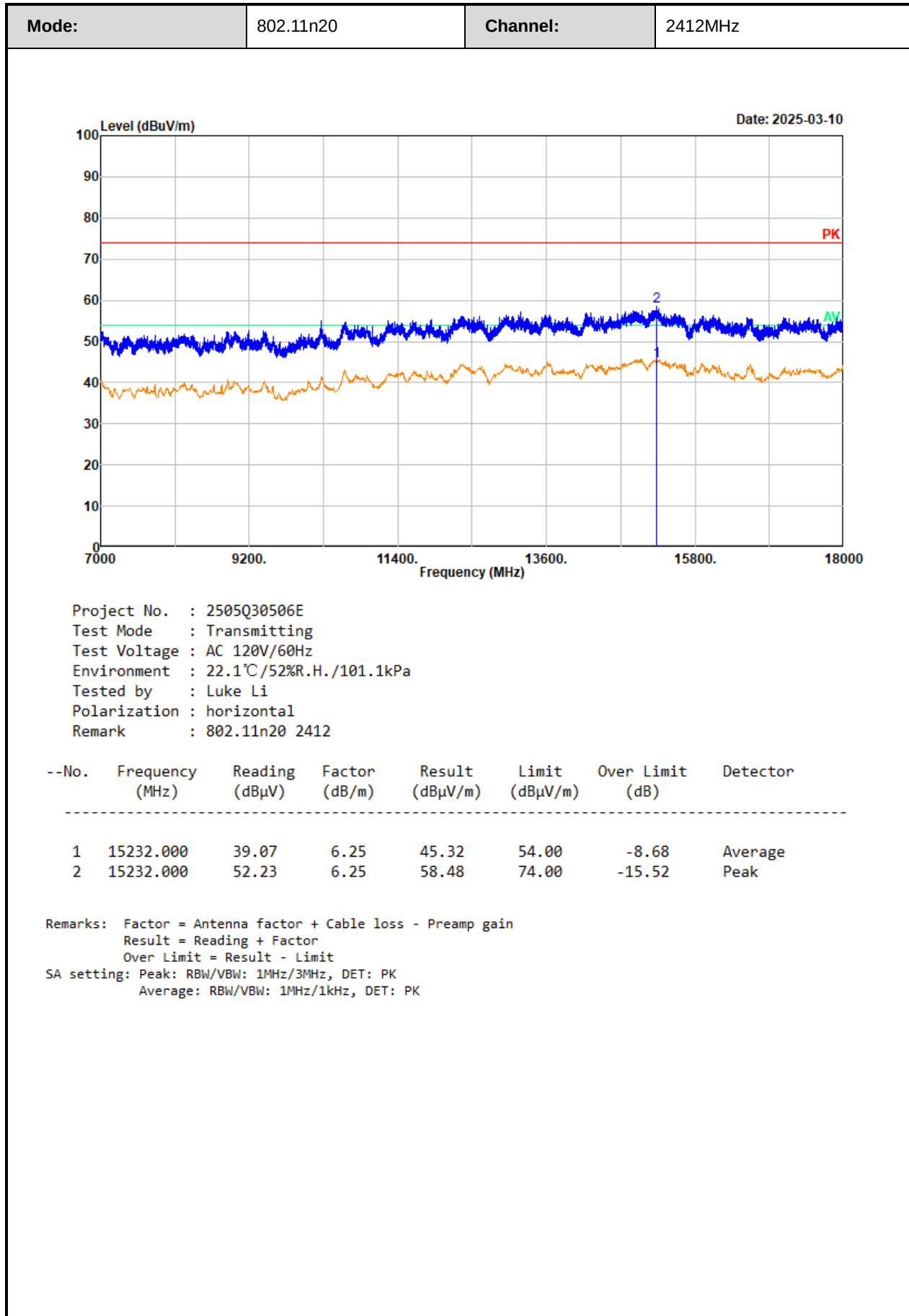


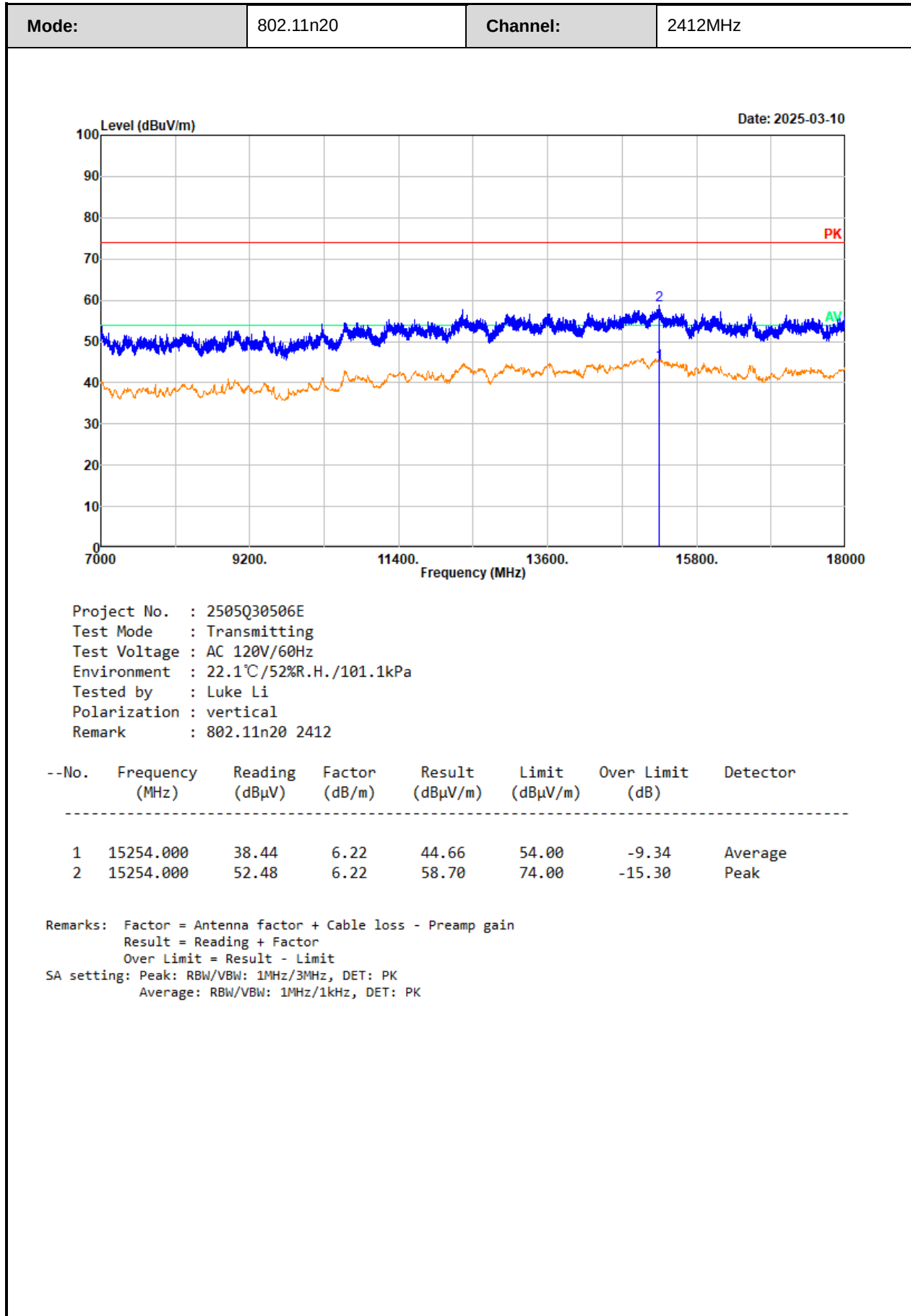


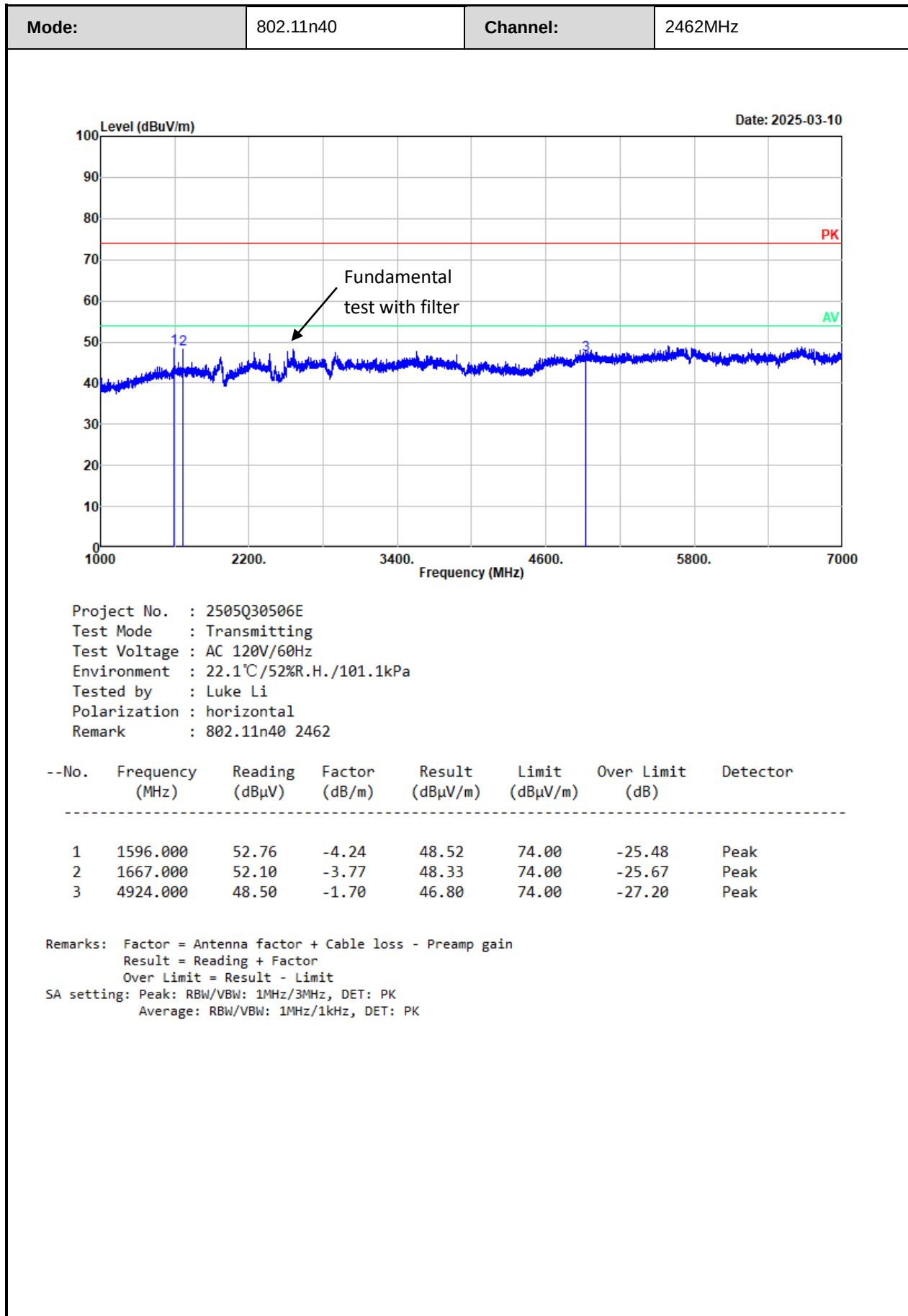


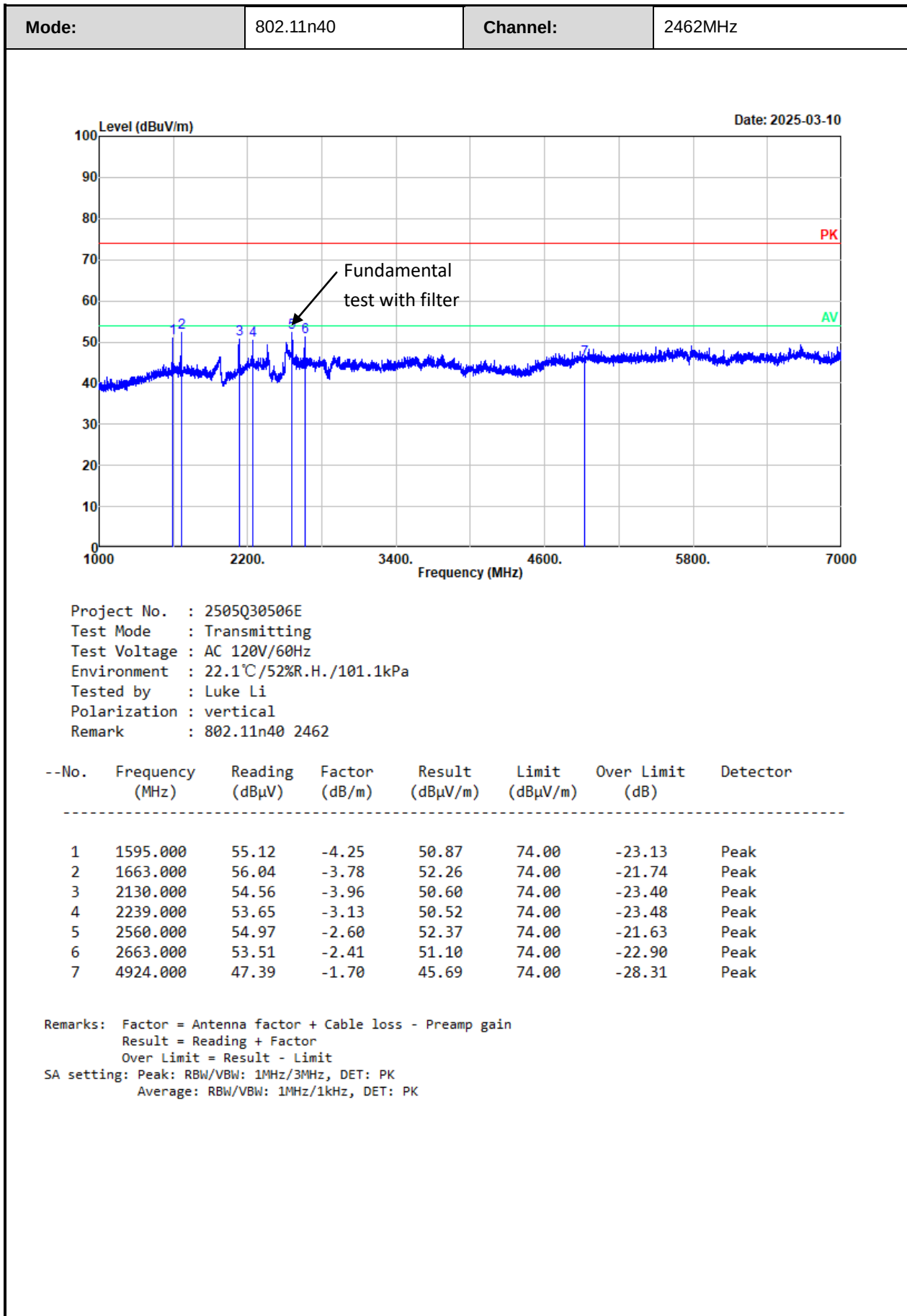


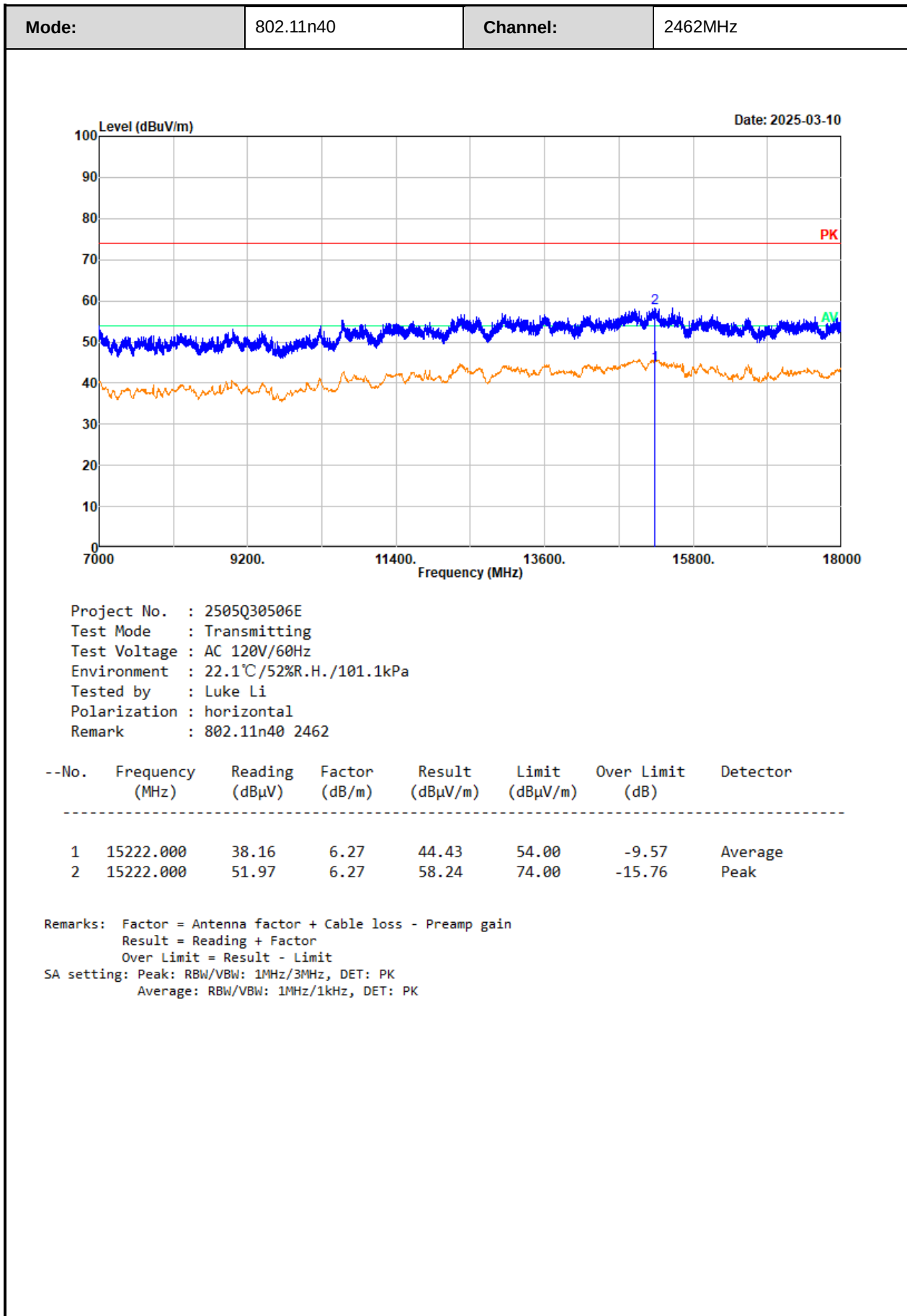


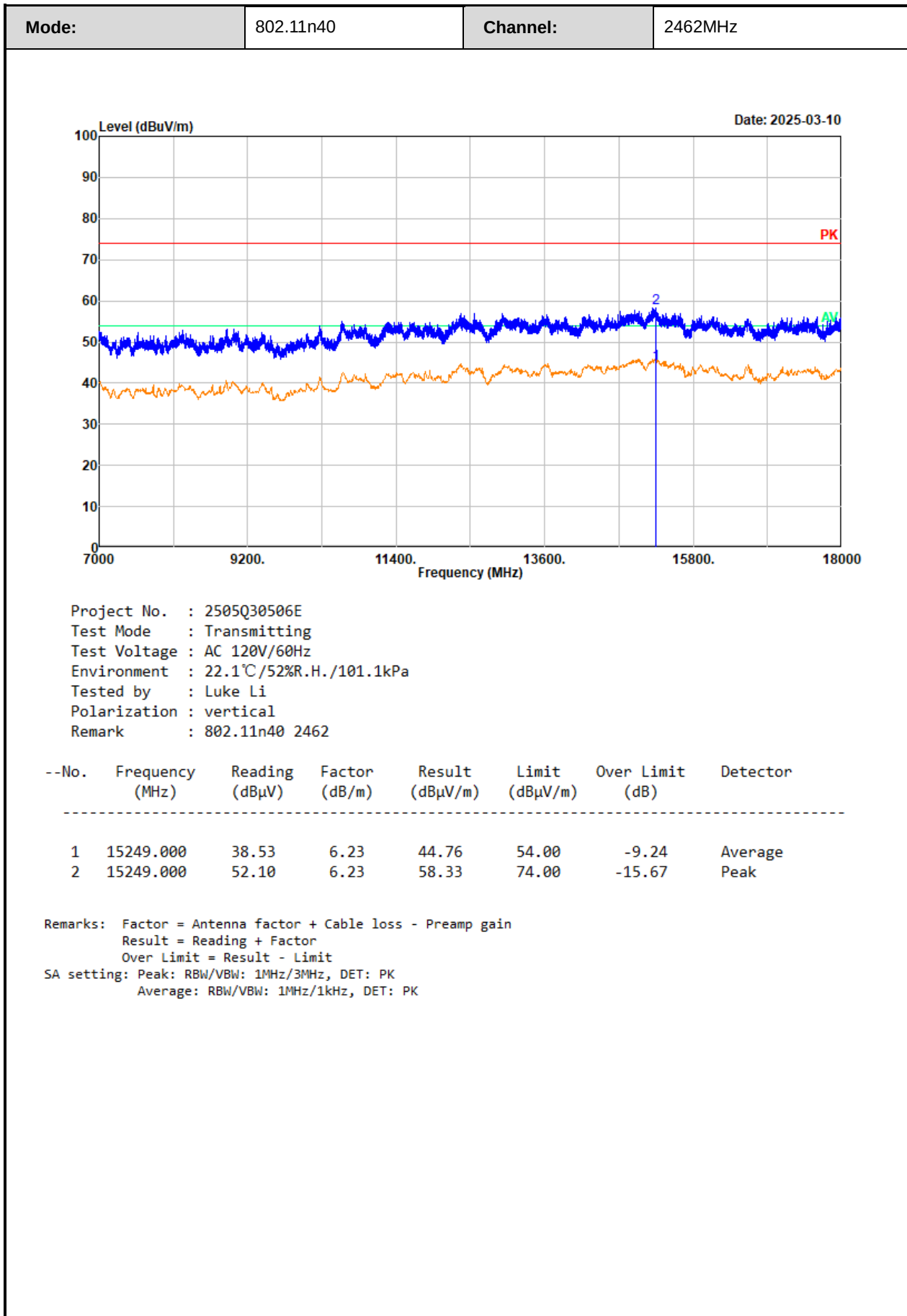


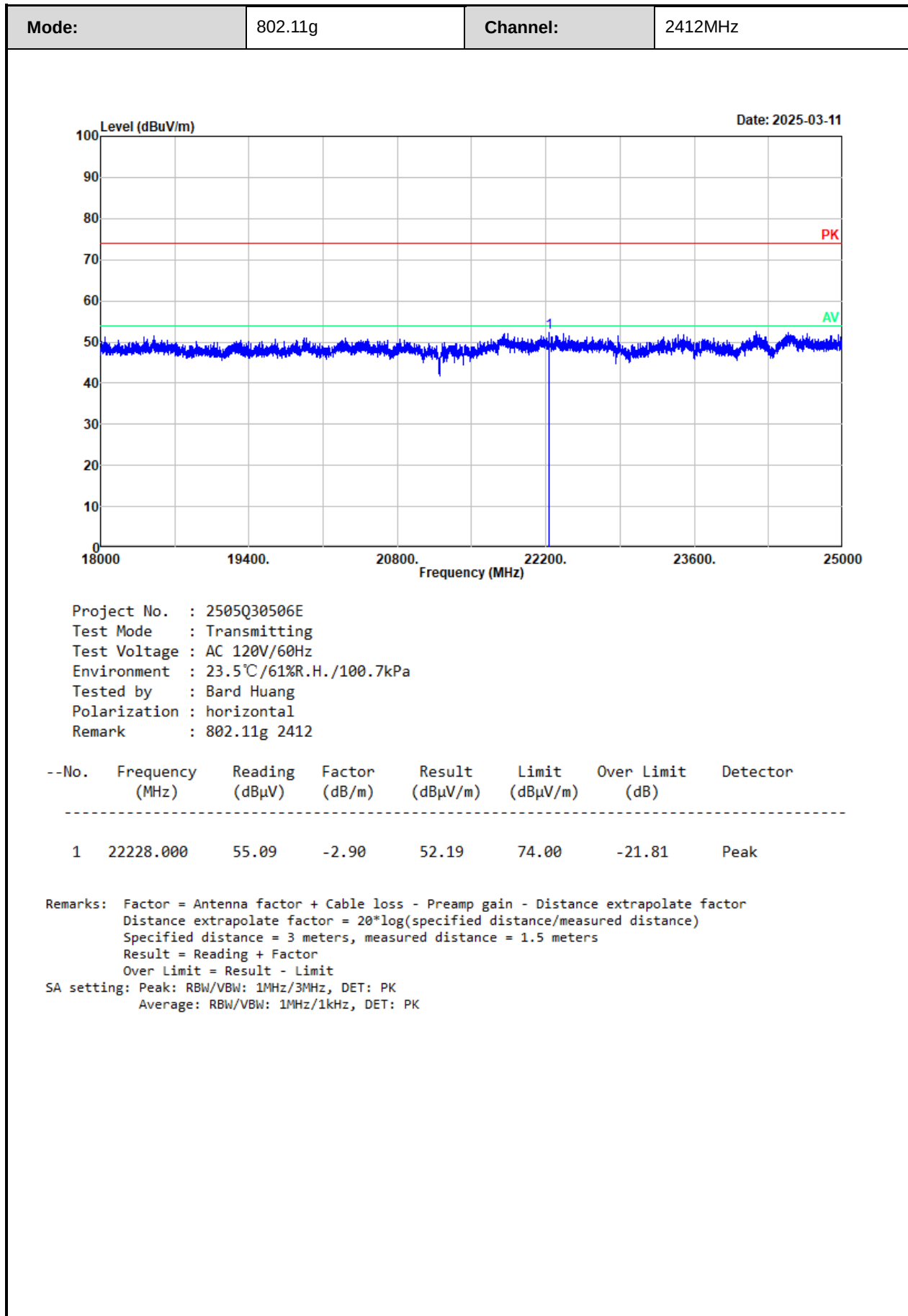


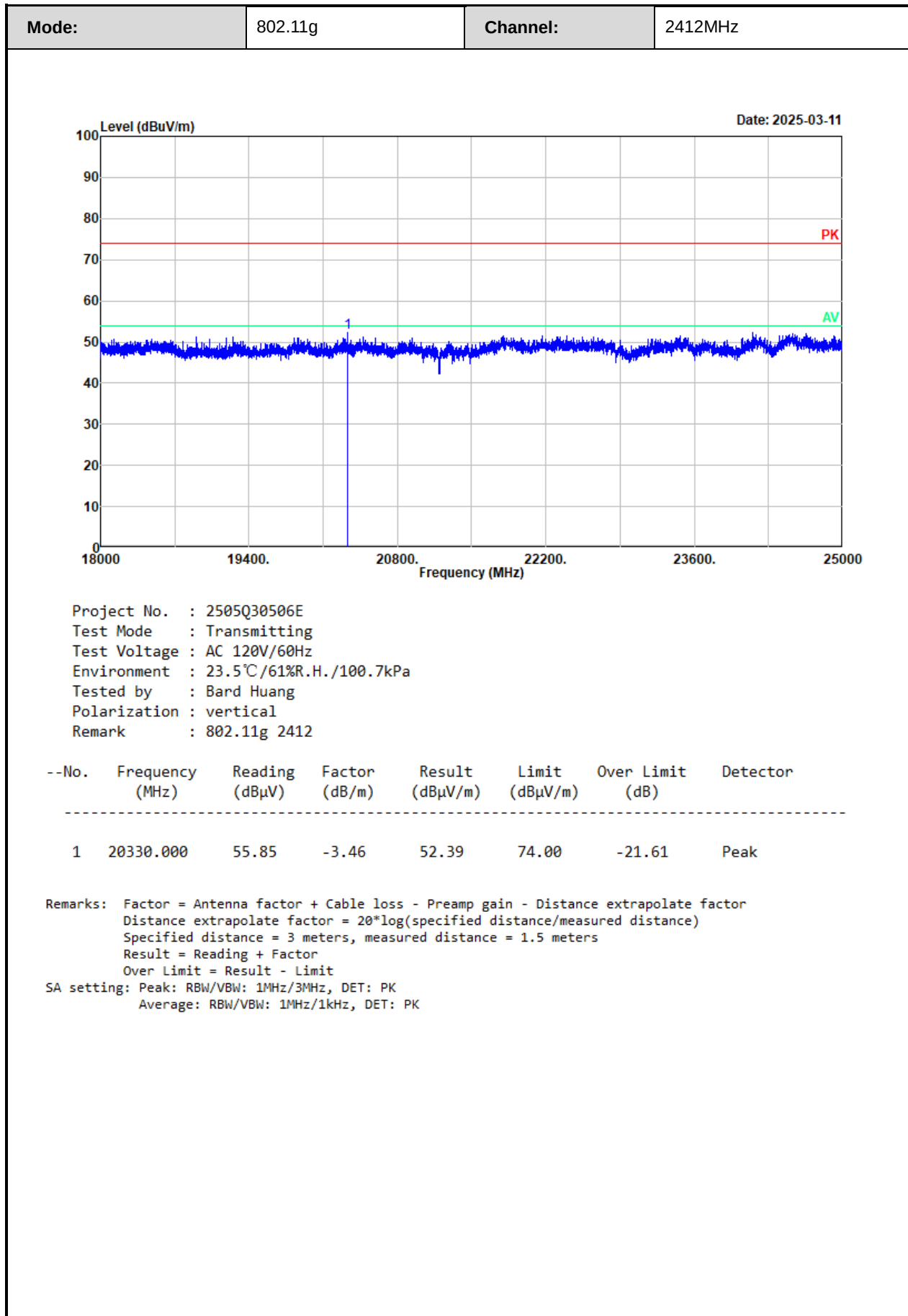




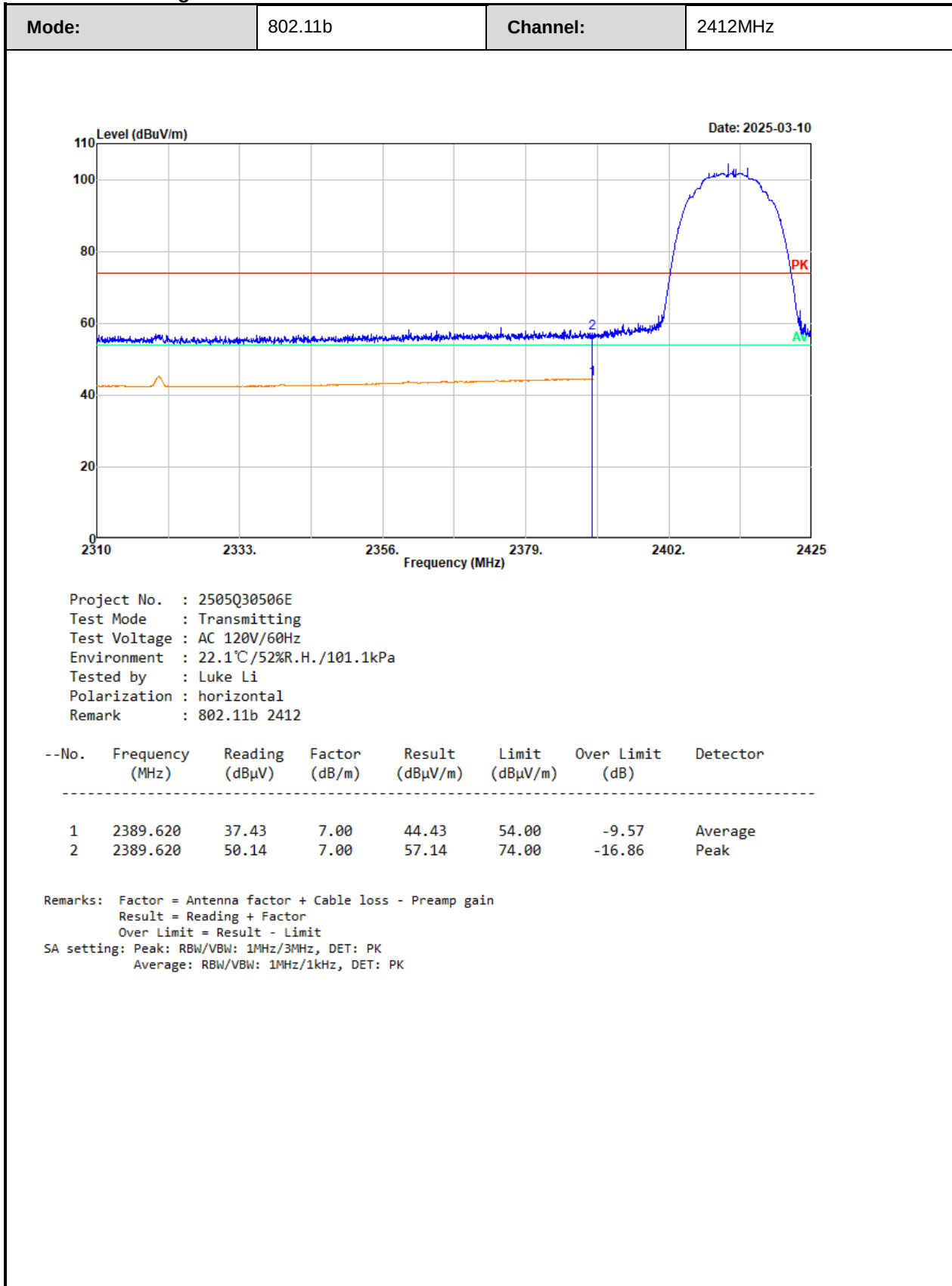


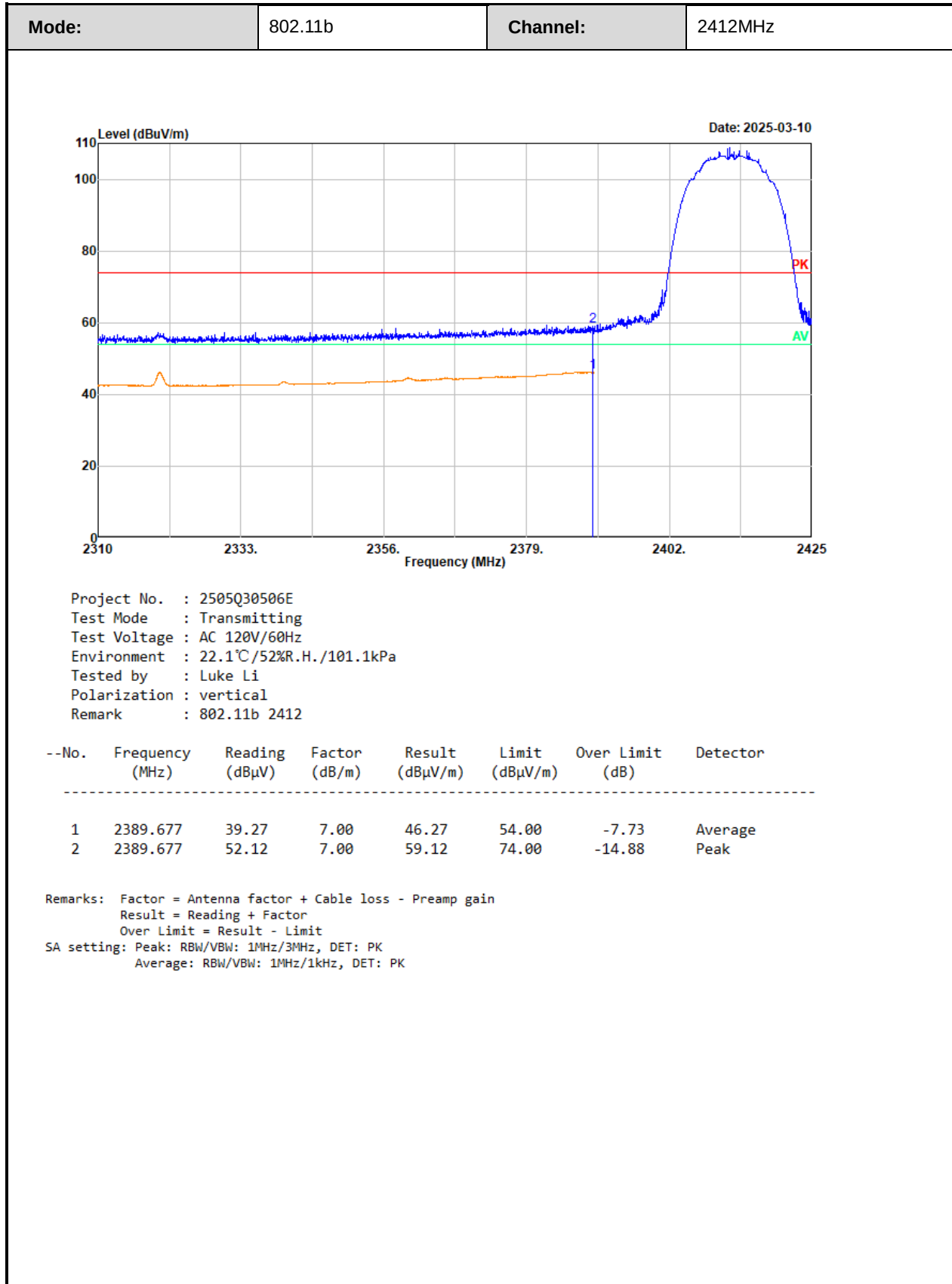


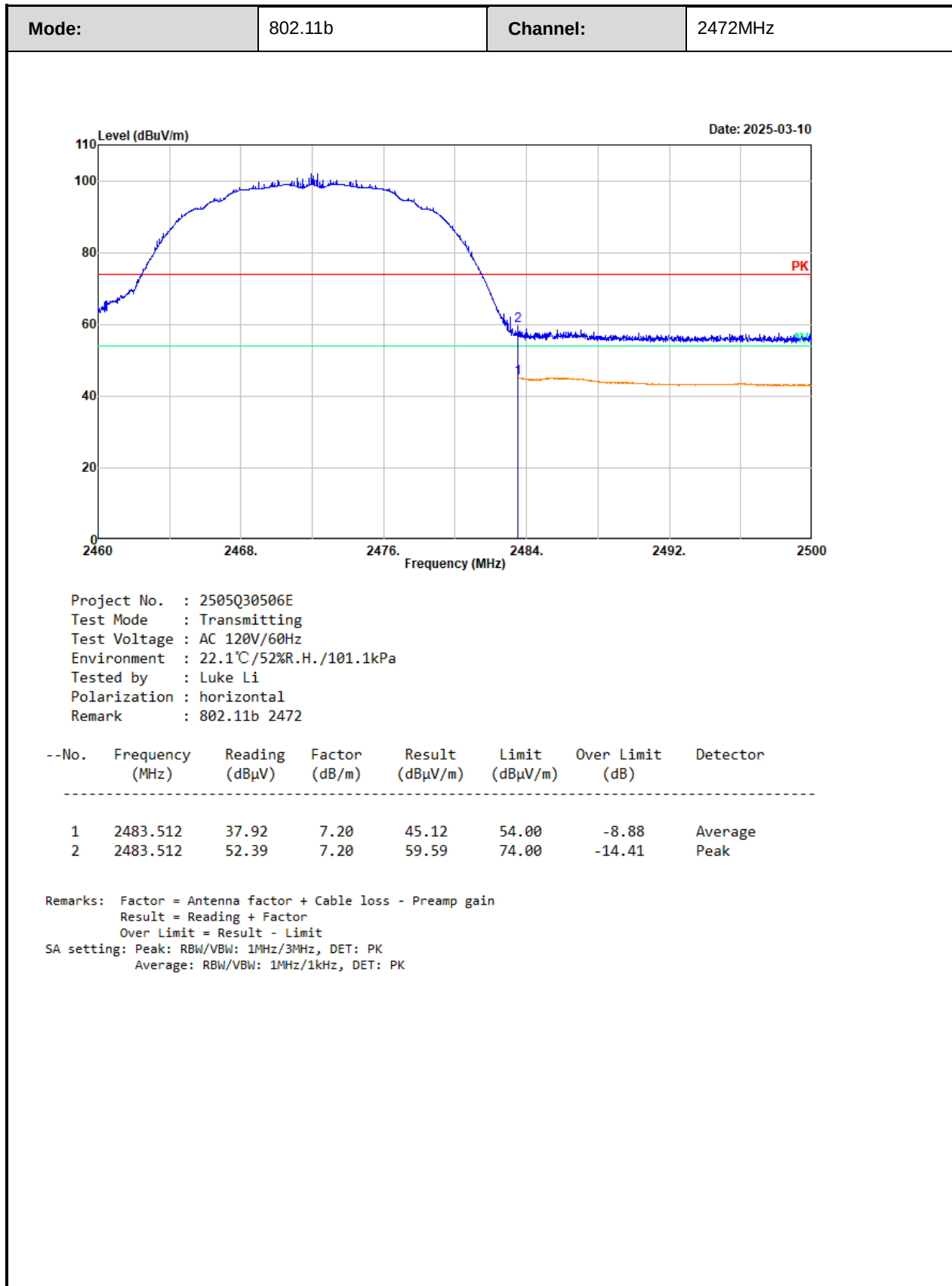


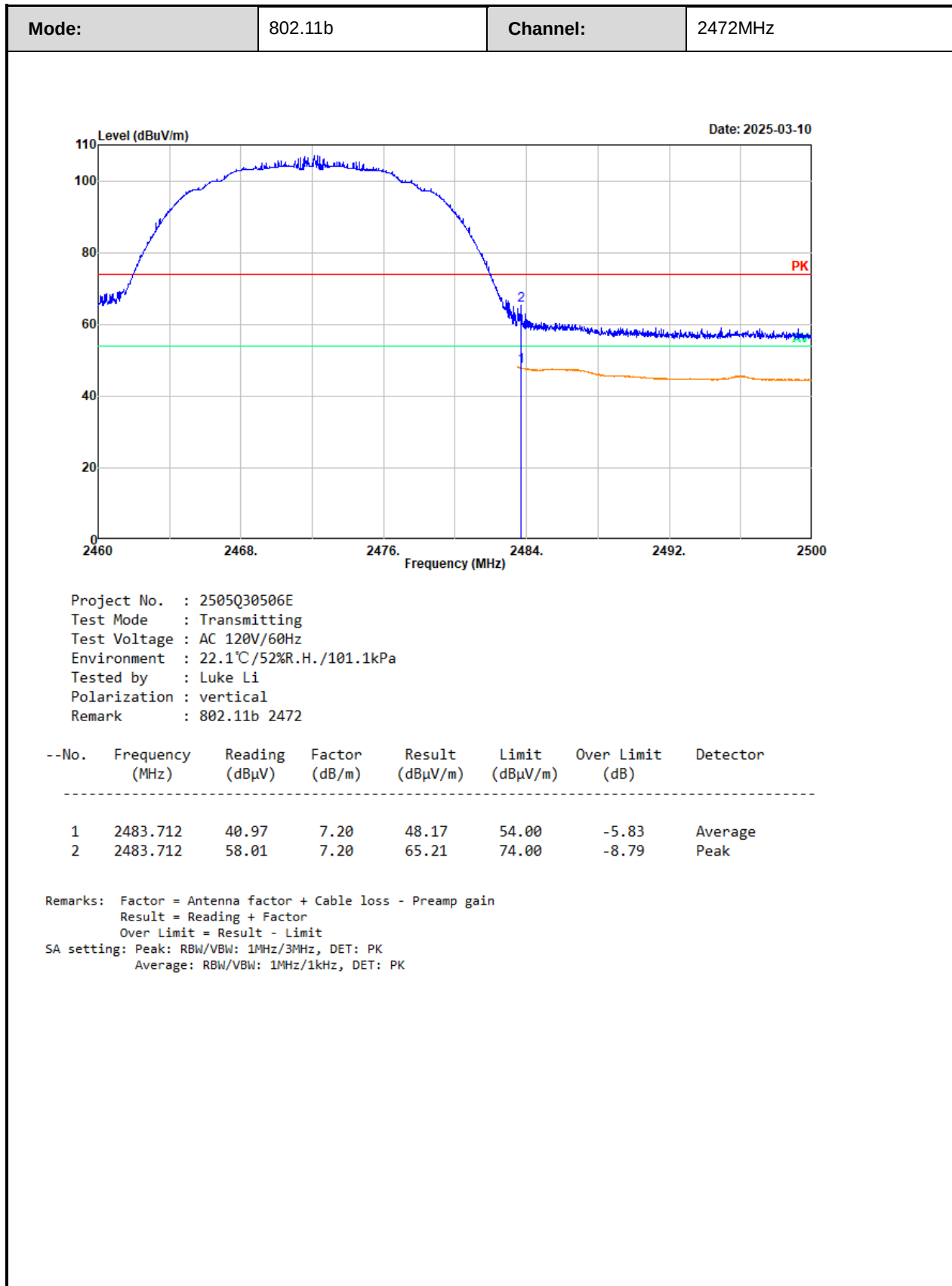


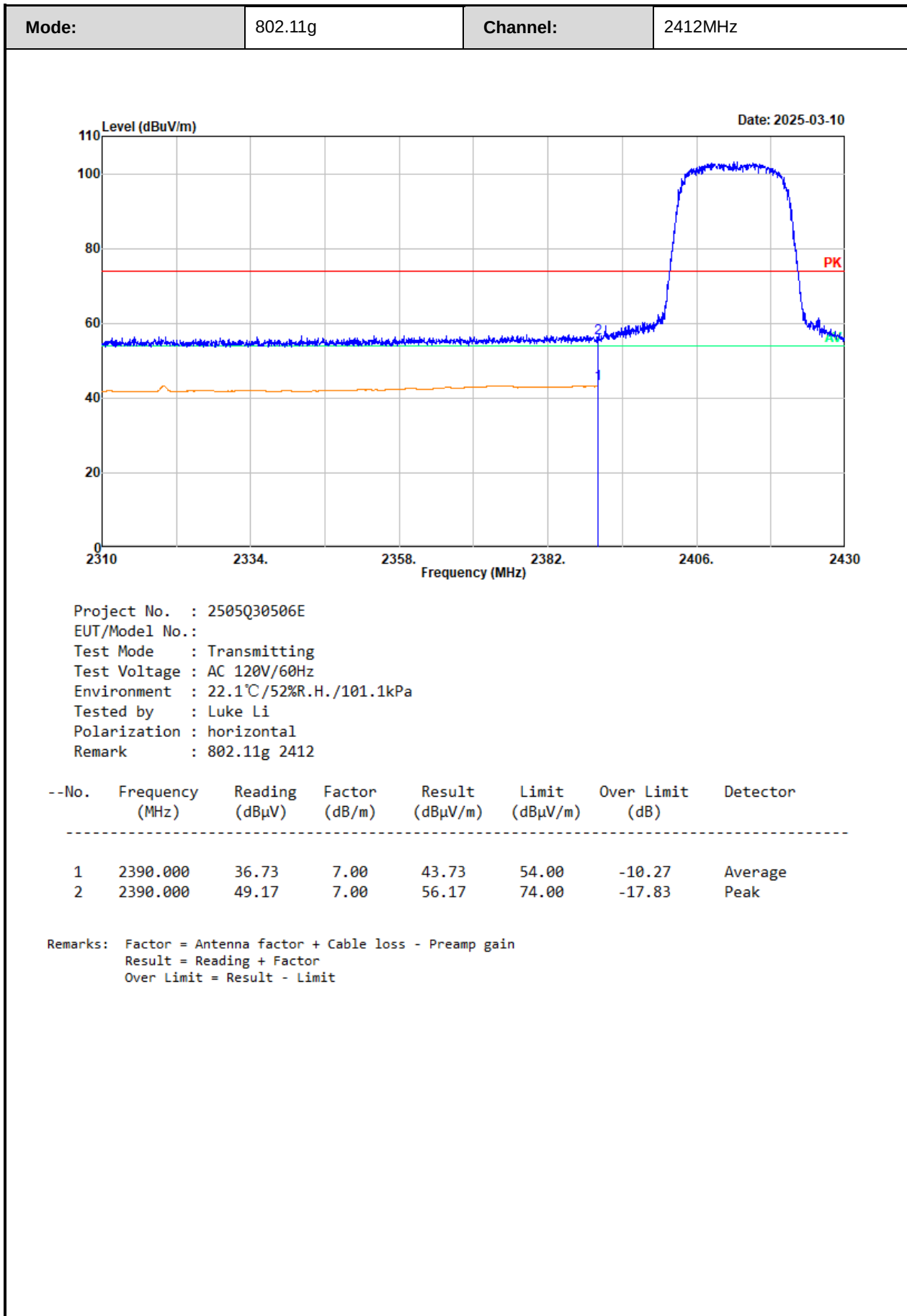
Radiated Band edge:

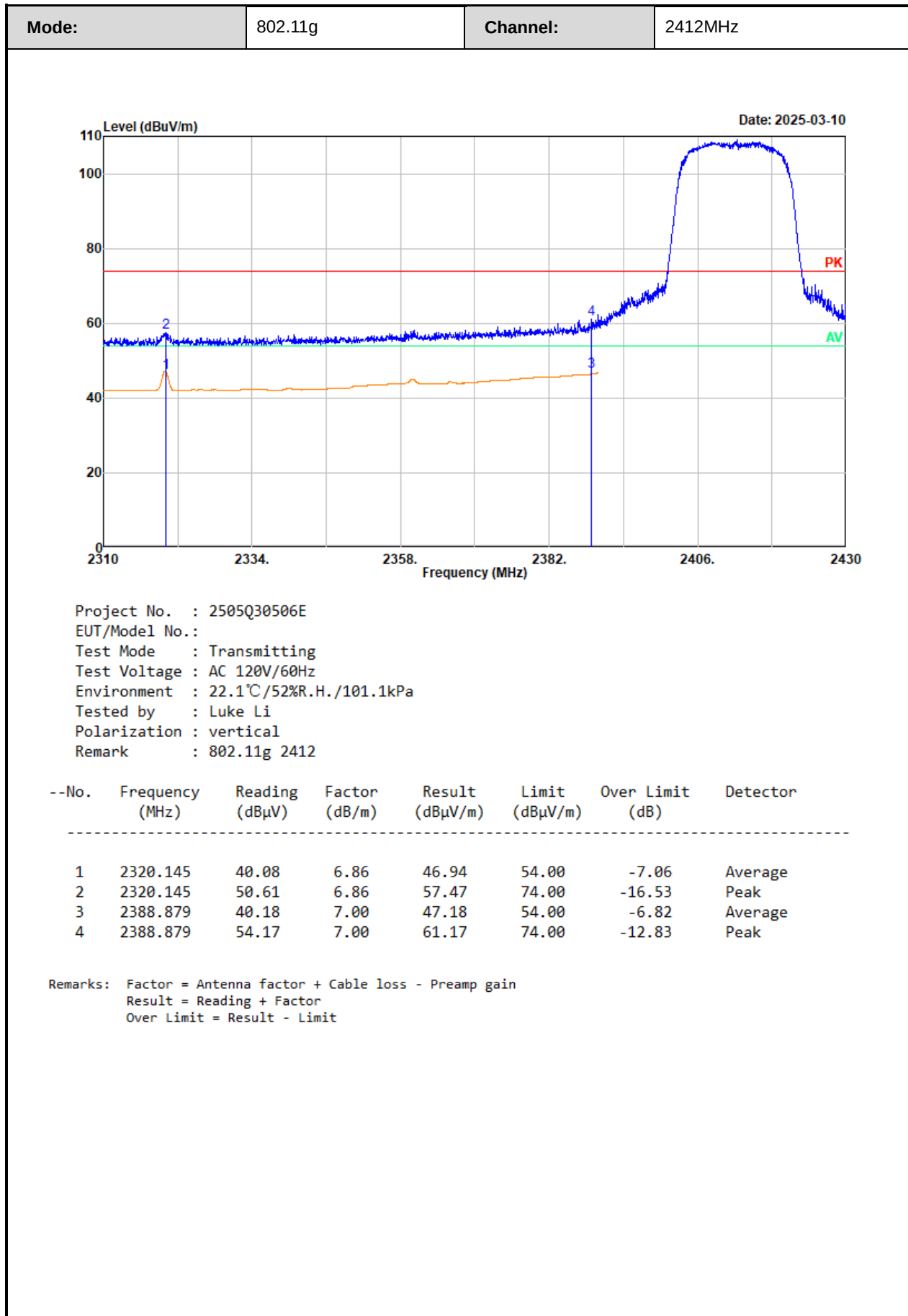


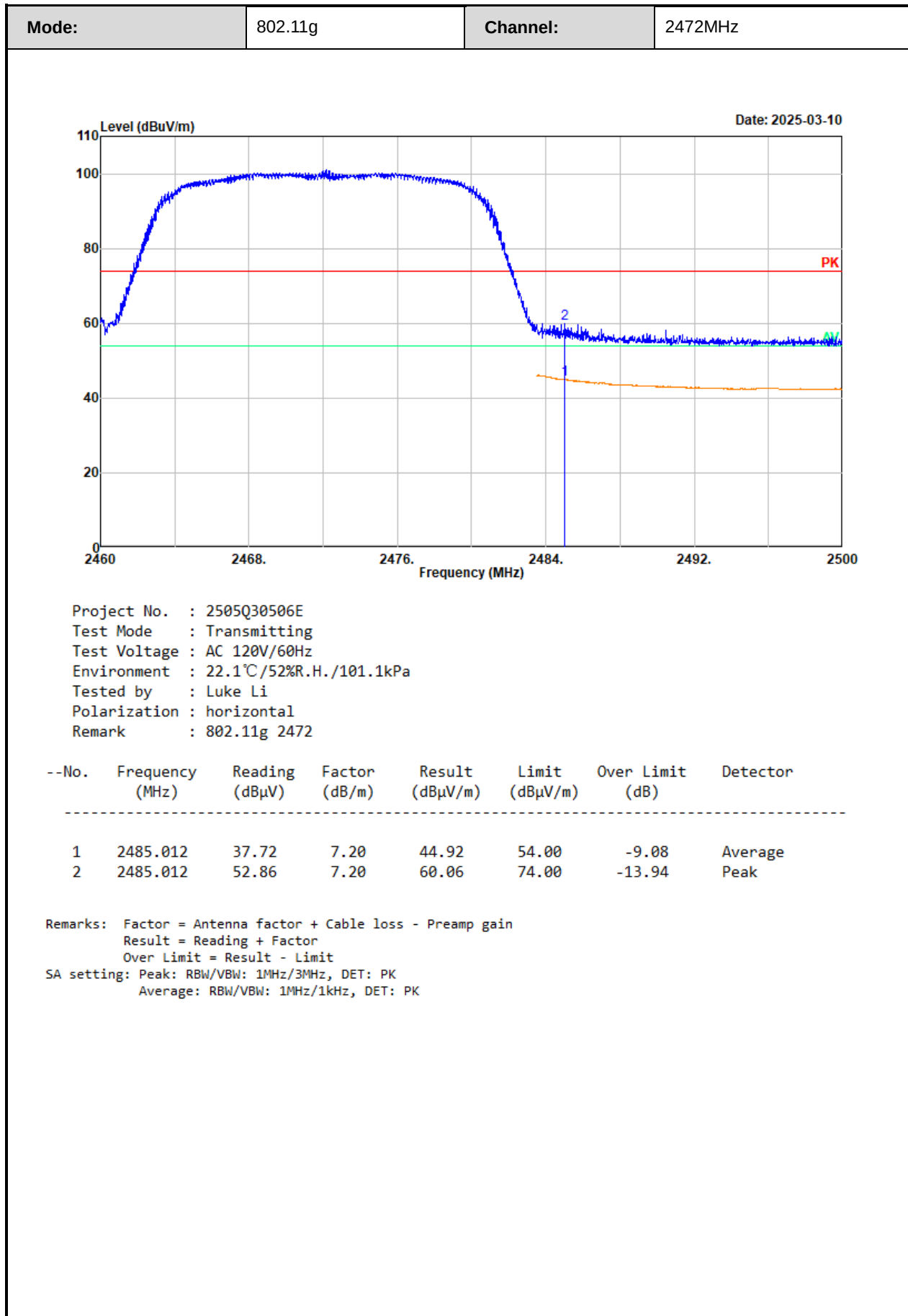


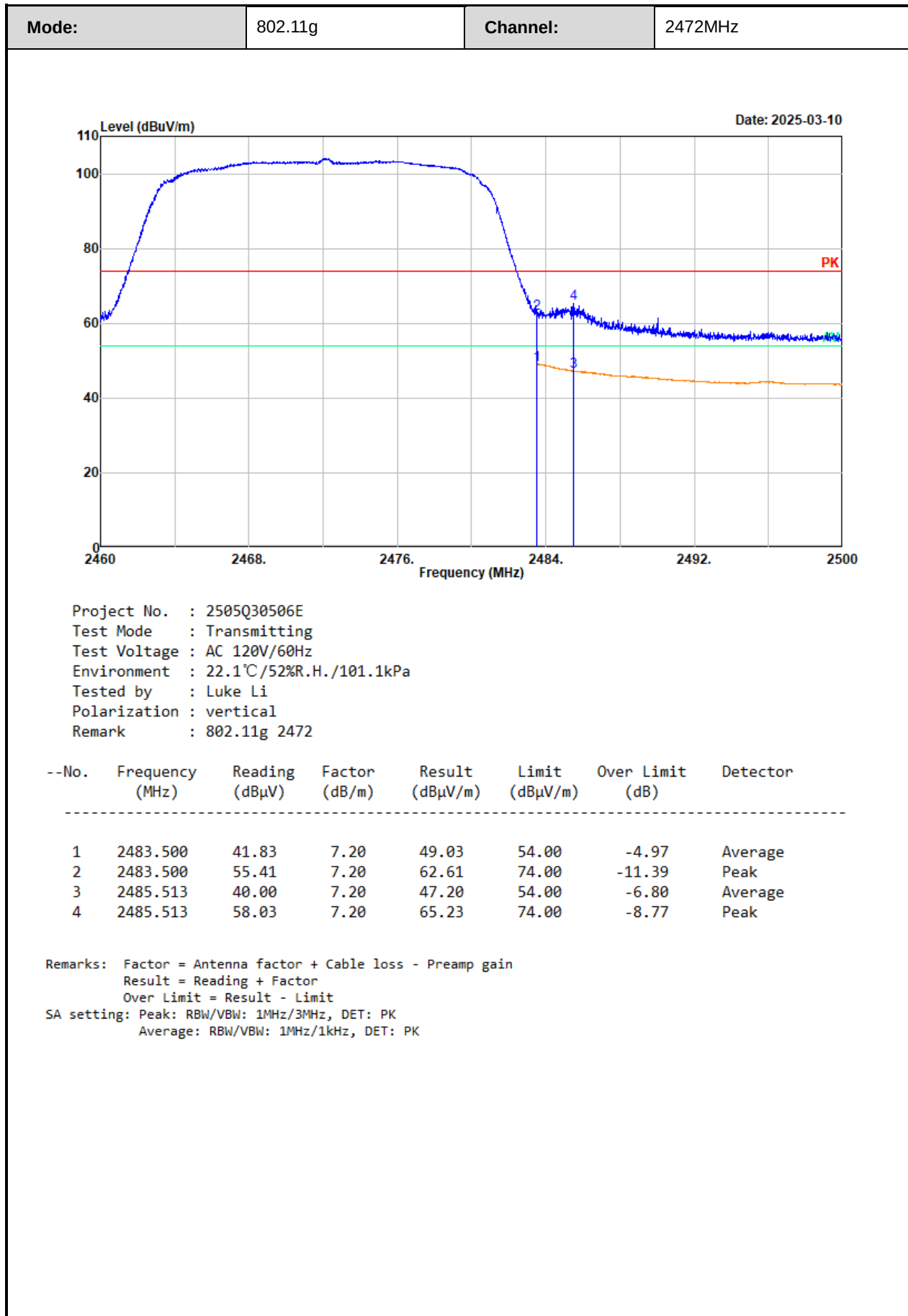


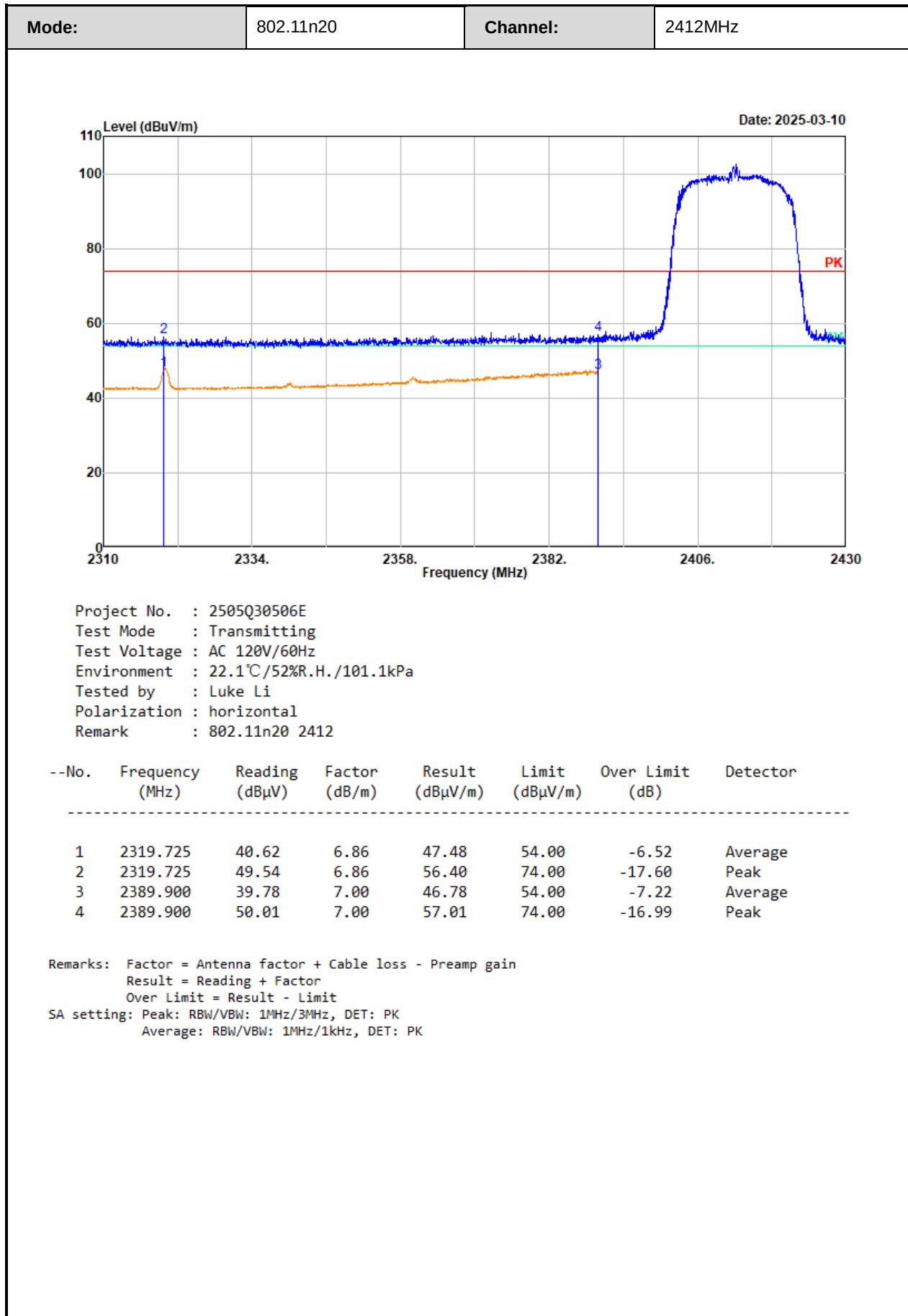


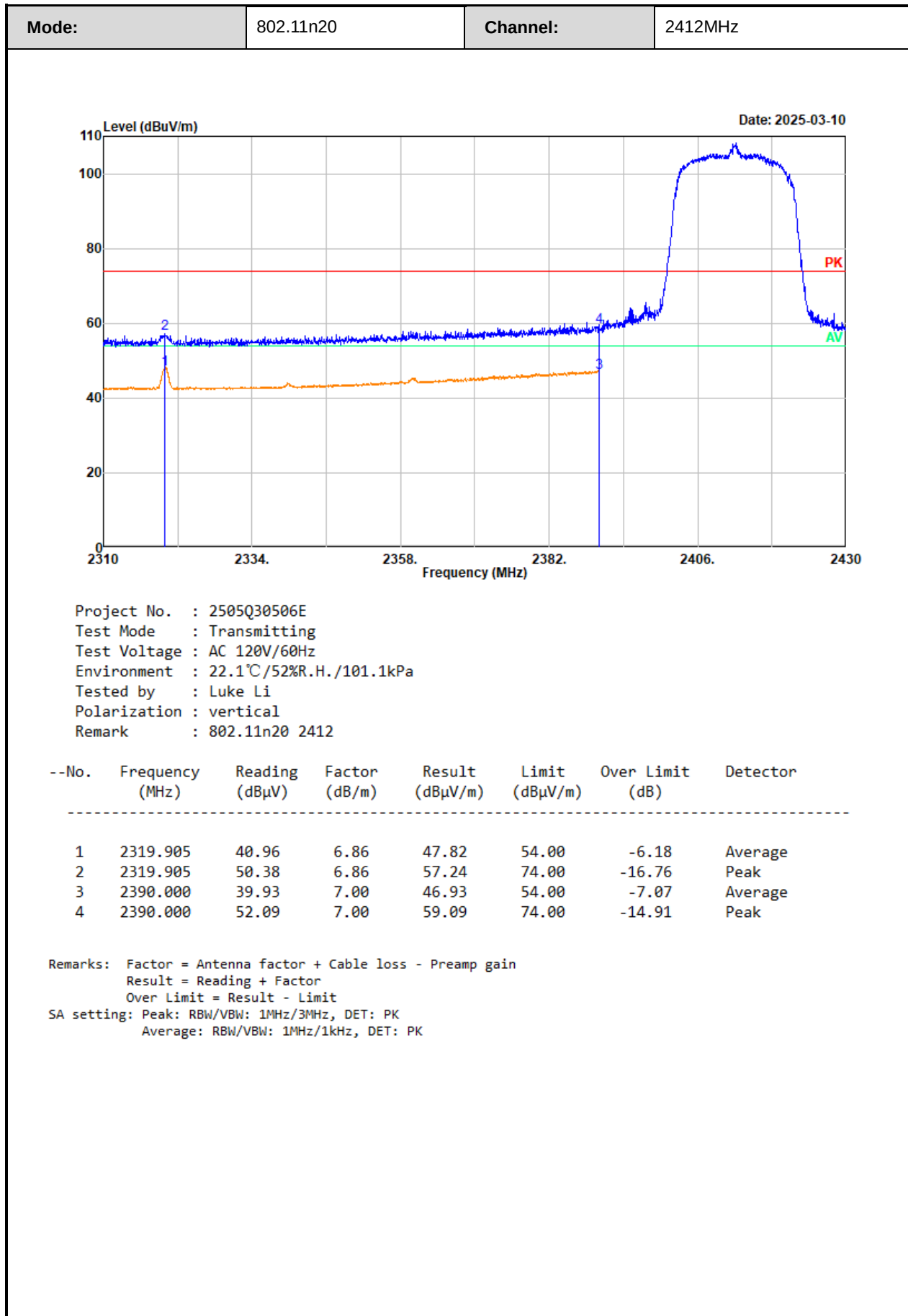


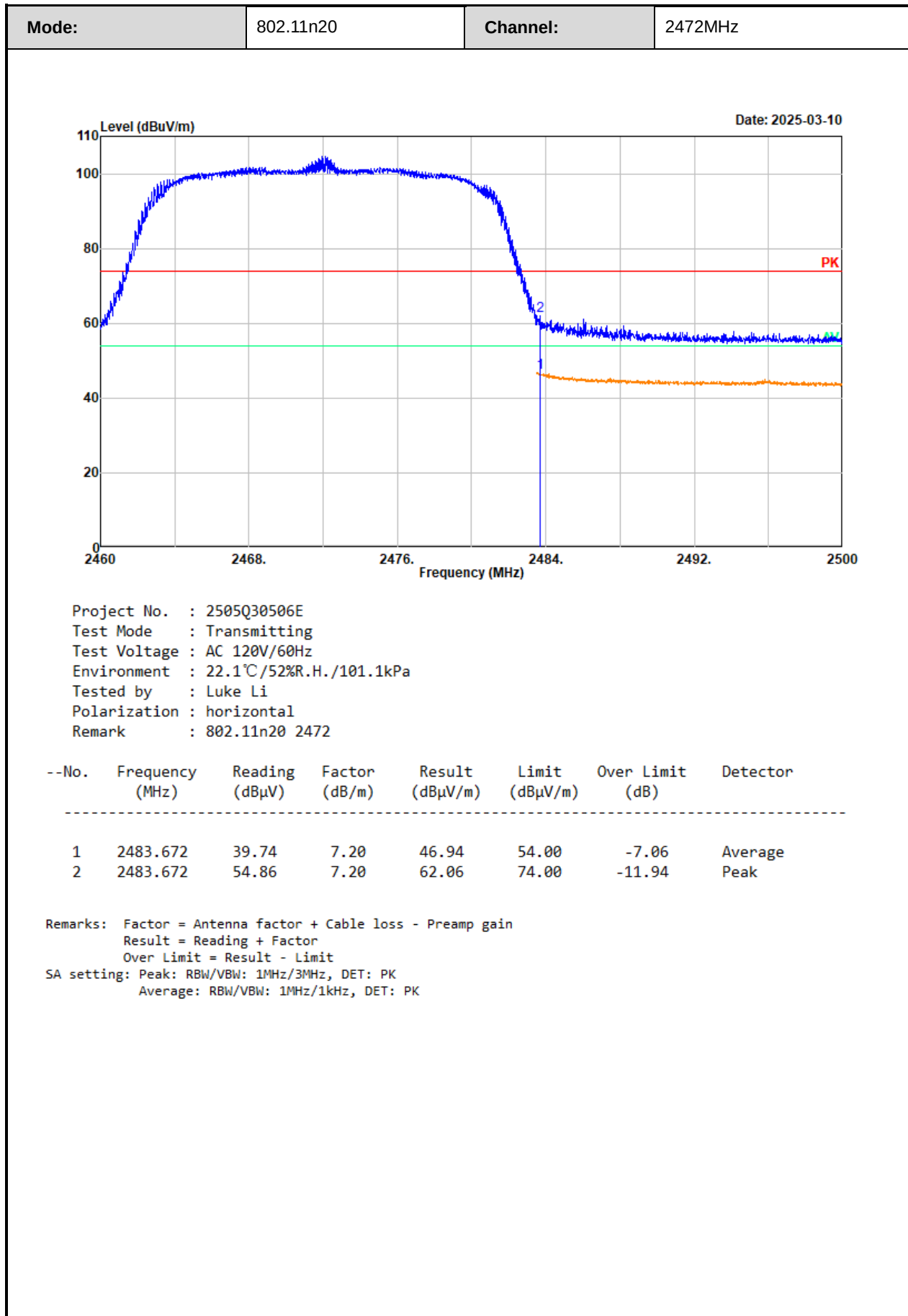


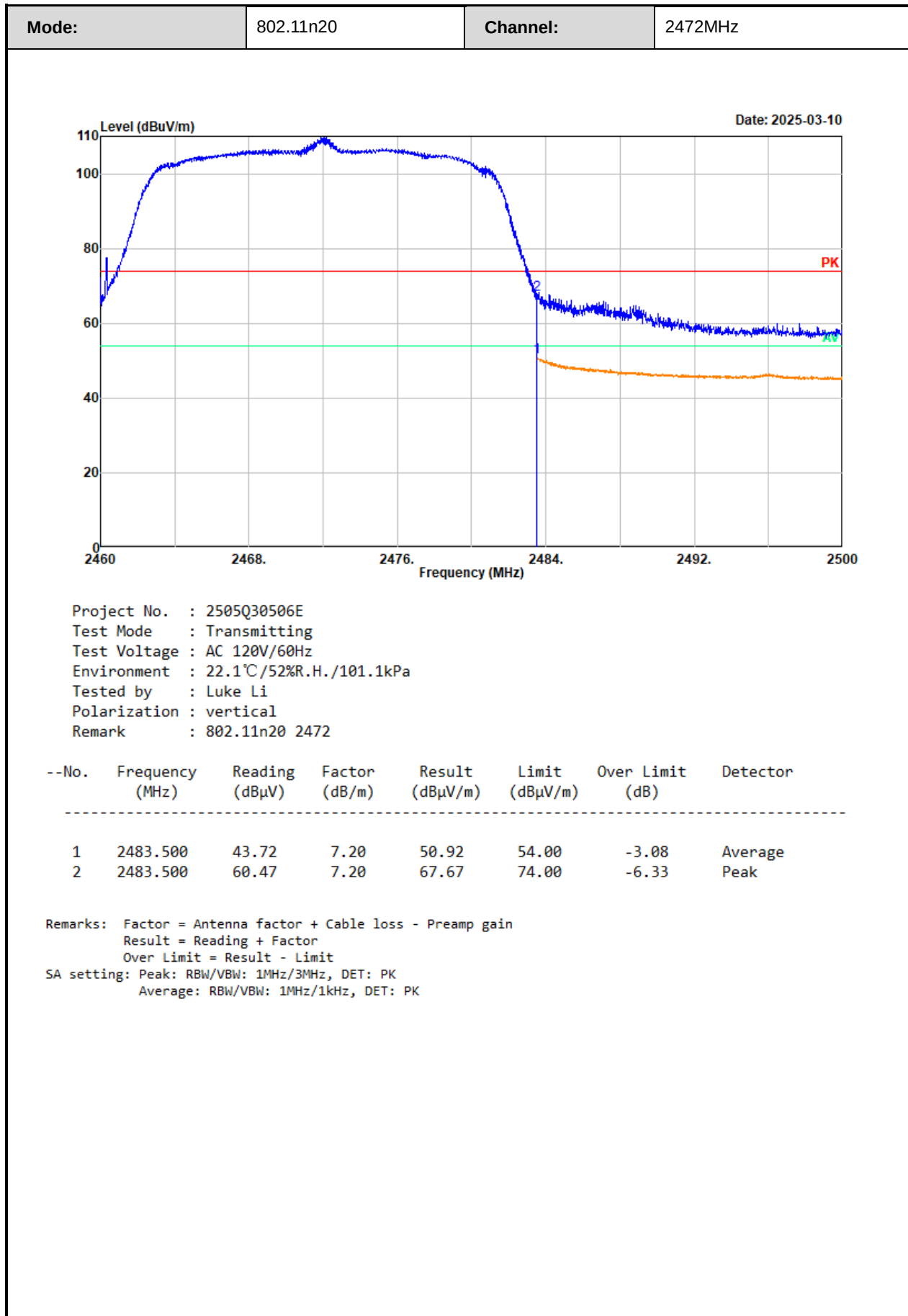


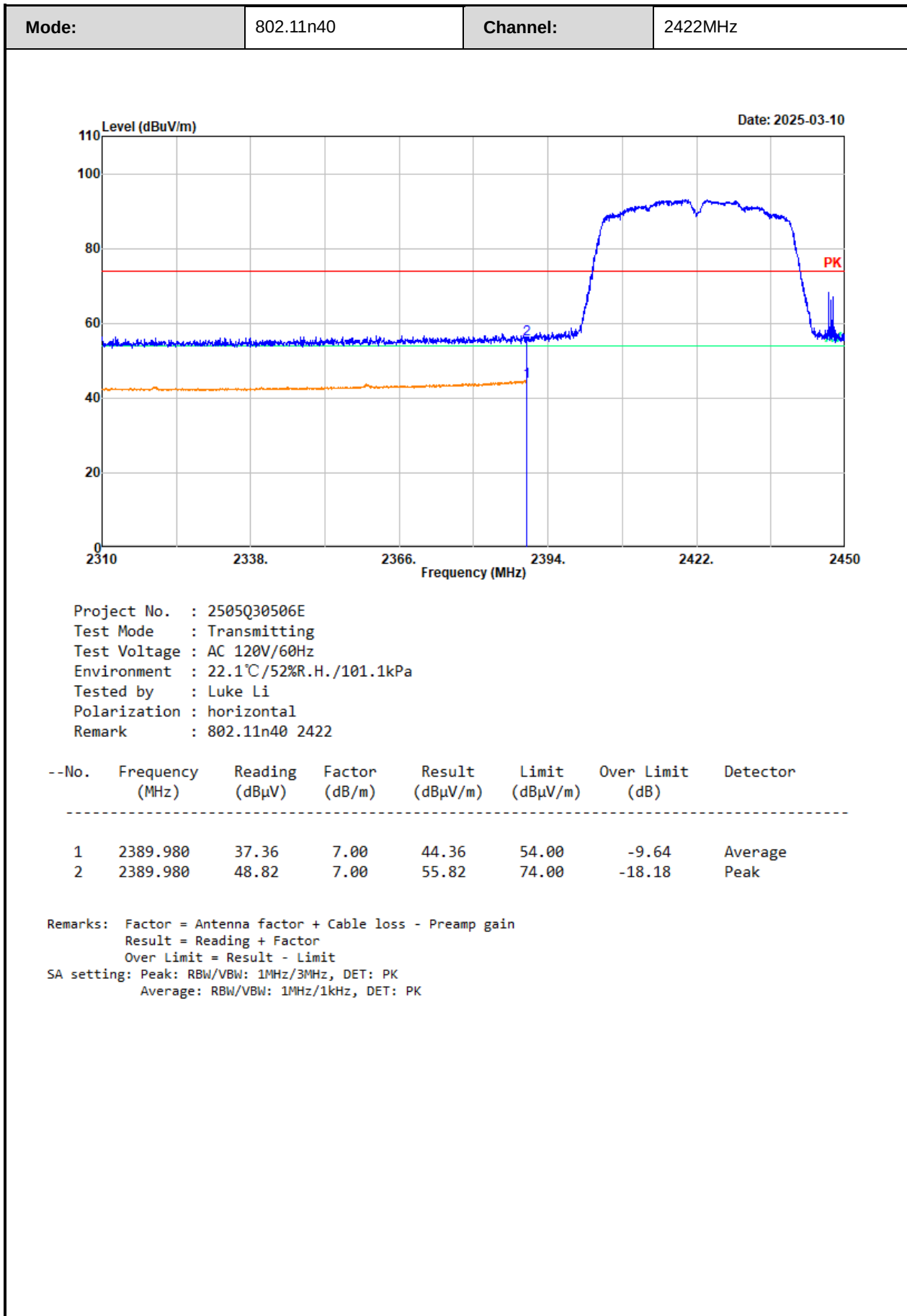


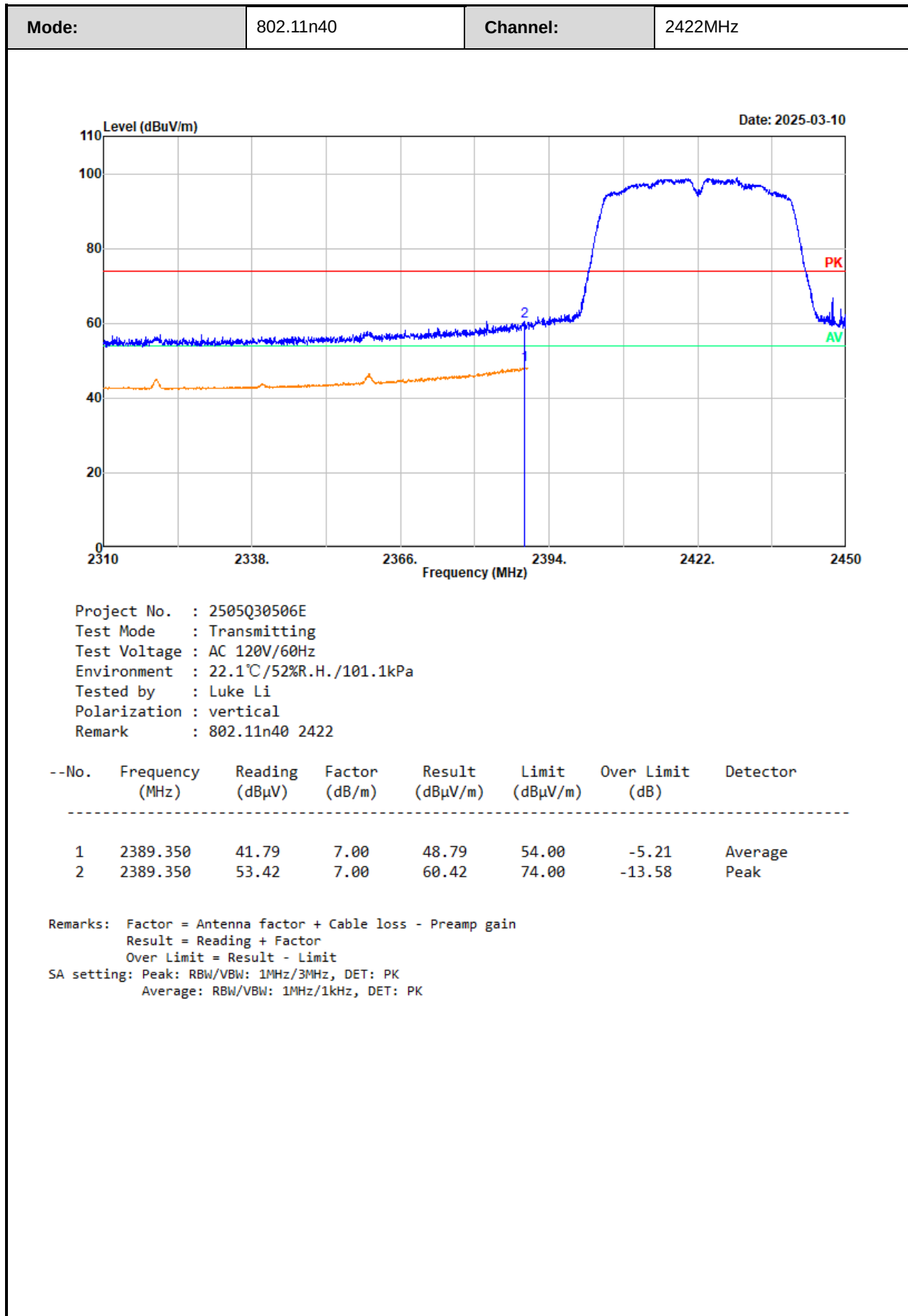


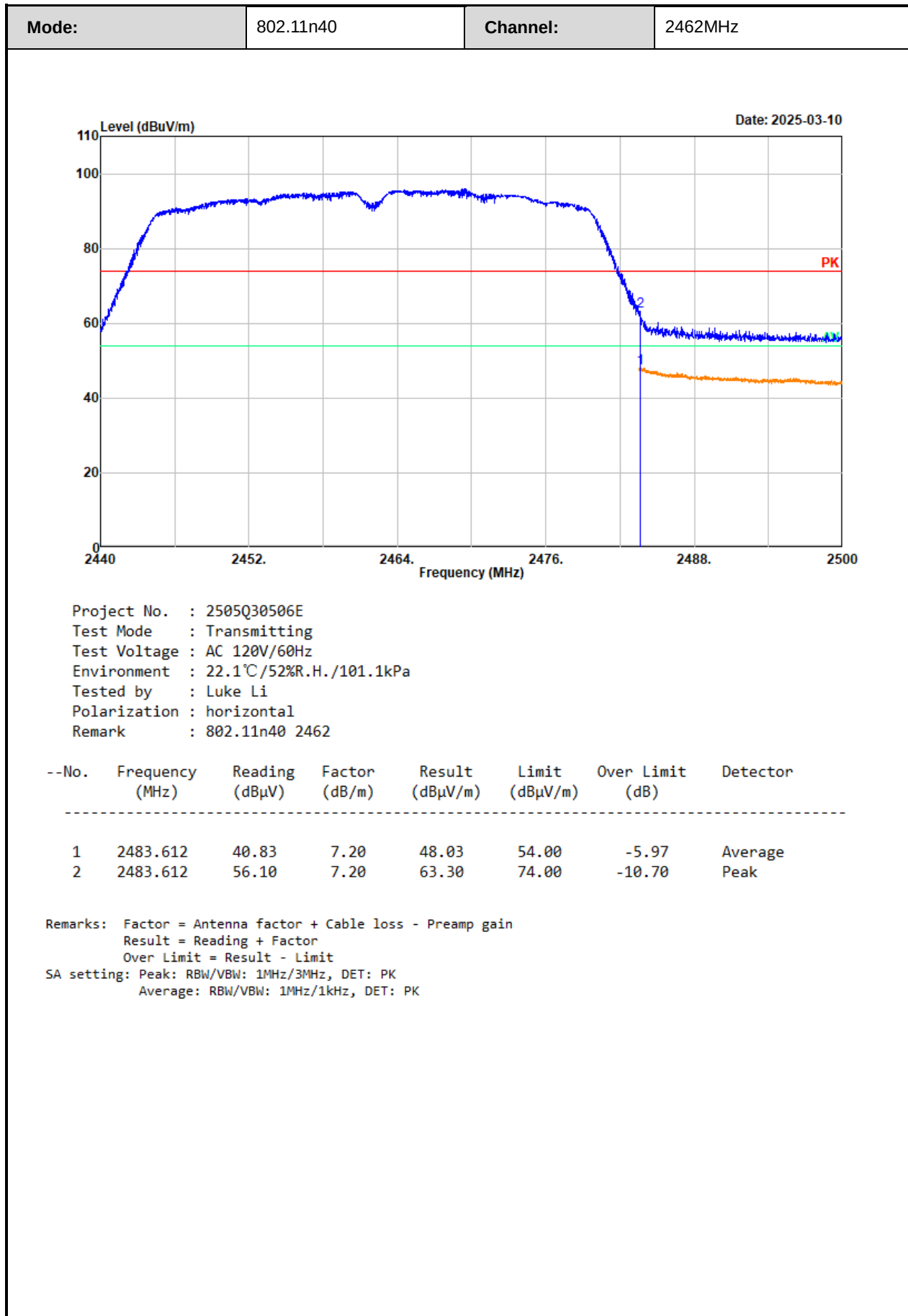


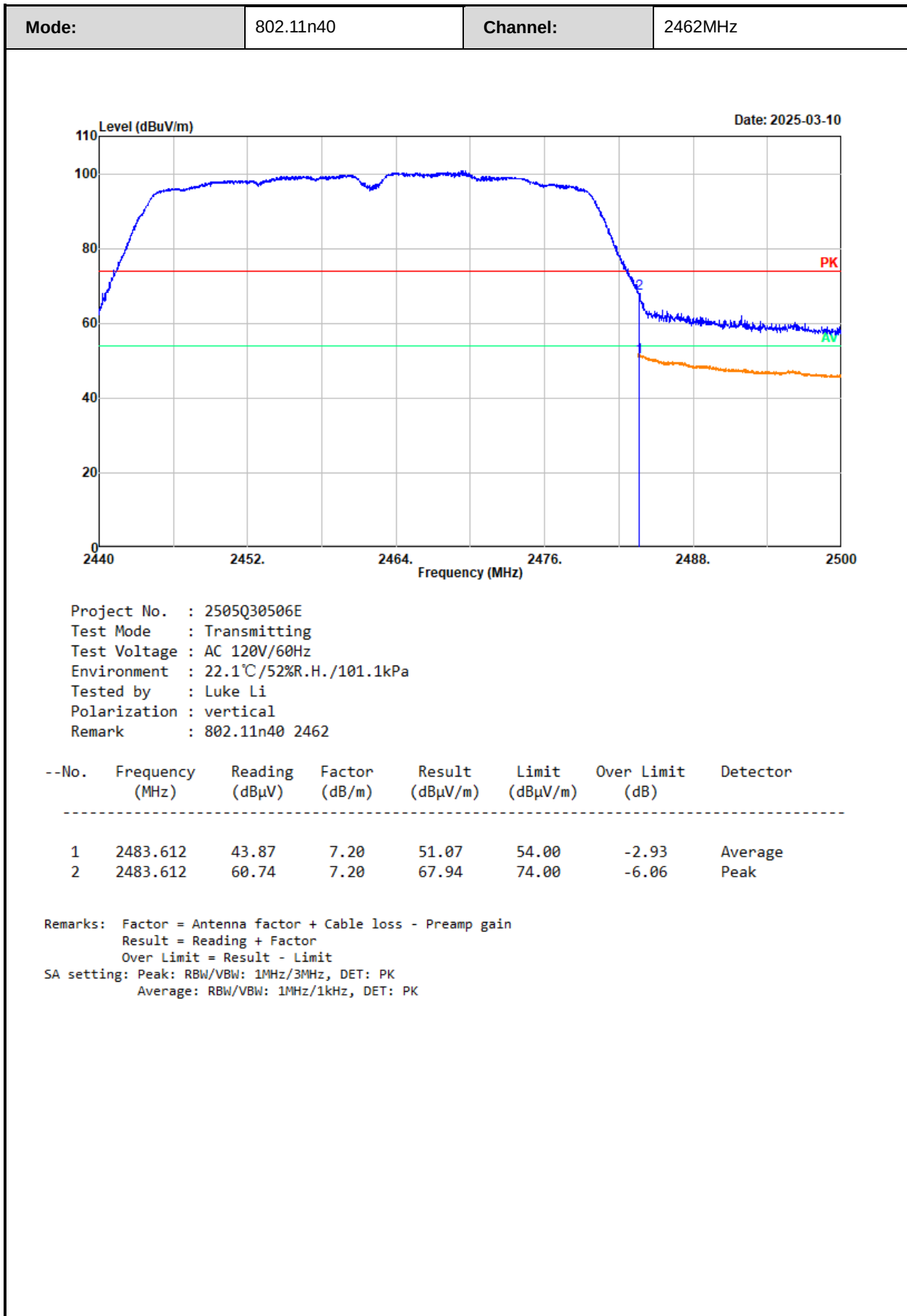












3.5 RF Conducted Test Data

Test Date:	2025-03-12	Test By:	Ryan Zhang
Environment condition:	Temperature: 25.9°C;RelativeHumidity:60%; ATM Pressure: 101.2kPa		

3.5.1 6dB Emission Bandwidth

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	13.133	≥0.5	Pass
	2442	12.172	≥0.5	Pass
	2472	12.212	≥0.5	Pass
802.11g	2412	16.256	≥0.5	Pass
	2442	17.217	≥0.5	Pass
	2472	17.257	≥0.5	Pass
802.11n20	2412	17.938	≥0.5	Pass
	2442	17.898	≥0.5	Pass
	2472	17.938	≥0.5	Pass
802.11n40	2422	34.034	≥0.5	Pass
	2442	34.915	≥0.5	Pass
	2462	34.194	≥0.5	Pass

3.5.2 99% Occupied Bandwidth

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	15.240
	2442	15.280
	2472	15.320
802.11g	2412	17.240
	2442	17.200
	2472	17.160
802.11n20	2412	18.080
	2442	18.080
	2472	18.080
802.11n40	2422	35.840
	2442	35.920
	2462	35.920

3.5.3 Maximum Conducted Peak Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Verdict
802.11b	2412	12.45	30	Pass
	2442	11.81	30	Pass
	2472	10.45	30	Pass
802.11g	2412	17.17	30	Pass
	2442	16.54	30	Pass
	2472	15.30	30	Pass
802.11n20	2412	14.62	30	Pass
	2442	13.96	30	Pass
	2472	12.78	30	Pass
802.11n40	2422	13.73	30	Pass
	2442	13.21	30	Pass
	2462	12.73	30	Pass

3.5.4 Power Spectral Density

Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-15.61	8	Pass
	2442	-16.18	8	Pass
	2472	-17.44	8	Pass
802.11g	2412	-16.60	8	Pass
	2442	-17.38	8	Pass
	2472	-18.52	8	Pass
802.11n20	2412	-19.19	8	Pass
	2442	-19.95	8	Pass
	2472	-21.21	8	Pass
802.11n40	2422	-23.00	8	Pass
	2442	-23.16	8	Pass
	2462	-25.11	8	Pass

3.5.5 100 kHz Bandwidth of Frequency Band Edge

Mode	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	2412	45.97	20	Pass
	2472	39.74	20	Pass
802.11g	2412	44.45	20	Pass
	2472	39.45	20	Pass
802.11n20	2412	38.52	20	Pass
	2472	38.61	20	Pass
802.11n40	2422	36.28	20	Pass
	2462	34.82	20	Pass

3.5.6 Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2442	8.379	8.476	98.86	/	/	0.010
802.11g	2442	1.391	1.410	98.65	/	/	0.010
802.11n20	2442	1.299	1.317	98.63	/	/	0.010
802.11n40	2442	0.648	0.658	98.48	/	/	0.010

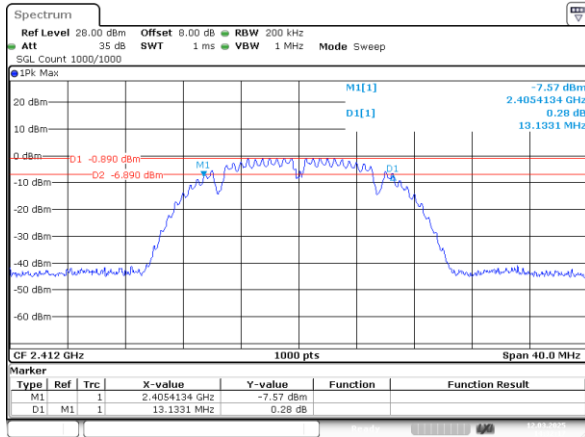
Duty Cycle = Ton/(Ton+Toff)*100%

Test Plots:

6 dB Emission Bandwidth:

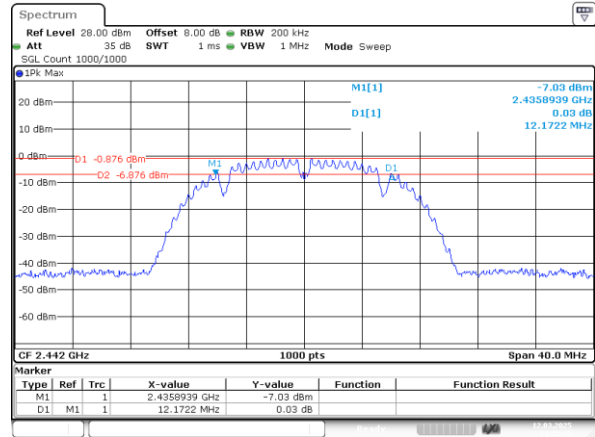
2412~2472

802.11b_2412MHz



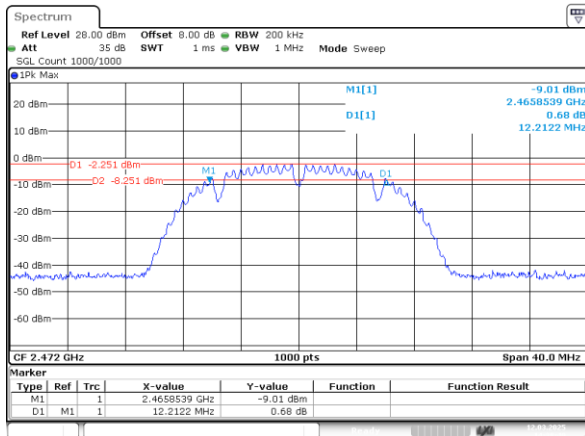
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:32:17

802.11b_2442MHz



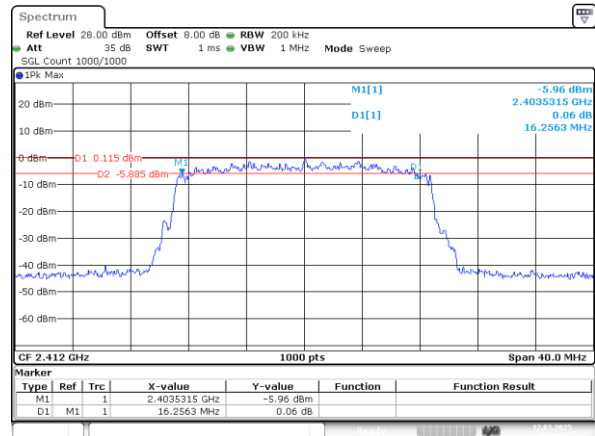
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:35:35

802.11b_2472MHz



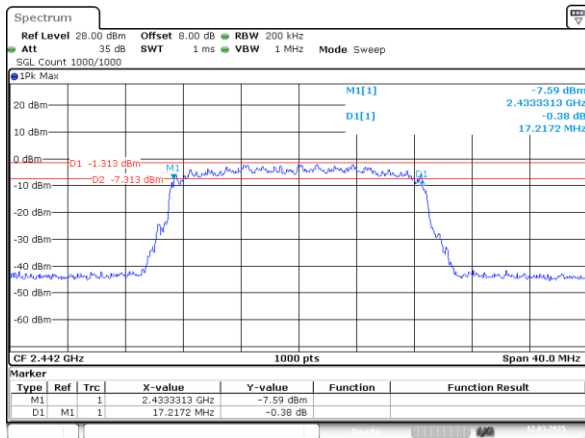
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:38:49

802.11g_2412MHz



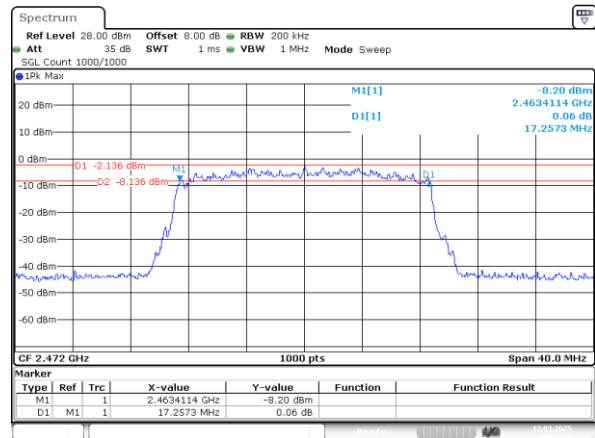
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:42:27

802.11g_2442MHz



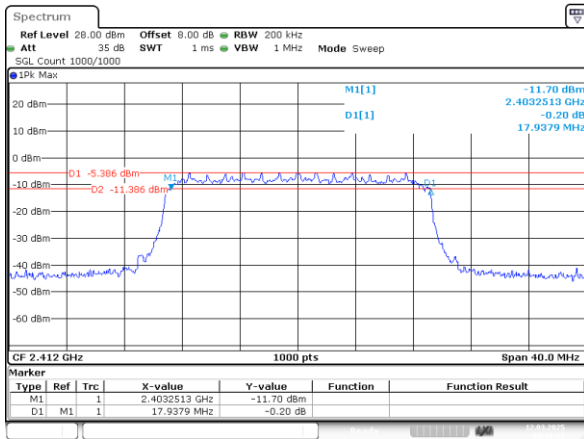
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Date: 12.MAR.2025 14:45:55

802.11g_2472MHz



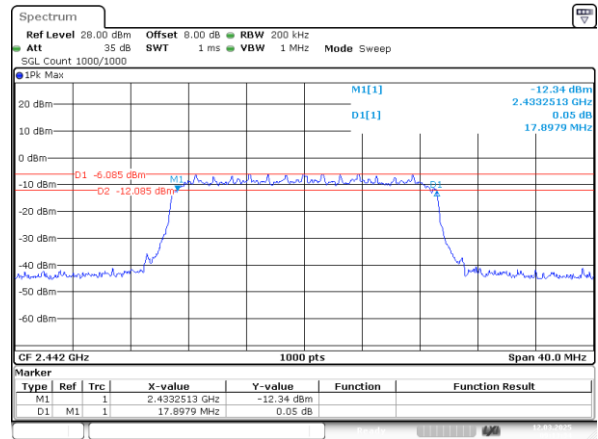
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Date: 12.MAR.2025 14:49:25

802.11n20_2412MHz



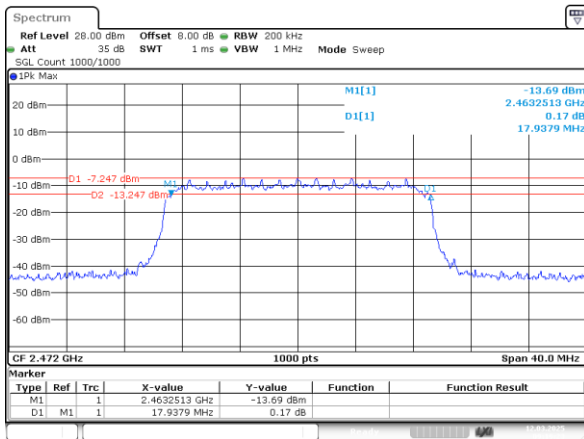
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Date: 12.MAR.2025 09:10:12

802.11n20_2442MHz



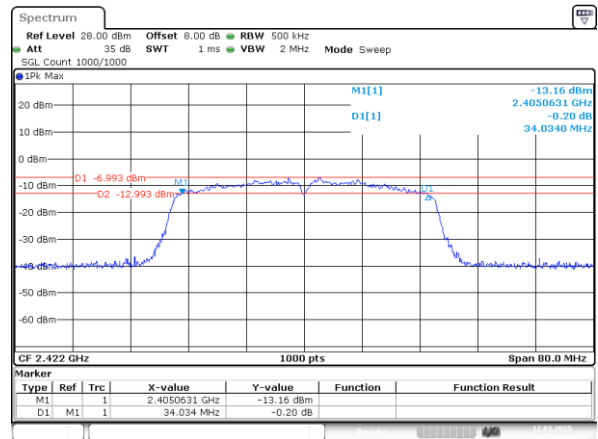
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Date: 12.MAR.2025 09:13:35

802.11n20_2472MHz



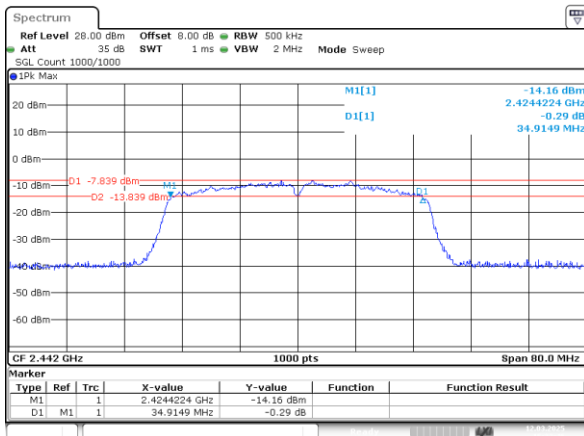
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Date: 12.MAR.2025 09:19:23

802.11n40_2422MHz



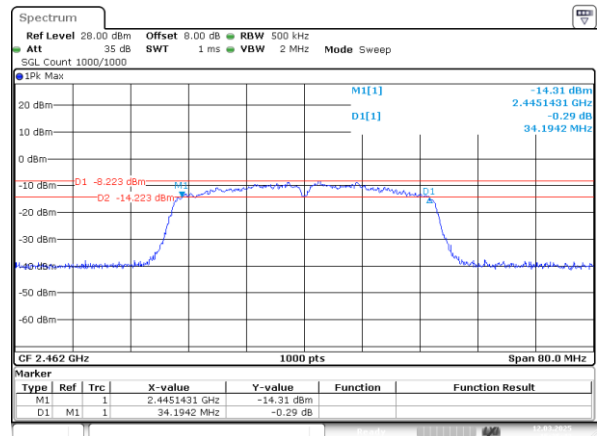
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:18:10

802.11n40_2442MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:22:47

802.11n40_2462MHz

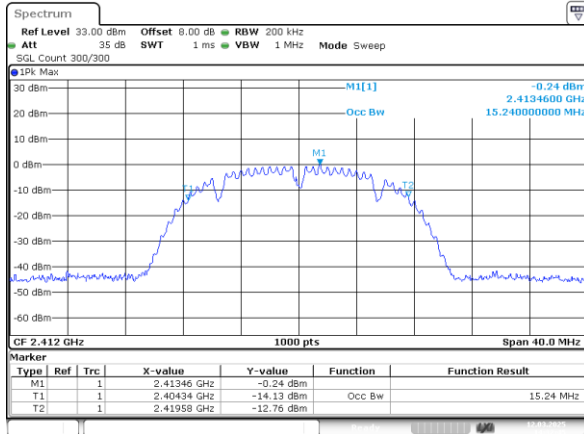


ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:25:43

99% Occupied Bandwidth:

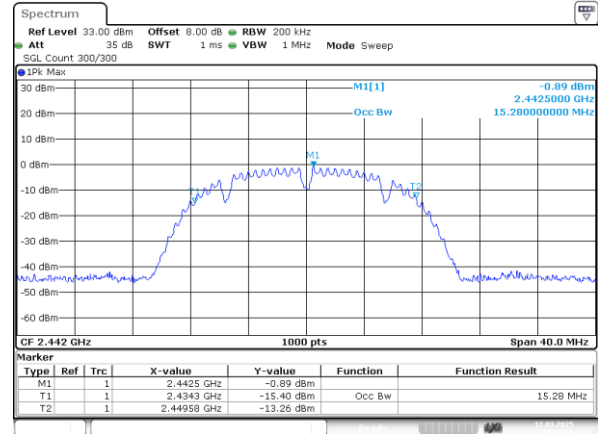
2412~2472

802.11b_2412MHz



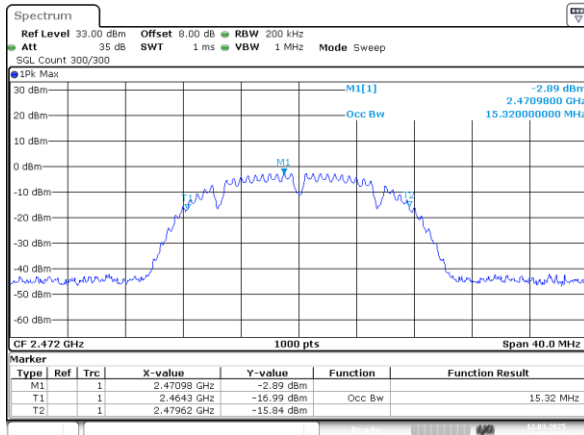
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Date: 12.MAR.2025 14:32:45

802.11b_2442MHz



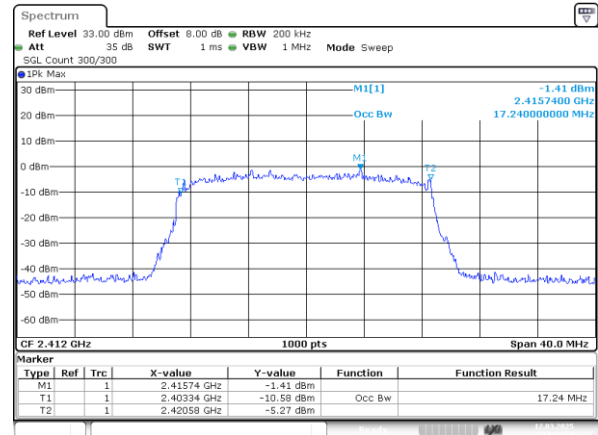
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802.11b_2472MHz



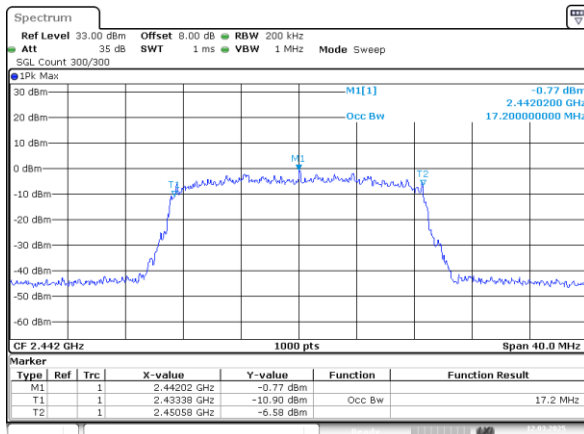
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Date: 12.MAR.2025 14:39:15

802.11g_2412MHz



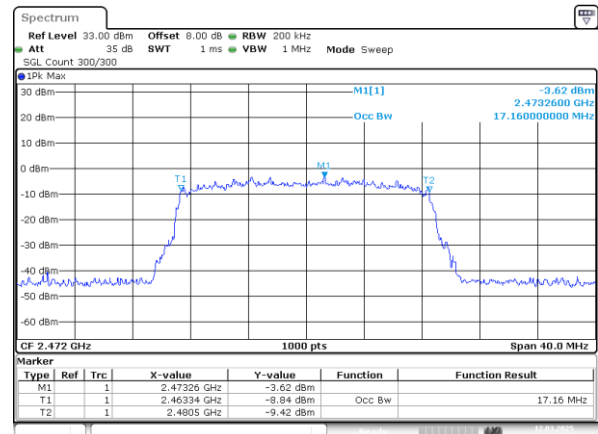
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Date: 12.MAR.2025 14:42:54

802.11g_2442MHz



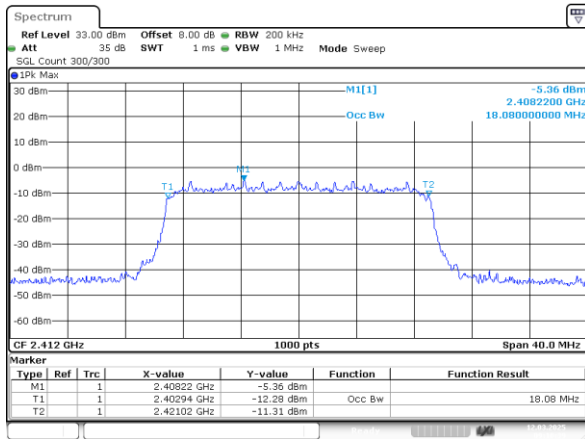
ProjectNo.:2505Q30506EB-Test:Ryan Zhang
Date: 12.MAR.2025 14:46:19

802.11g_2472MHz



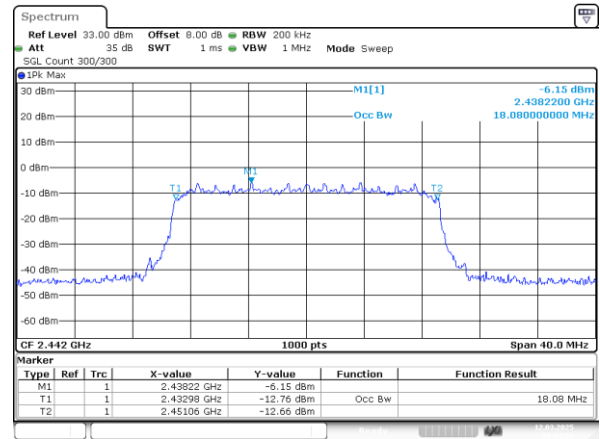
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Date: 12.MAR.2025 14:49:50

802.11n20_2412MHz



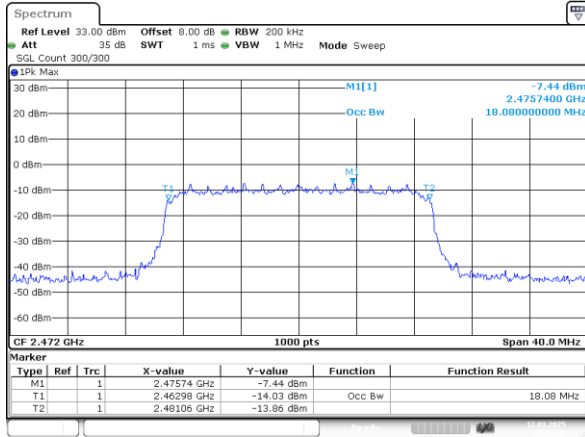
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Date: 12.MAR.2025 09:10:39

802.11n20_2442MHz



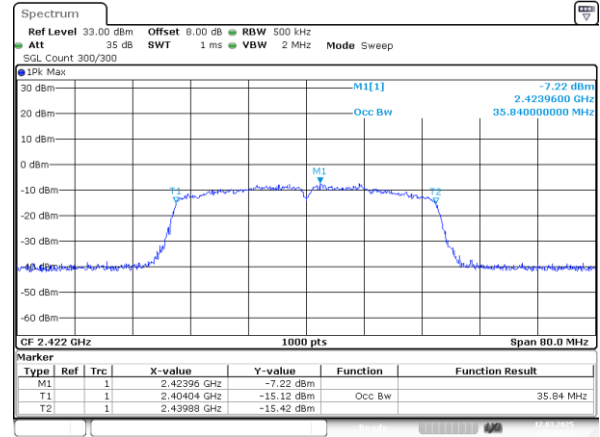
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Date: 12.MAR.2025 09:13:59

802.11n20_2472MHz



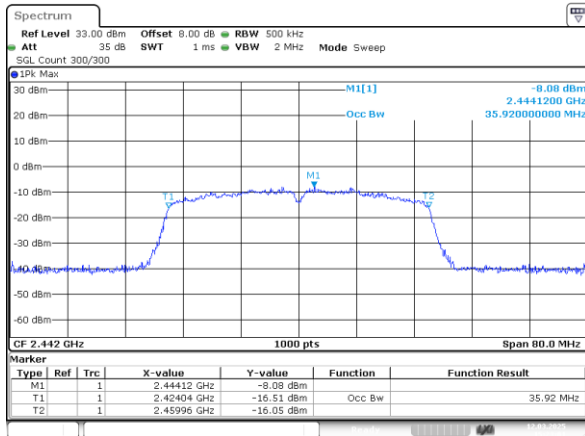
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Date: 12.MAR.2025 09:19:48

802.11n40_2422MHz



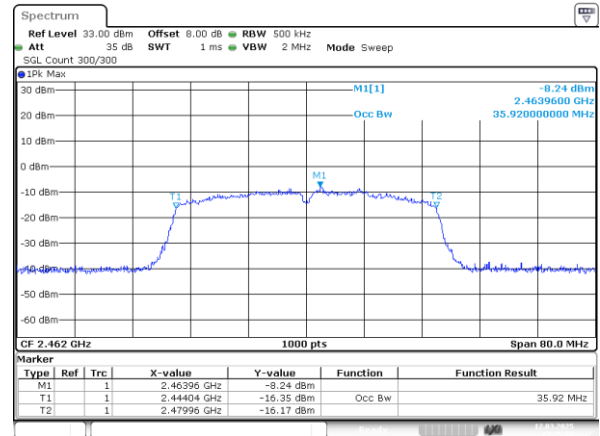
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:18:24

802.11n40_2442MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:23:01

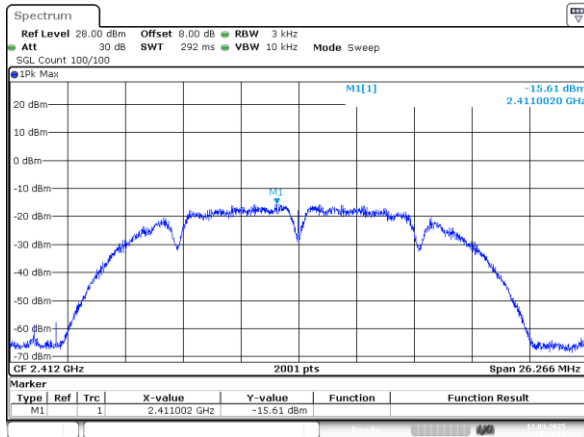
802.11n40_2462MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:25:57

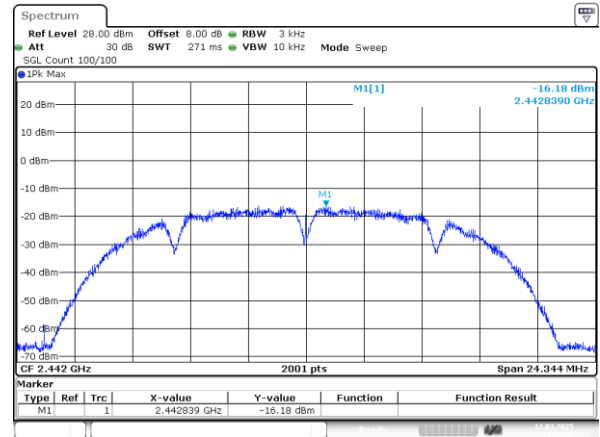
Power Spectral Density: 2412~2472

802.11b_2412MHz



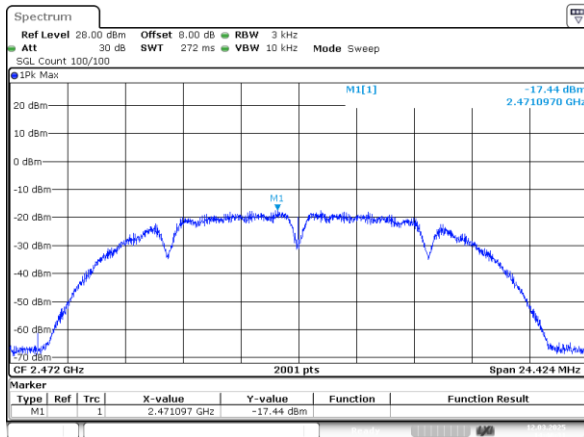
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Date: 12.MAR.2025 14:34:08

802.11b_2442MHz



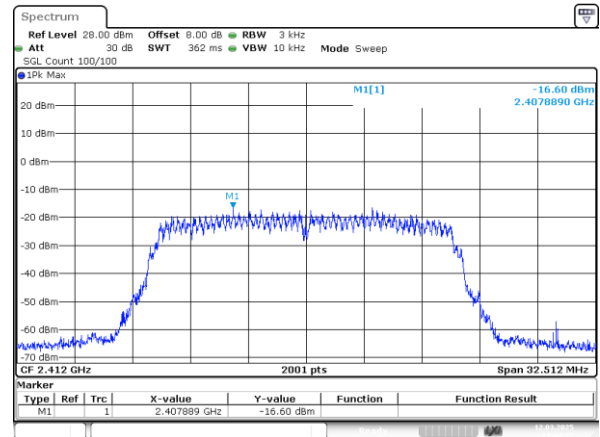
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Date: 12.MAR.2025 14:36:48

802.11b_2472MHz



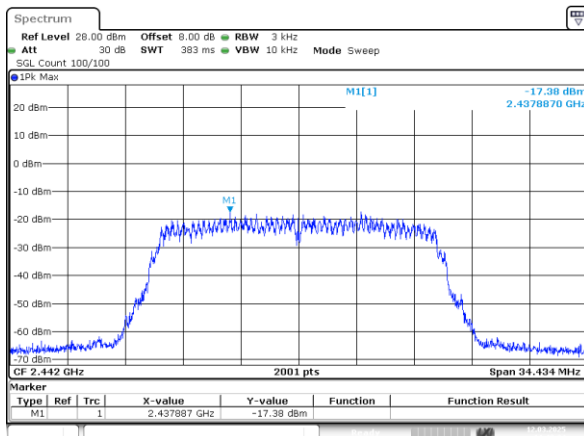
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Date: 12.MAR.2025 14:40:31

802.11g_2412MHz



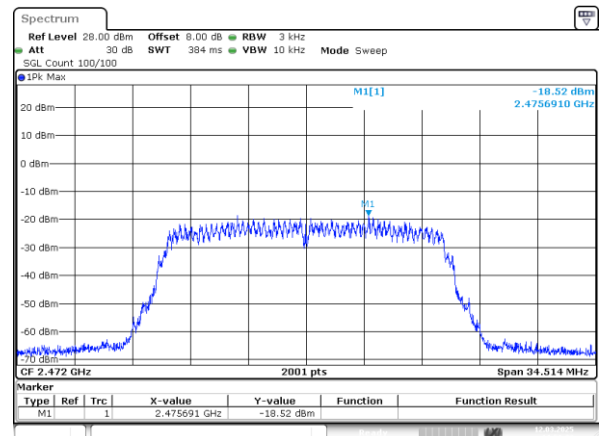
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:44:22

802.11g_2442MHz



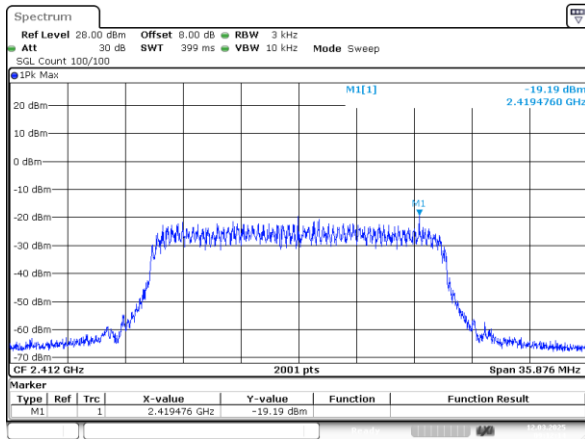
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:47:25

802.11g_2472MHz



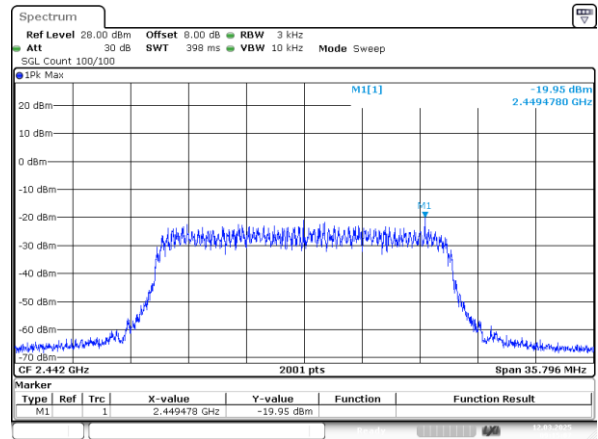
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Date: 12.MAR.2025 14:51:22

802.11n20_2412MHz



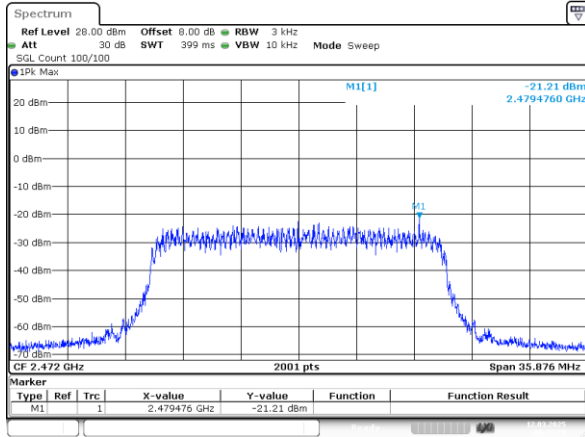
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Date: 12.MAR.2025 09:12:14

802.11n20_2442MHz



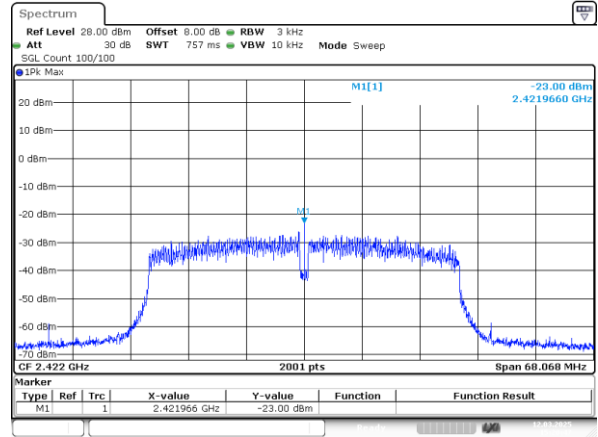
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Date: 12.MAR.2025 09:15:06

802.11n20_2472MHz



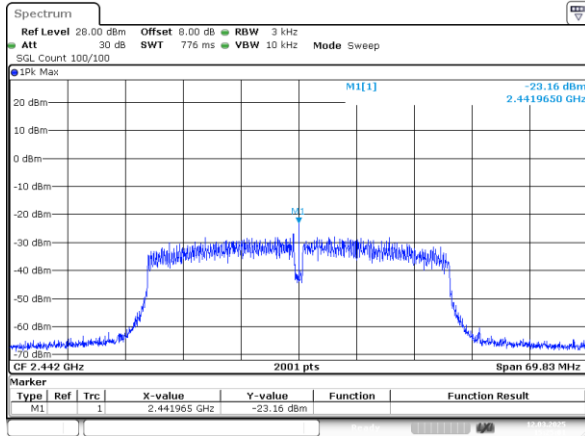
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 09:21:19

802.11n40_2422MHz



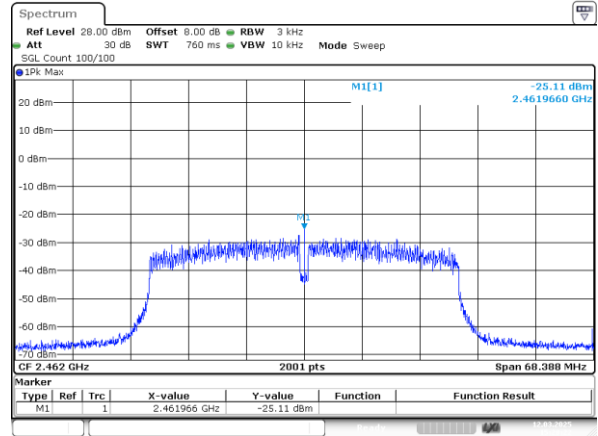
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:20:47

802.11n40_2442MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:25:02

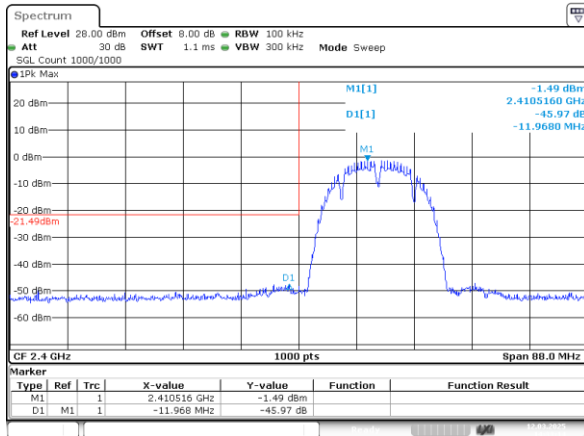
802.11n40_2462MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:28:22

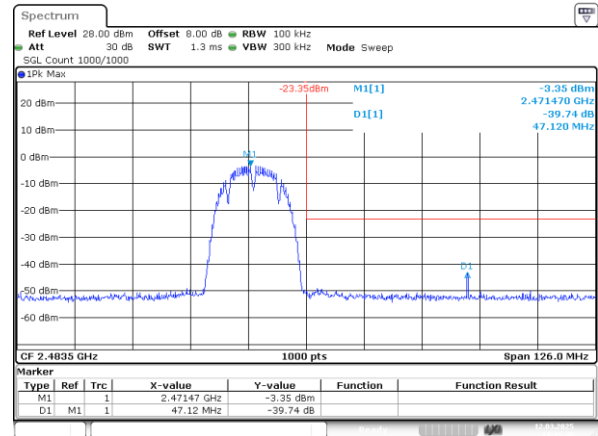
100kHz Bandwidth of Frequency Band Edge: 2412~2472

802.11b_2412MHz



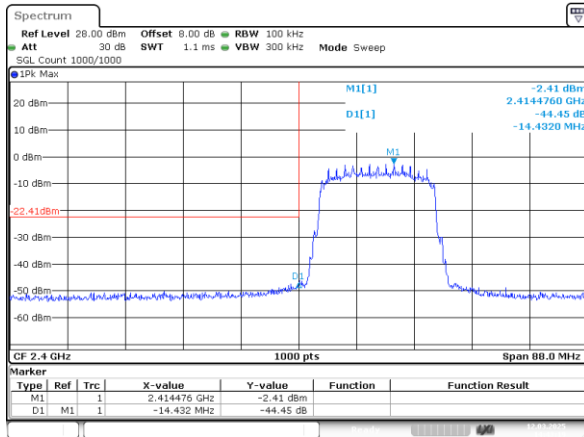
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:33:14

802.11b_2472MHz



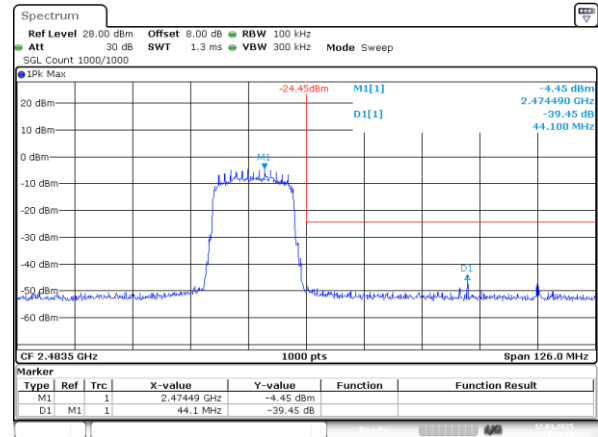
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:39:40

802.11g_2412MHz



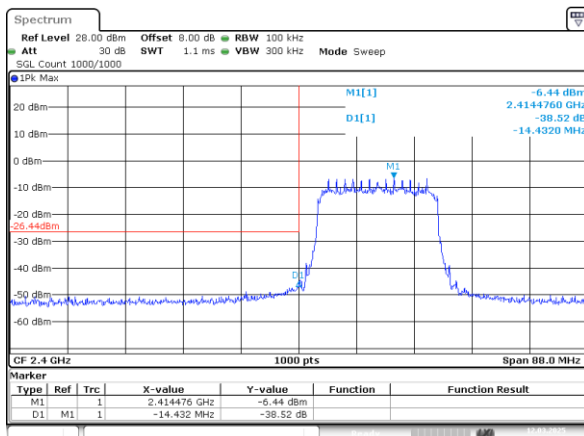
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:43:18

802.11g_2472MHz



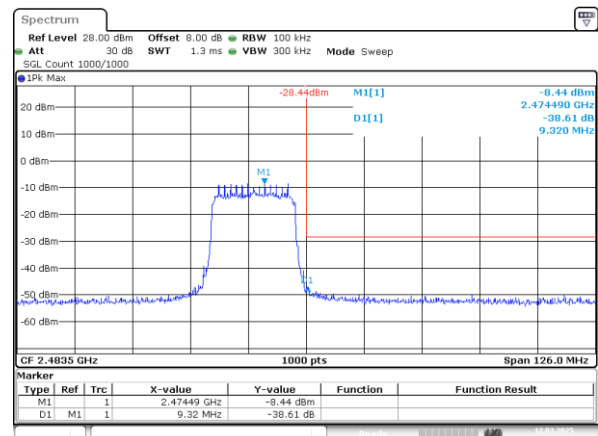
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Date: 12.MAR.2025 14:50:16

802.11n20_2412MHz



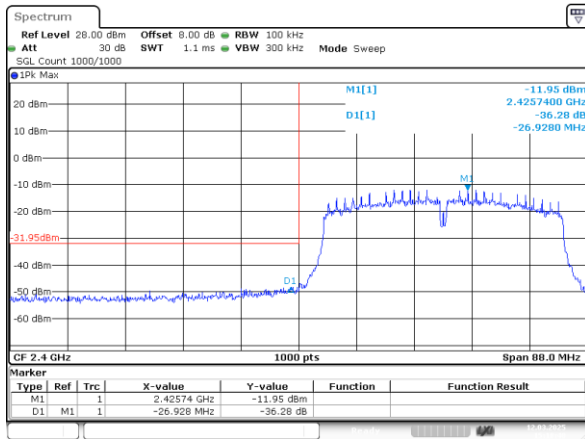
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Date: 12.MAR.2025 09:11:07

802.11n20_2472MHz



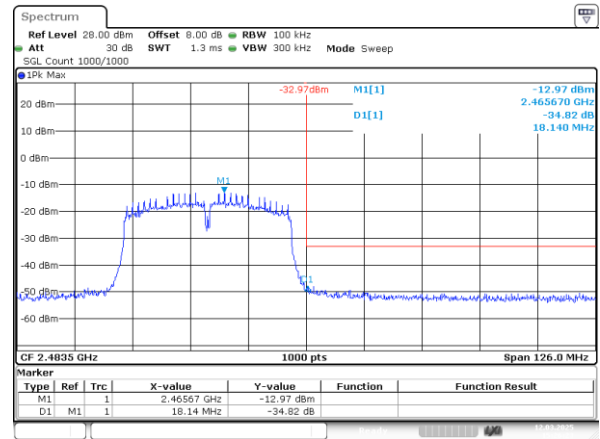
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Date: 12.MAR.2025 09:20:12

802.11n40_2422MHz



ProjectNo.:2505Q30506E-RF Tester:Ryan Zhang
 Date: 12.MAR.2025 15:18:49

802.11n40_2462MHz

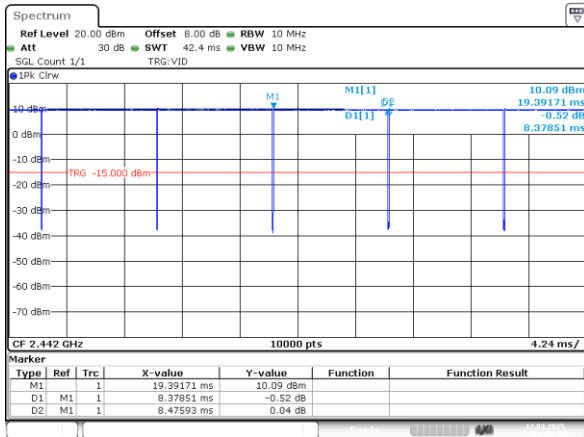


ProjectNo.:2505Q30506E-RF Tester:Ryan Zhang
 Date: 12.MAR.2025 15:26:23

Duty Cycle:

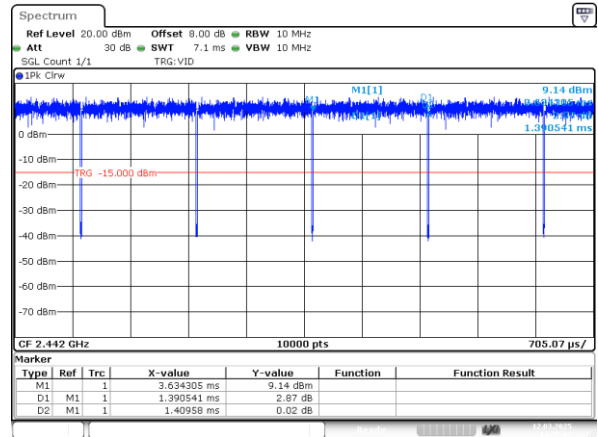
2412~2472

802.11b_2442MHz



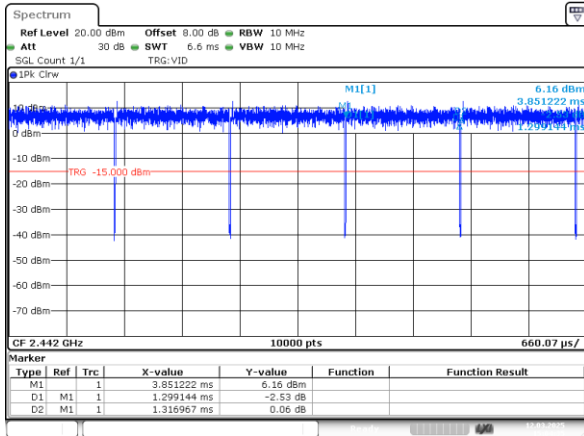
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Date: 12.MAR.2025 14:34:44

802.11g_2442MHz



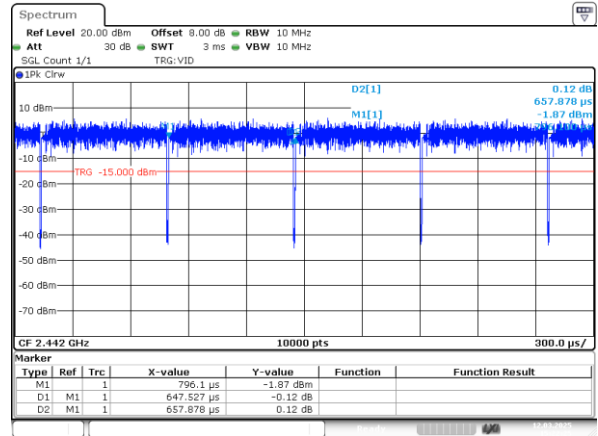
ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 14:45:03

802.11n20_2442MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:04:35

802.11n40_2442MHz



ProjectNo.:2505Q30506EB-RF Tester:Ryan Zhang
Date: 12.MAR.2025 15:22:25

4 Test Setup Photo

Please refer to the attachment 2505Q30506E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2505Q30506E External photo and 2505Q30506E Internal photo.

---End of Report---