

# FCC Test Report

**Report No.:** 2505P37465EC

**Applicant:** Huizhou speed wireless technology co.,ltd

**Address:** No.138 Huize Road, Hi-Tech Industrial Park of East River,  
Zhongkai Hi-tech District, Huizhou City, Guangdong Province,  
China

**Product Name:** WiFi+BT Module

**Product Model:** WL00033

**Multiple Models:** N/A

**Trade Mark:** N/A

**FCC ID:** 2BBLK-WL6376B

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

**Test Date:** 2025-02-07 to 2025-03-05

**Test Result:** Complied

**Report Date:** 2025-03-05

**Reviewed by:**

*Abel chen*

Abel Chen  
Project Engineer

**Approved by:**

*Jacob Kong*

Jacob Kong  
Manager

**Prepared by:**

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## Revision History

Version No.	Issued Date	Description
00	2025-03-05	Original

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# 1 General Information

## 1.1 Client Information

Applicant:	Huizhou speed wireless technology co.,ltd
Address:	No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China
Manufacturer:	Huizhou speed wireless technology co.,ltd
Address:	No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China

## 1.2 Product Description of EUT

The EUT is WiFi+BT Module that contains BT, BLE, 2.4G and 5G WLAN radios, this report covers the full testing of the BT radio.

Sample Serial Number	2XWU-1(BT path 1) for CE test, 2XWU-2(BT path 1), 2XWU-4(BT path 2), 2XWU-5 (BT path 3) for RE test&RF test(assigned by WATC)
Sample Received Date	2025-01-22
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz
Maximum Conducted Peak Output Power	9.71dBm
Modulation Technology	GFSK, $\pi/4$ DQPSK, 8DPSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain <sup>#</sup>	5.85dBi
Power Supply	DC 3.3V
Adapter Information	N/A
Modification	Sample No Modification by the test lab

## 1.3 Antenna information

<p><b>15.203 requirement:</b></p> <p>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.</p>	
<b>Device Antenna information:</b>	
<p>The BT antenna is an external antenna with I-PEX connect, please see product external photos for details.</p>	

## 1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2BBLK-WL6376B  
FCC Part 15, Subpart E, Equipment Class: NII, FCC ID: 2BBLK-WL6376B

## 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
<b>Note:</b> 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](mailto: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)
0	2402	39	2441	76	2478
1	2403	40	2442	77	2479
...	...	...	...	78	2480
38	2440	...	...	/	/
According to ANSI C63.10-2013 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:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	78	2480

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software <sup>#</sup> :		WCN Combo Tool		
Mode	Data rate	Power Level Setting <sup>#</sup>		
		Low Channel	Middle Channel	High Channel
GFSK	1Mbps	7	7	7
$\pi/4$ DQPSK	2Mbps	7	7	7
8DPSK	3Mbps	7	7	7
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
The device have three antenna path designs, all the path signals is from same input, each path can be selected to activate/deactivate by connect/disconnect a 0 $\Omega$ resistance, detail please refer the EUT photo, only one path will be selected to use at a time.
For RF conducted test, three path output power was tested, full test was performed on the path which has maximum output power
For AC power line conducted emission and radiated emission 9kHz-1GHz were performed with the EUT transmits at the channel with highest output power among the three paths as worst-case scenario.
For radiated emission above 18GHz was performed with the EUT transmits at the channel with highest output power of each path as worst-case scenario.
For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

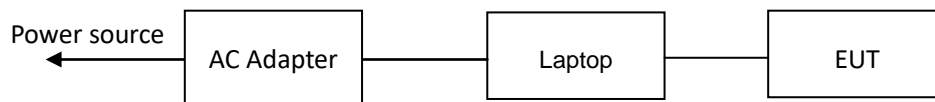
## 2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Dell	Laptop	unknown	unknown
Dell	AC Adapter	unknown	unknown

## 2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
unknown	USB extension cable	1.0	Laptop	EUT
Dell	AC Power Cable	1.5	Power source	AC Adapter
Dell	DC Power Cable	1.5	AC Adapter	Laptop

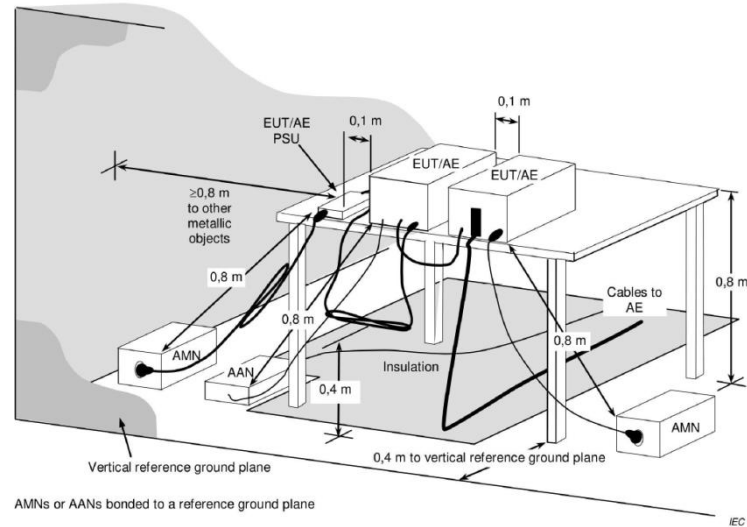
## 2.4 Block Diagram of Connection between EUT and AE



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

## 2.5 Test Setup

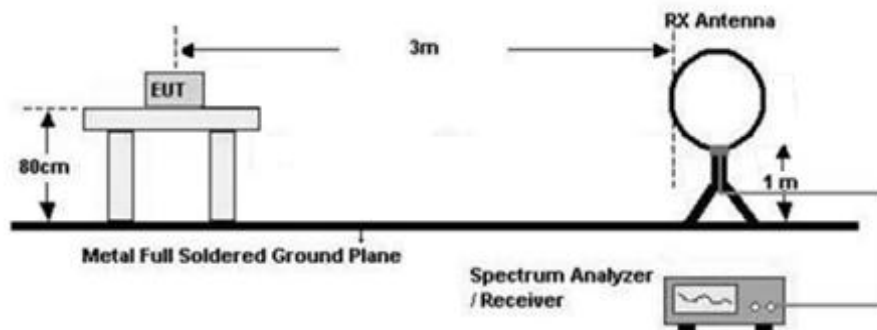
**1) Conducted emission measurement:**



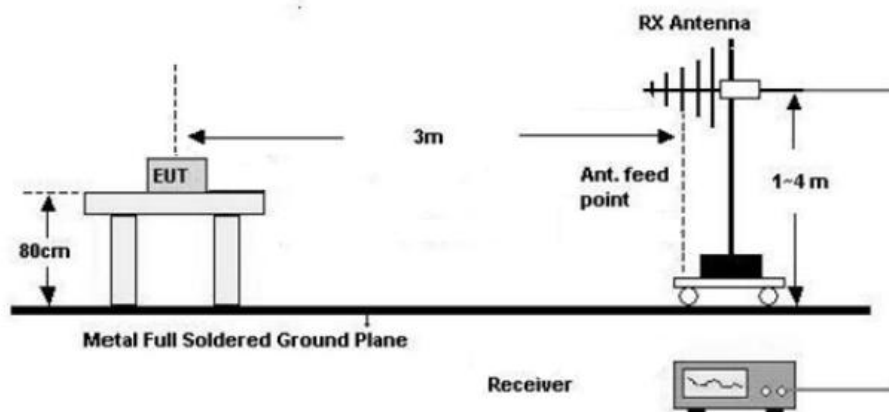
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

**2) Radiated emission measurement:**

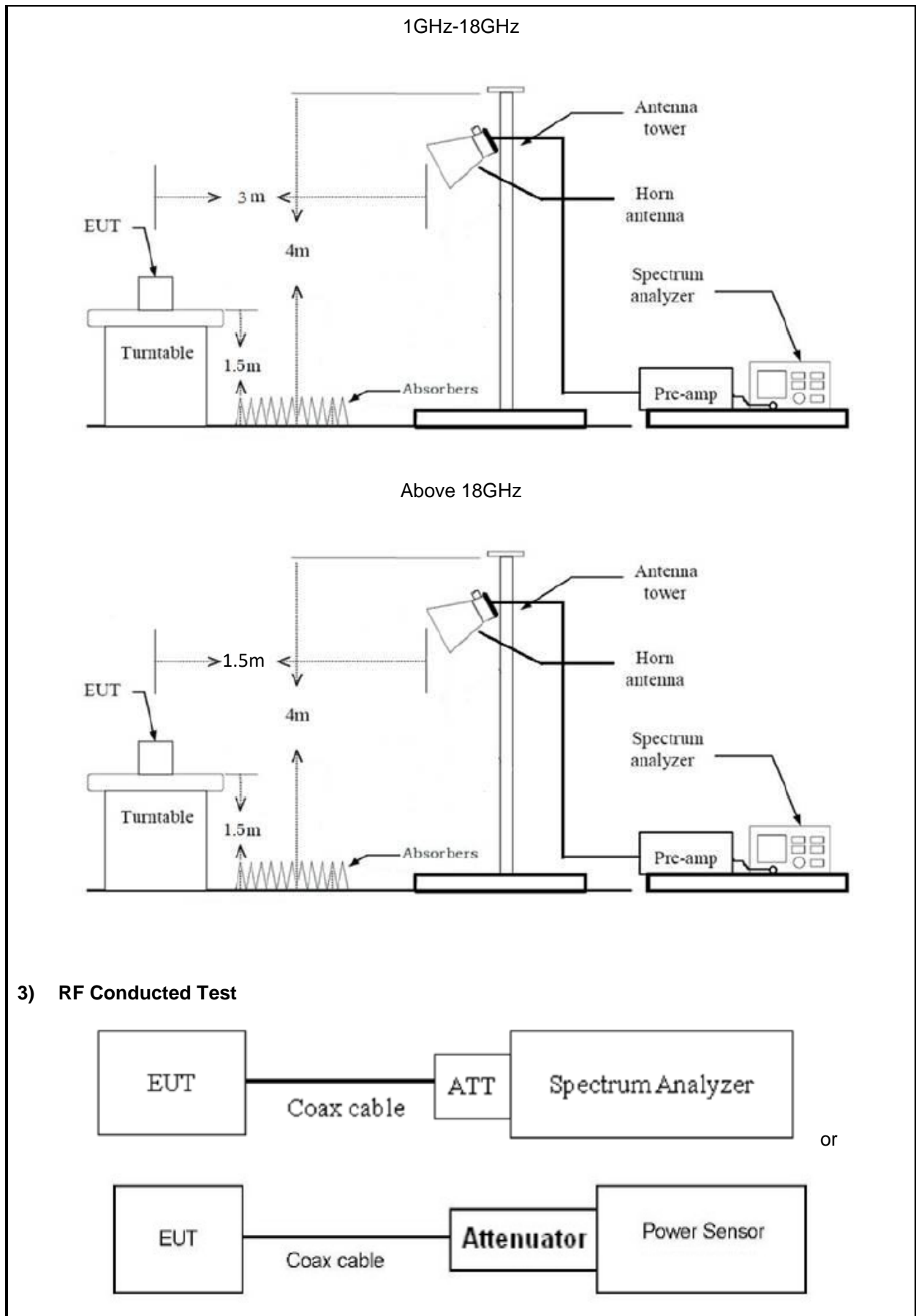
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)







## 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 9kHz/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. (Note: a high VBW (for example 1kHz) 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 2.0dB 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 C63.10-2013 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2013 Section 7.8.5
20 dB Emission Bandwidth	ANSI C63.10-2013 Section 6.9.2
99% Occupied Bandwidth	ANSI C63.10-2013 Section 6.9.3
Channel separation	ANSI C63.10-2013 Section 7.8.2
Number of hopping Frequency	ANSI C63.10-2013 Section 7.8.3
Time of occupancy (dwell time)	ANSI C63.10-2013 Section 7.8.4
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2013 Section 7.8.7.2&6.10
Radiated emission	ANSI C63.10-2013 Section 7.8&6.3&6.4&6.5&6.6

## 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
Unknown	10dB attenuator	10dB	10-1	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	FSV40	101419	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

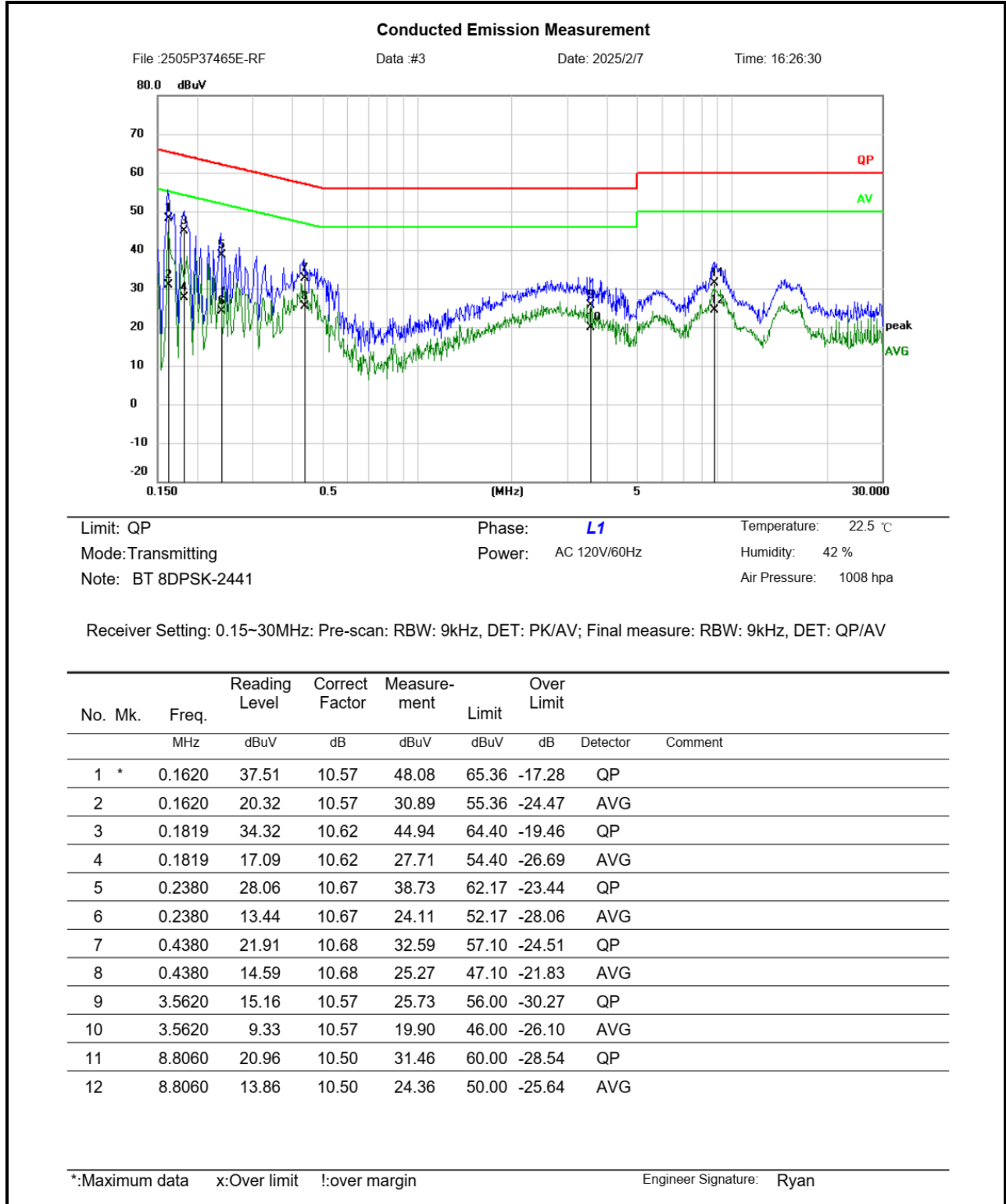
FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247 (a)(1)	20dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247 (a)(1)	Channel separation	Compliance
§15.247 (a)(1)(iii)	Number of hopping Frequency	Compliance
§15.247 (a)(1)(iii)	Time of occupancy (dwell time)	Compliance
§15.247(b)(1)	Maximum Conducted Output Power	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance

## 3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
Channel separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Number of hopping Frequency	Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.
Time of occupancy (dwell time)	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
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

<b>Test Date:</b>	2025-02-07	<b>Test By:</b>	Ryan Zhang
<b>Environment condition:</b>	Temperature: 22.5°C; Relative Humidity:42%; ATM Pressure: 100.8kPa		



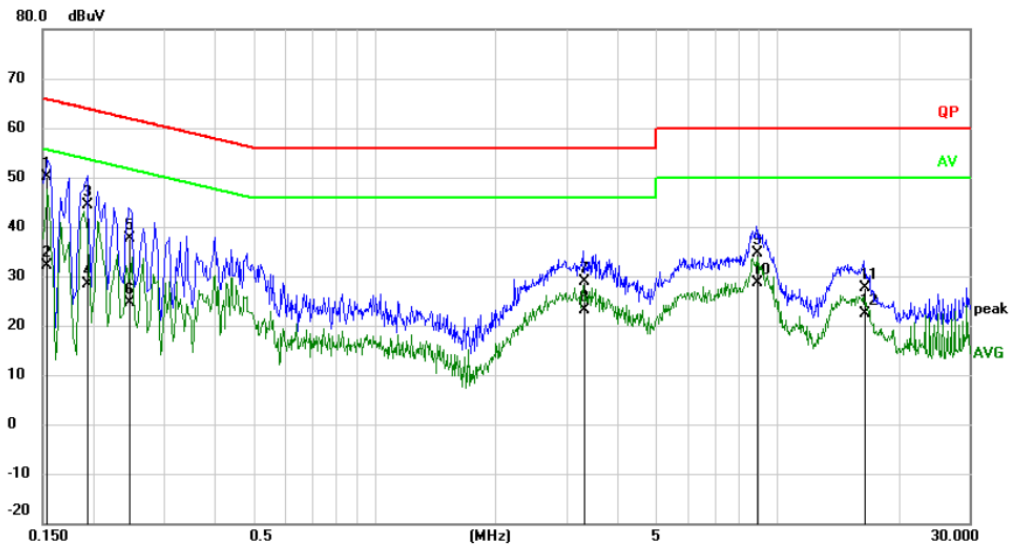
### Conducted Emission Measurement

File :2505P37465E-RF

Data :#4

Date: 2025/2/7

Time: 16:28:05



Limit: QP

Phase: **N**

Temperature: 22.5 °C

Mode: Transmitting

Power: AC 120V/60Hz

Humidity: 42 %

Note: BT 8DPSK-2441

Air Pressure: 1008 hpa

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1	*	0.1539	39.70	10.45	50.15	65.79	-15.64	QP	
2		0.1539	21.60	10.45	32.05	55.79	-23.74	AVG	
3		0.1940	33.90	10.46	44.36	63.86	-19.50	QP	
4		0.1940	17.97	10.46	28.43	53.86	-25.43	AVG	
5		0.2460	27.15	10.52	37.67	61.89	-24.22	QP	
6		0.2460	14.07	10.52	24.59	51.89	-27.30	AVG	
7		3.3060	18.30	10.46	28.76	56.00	-27.24	QP	
8		3.3060	12.74	10.46	23.20	46.00	-22.80	AVG	
9		8.9100	24.01	10.53	34.54	60.00	-25.46	QP	
10		8.9100	18.04	10.53	28.57	50.00	-21.43	AVG	
11		16.4060	17.02	10.73	27.75	60.00	-32.25	QP	
12		16.4060	11.73	10.73	22.46	50.00	-27.54	AVG	

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

Engineer Signature: Ryan

#### Remark:

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

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

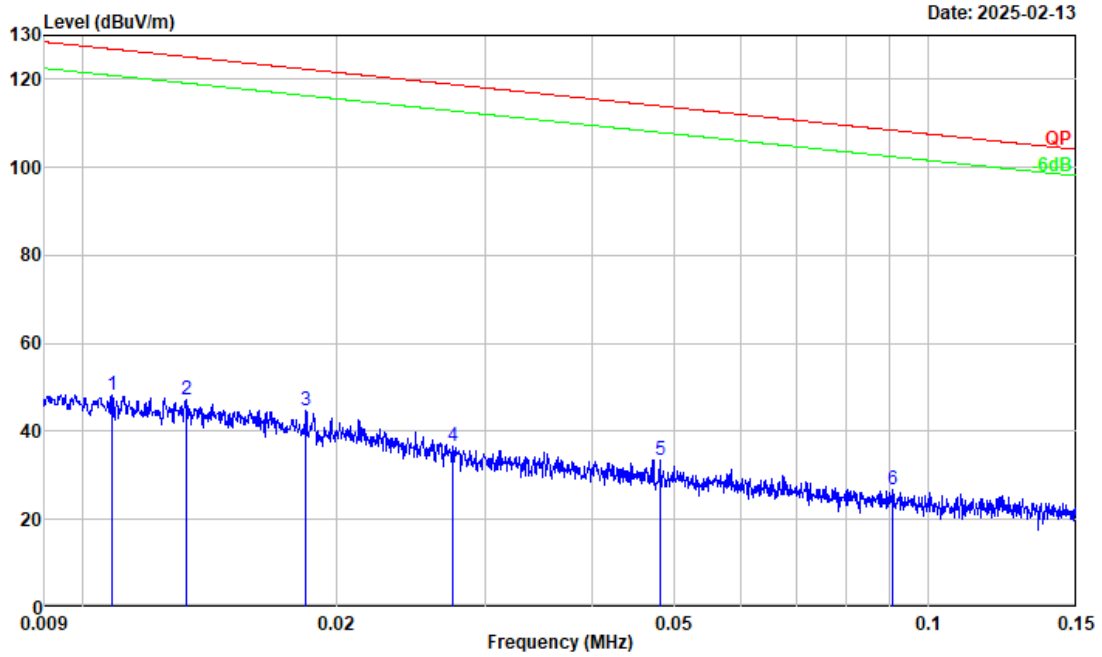
Over Limit = Measurement – Limit



### 3.4 Radiated emission Test Data

9 kHz-30MHz:

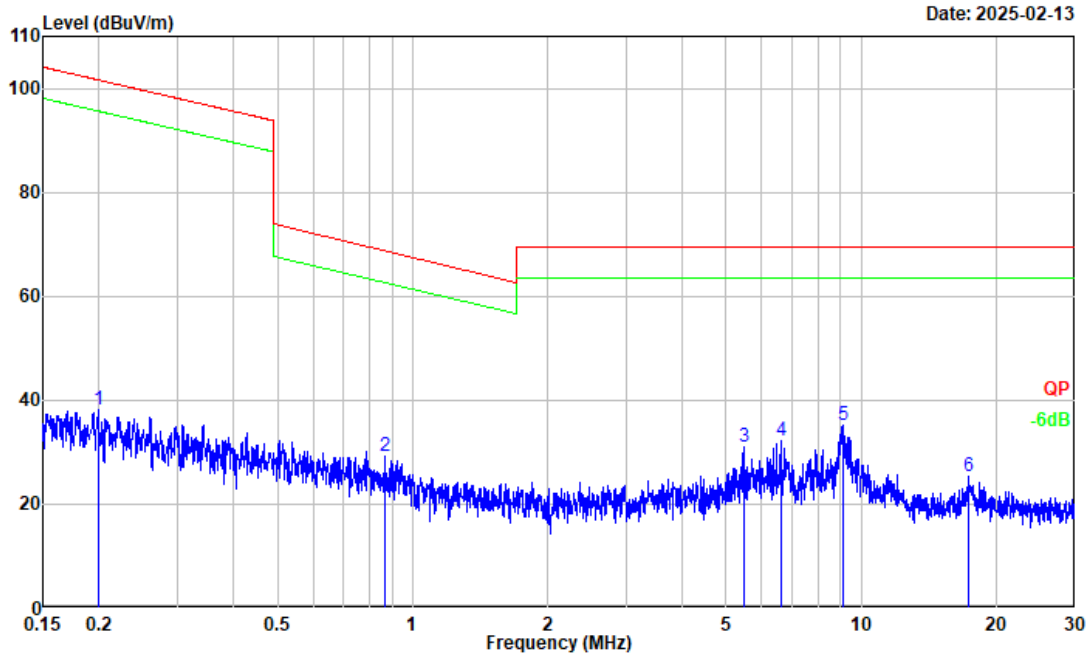
<b>Test Date:</b>	2025-02-13	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 21.4°C; Relative Humidity:45%; ATM Pressure: 101.2kPa		



Project No. : 2505P37465E  
 Test Mode : Transmitting  
 Test Voltage : AC 120V/60Hz  
 Environment : 21.4°C/45%R.H./101.2kPa  
 Tested by : Bard Huang  
 Polarization : PARALLEL  
 Remark : BT 3DH5 2441

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
<hr/>							
1	0.011	11.75	36.69	48.44	126.91	-78.47	Peak
2	0.013	11.98	35.14	47.12	125.15	-78.03	Peak
3	0.018	12.71	31.90	44.61	122.32	-77.71	Peak
4	0.027	10.34	26.17	36.51	118.85	-82.34	Peak
5	0.048	12.73	20.79	33.52	113.95	-80.43	Peak
6	0.091	11.32	15.57	26.89	108.43	-81.54	Peak

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



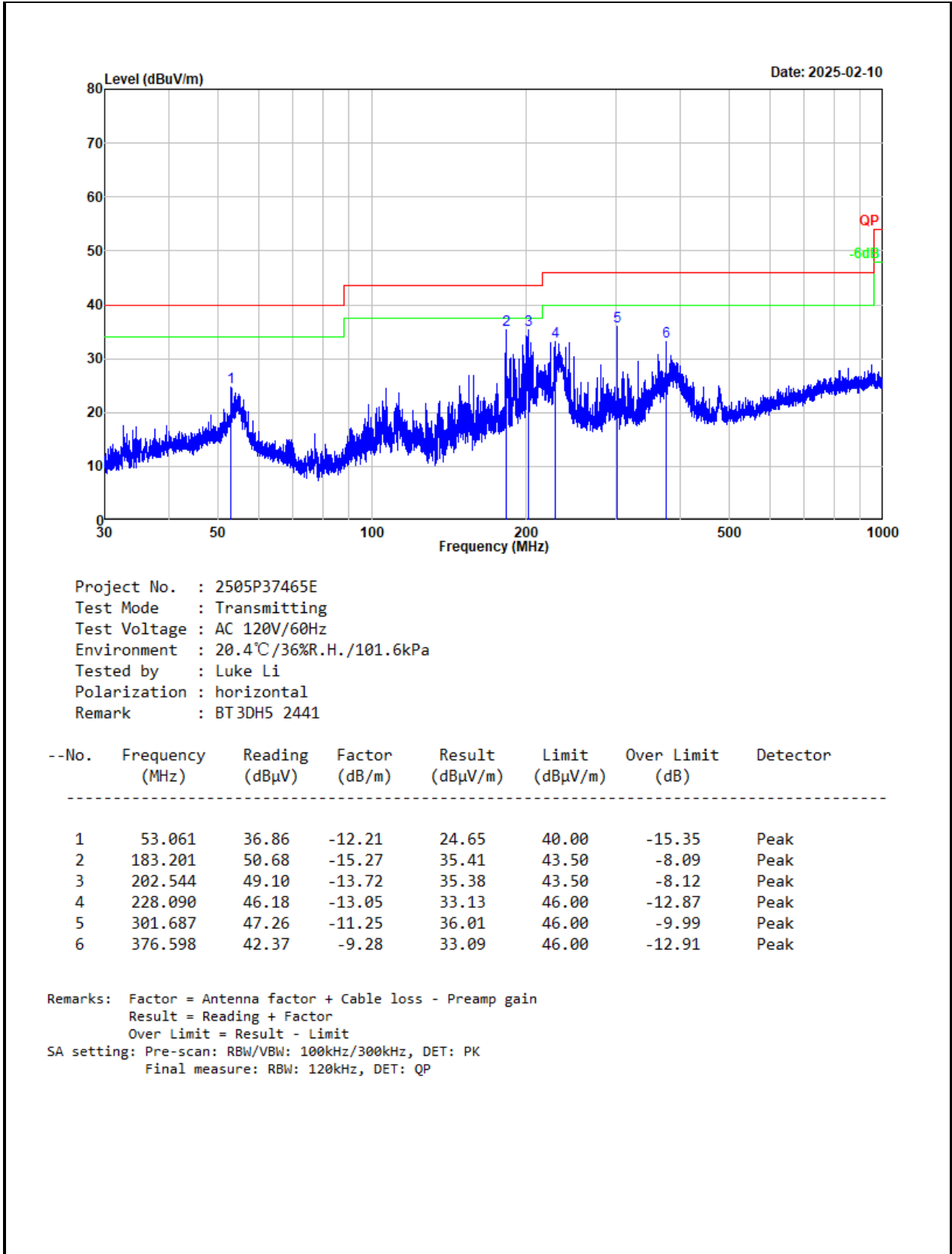
Project No. : 2505P37465E  
Test Mode : Transmitting  
Test Voltage : AC 120V/60Hz  
Environment : 21.4°C/45%R.H./101.2kPa  
Tested by : Bard Huang  
Polarization : PARALLEL  
Remark : BT 3DH5 2441

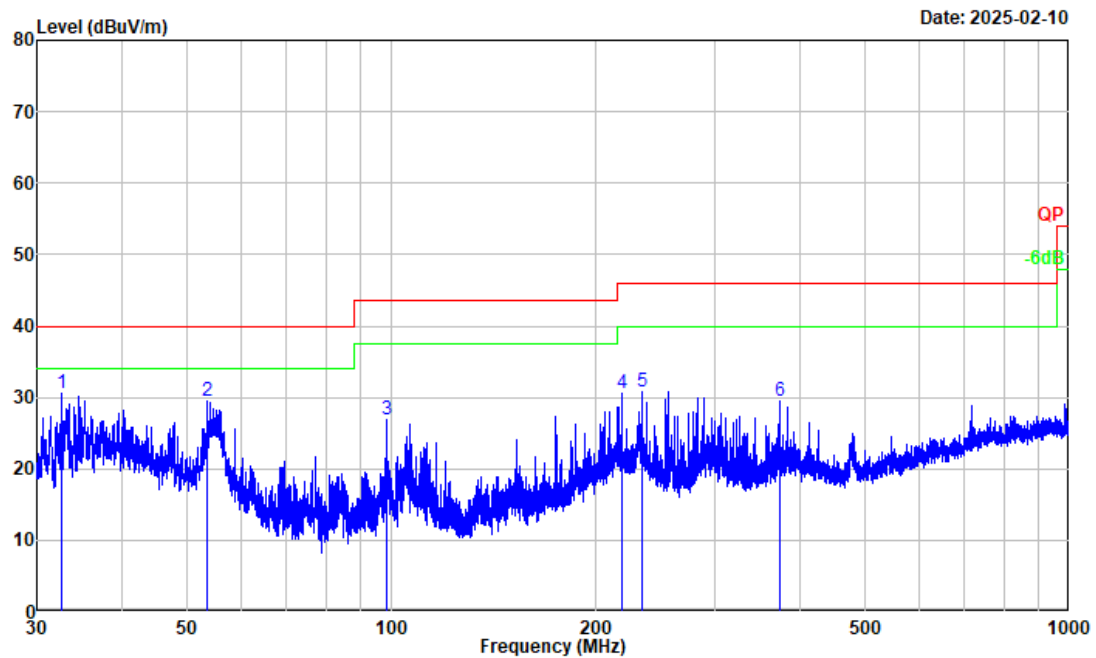
--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.200	25.99	12.17	38.16	101.60	-63.44	Peak
2	0.868	27.55	1.74	29.29	68.72	-39.43	Peak
3	5.464	35.07	-4.02	31.05	69.54	-38.49	Peak
4	6.636	36.35	-4.03	32.32	69.54	-37.22	Peak
5	9.136	38.89	-3.64	35.25	69.54	-34.29	Peak
6	17.379	28.45	-3.25	25.20	69.54	-44.34	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:**

<b>Test Date:</b>	2025-02-10	<b>Test By:</b>	Luke Li
<b>Environment condition:</b>	Temperature: 20.4°C; Relative Humidity:36%; ATM Pressure: 101.6kPa		





Project No. : 2505P37465E  
 Test Mode : Transmitting  
 Test Voltage : AC 120V/60Hz  
 Environment : 20.4°C/36%R.H./101.6kPa  
 Tested by : Luke Li  
 Polarization : vertical  
 Remark : BT3DH5 2441

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
<hr/>							
1	32.591	45.69	-15.12	30.57	40.00	-9.43	Peak
2	53.599	41.88	-12.33	29.55	40.00	-10.45	Peak
3	98.443	41.13	-14.31	26.82	43.50	-16.68	Peak
4	218.404	44.14	-13.59	30.55	46.00	-15.45	Peak
5	234.374	43.58	-12.78	30.80	46.00	-15.20	Peak
6	374.623	38.77	-9.32	29.45	46.00	-16.55	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:**

**Path 1:**

<b>Test Date:</b>	2025-02-17	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 23°C; Relative Humidity:62%; ATM Pressure: 101.5kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
GFSK							
Low Channel							
4804.000	47.50	horizontal	-2.42	45.08	74.00	-28.92	Peak
4804.000	48.29	vertical	-2.42	45.87	74.00	-28.13	Peak
Middle Channel							
4882.000	48.52	horizontal	-1.86	46.66	74.00	-27.34	Peak
4882.000	47.63	vertical	-1.86	45.77	74.00	-28.23	Peak
High Channel							
4960.000	47.50	horizontal	-1.70	45.80	74.00	-28.20	Peak
4960.000	47.78	vertical	-1.70	46.08	74.00	-27.92	Peak
π/4 DQPSK							
Low Channel							
4804.000	48.12	horizontal	-2.42	45.70	74.00	-28.30	Peak
4804.000	47.90	vertical	-2.42	45.48	74.00	-28.52	Peak
Middle Channel							
4882.000	47.09	horizontal	-1.86	45.23	74.00	-28.77	Peak
4882.000	47.27	vertical	-1.86	45.41	74.00	-28.59	Peak
High Channel							
4960.000	47.36	horizontal	-1.70	45.66	74.00	-28.34	Peak
4960.000	48.73	vertical	-1.70	47.03	74.00	-26.97	Peak
8DPSK							
Low Channel							
4804.000	47.01	horizontal	-2.42	44.59	74.00	-29.41	Peak
4804.000	47.09	vertical	-2.42	44.67	74.00	-29.33	Peak
Middle Channel							
4882.000	48.36	horizontal	-1.86	46.50	74.00	-27.50	Peak
4882.000	47.28	vertical	-1.86	45.42	74.00	-28.58	Peak

High Channel							
4960.000	48.51	horizontal	-1.70	46.81	74.00	-27.19	Peak
4960.000	47.36	vertical	-1.70	45.66	74.00	-28.34	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

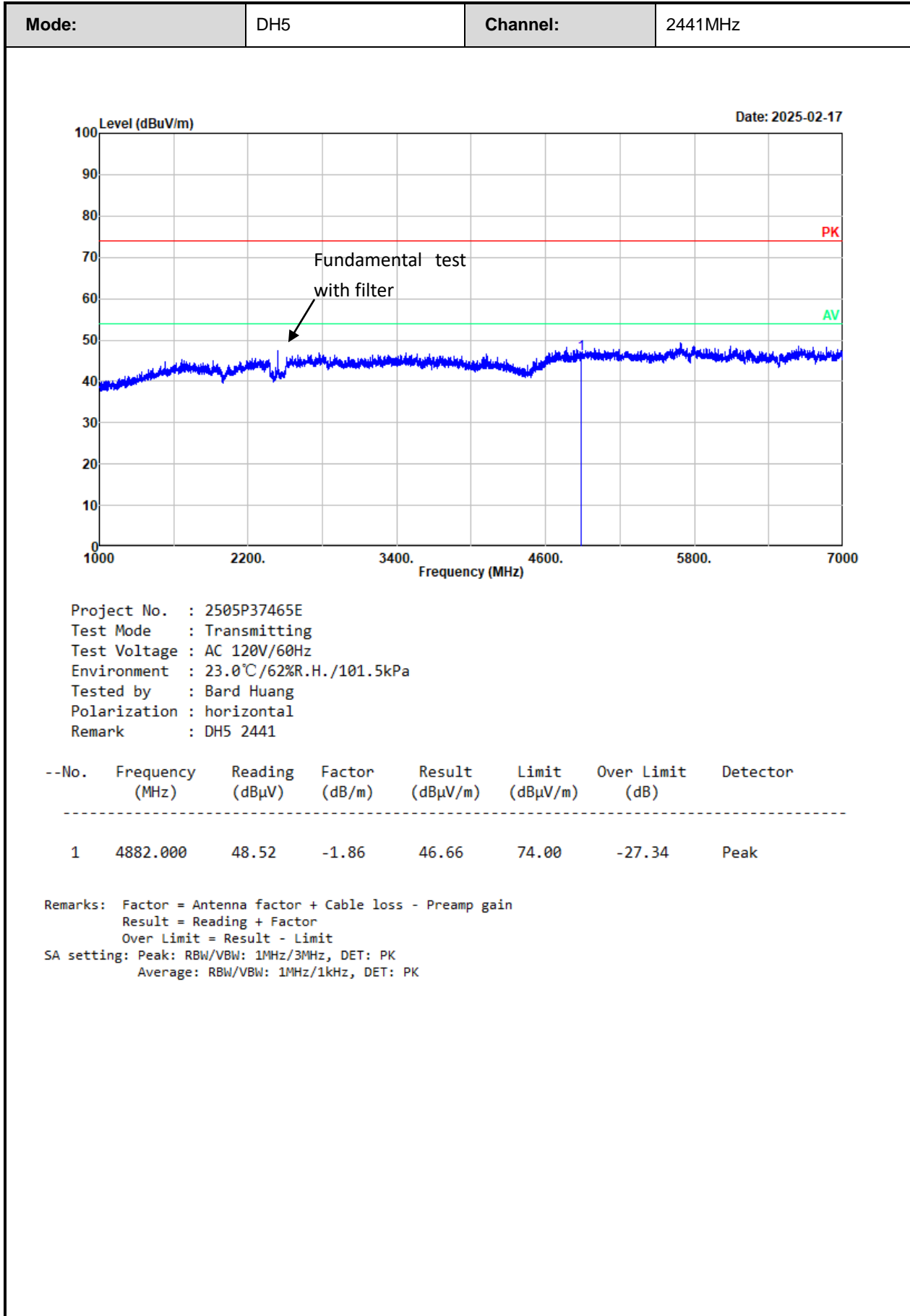
Margin = Corrected Amplitude – Limit

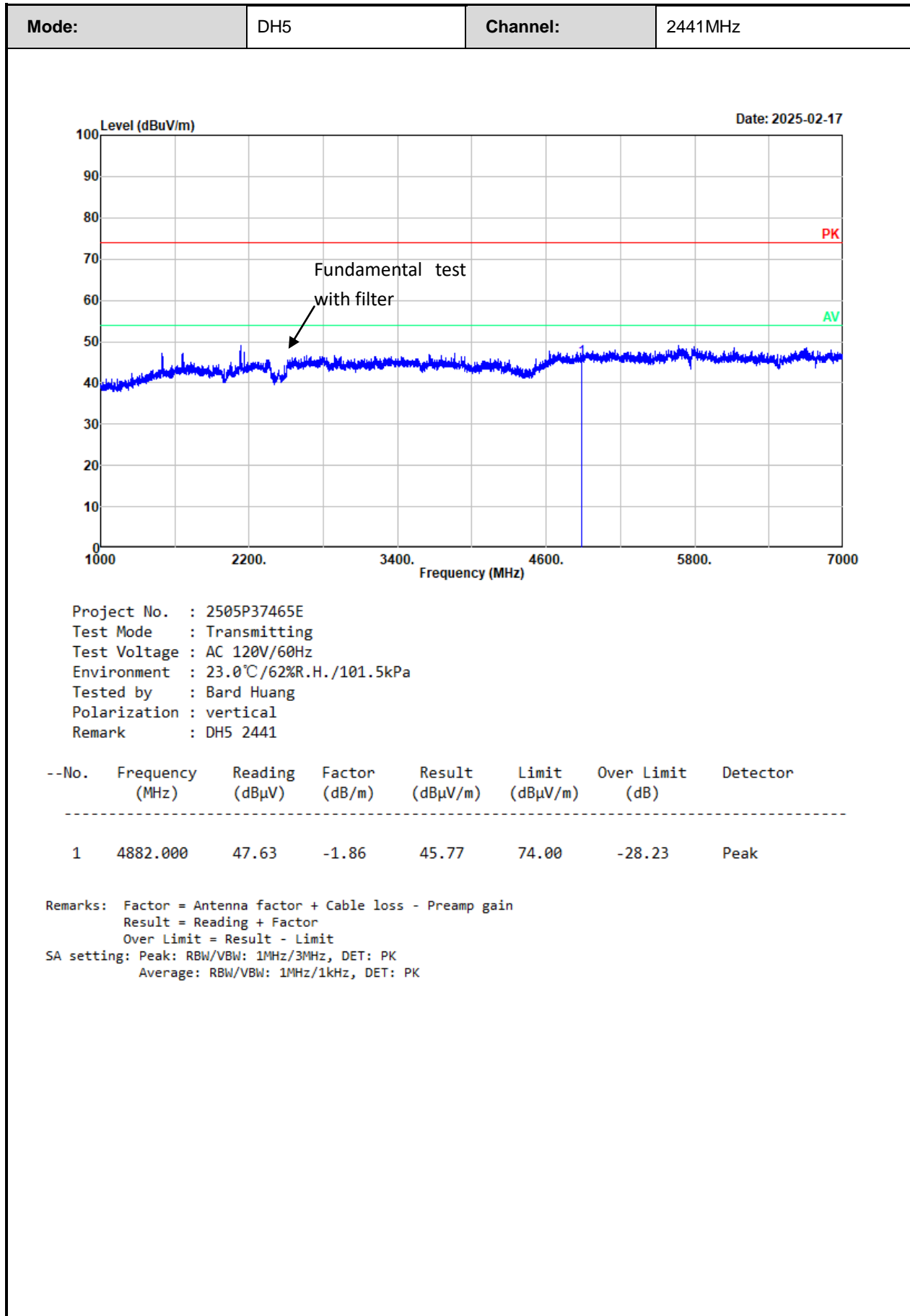
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

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

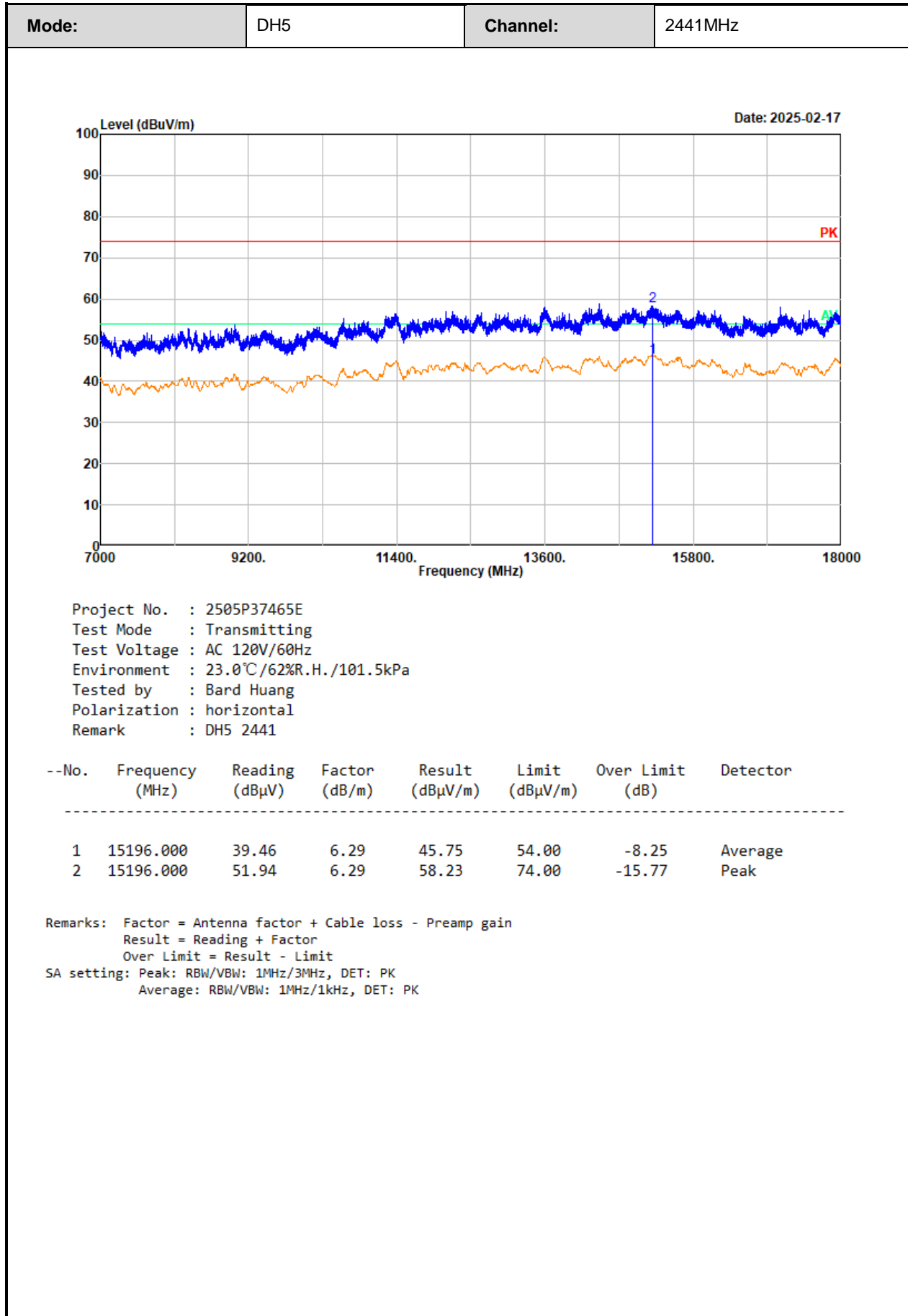
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

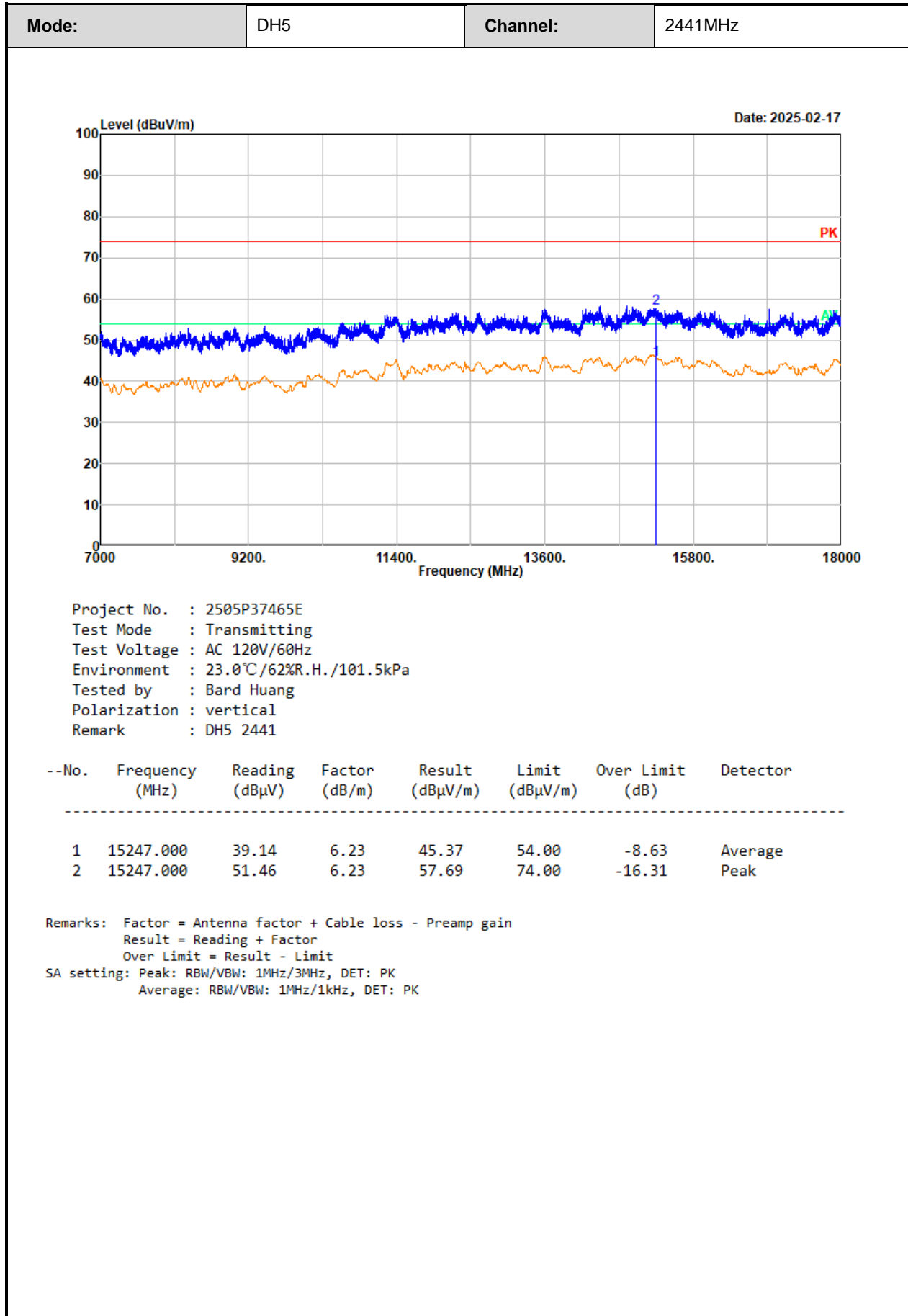
**Test plot for worst case as below:**

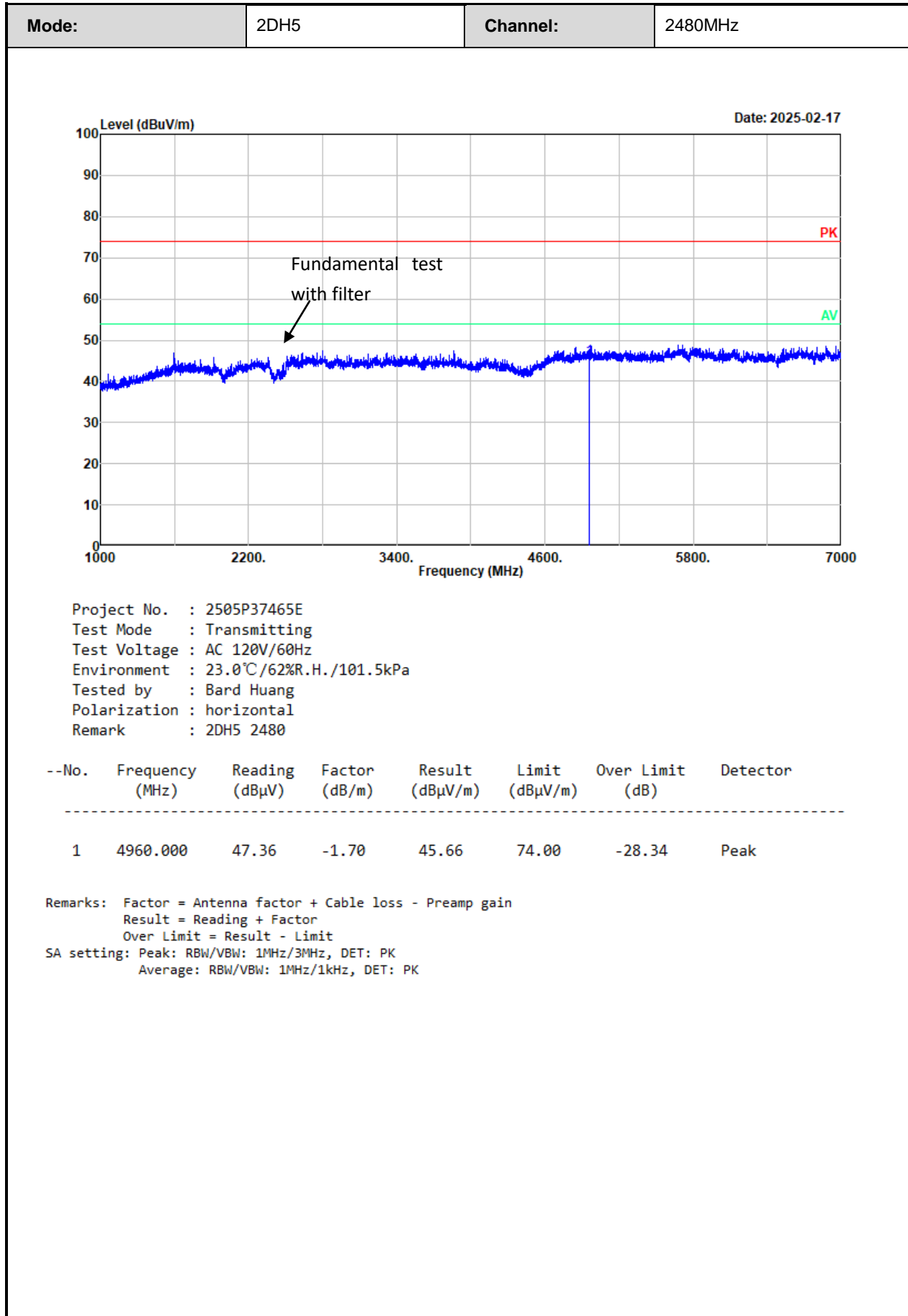


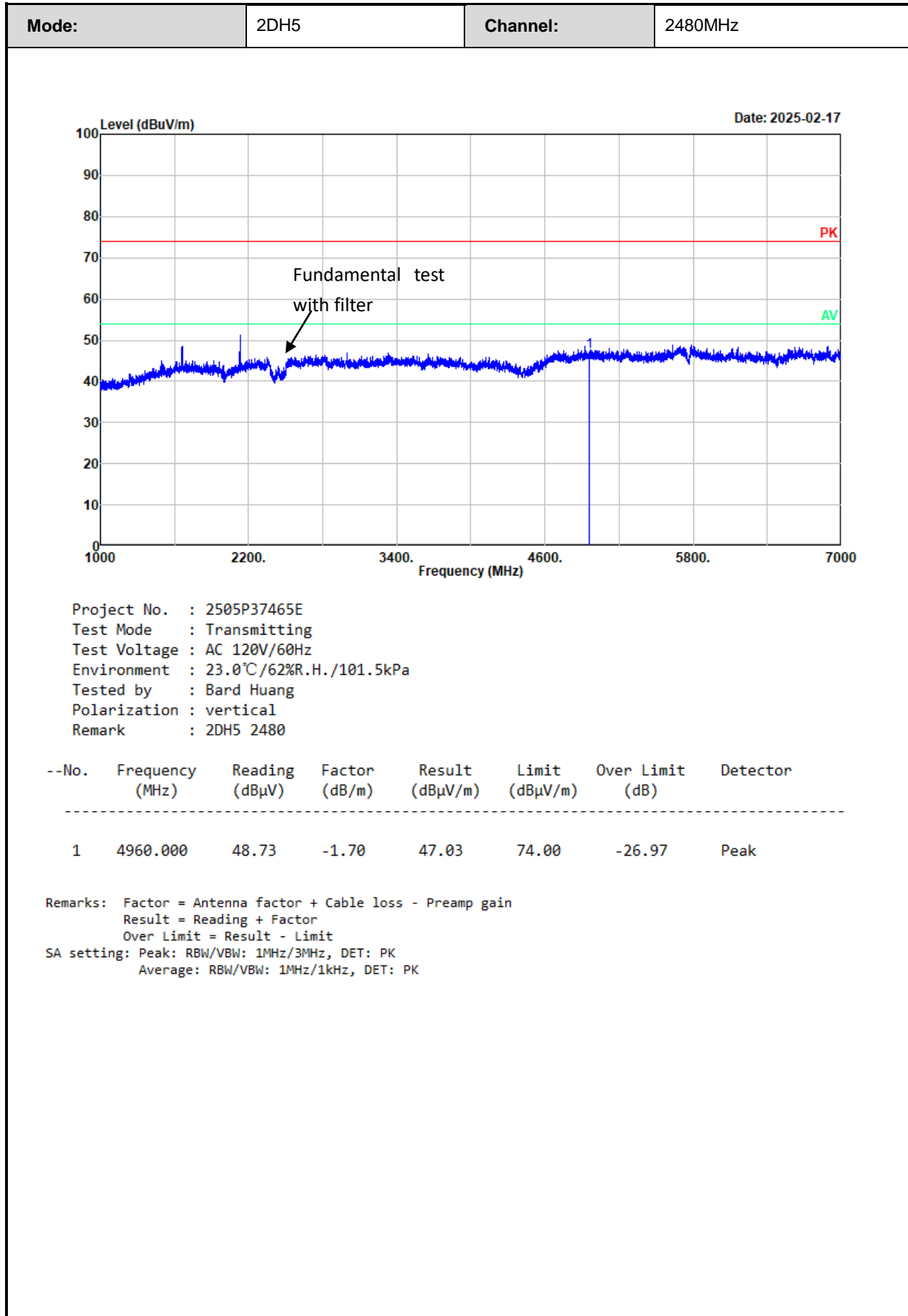


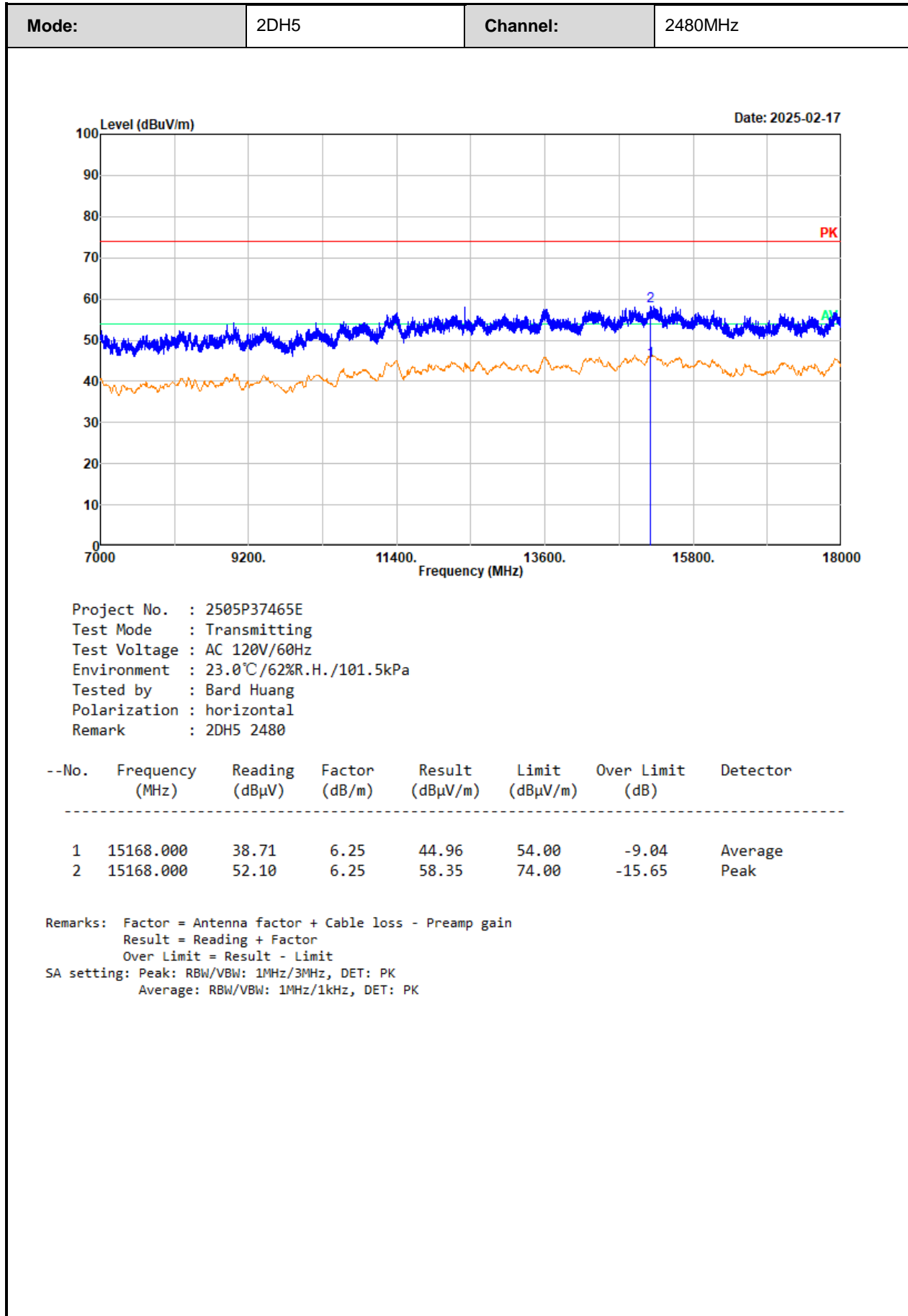


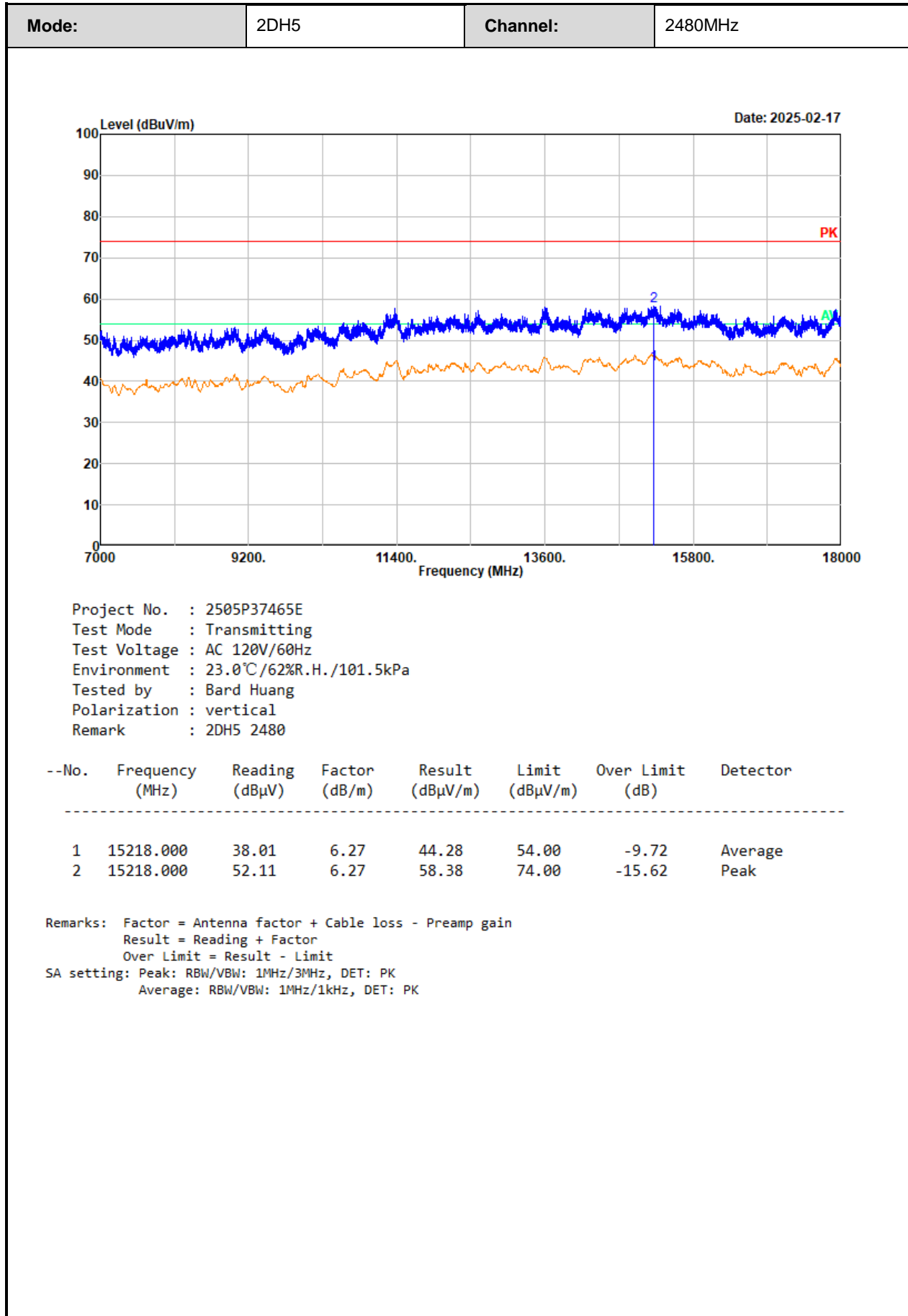


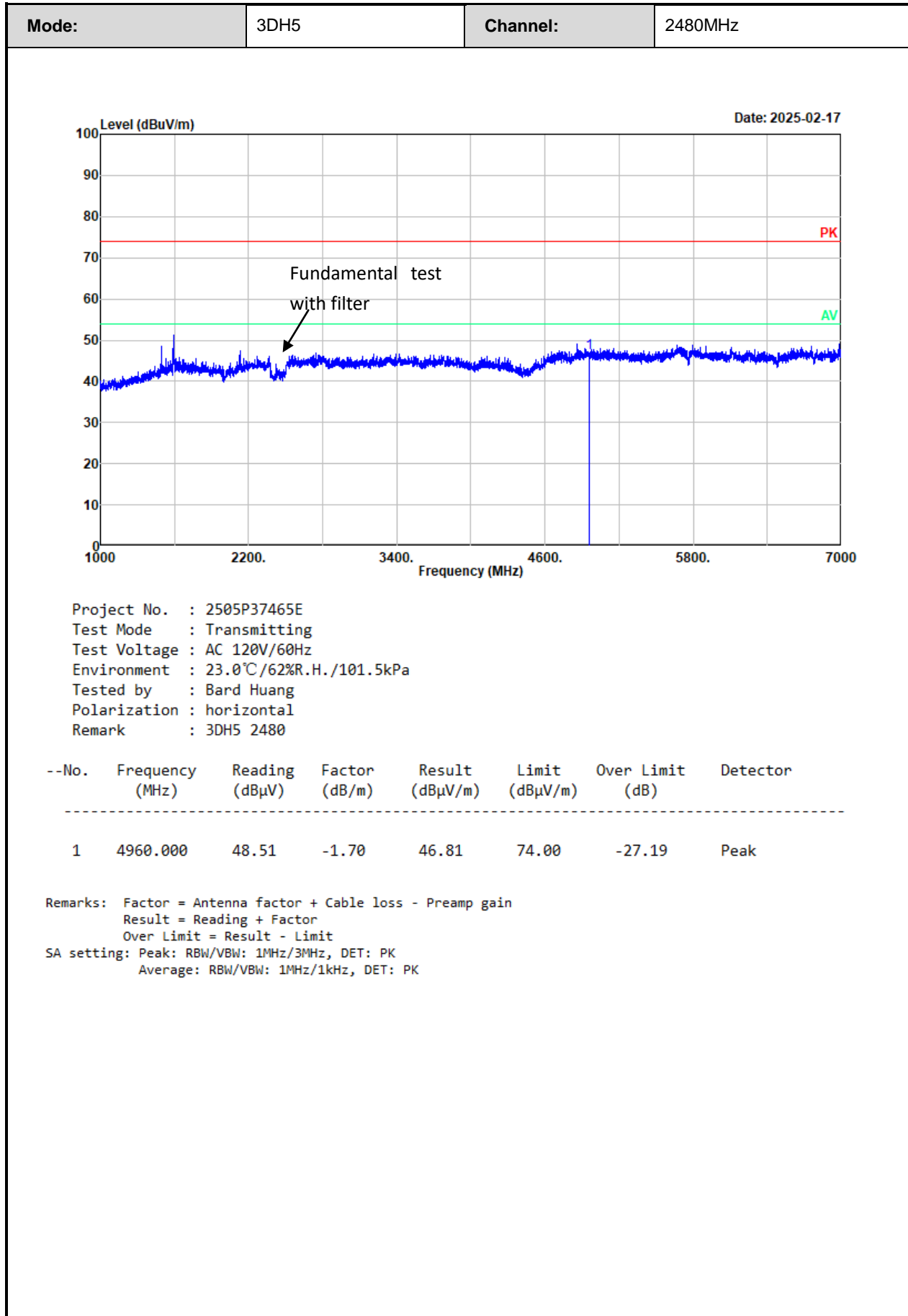


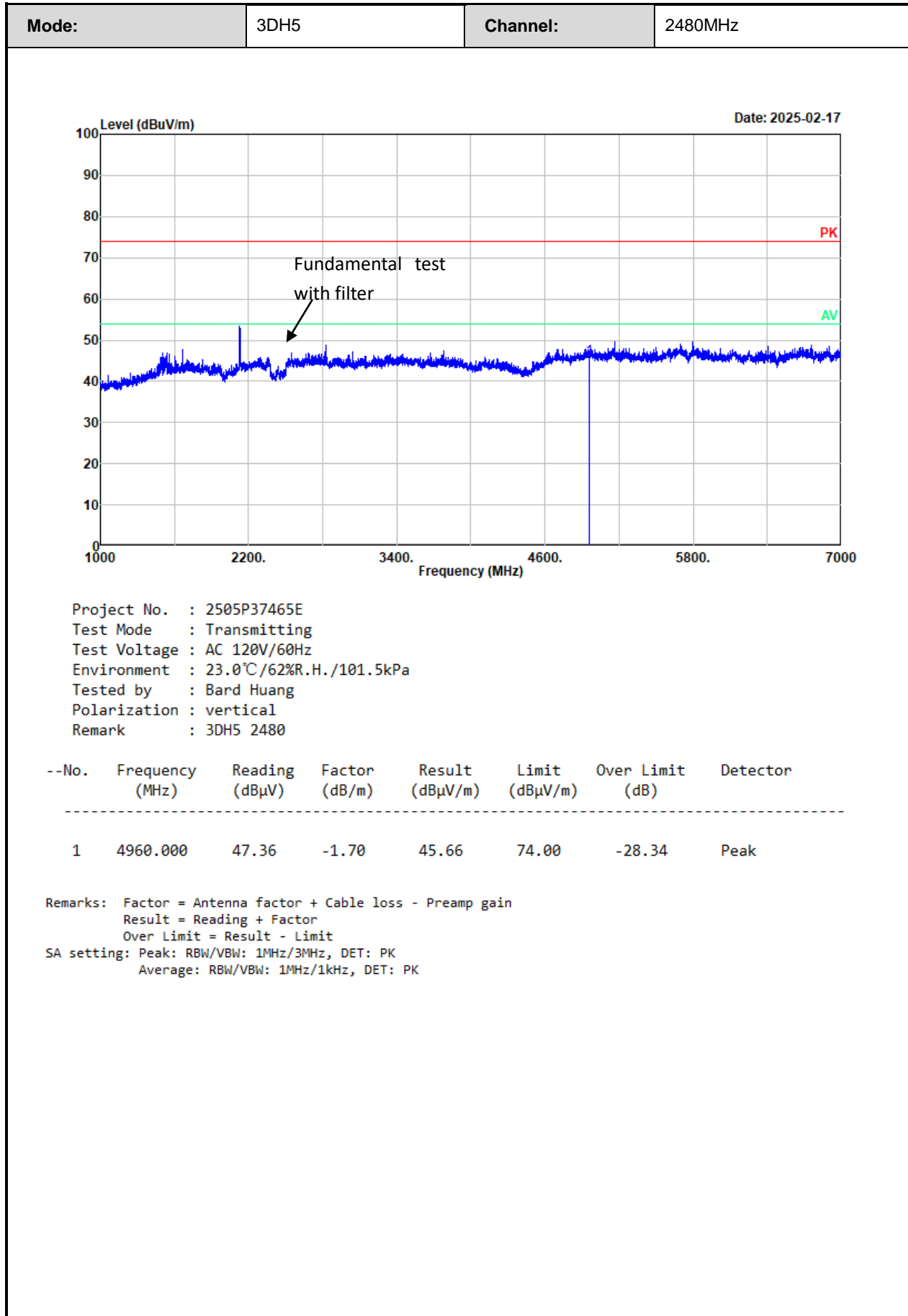




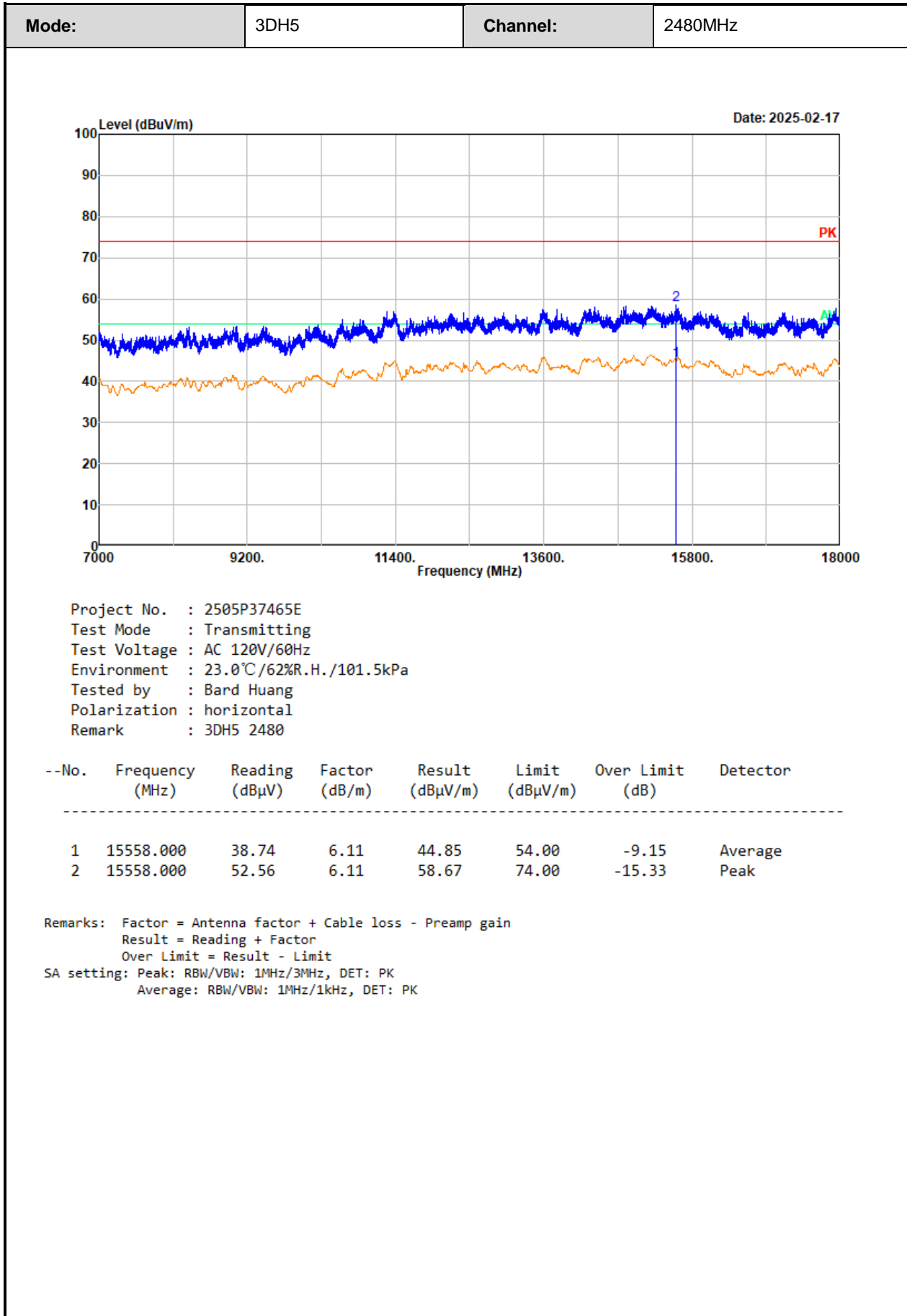


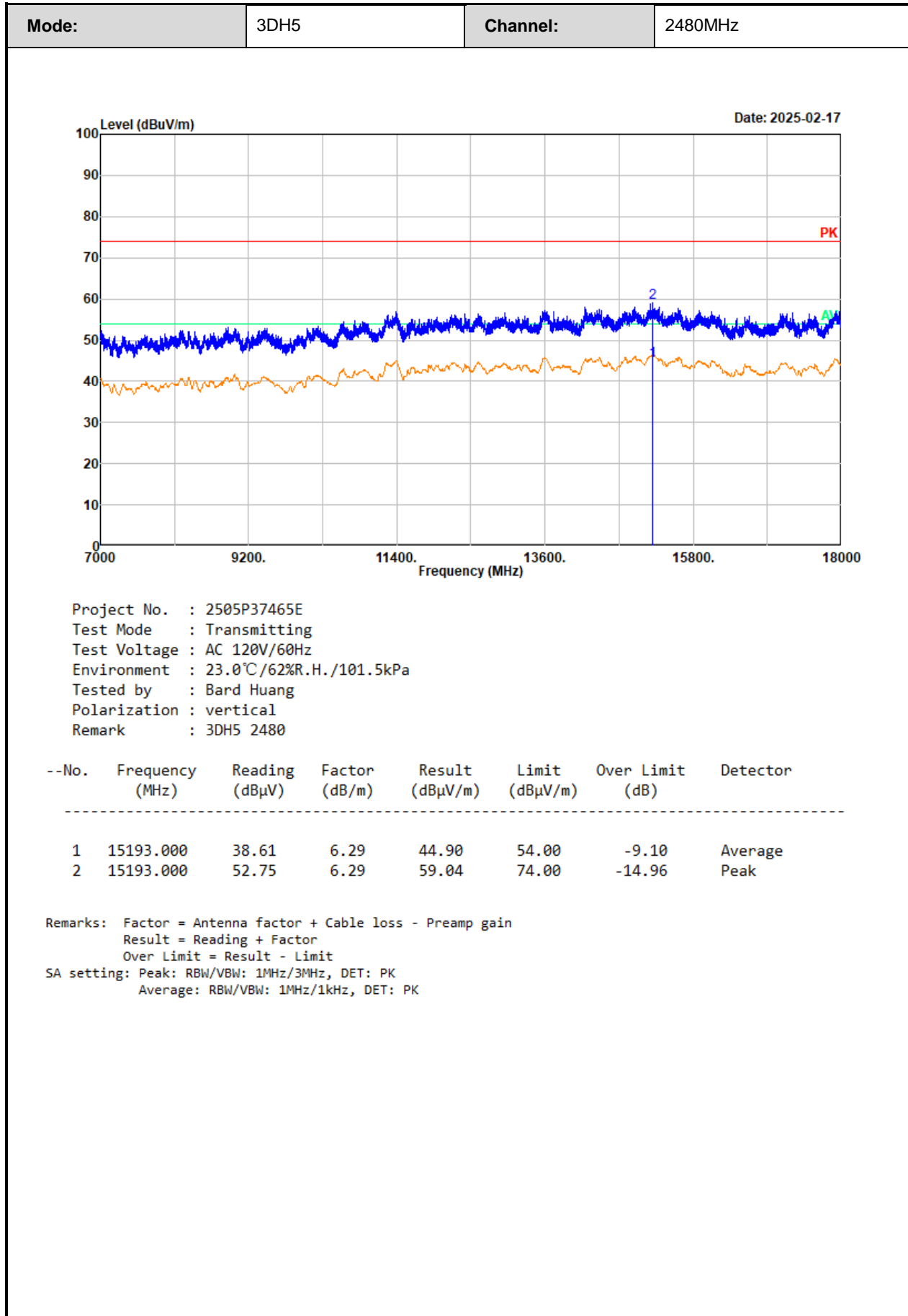


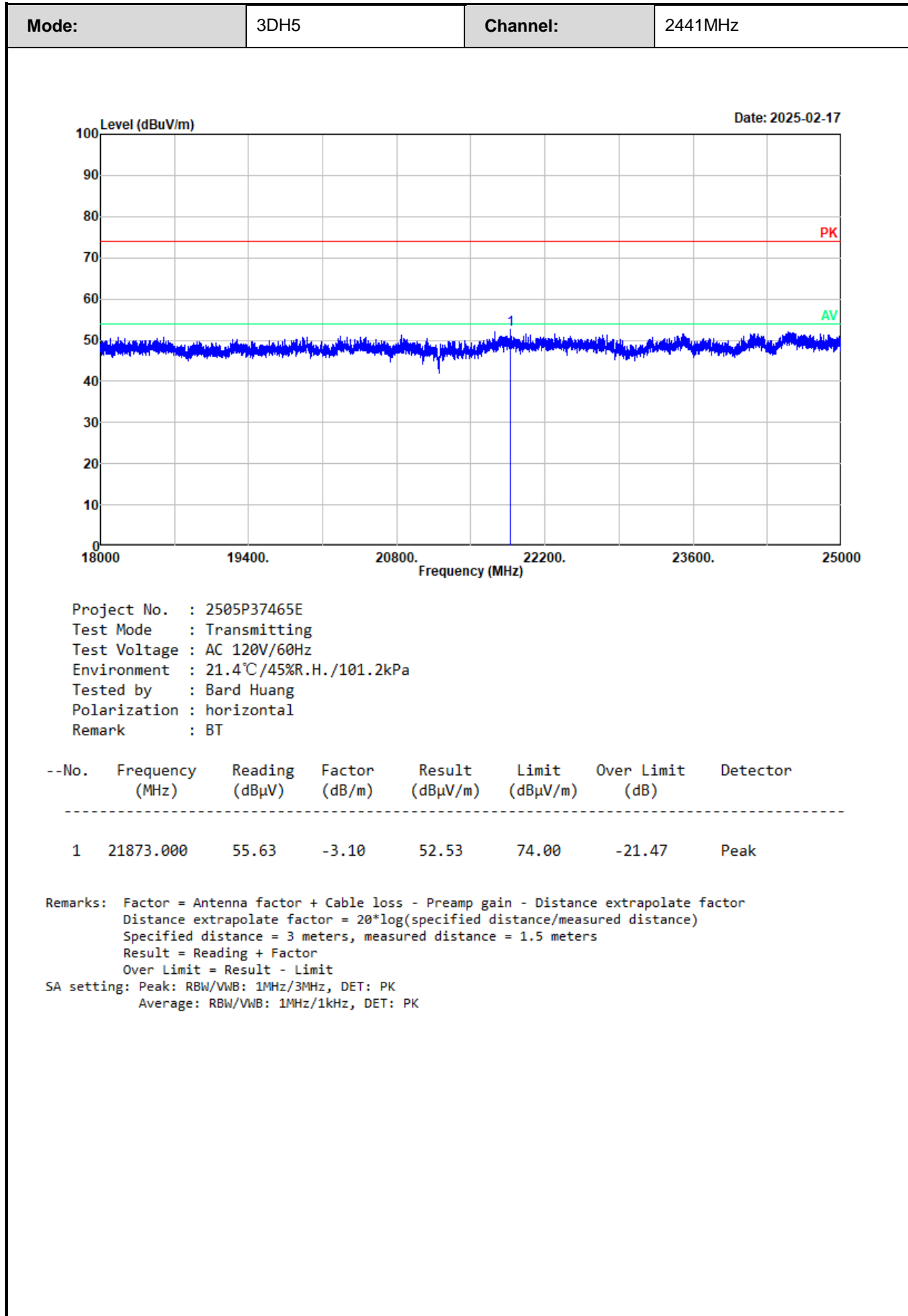


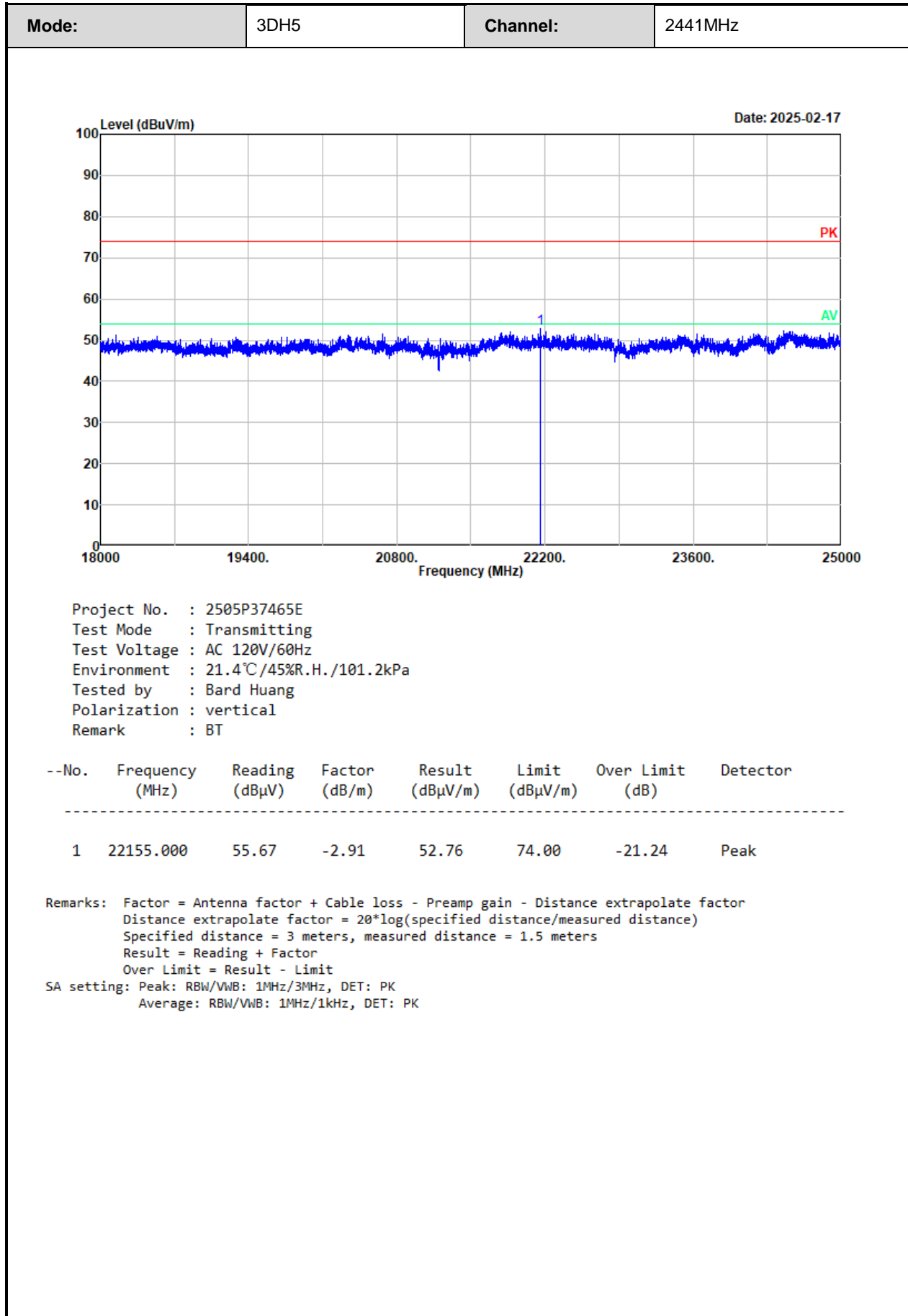




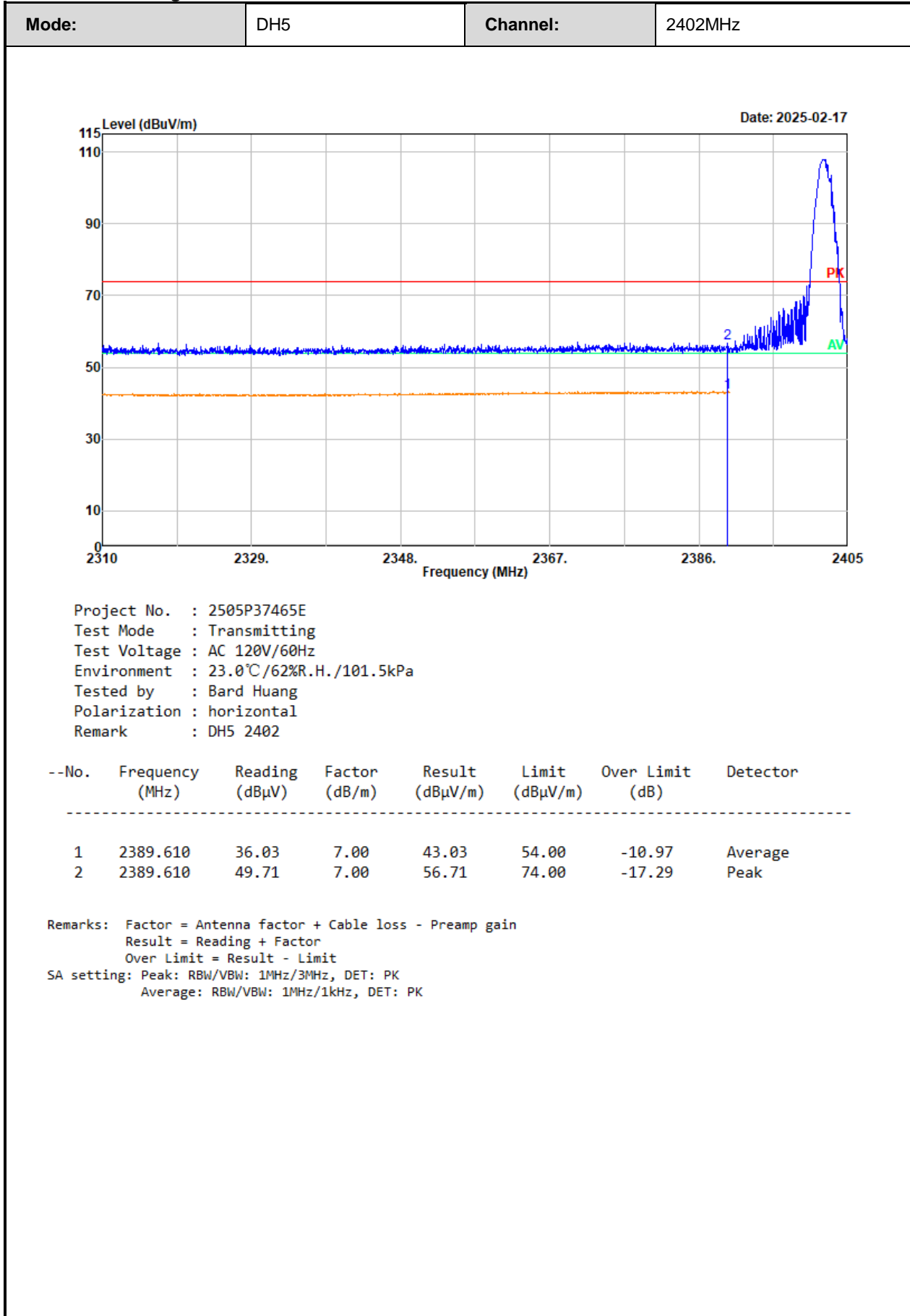


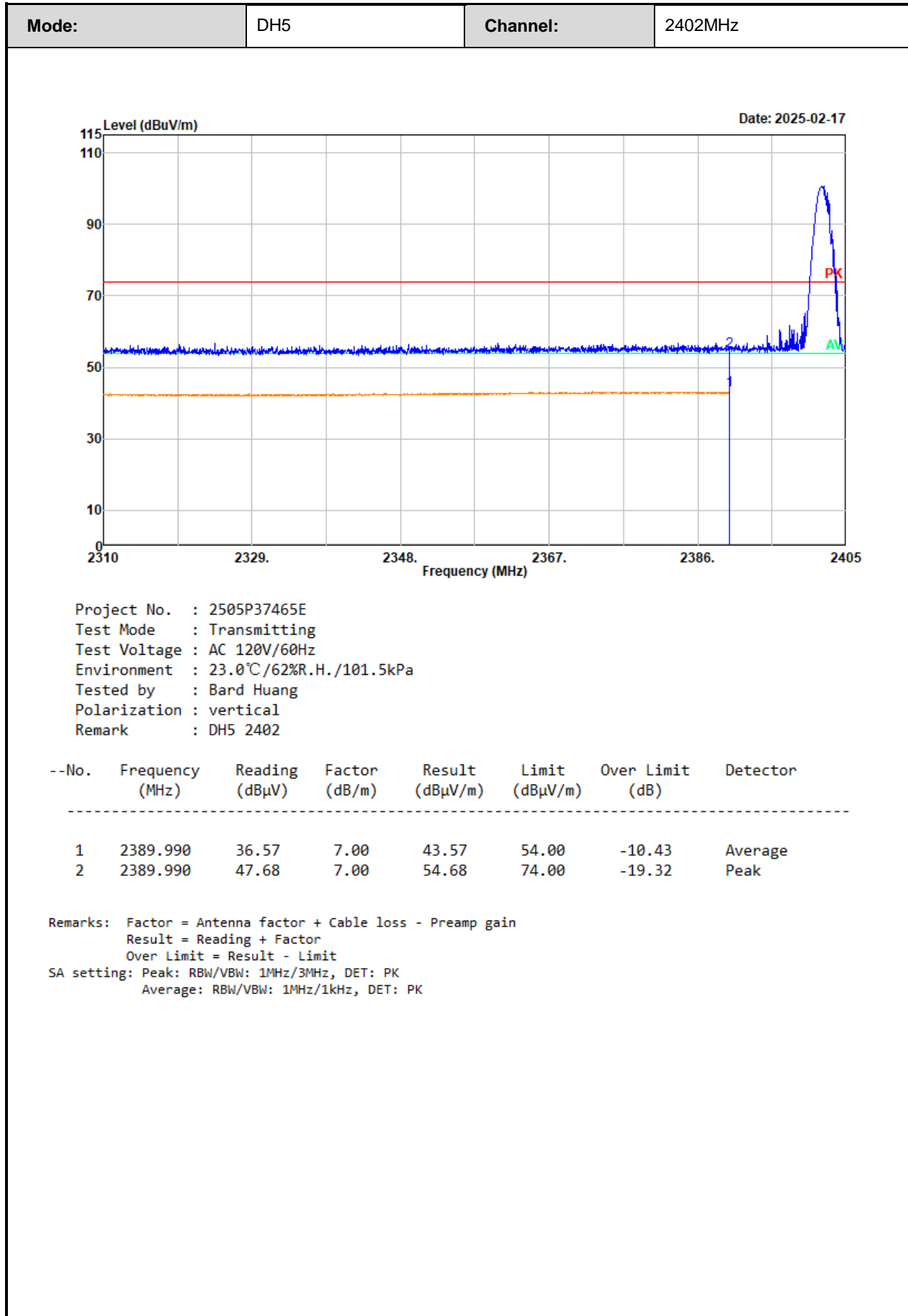


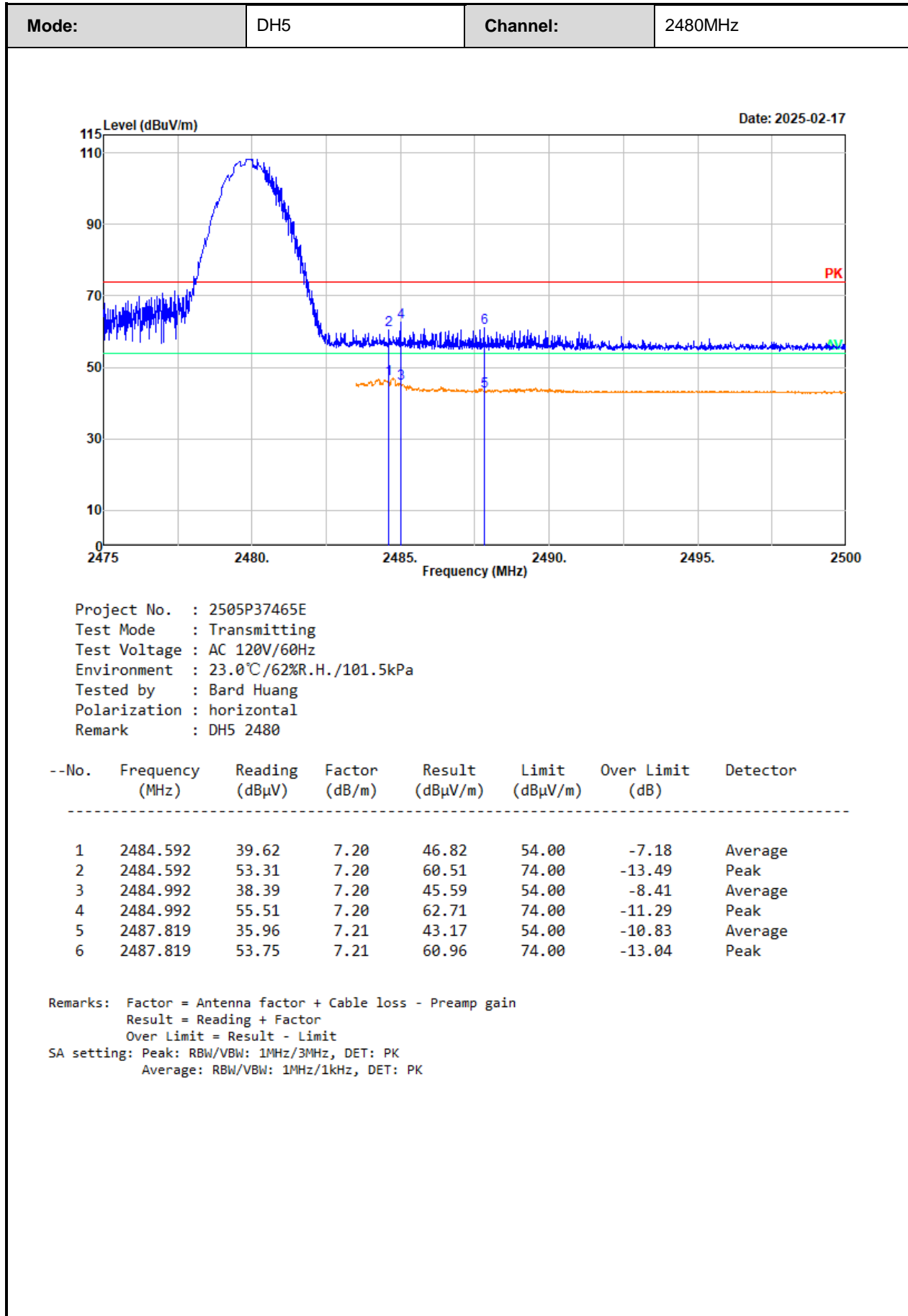


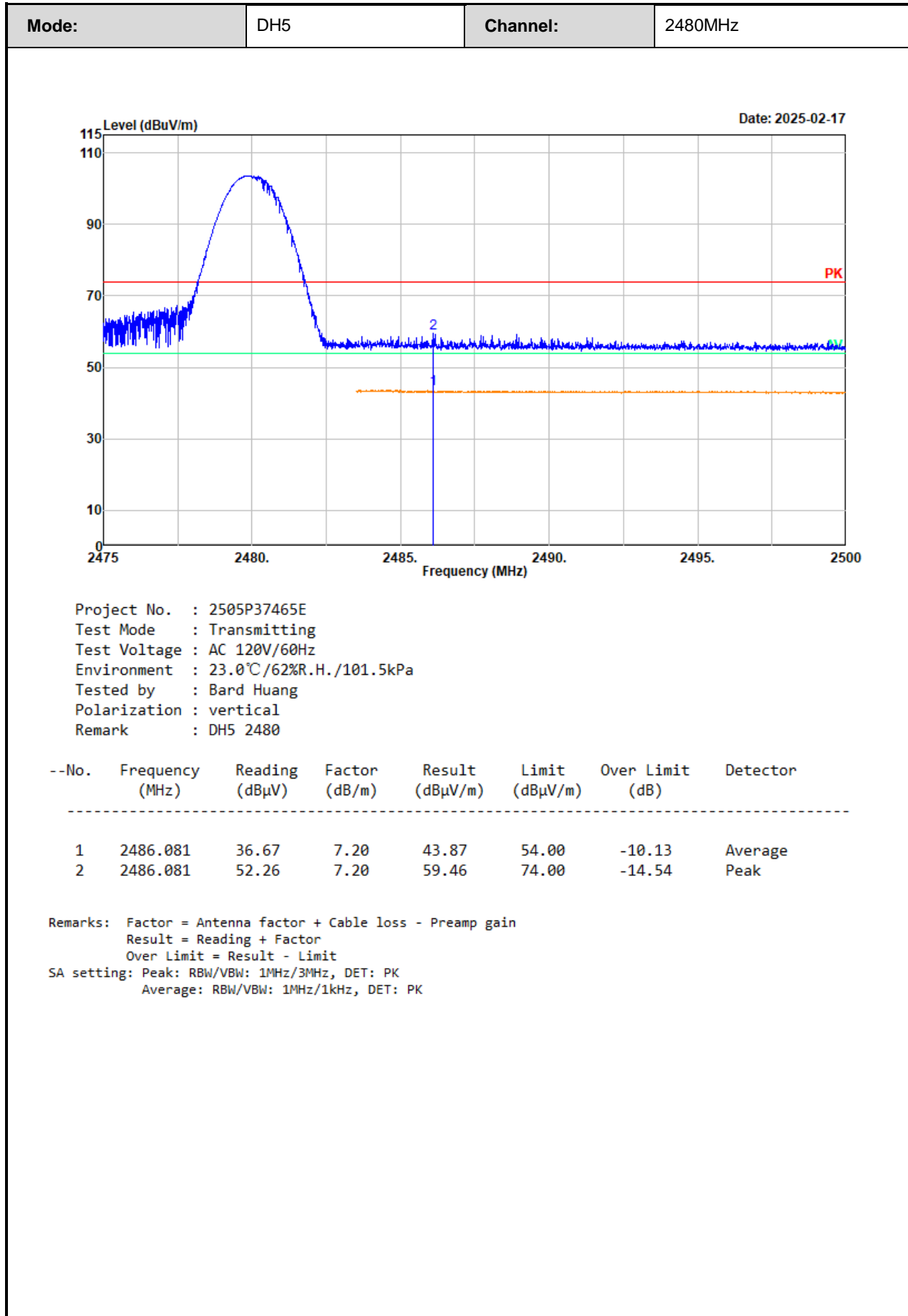


**Radiated Band edge:**

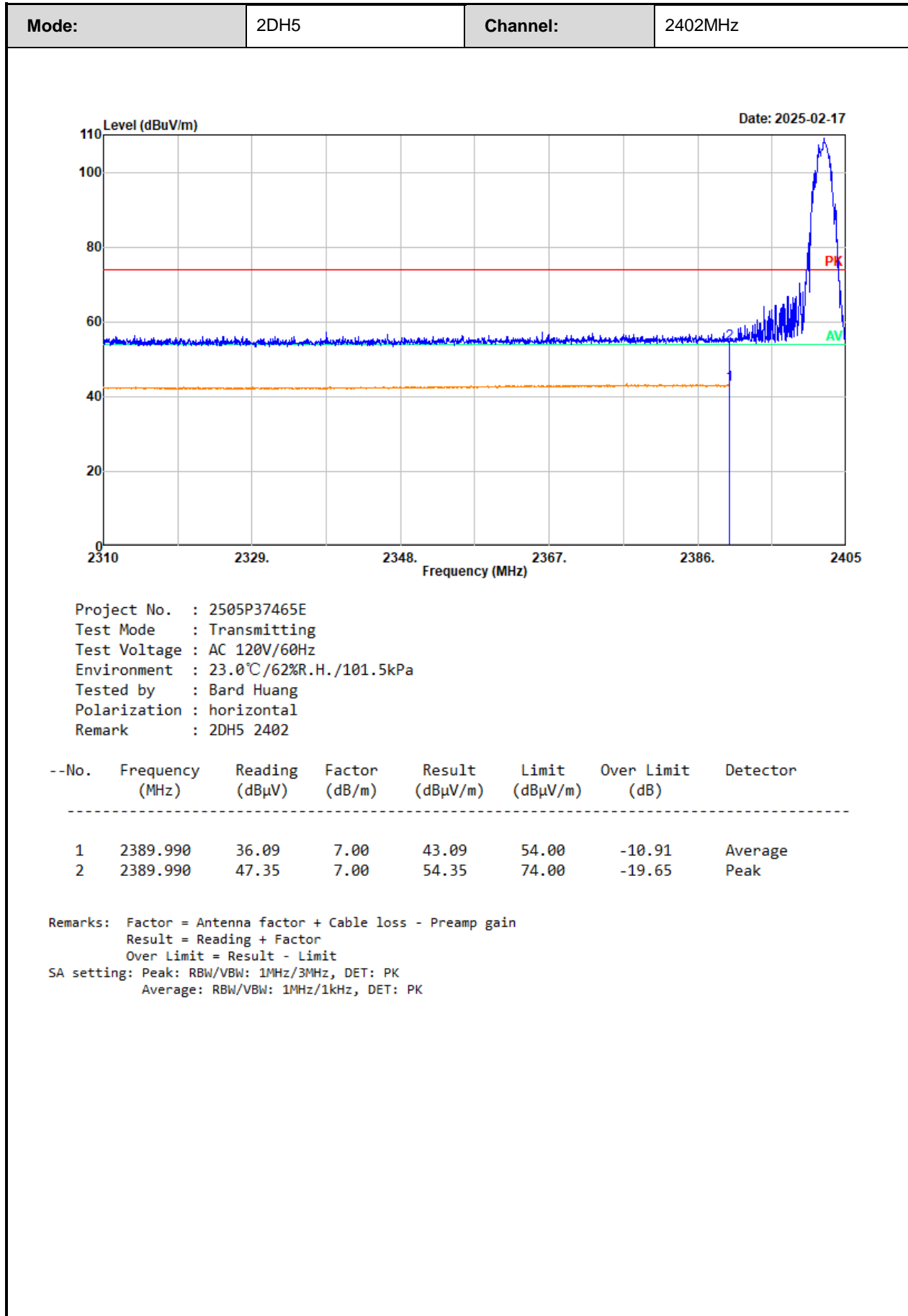


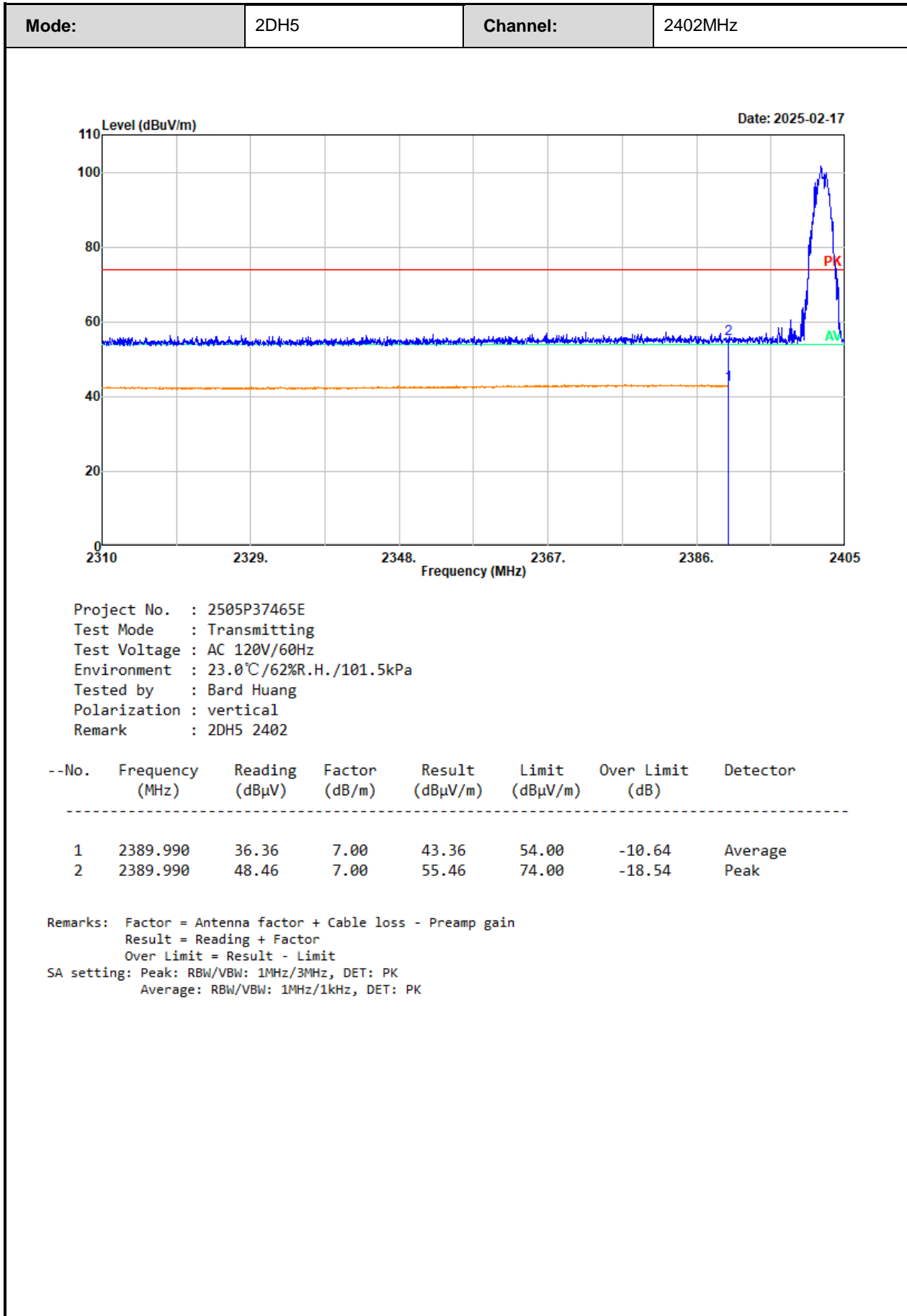


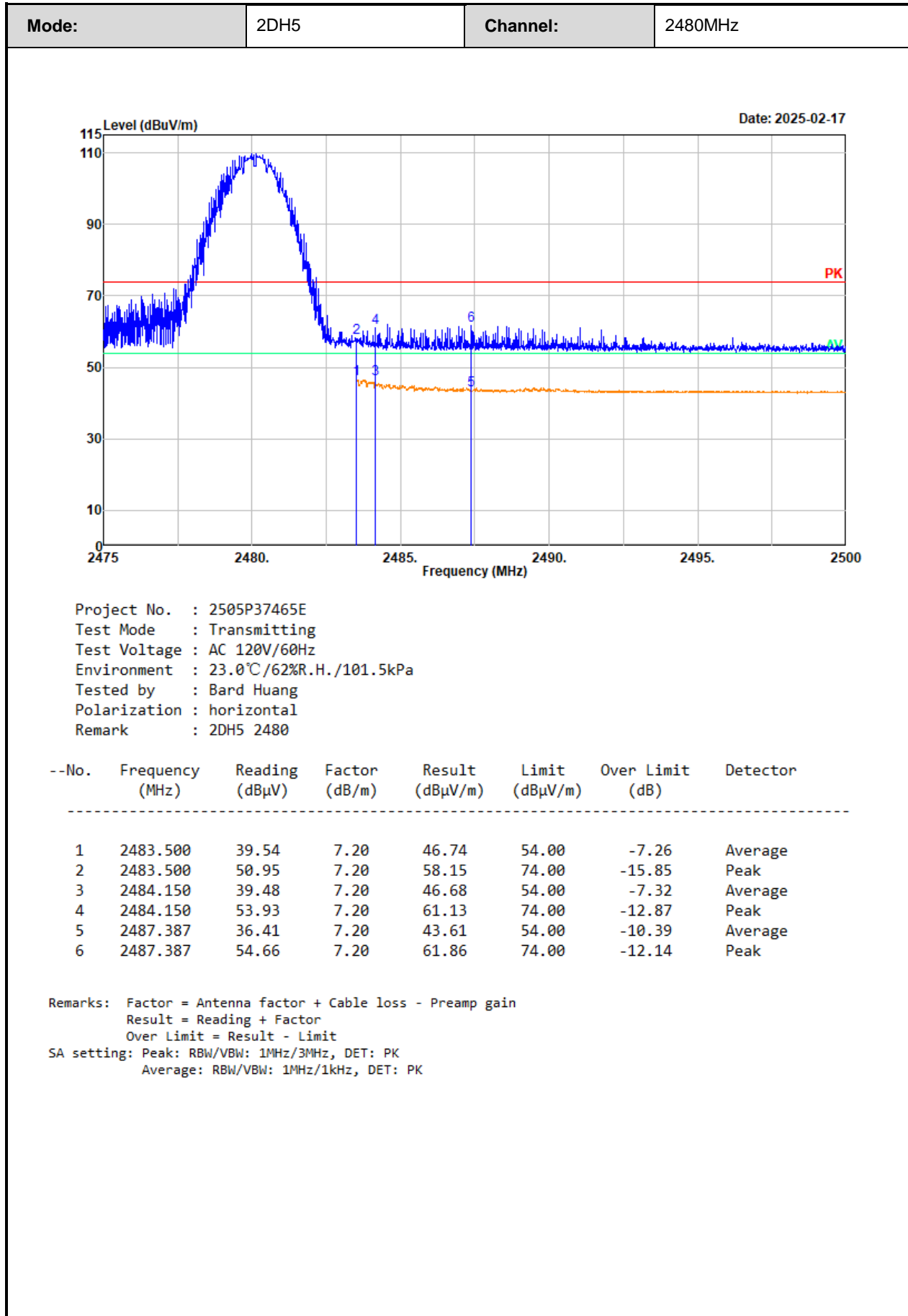


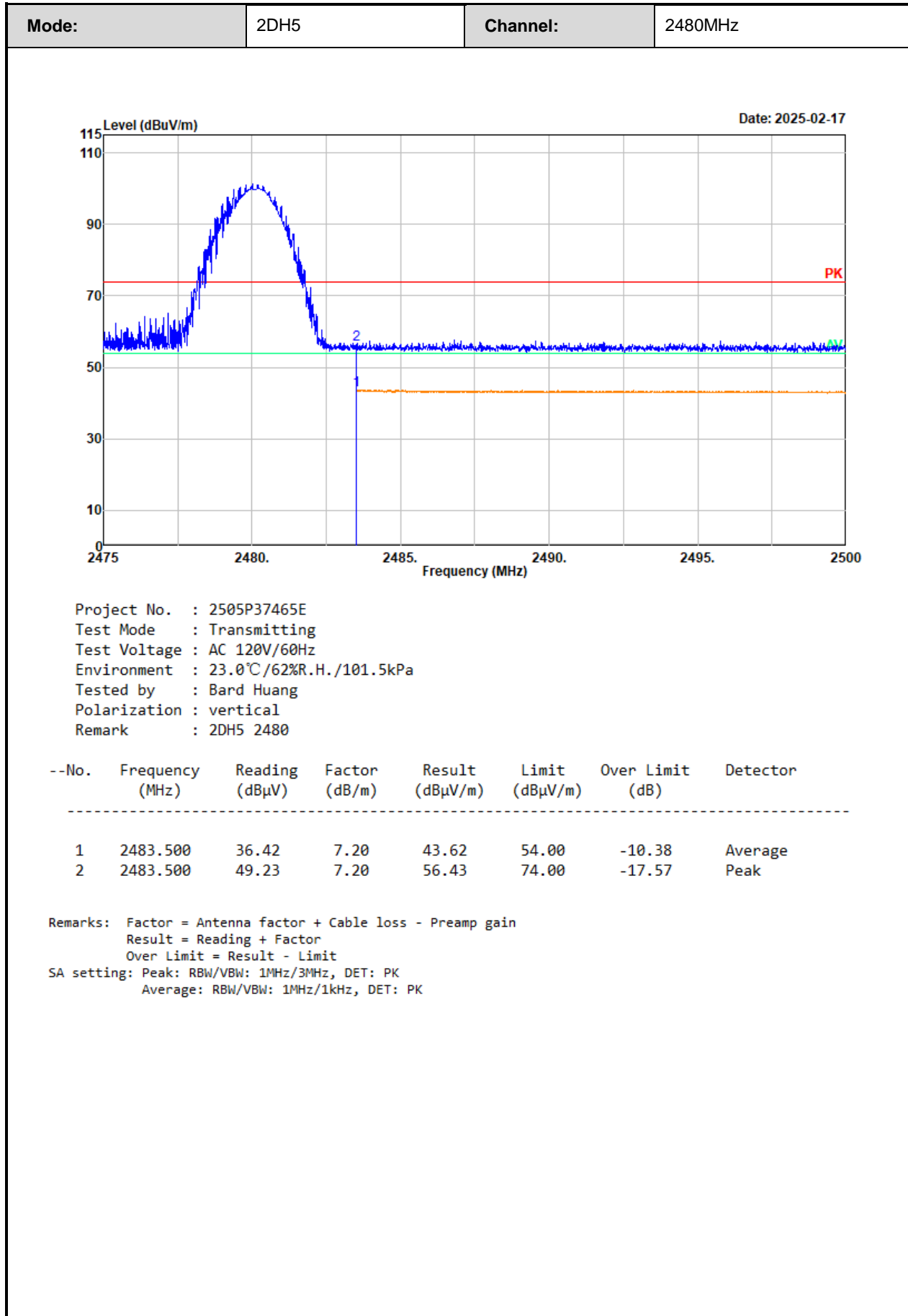


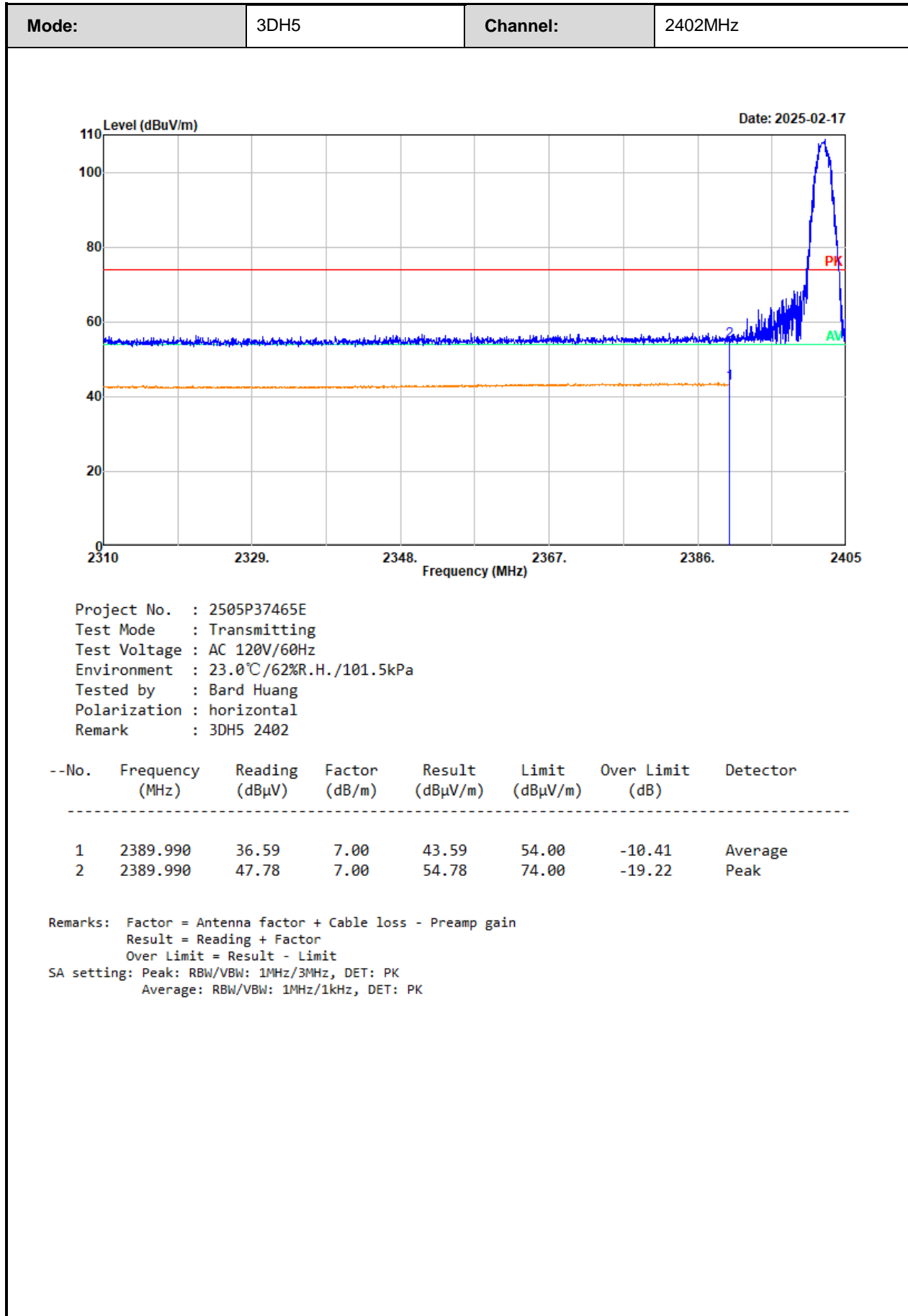


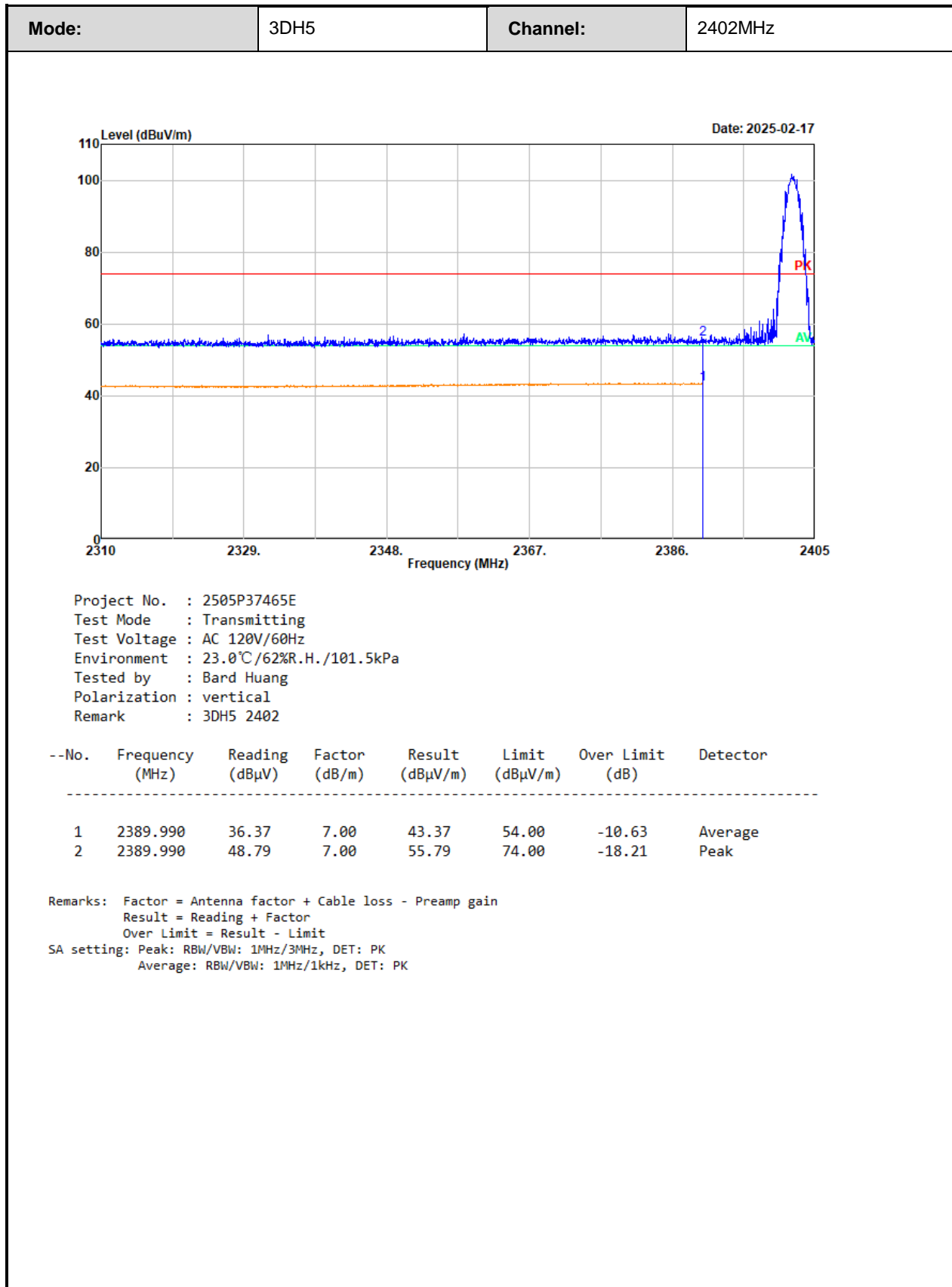


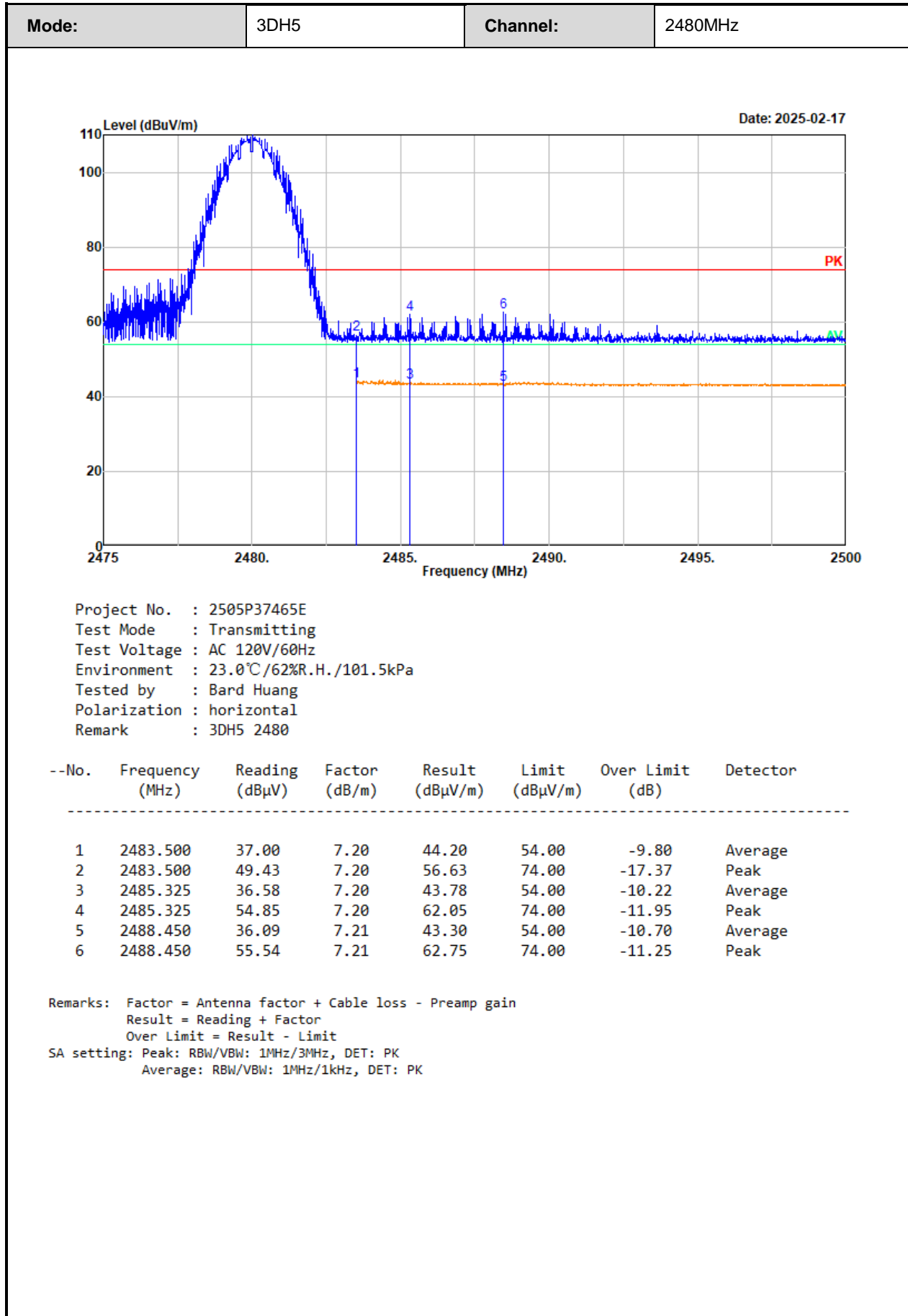


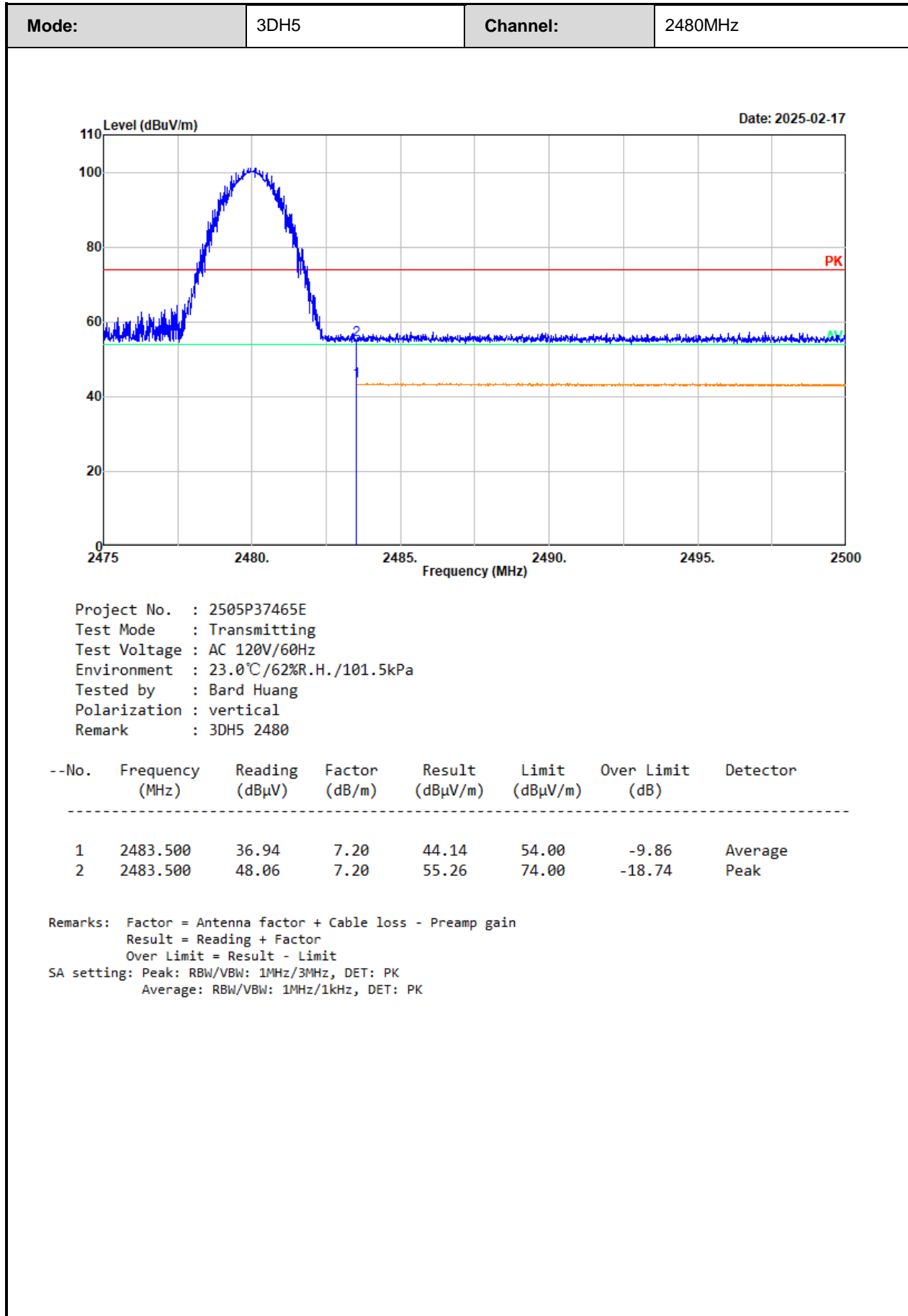














**Path 2:**

<b>Test Date:</b>	2025-02-13~2025-02-17	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 20.9~23°C; Relative Humidity:56~62%; ATM Pressure: 101.2~101.5kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
GFSK							
Low Channel							
4804.000	48.05	horizontal	-2.42	45.63	74.00	-28.37	Peak
4804.000	47.96	vertical	-2.42	45.54	74.00	-28.46	Peak
Middle Channel							
4882.000	48.40	horizontal	-1.86	46.54	74.00	-27.46	Peak
4882.000	49.47	vertical	-1.86	47.61	74.00	-26.39	Peak
High Channel							
4960.000	50.19	horizontal	-1.70	48.49	74.00	-25.51	Peak
4960.000	50.48	vertical	-1.70	48.78	74.00	-25.22	Peak
π/4 DQPSK							
Low Channel							
4804.000	49.39	horizontal	-2.42	46.97	74.00	-27.03	Peak
4804.000	47.77	vertical	-2.42	45.35	74.00	-28.65	Peak
Middle Channel							
4882.000	48.38	horizontal	-1.86	46.52	74.00	-27.48	Peak
4882.000	48.33	vertical	-1.86	46.47	74.00	-27.53	Peak
High Channel							
4960.000	50.19	horizontal	-1.70	48.49	74.00	-25.51	Peak
4960.000	49.38	vertical	-1.70	47.68	74.00	-26.32	Peak
8DPSK							
Low Channel							
4804.000	46.88	horizontal	-2.42	44.46	74.00	-29.54	Peak
4804.000	48.30	vertical	-2.42	45.88	74.00	-28.12	Peak
Middle Channel							
4882.000	47.75	horizontal	-1.86	45.89	74.00	-28.11	Peak
4882.000	49.05	vertical	-1.86	47.19	74.00	-26.81	Peak
High Channel							
4960.000	50.03	horizontal	-1.70	48.33	74.00	-25.67	Peak
4960.000	49.49	vertical	-1.70	47.79	74.00	-26.21	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

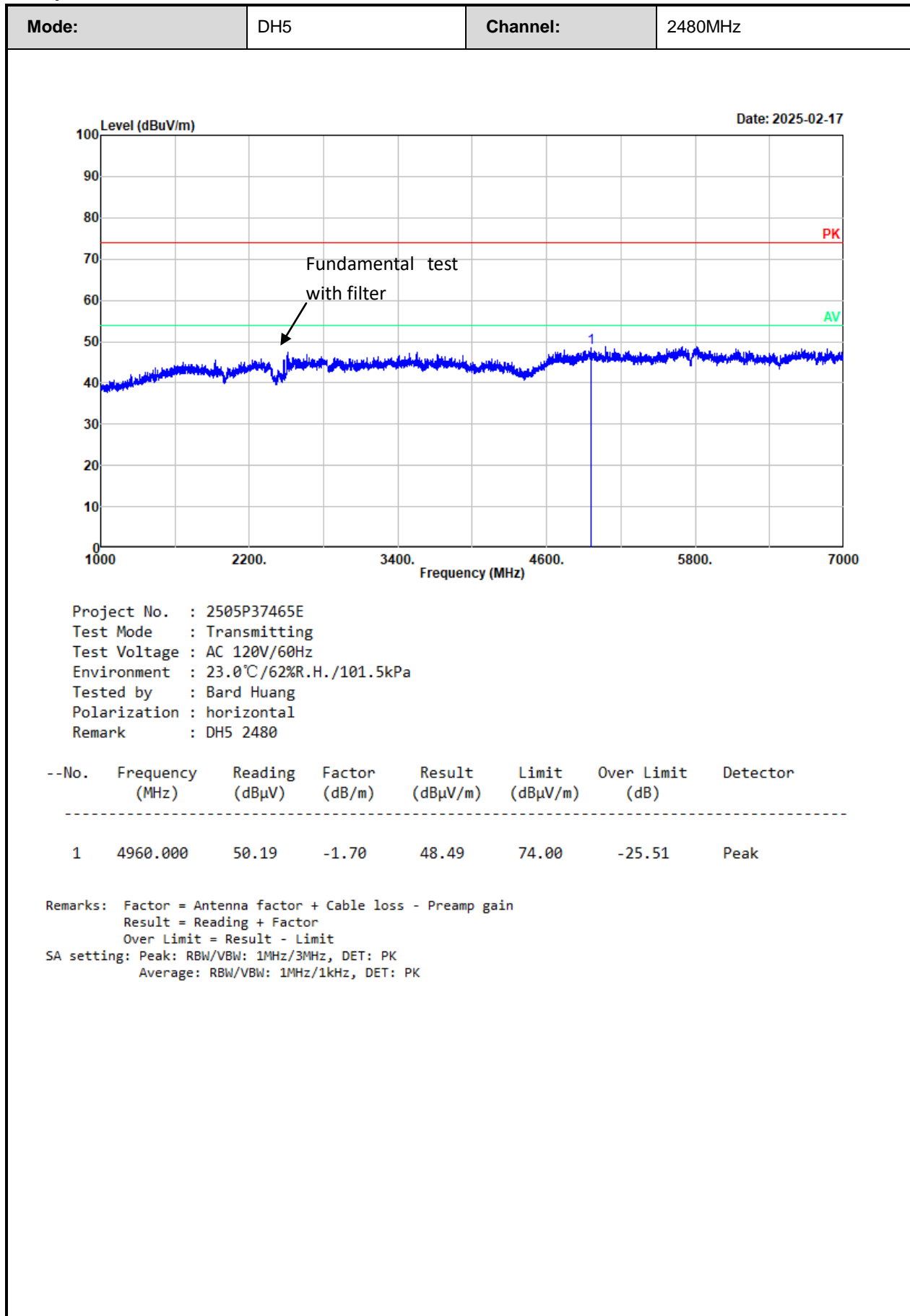
Margin = Corrected Amplitude – Limit

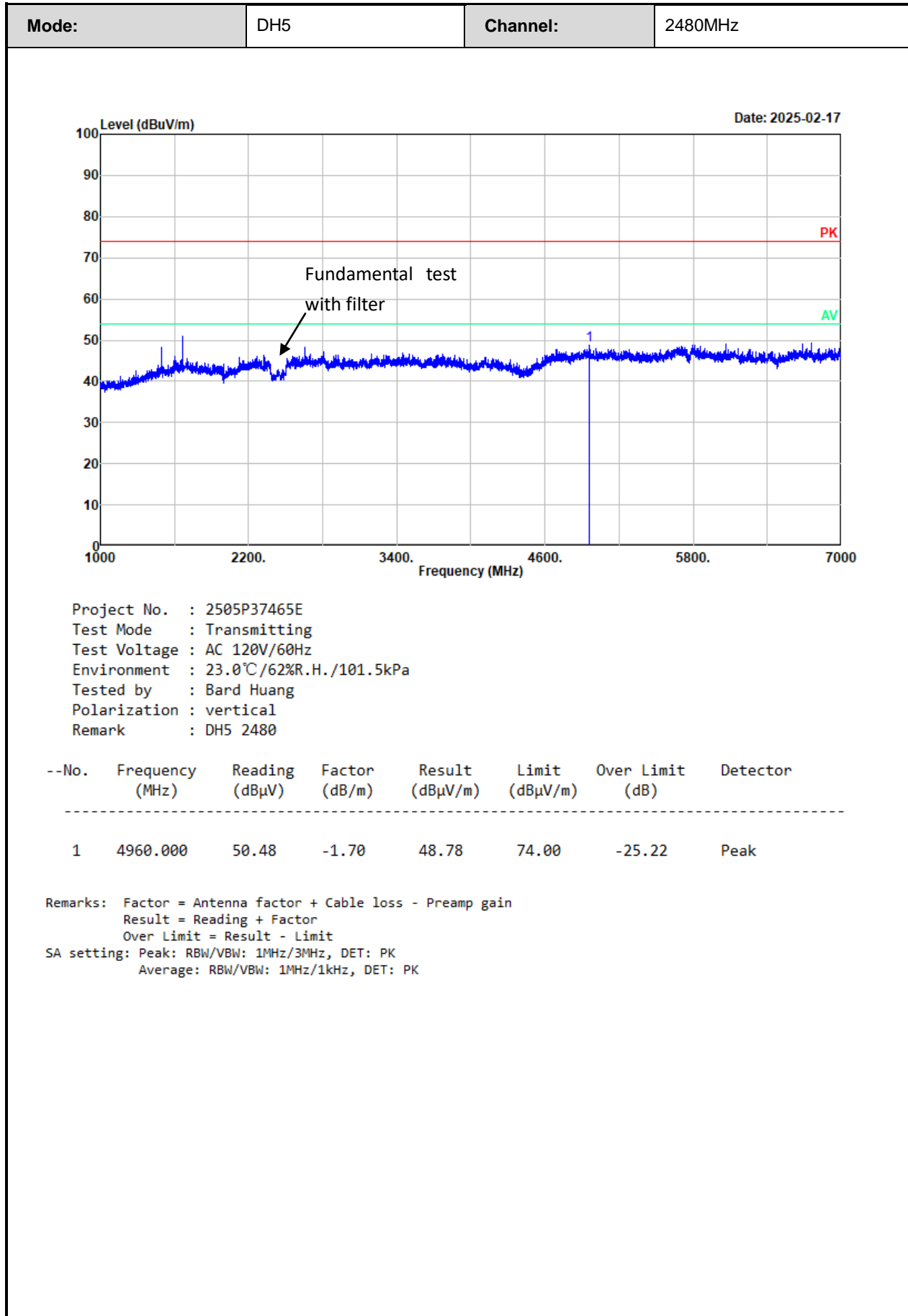
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

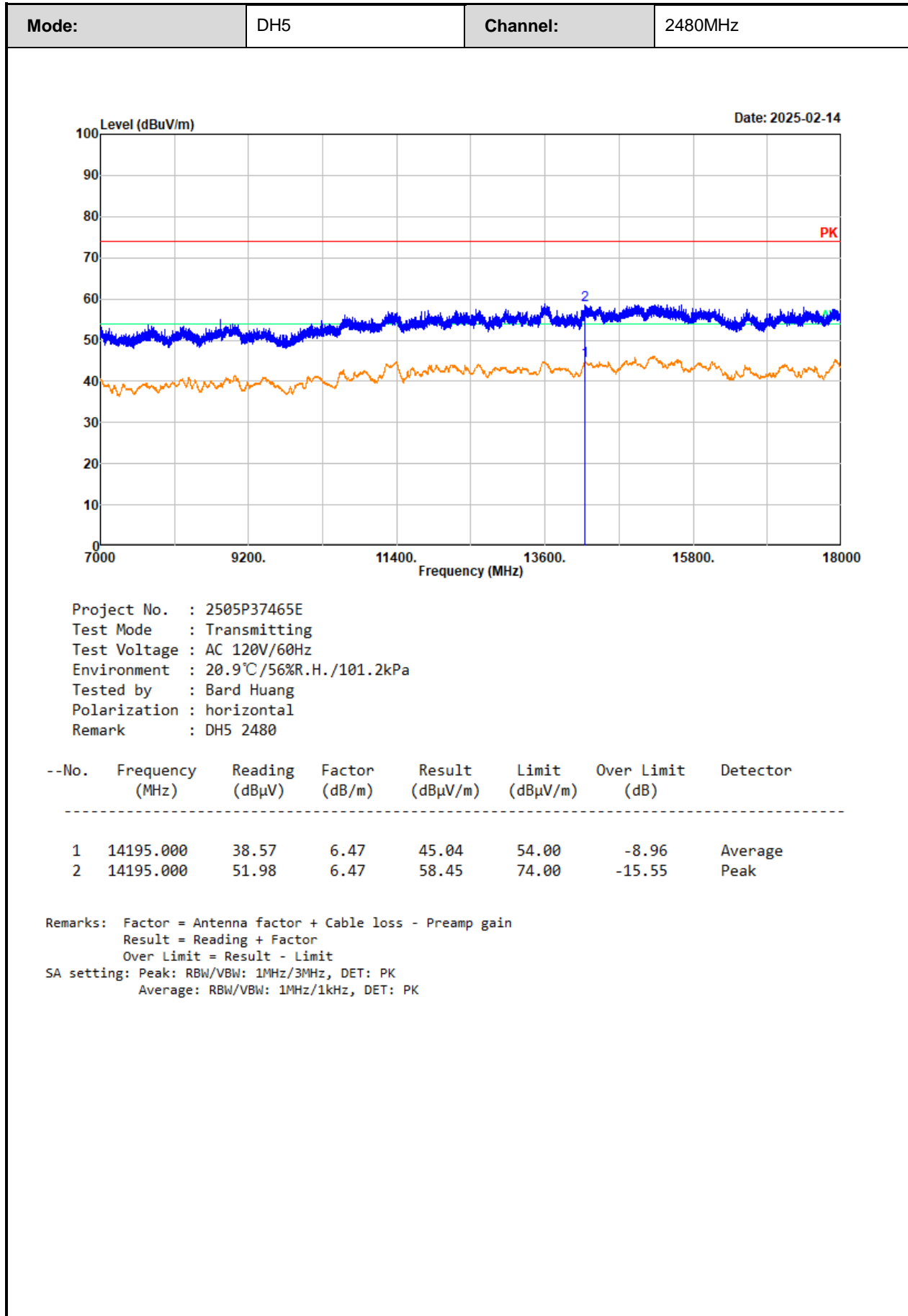
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

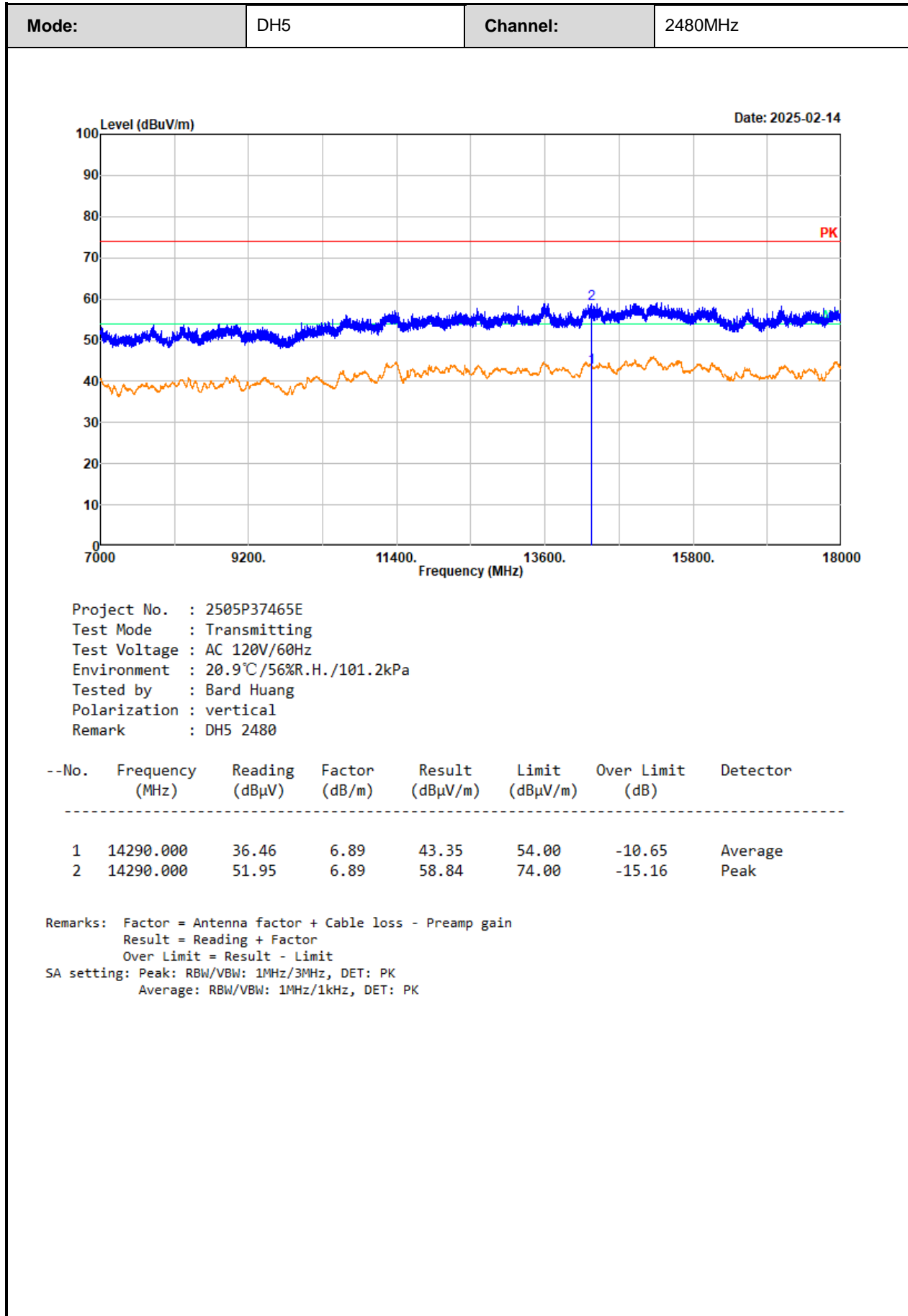
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

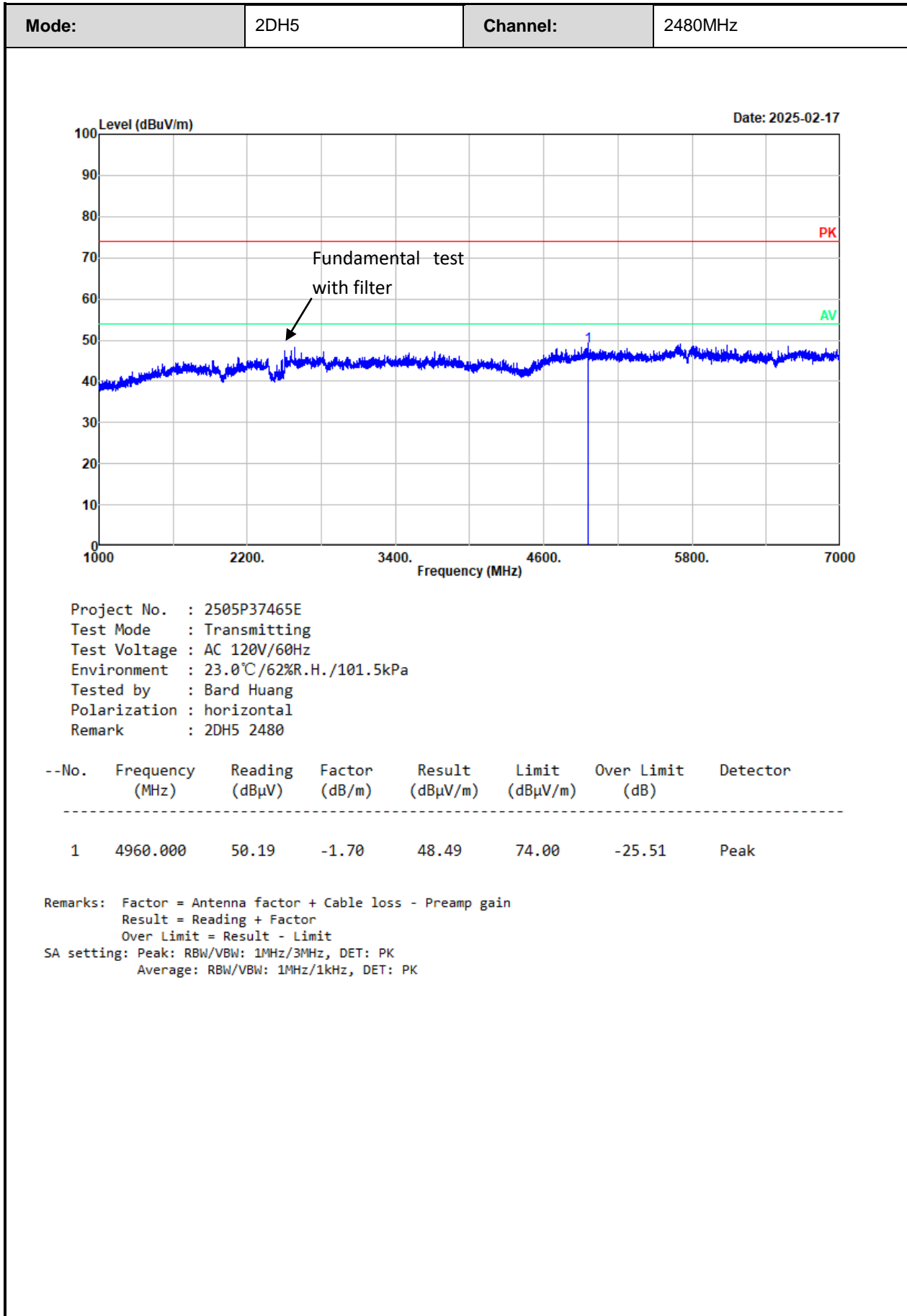
**Test plot for worst case as below:**

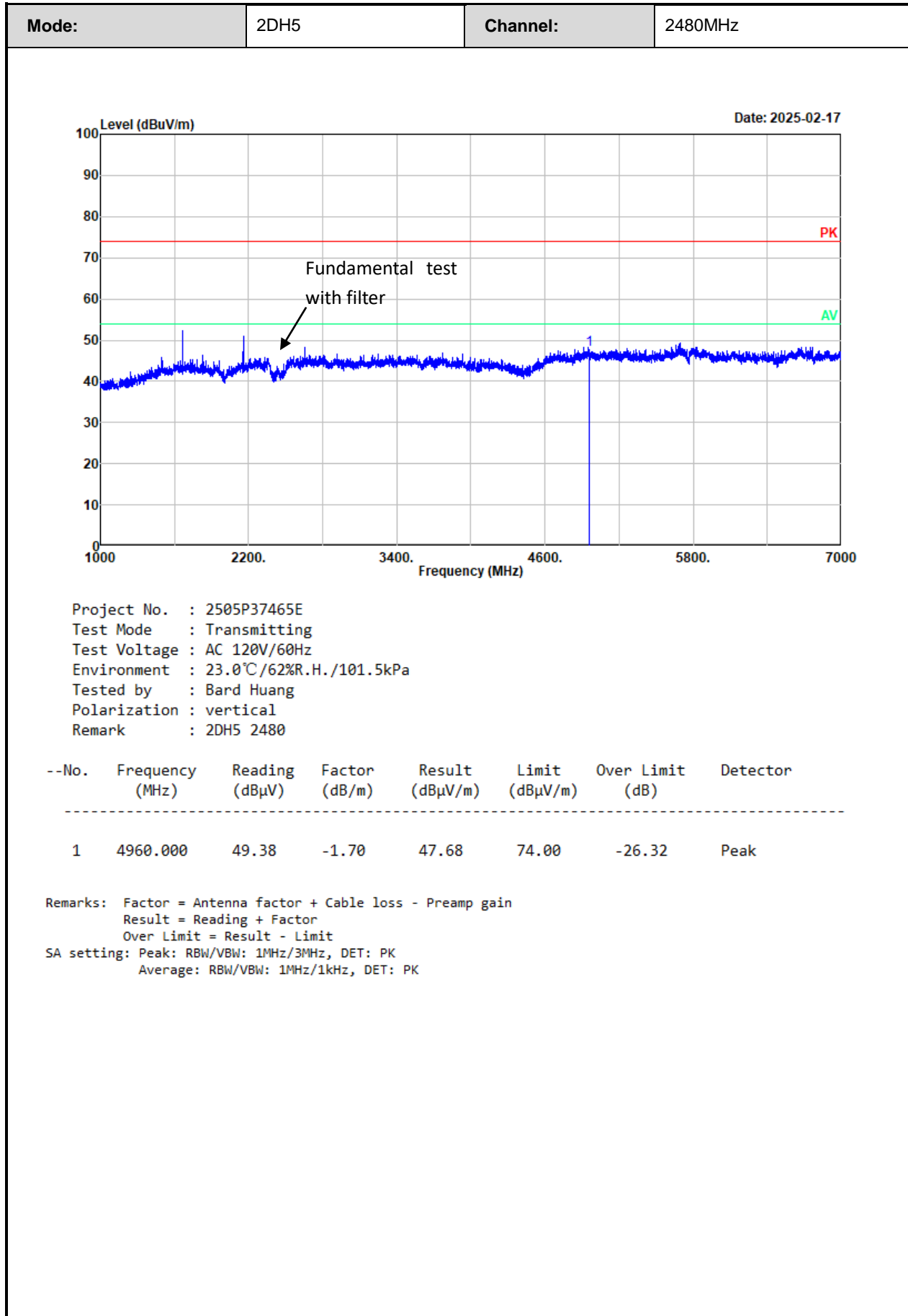




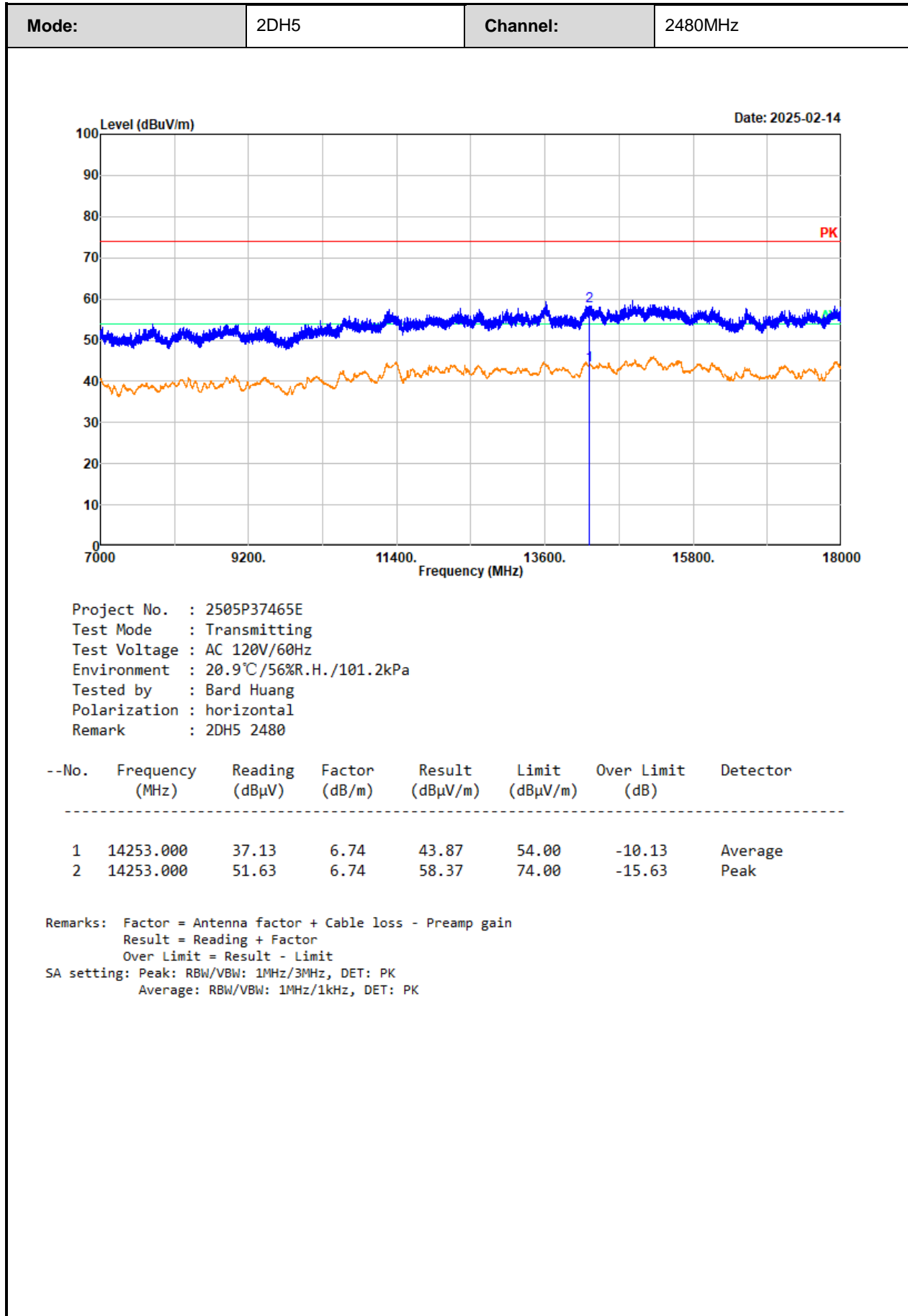


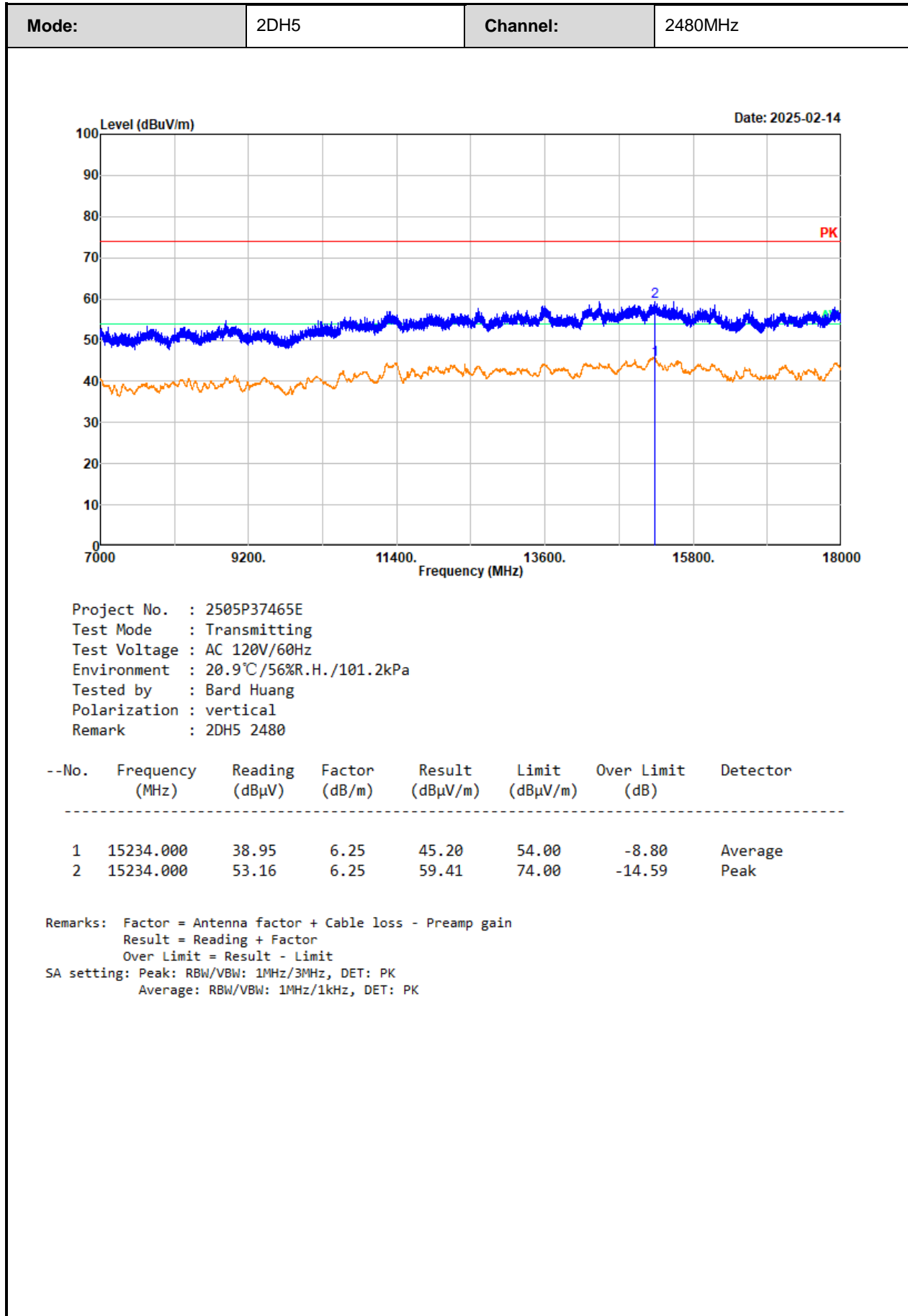


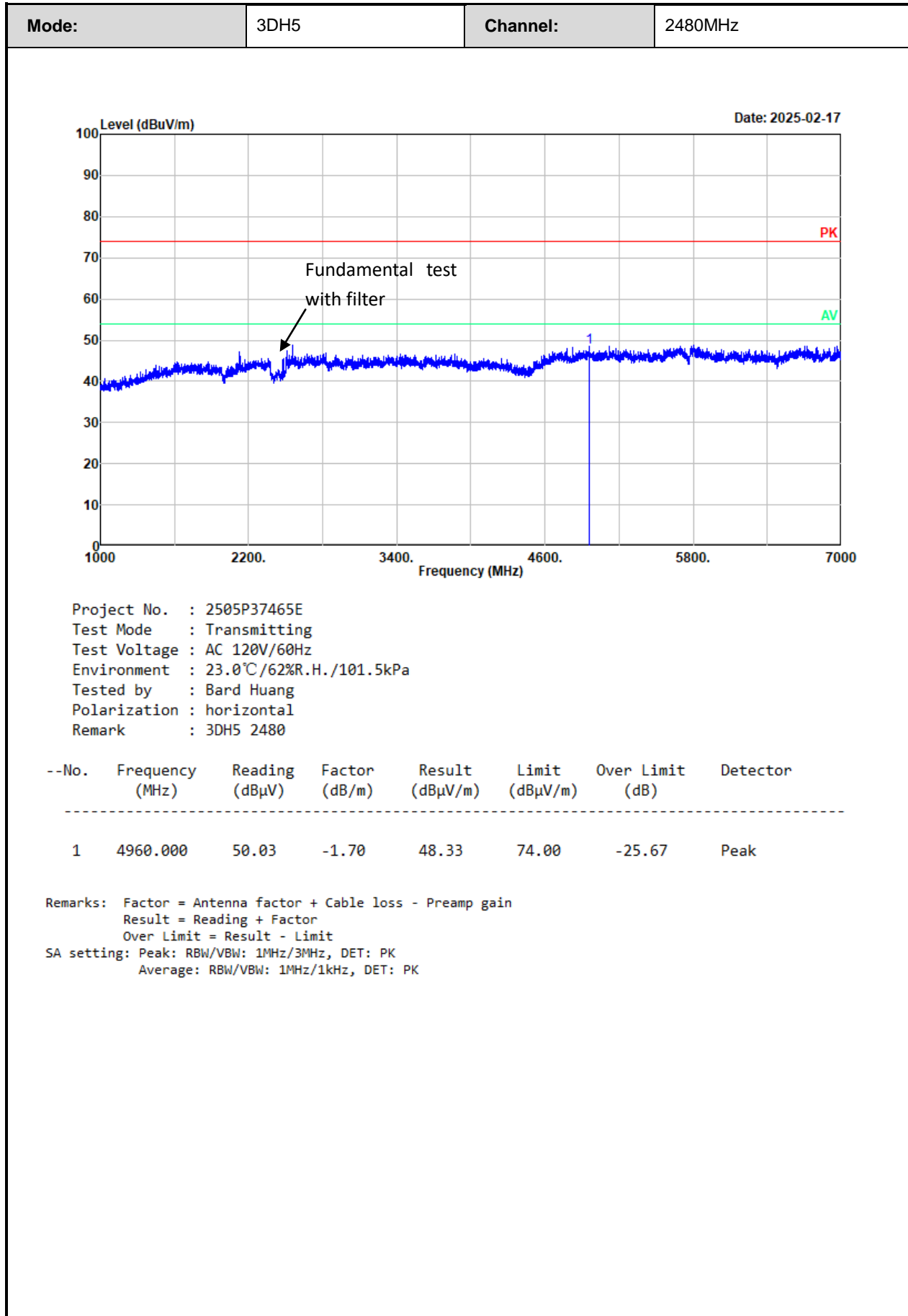


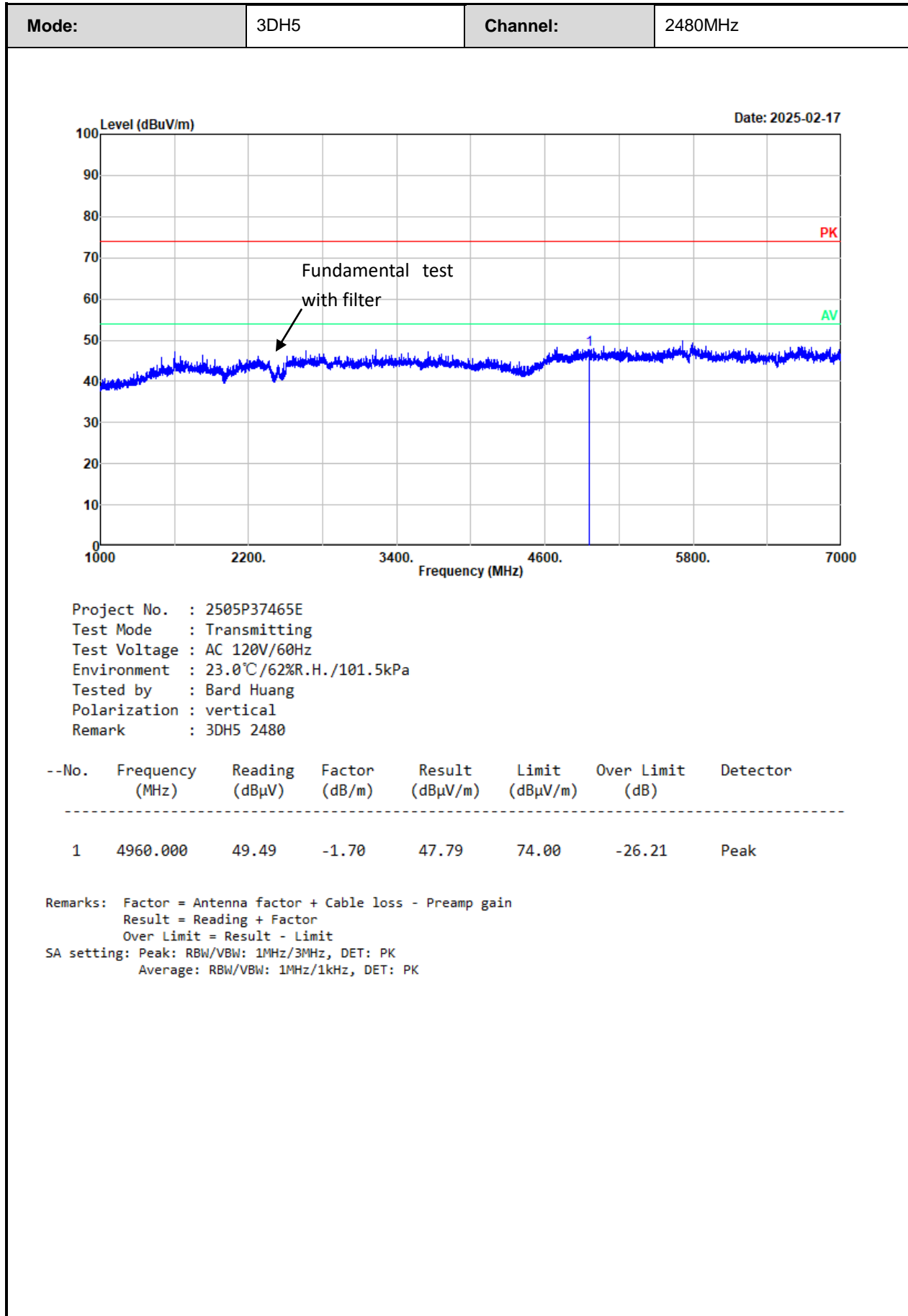


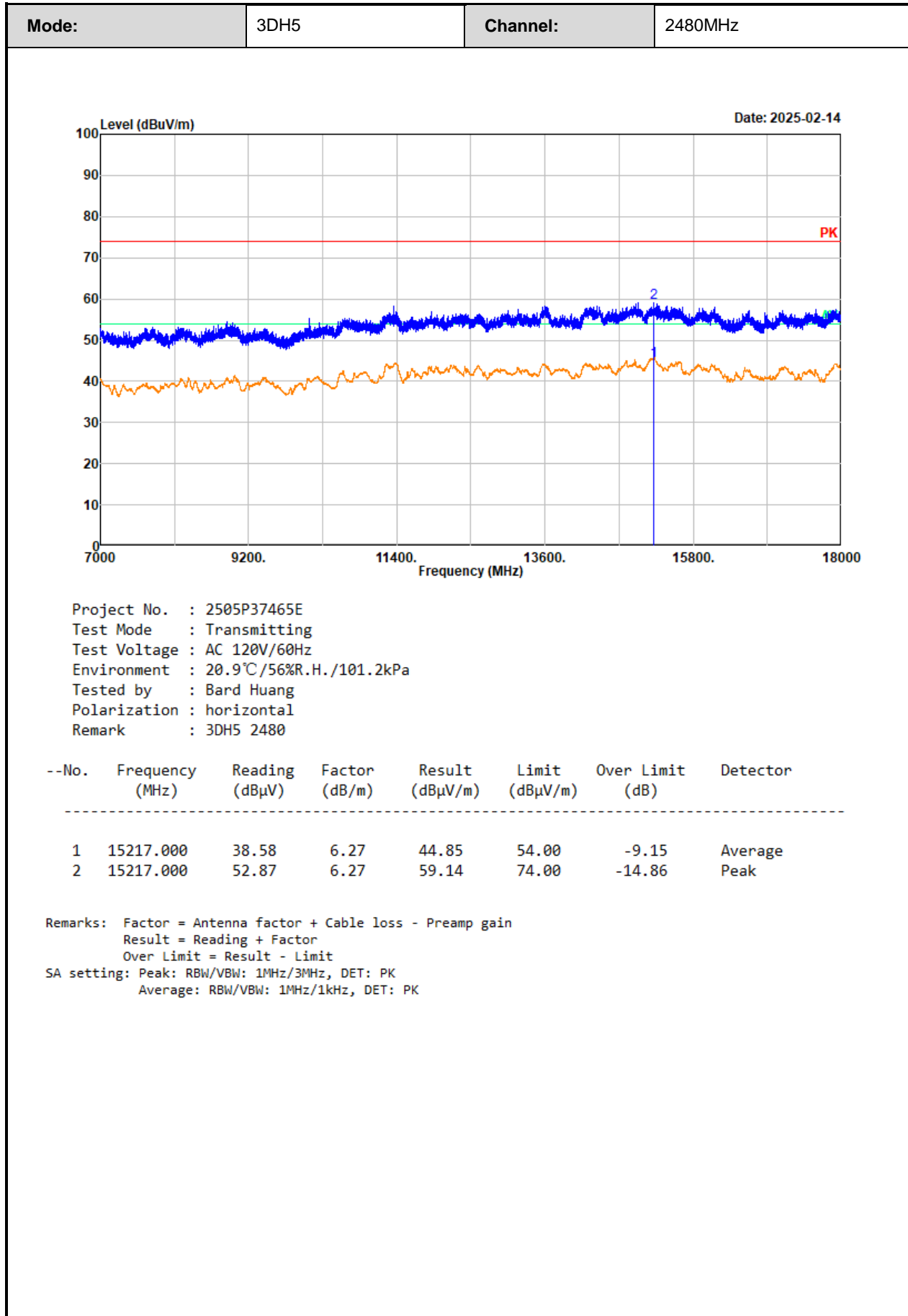


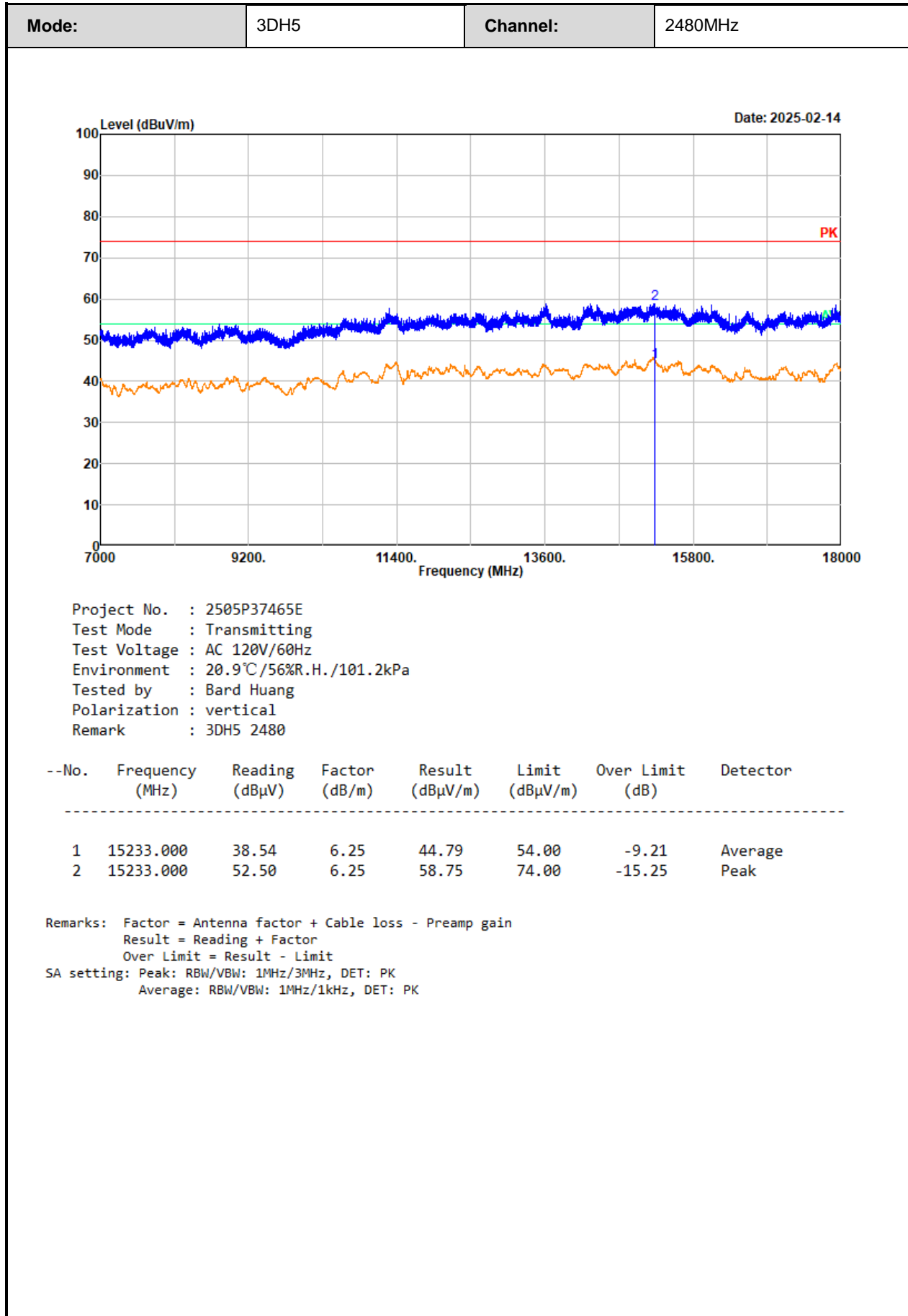


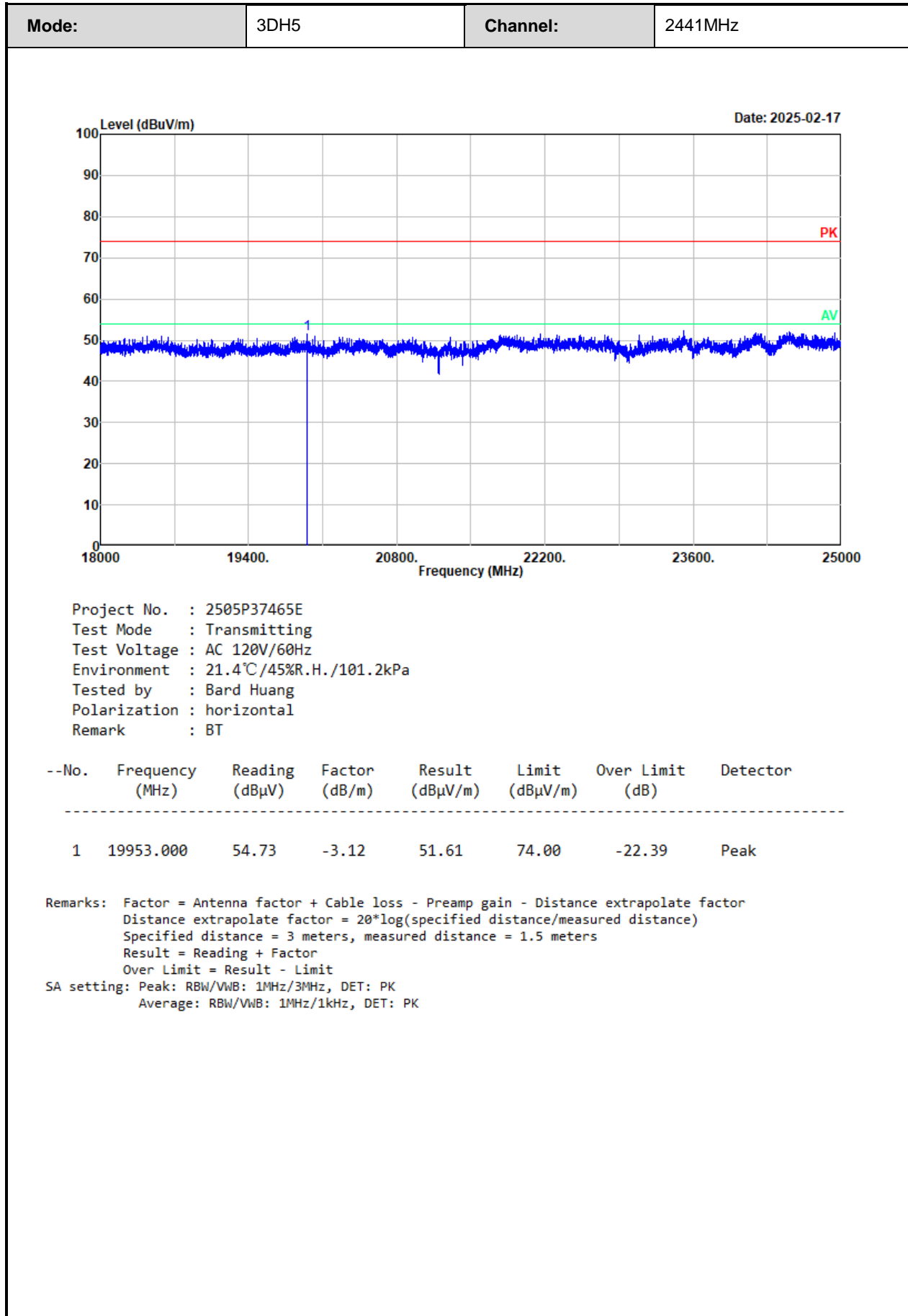


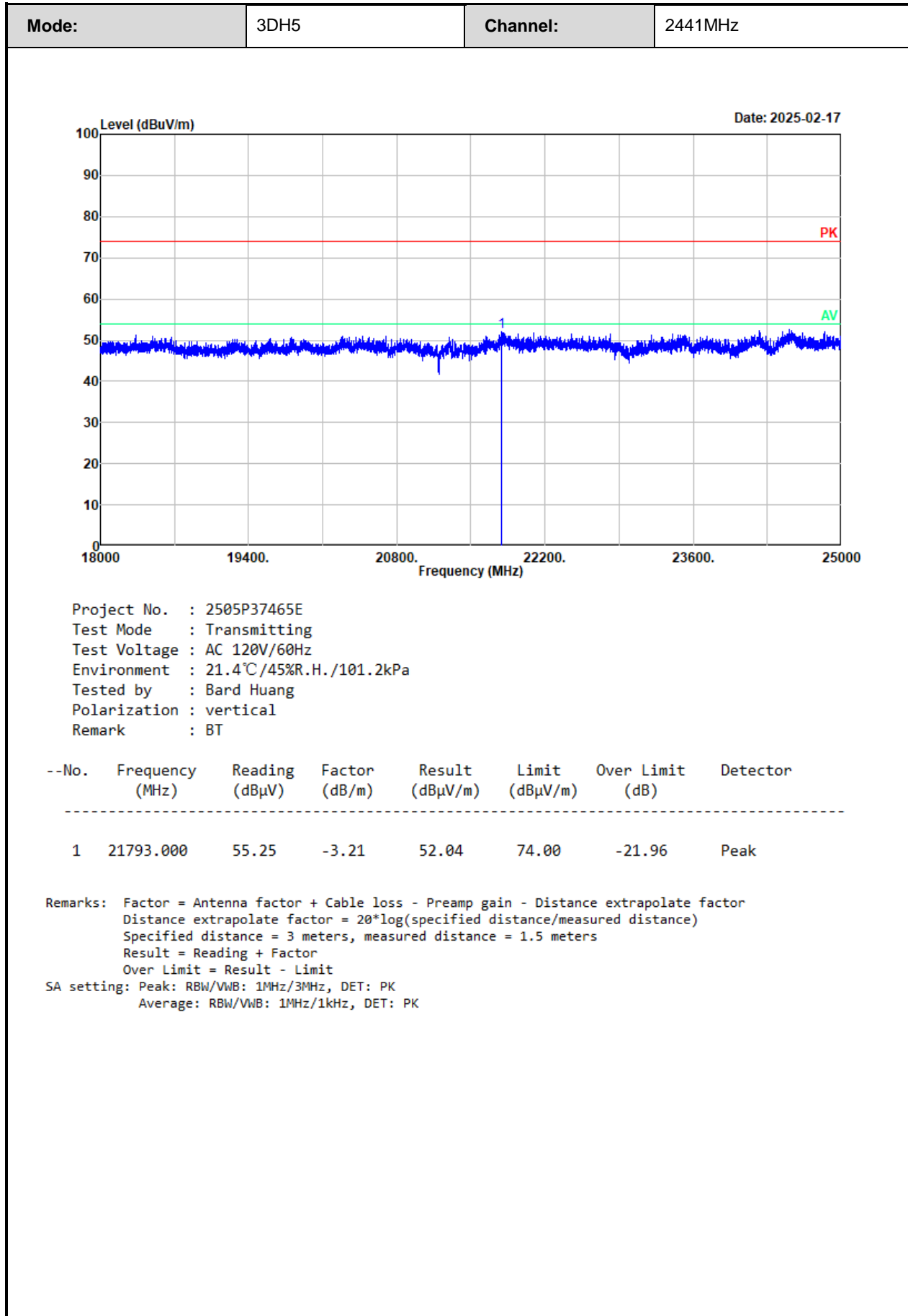






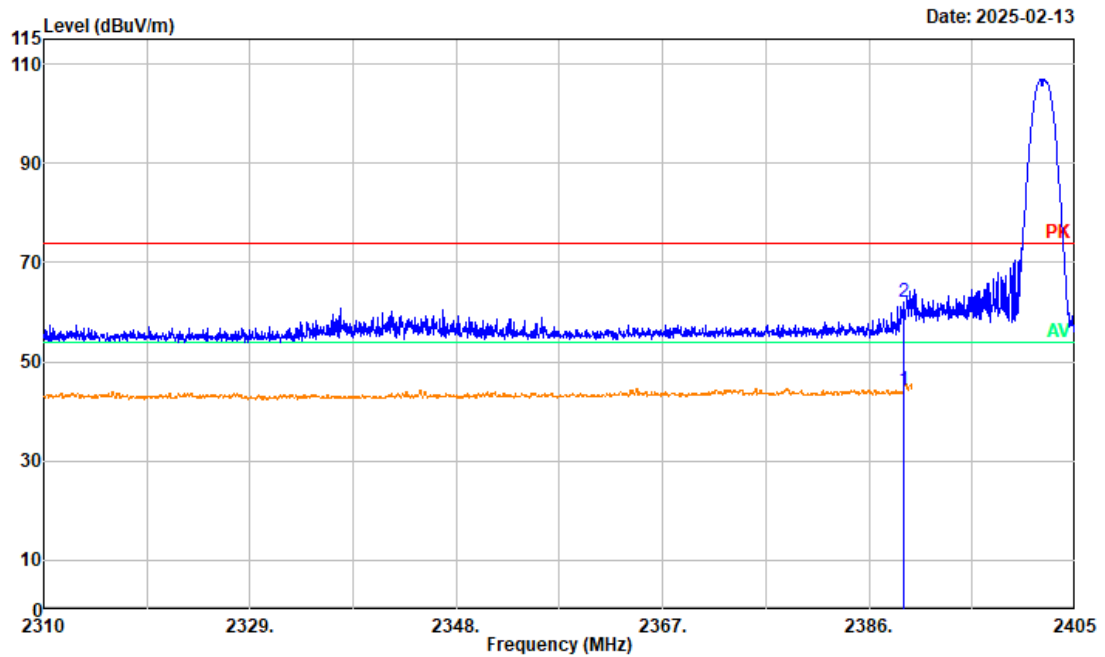








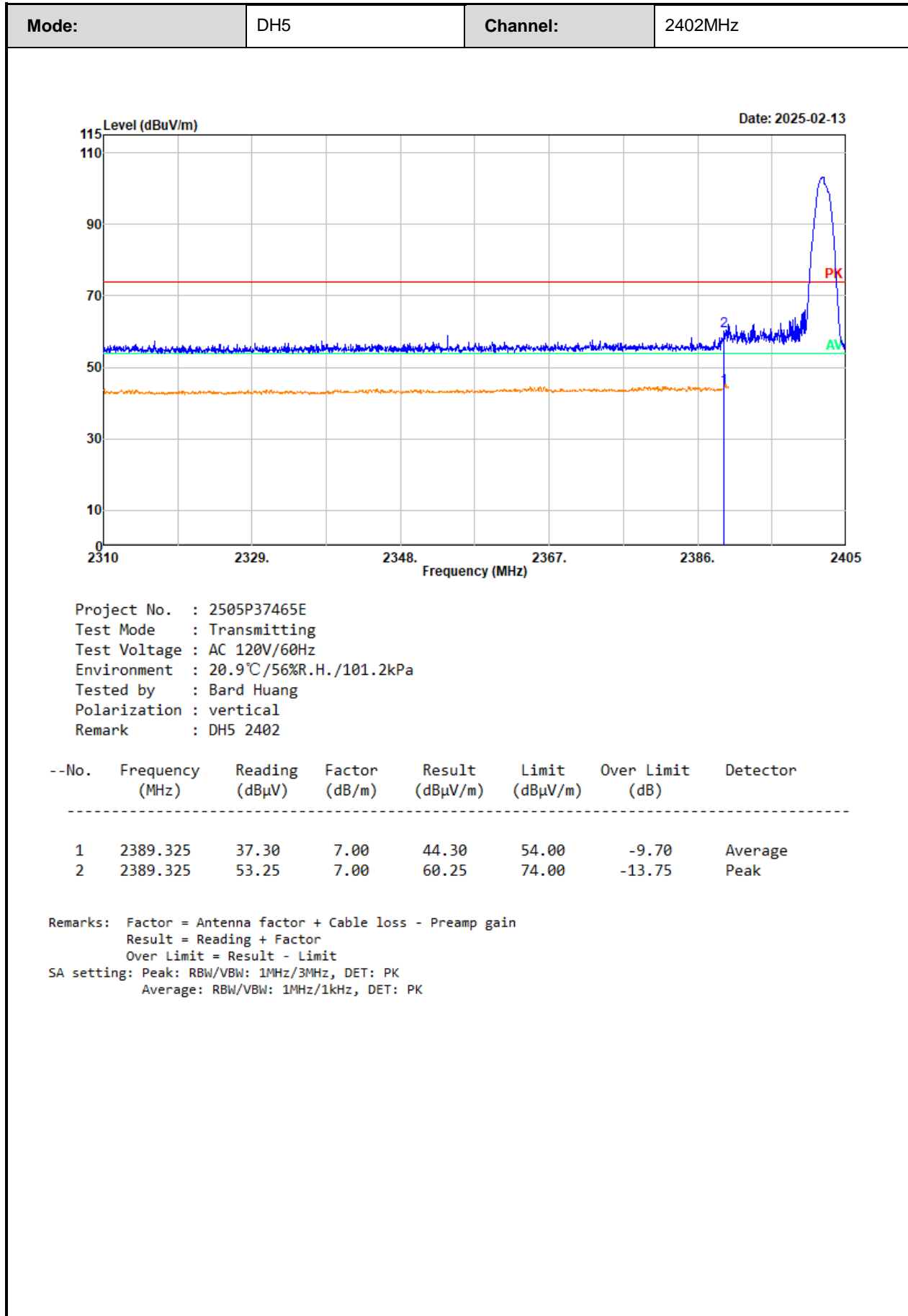
## Radiated Band edge

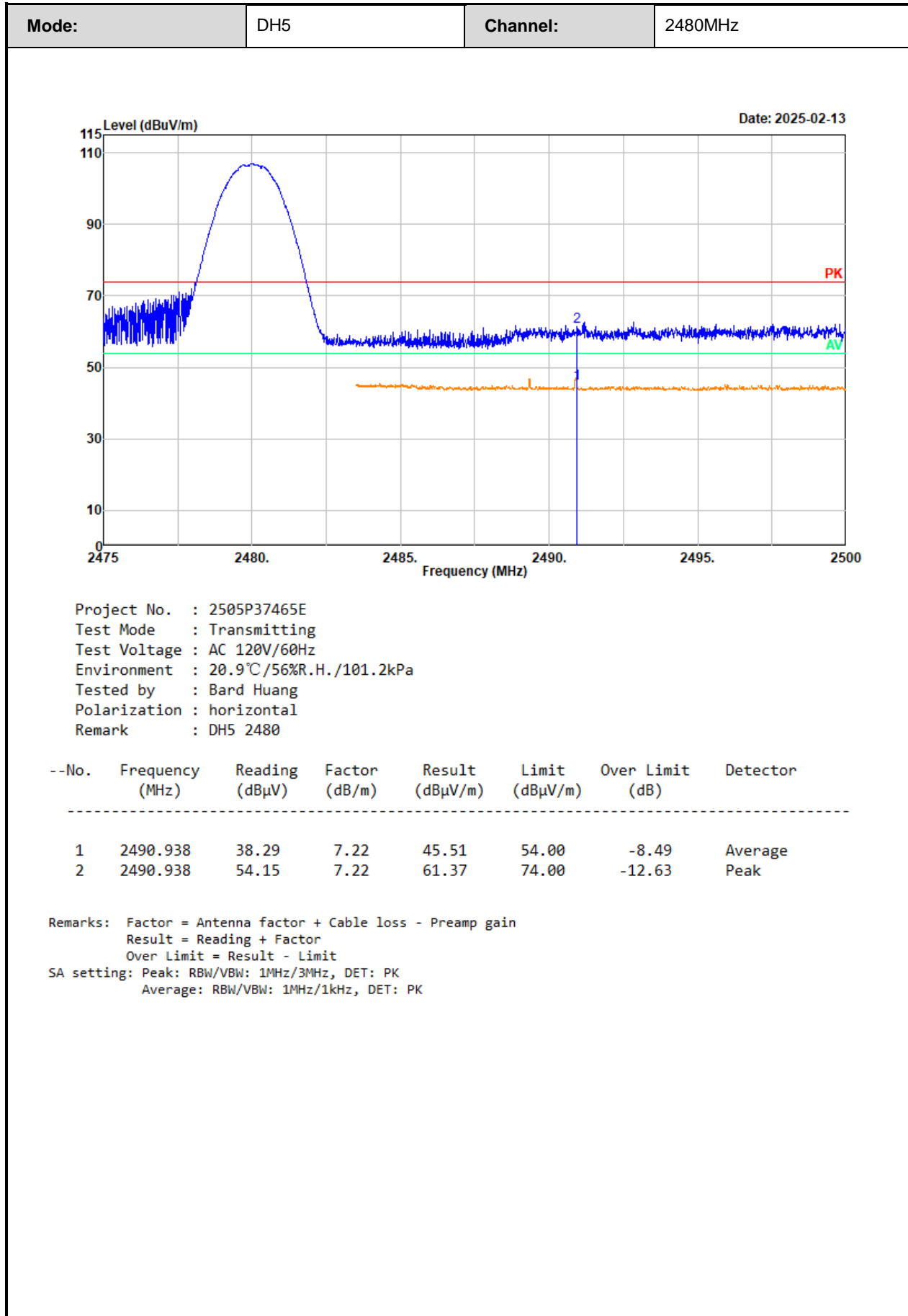


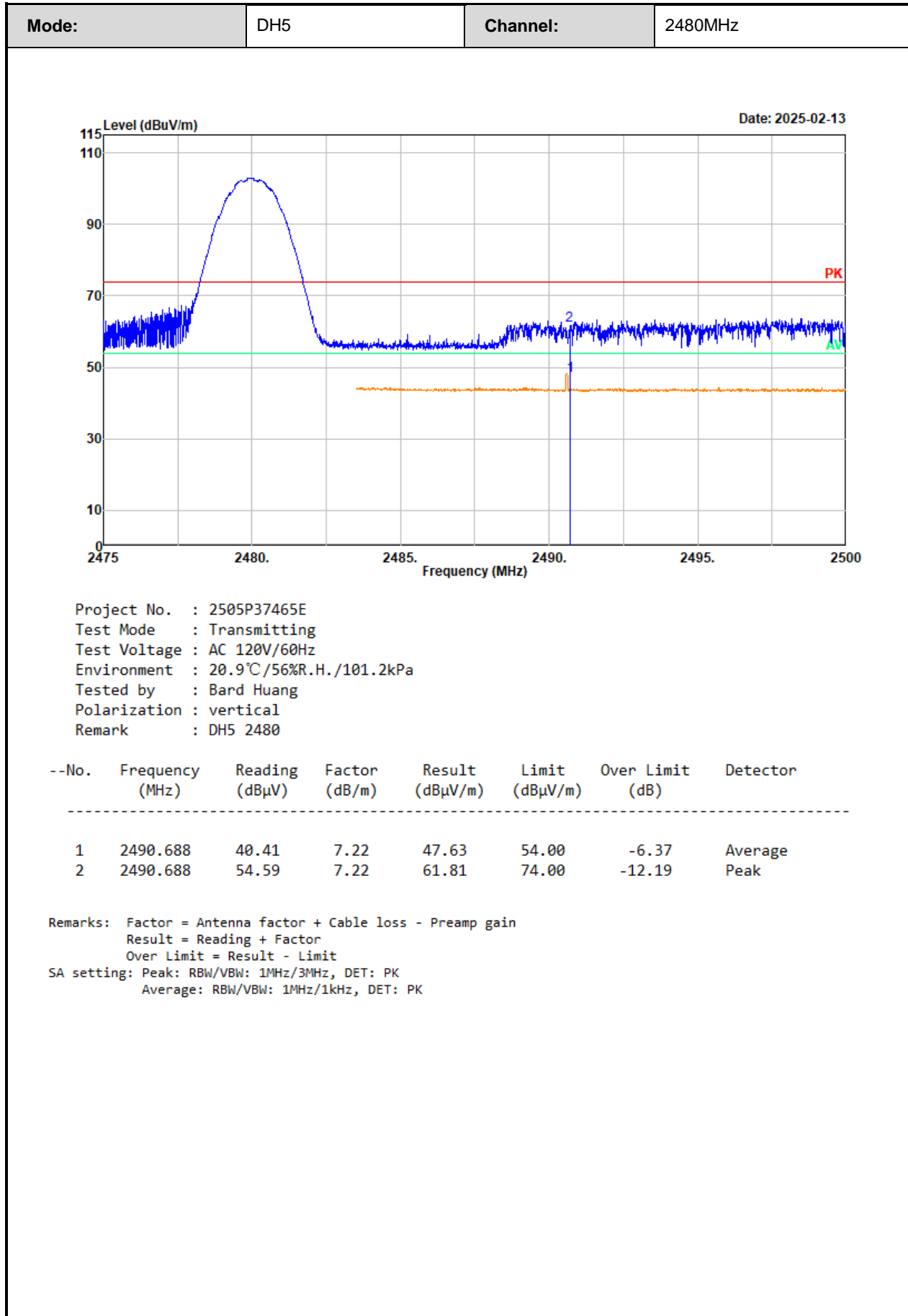
Project No. : 2505P37465E  
Test Mode : Transmitting  
Test Voltage : AC 120V/60Hz  
Environment : 20.9°C/56%R.H./101.2kPa  
Tested by : Bard Huang  
Polarization : horizontal  
Remark : DH5 2402

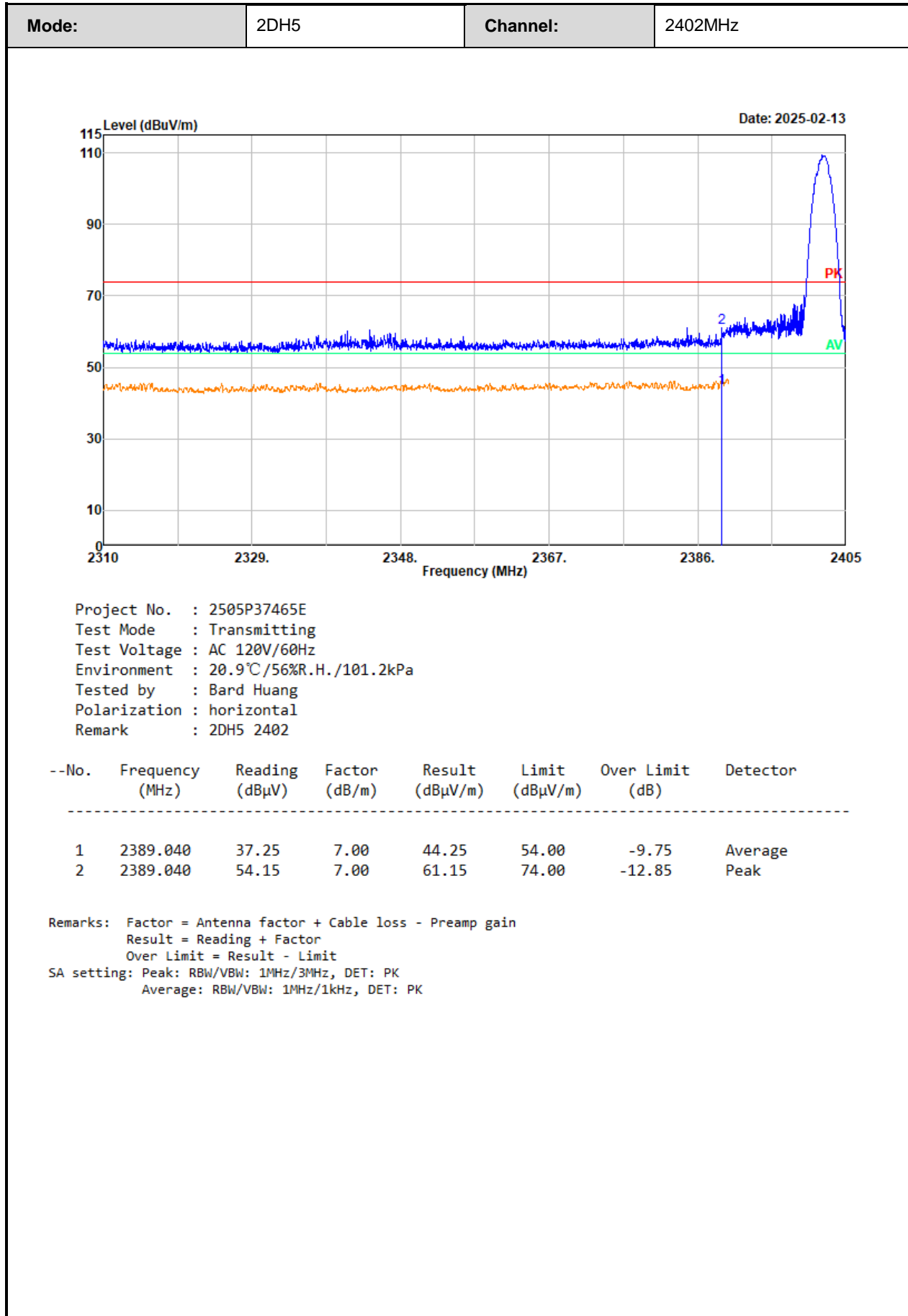
--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.183	37.16	7.00	44.16	54.00	-9.84	Average
2	2389.183	55.01	7.00	62.01	74.00	-11.99	Peak

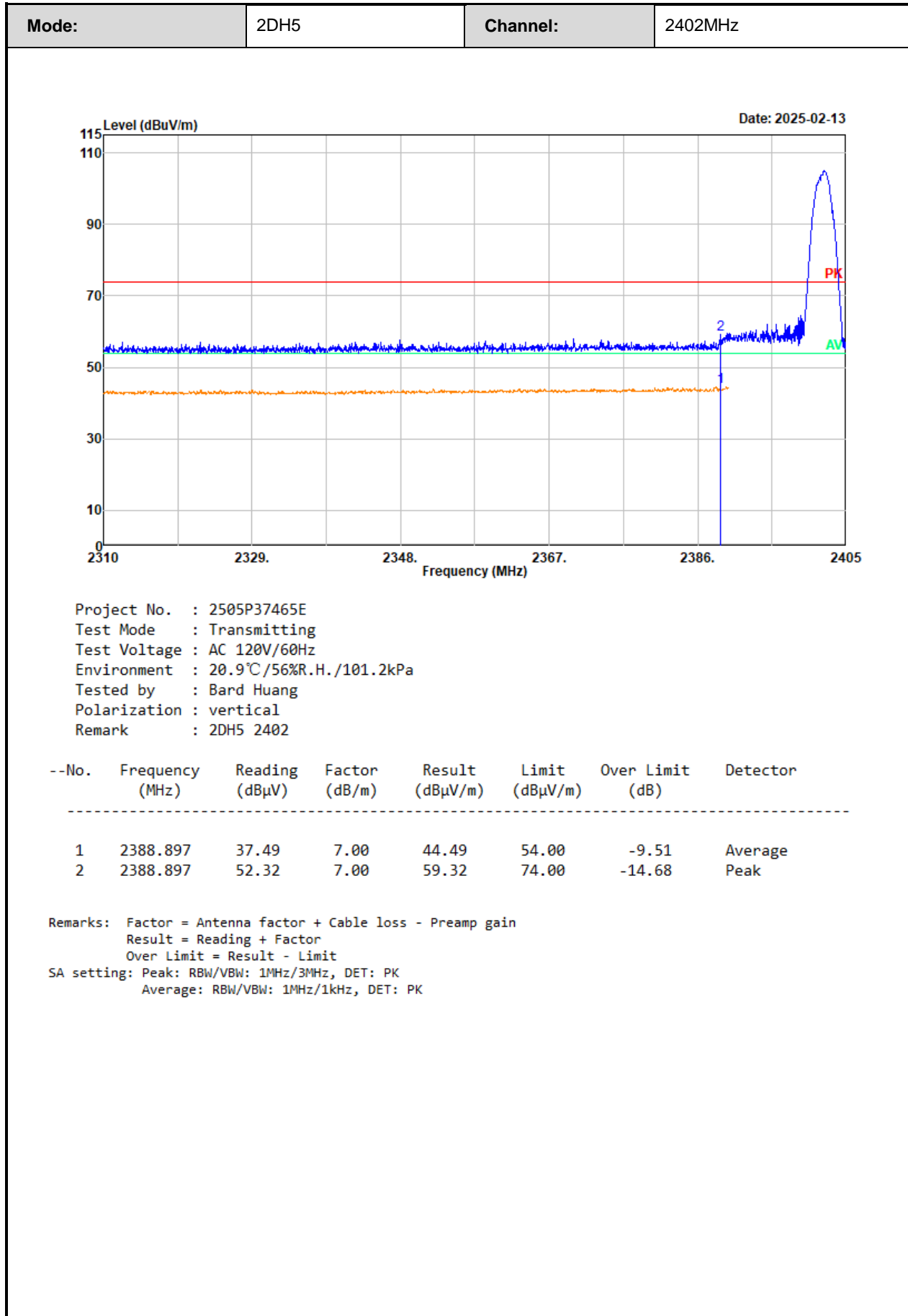
Remarks: Factor = Antenna factor + Cable loss - Preamp gain  
Result = Reading + Factor  
Over Limit = Result - Limit  
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK  
Average: RBW/VBW: 1MHz/1kHz, DET: PK

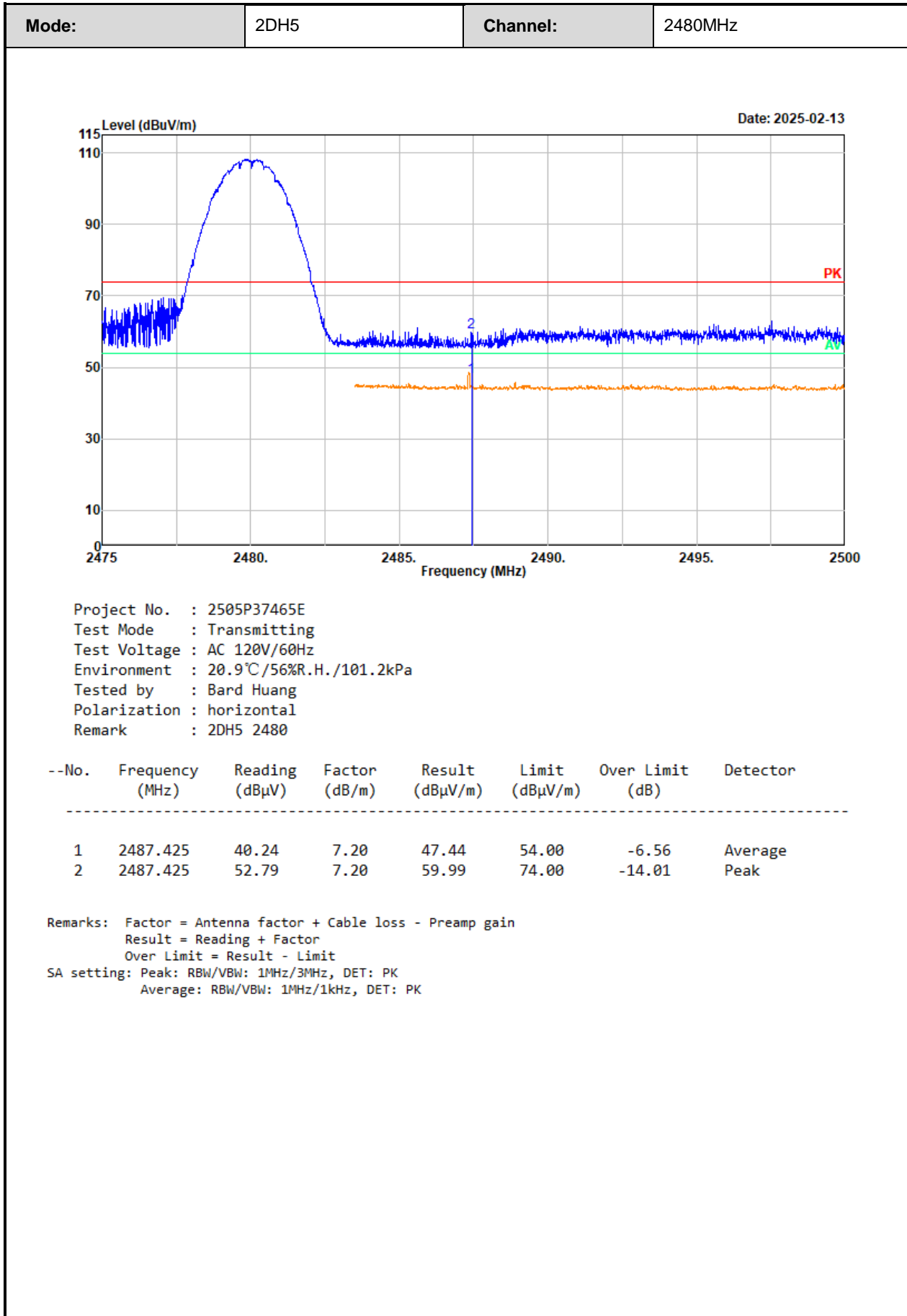


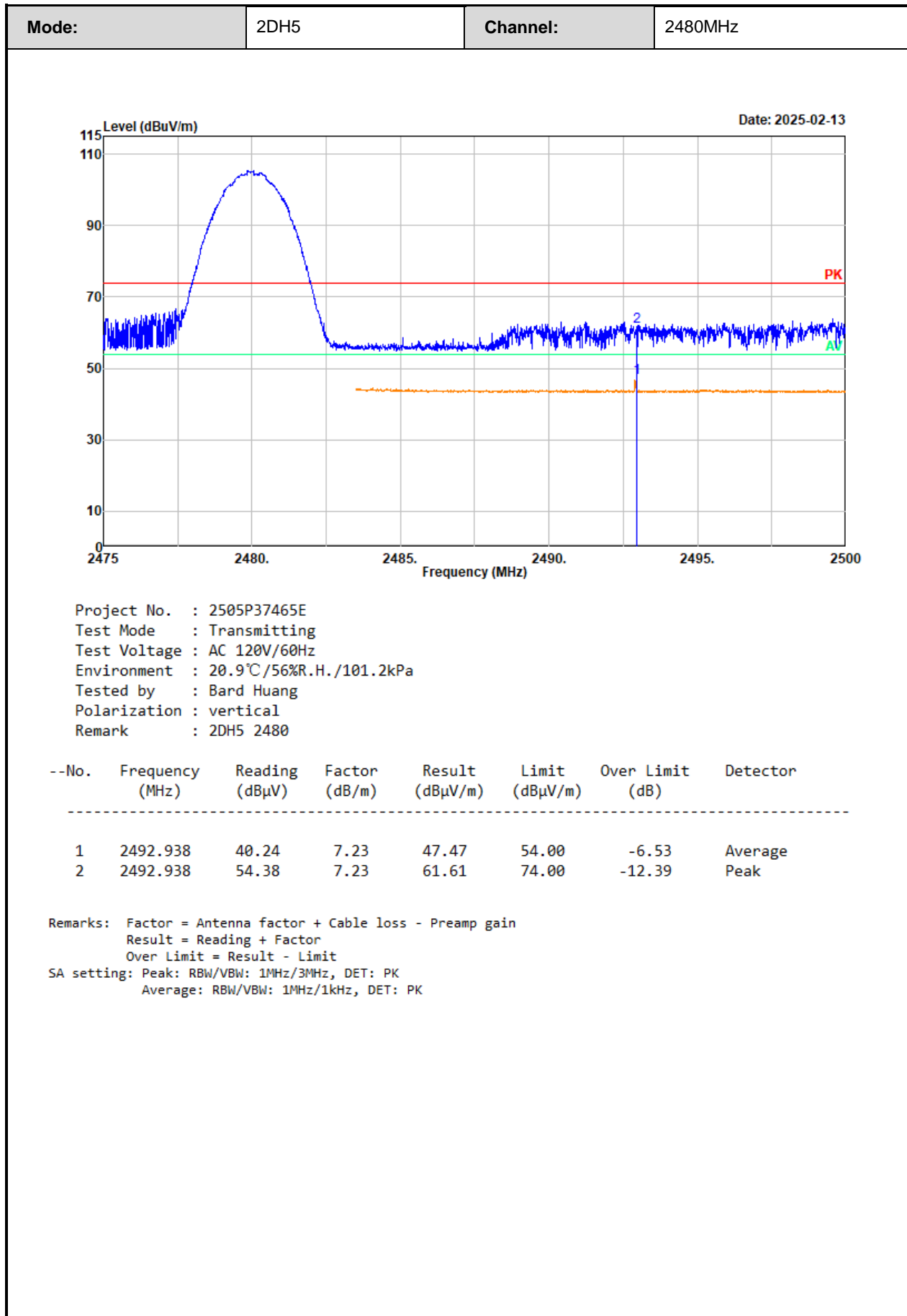




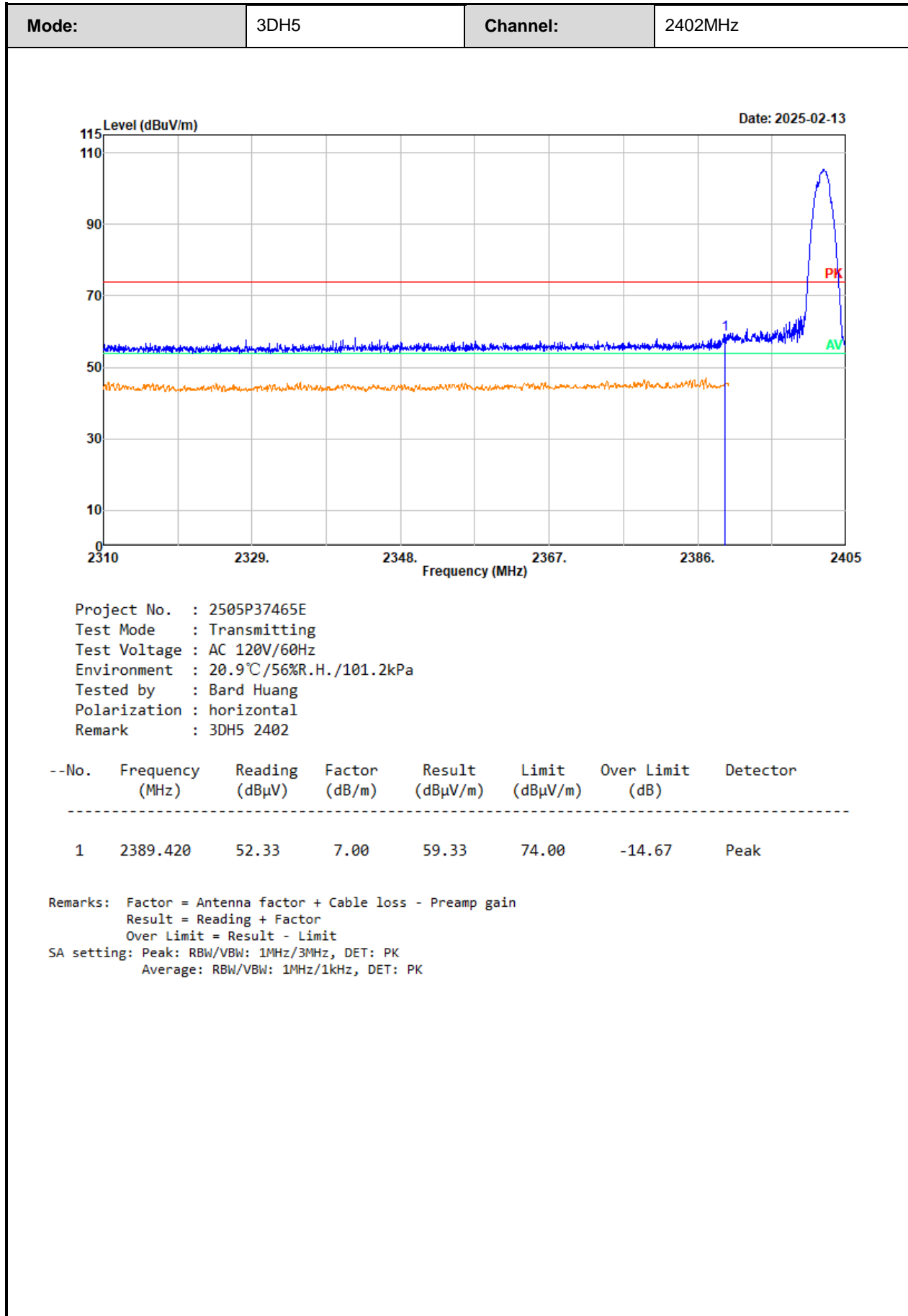


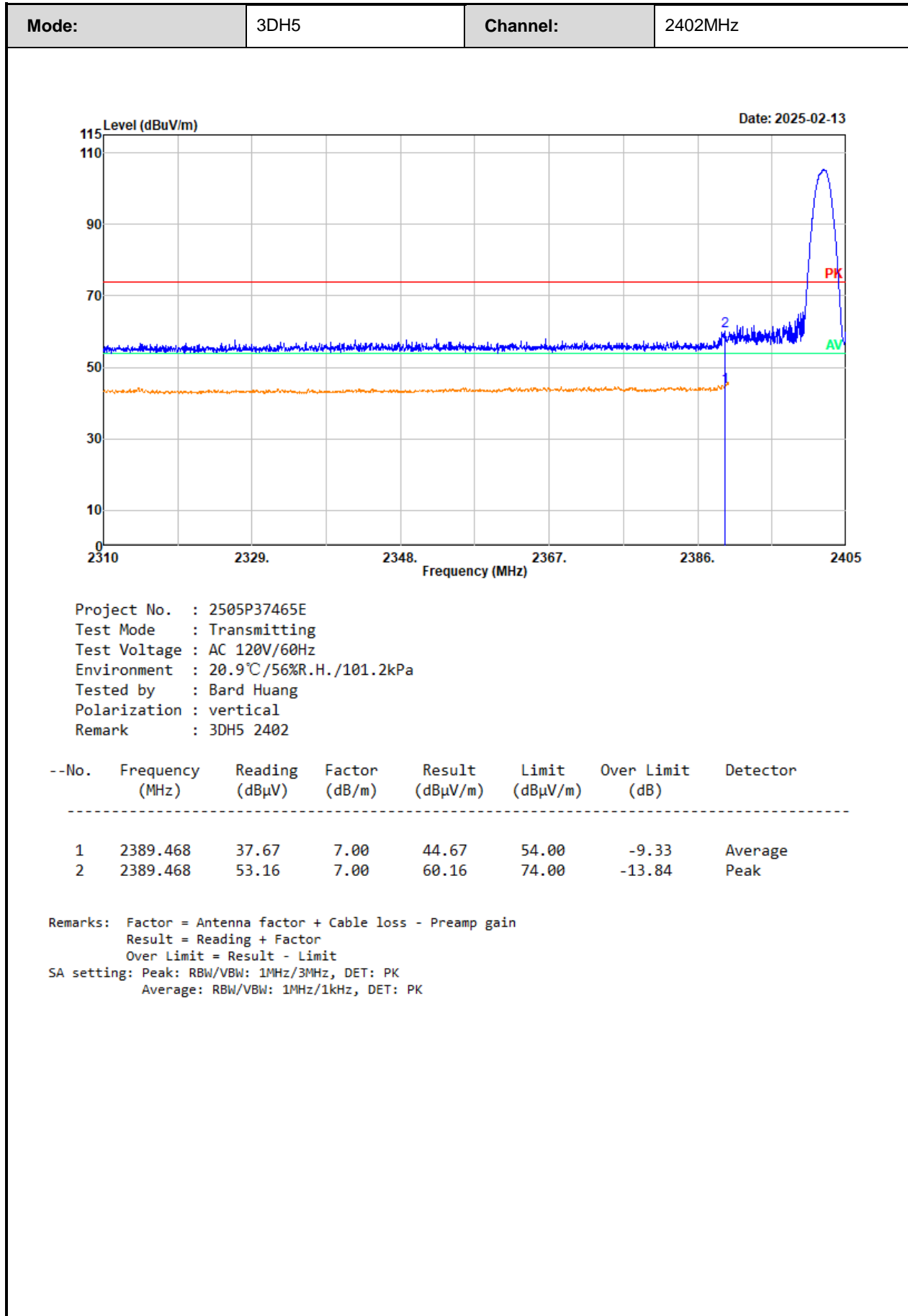


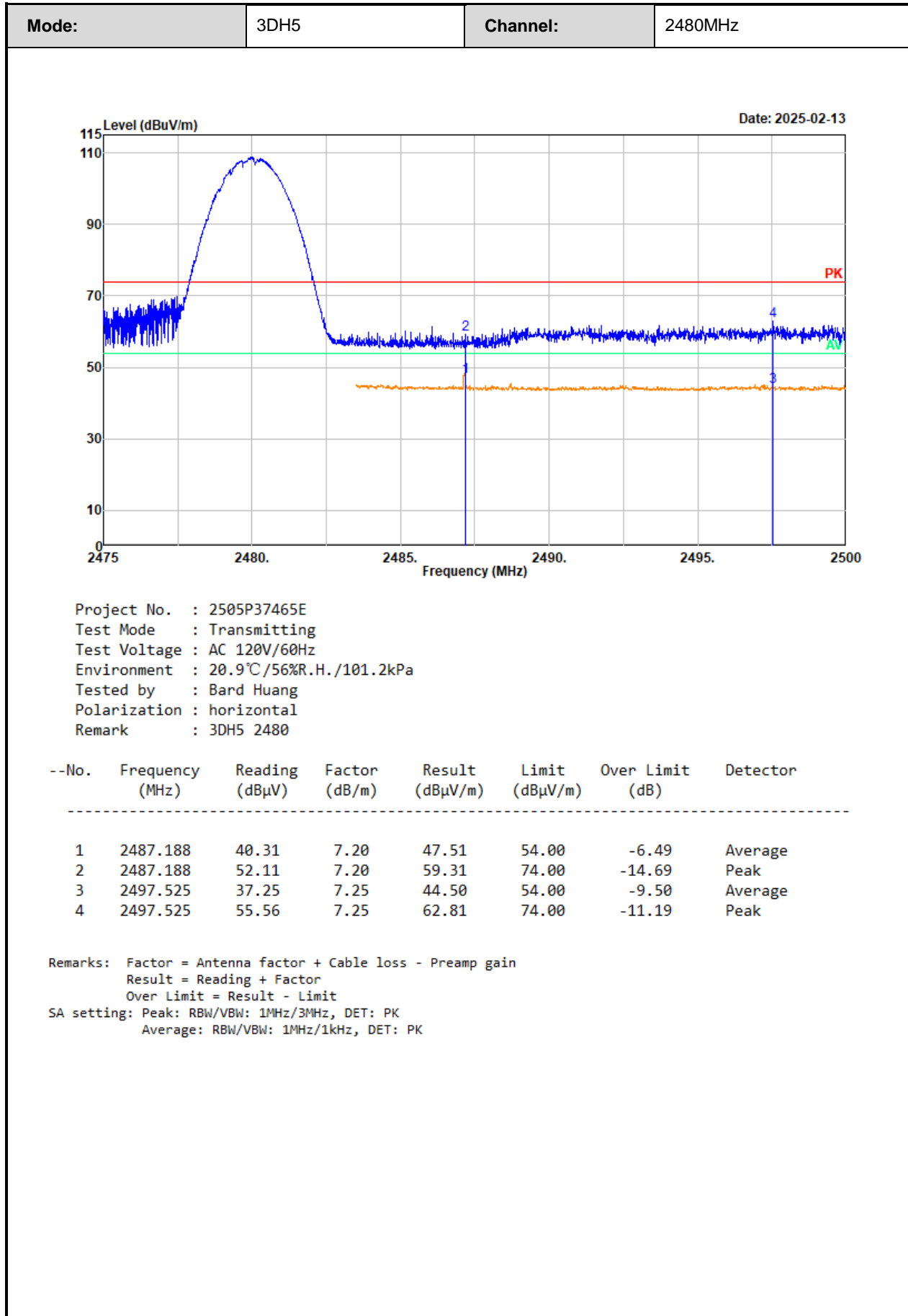


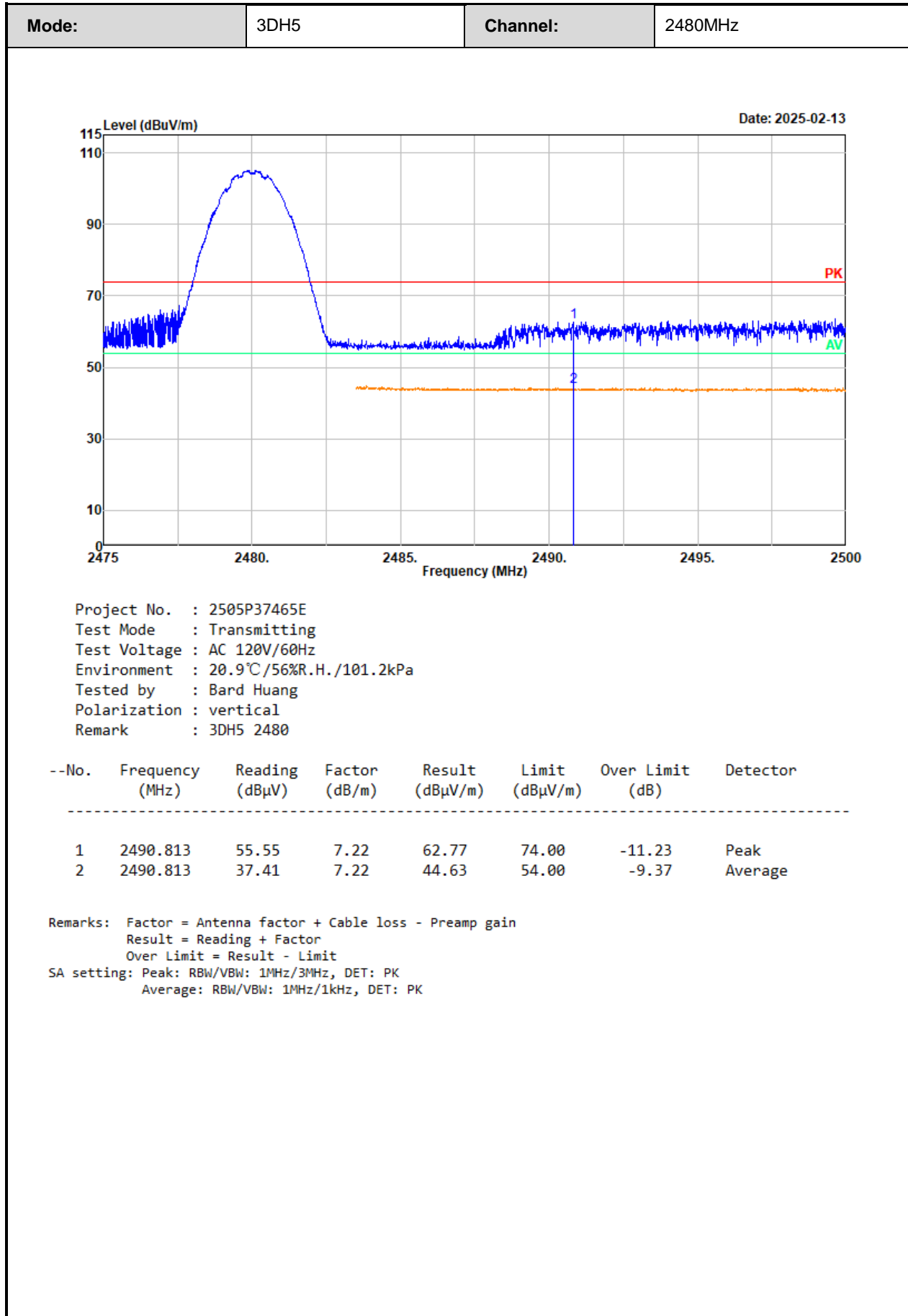












**Path 3:**

<b>Test Date:</b>	2025-02-13~2025-02-17	<b>Test By:</b>	Bard Huang
<b>Environment condition:</b>	Temperature: 20.9~23°C; Relative Humidity:56~62%; ATM Pressure: 101.2~101.5kPa		

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
GFSK							
Low Channel							
4804.000	48.95	horizontal	-2.42	46.53	74.00	-27.47	Peak
4804.000	48.30	vertical	-2.42	45.88	74.00	-28.12	Peak
Middle Channel							
4882.000	47.80	horizontal	-1.86	45.94	74.00	-28.06	Peak
4882.000	48.60	vertical	-1.86	46.74	74.00	-27.26	Peak
High Channel							
4960.000	48.33	horizontal	-1.70	46.63	74.00	-27.37	Peak
4960.000	48.31	vertical	-1.70	46.61	74.00	-27.39	Peak
π/4 DQPSK							
Low Channel							
4804.000	47.77	horizontal	-2.42	45.35	74.00	-28.65	Peak
4804.000	48.98	vertical	-2.42	46.56	74.00	-27.44	Peak
Middle Channel							
4882.000	47.67	horizontal	-1.86	45.81	74.00	-28.19	Peak
4882.000	47.34	vertical	-1.86	45.48	74.00	-28.52	Peak
High Channel							
4960.000	48.35	horizontal	-1.70	46.65	74.00	-27.35	Peak
4960.000	48.27	vertical	-1.70	46.57	74.00	-27.43	Peak
8DPSK							
Low Channel							
4804.000	47.06	horizontal	-2.42	44.64	74.00	-29.36	Peak
4804.000	47.59	vertical	-2.42	45.17	74.00	-28.83	Peak
Middle Channel							
4882.000	48.46	horizontal	-1.86	46.60	74.00	-27.40	Peak
4882.000	48.19	vertical	-1.86	46.33	74.00	-27.67	Peak
High Channel							
4960.000	47.37	horizontal	-1.70	45.67	74.00	-28.33	Peak
4960.000	47.12	vertical	-1.70	45.42	74.00	-28.58	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

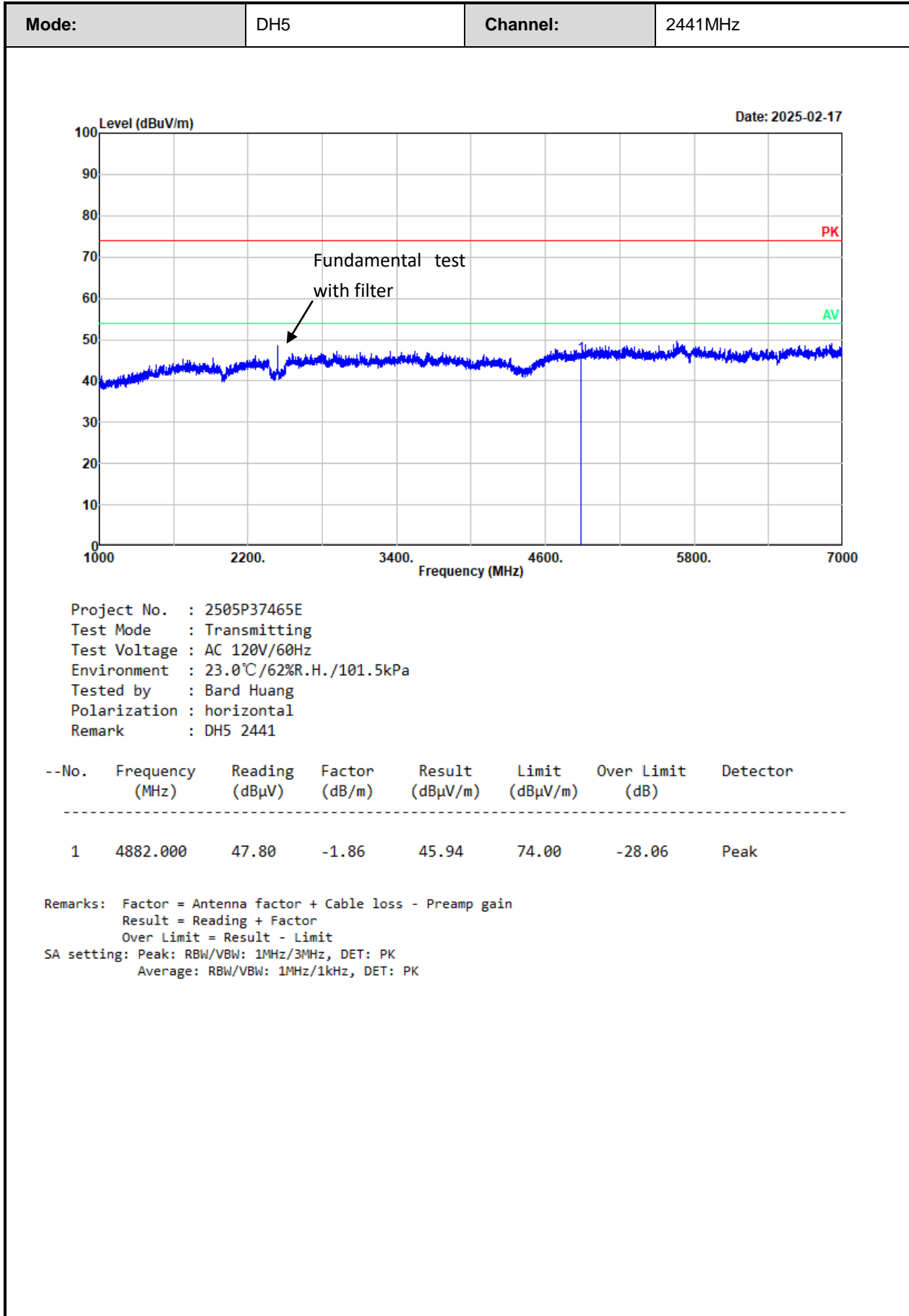
Margin = Corrected Amplitude – Limit

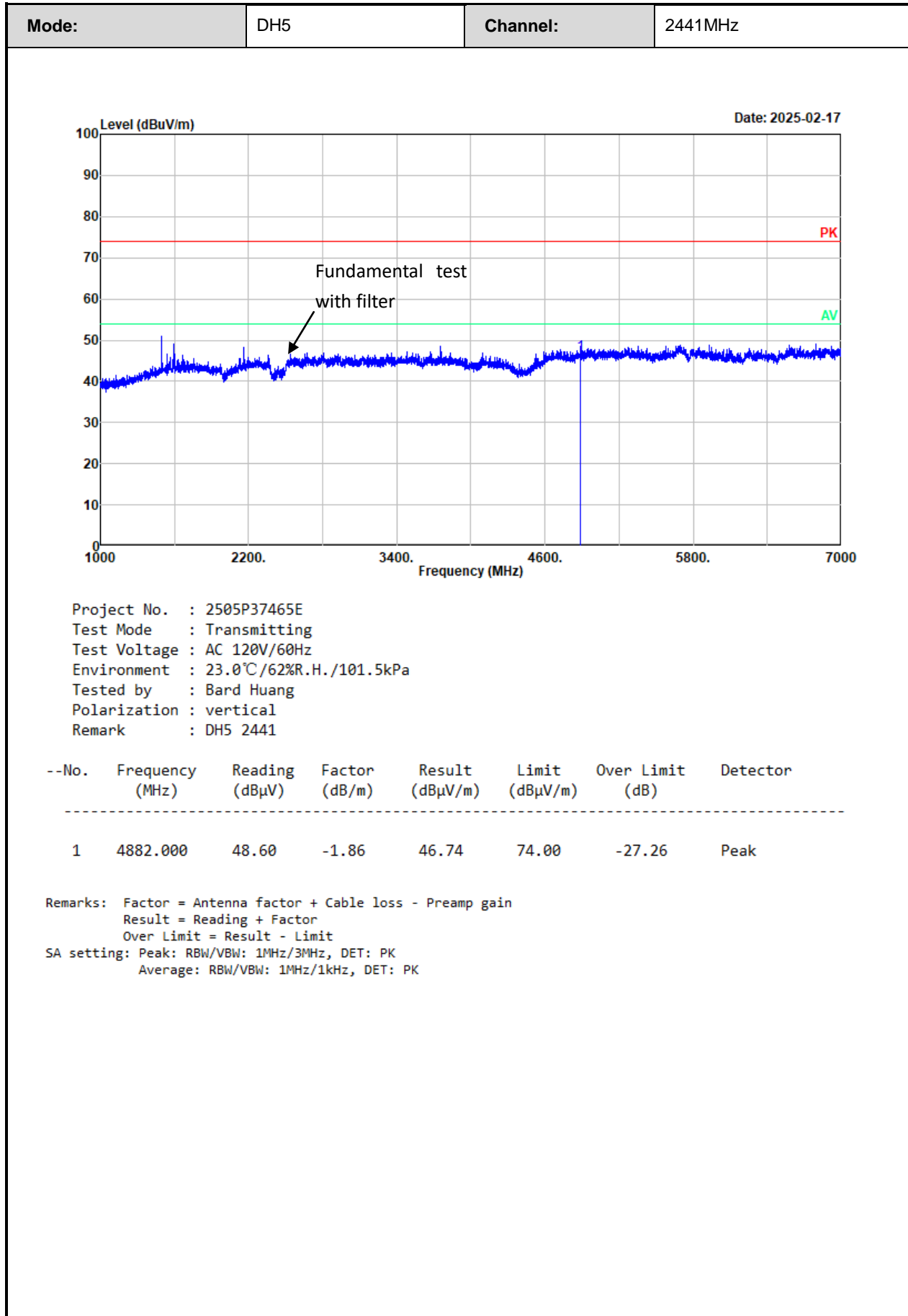
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

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

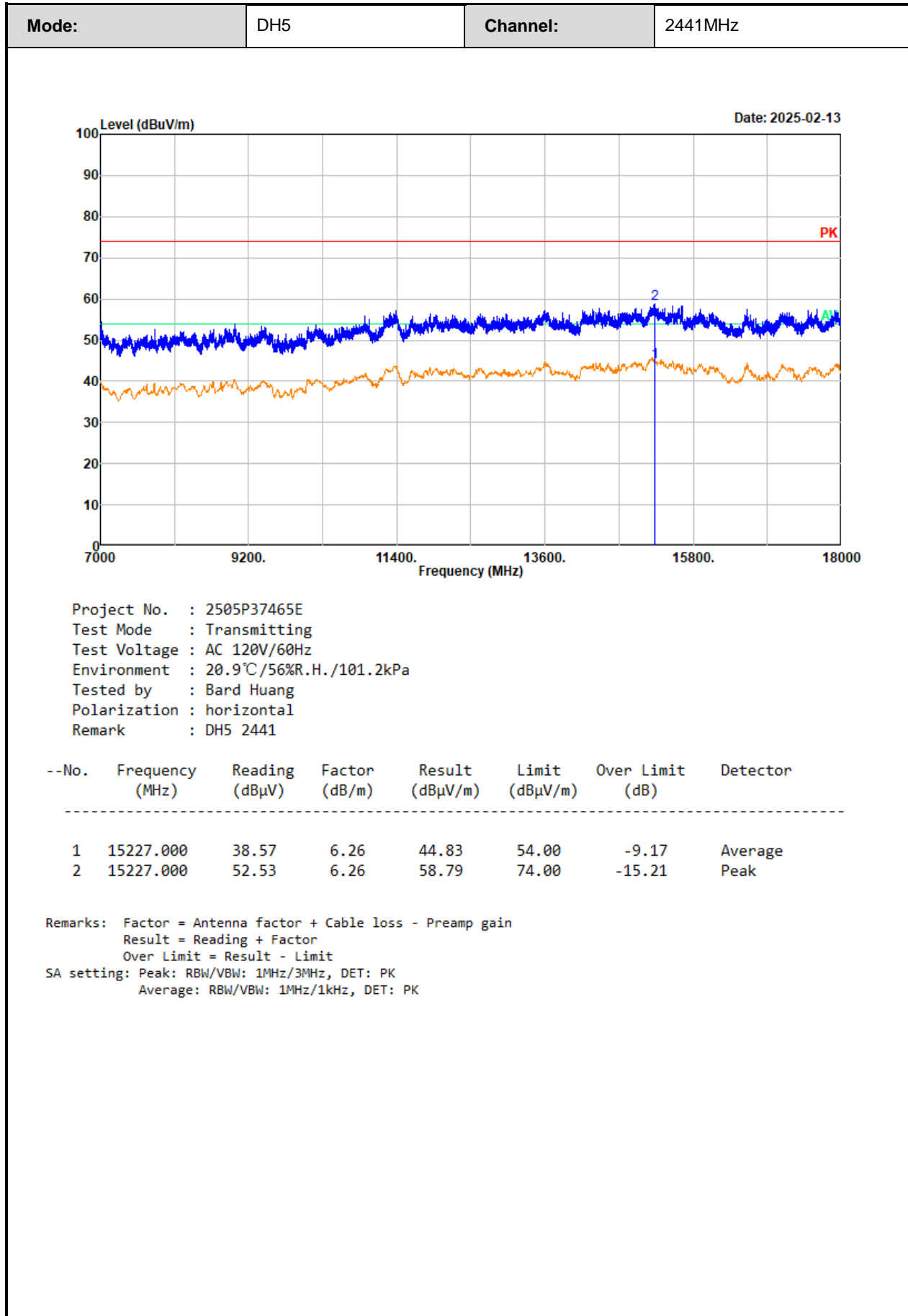
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

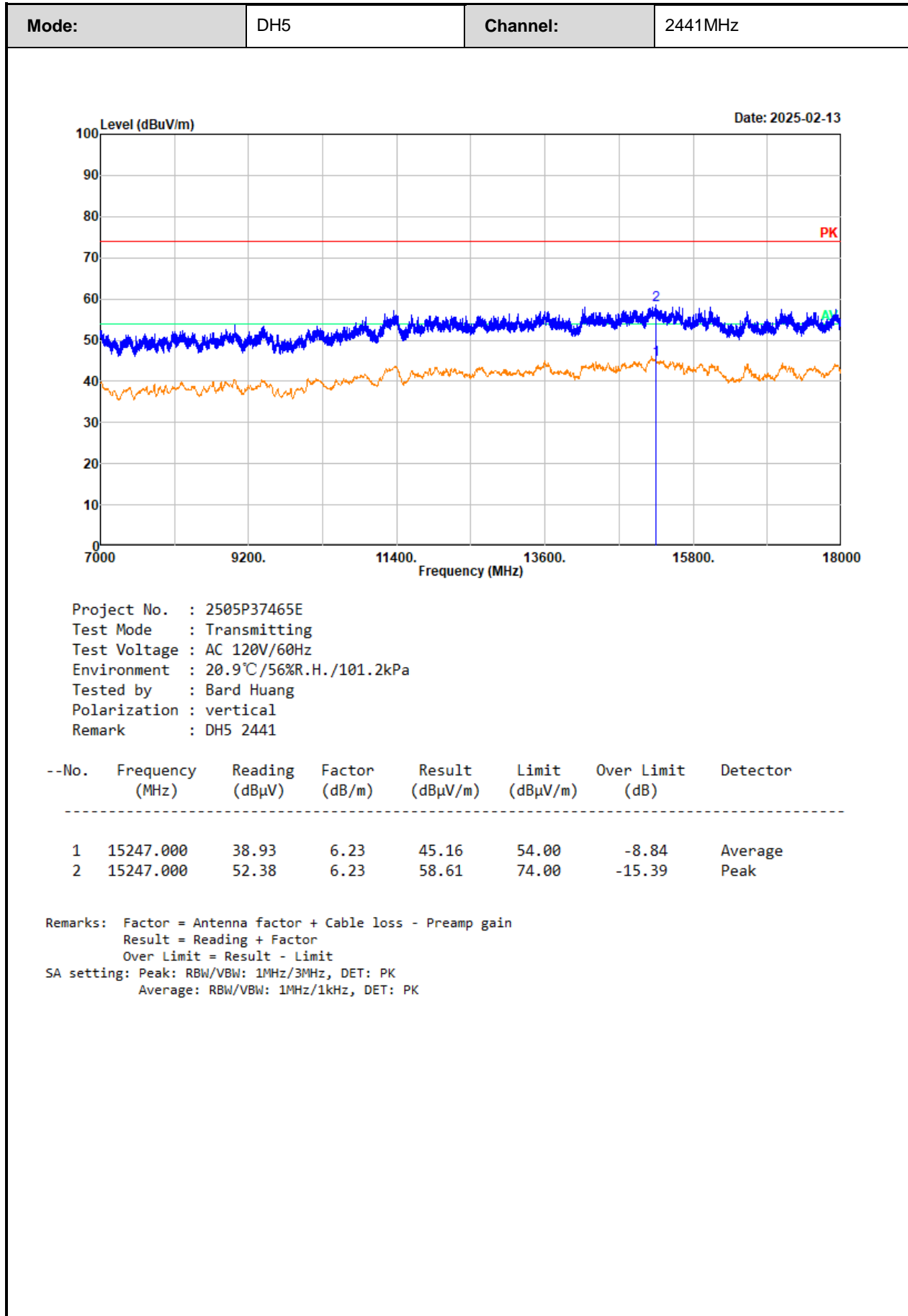
**Test plot for worst case as below:**

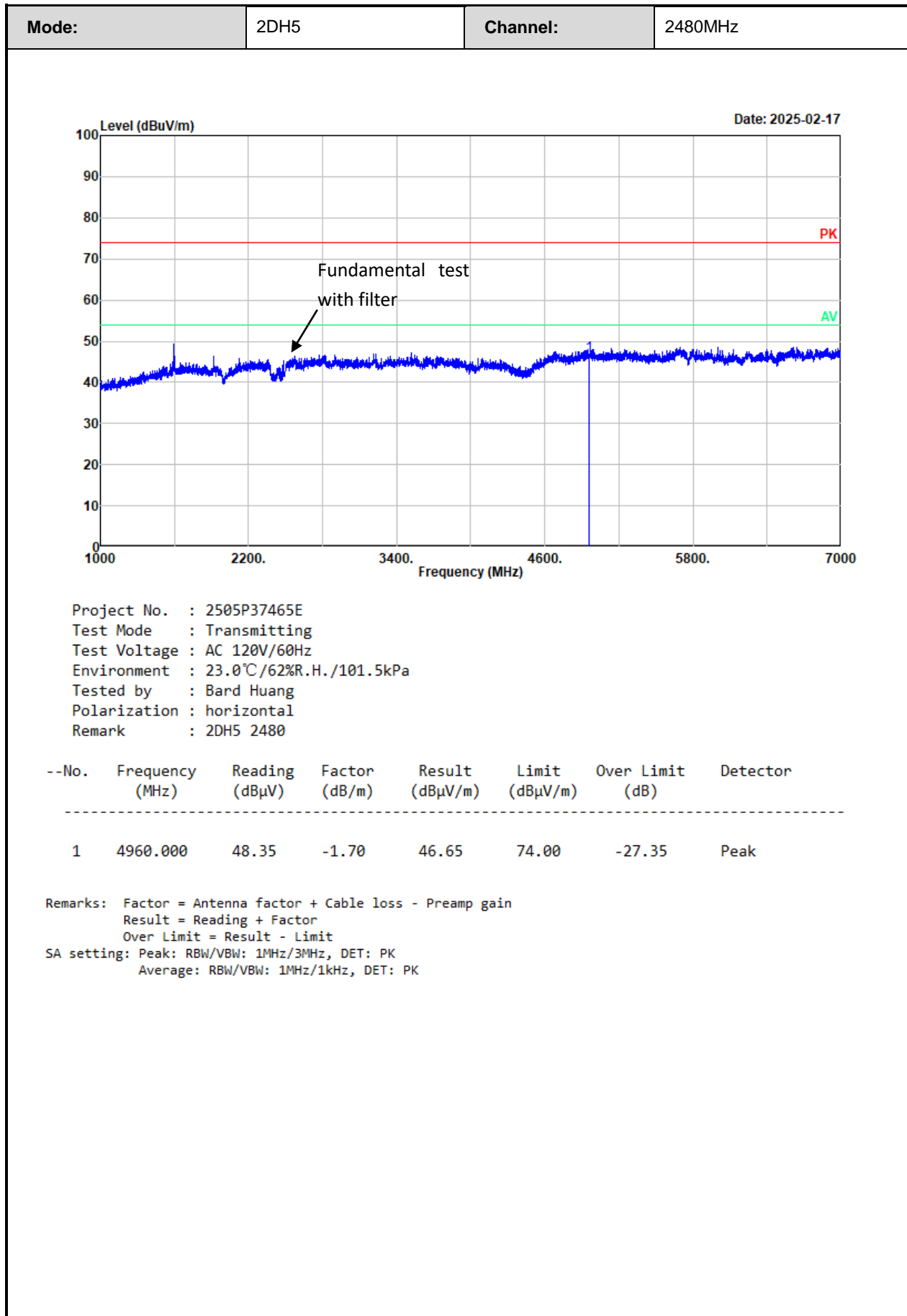


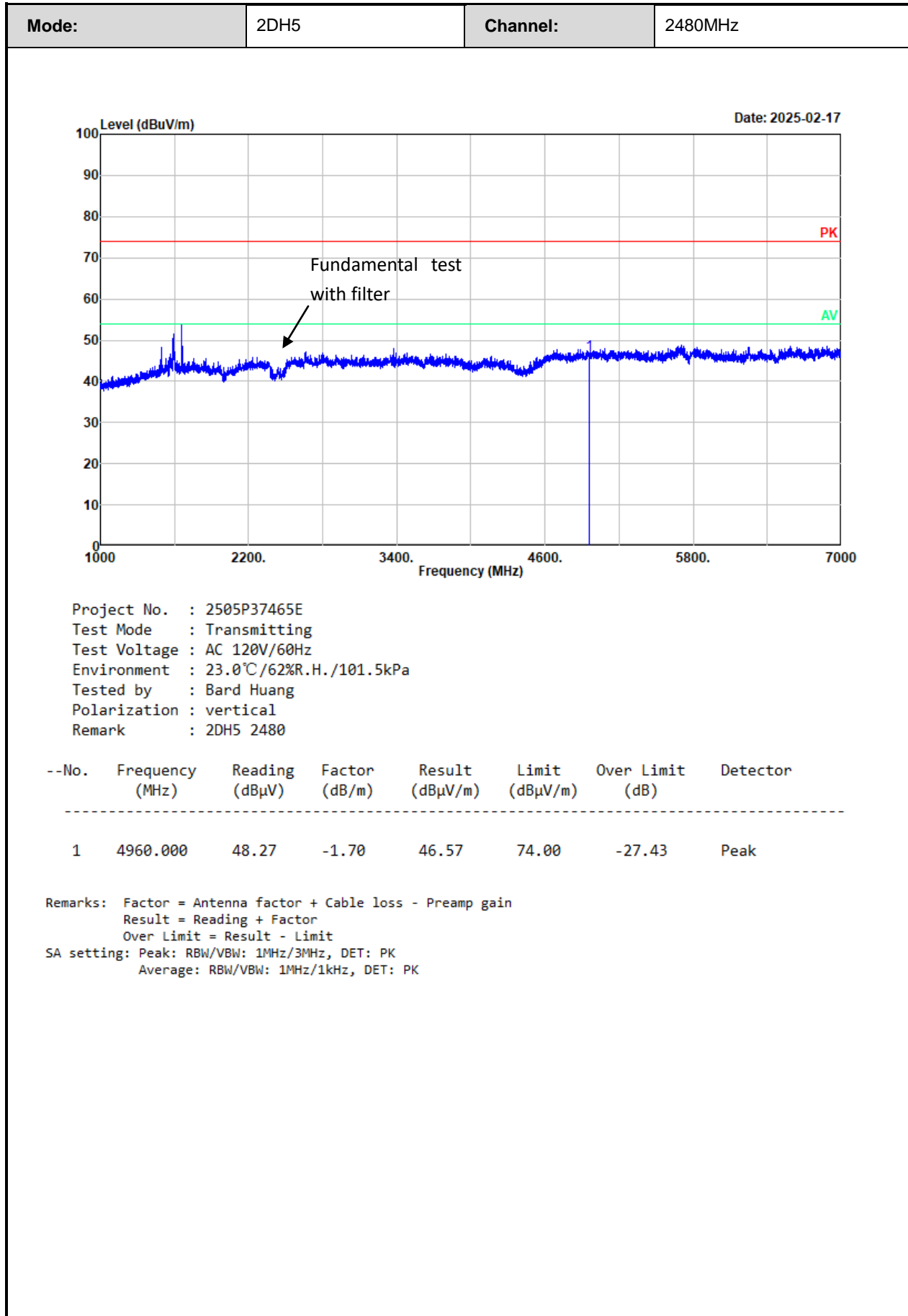


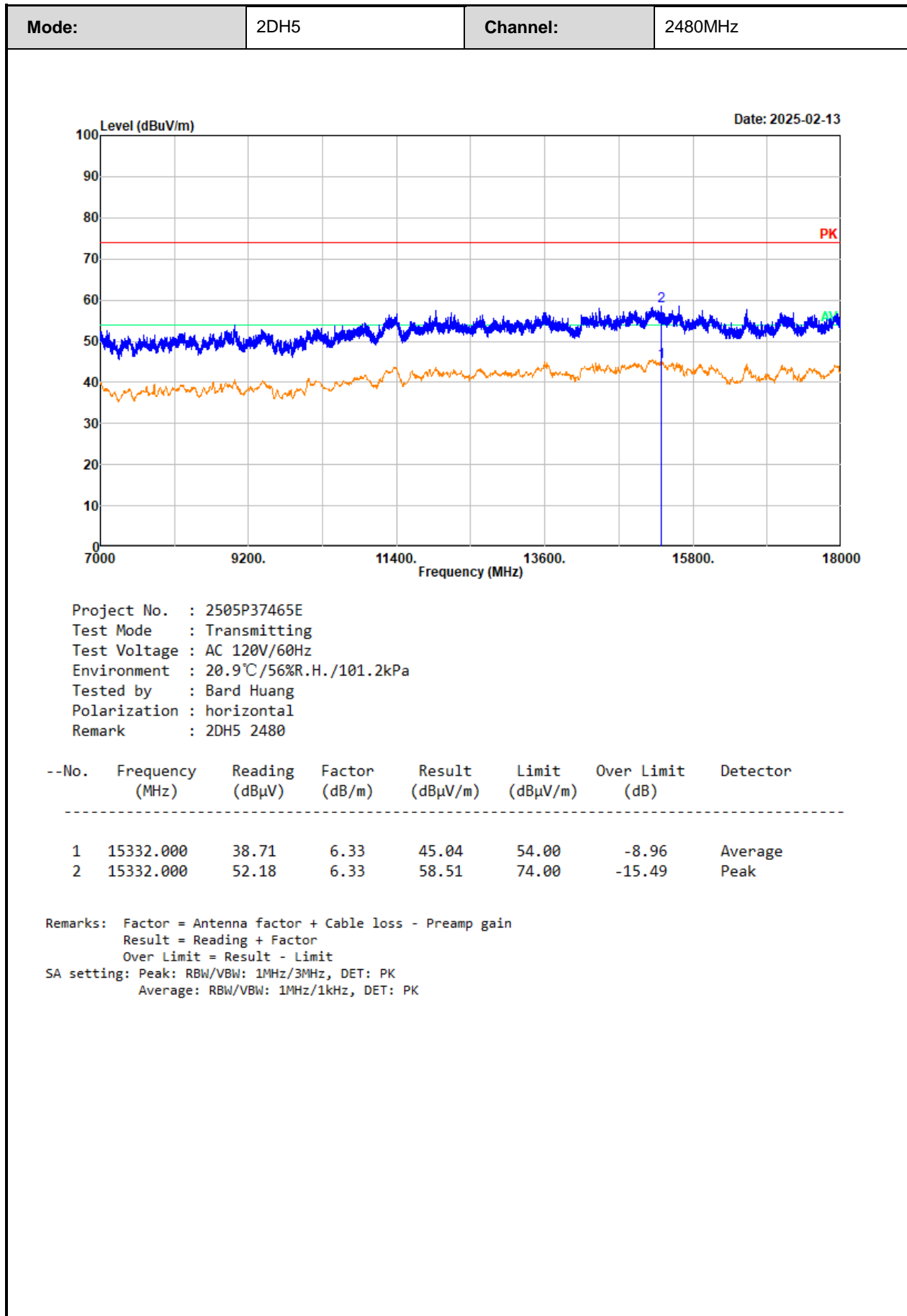


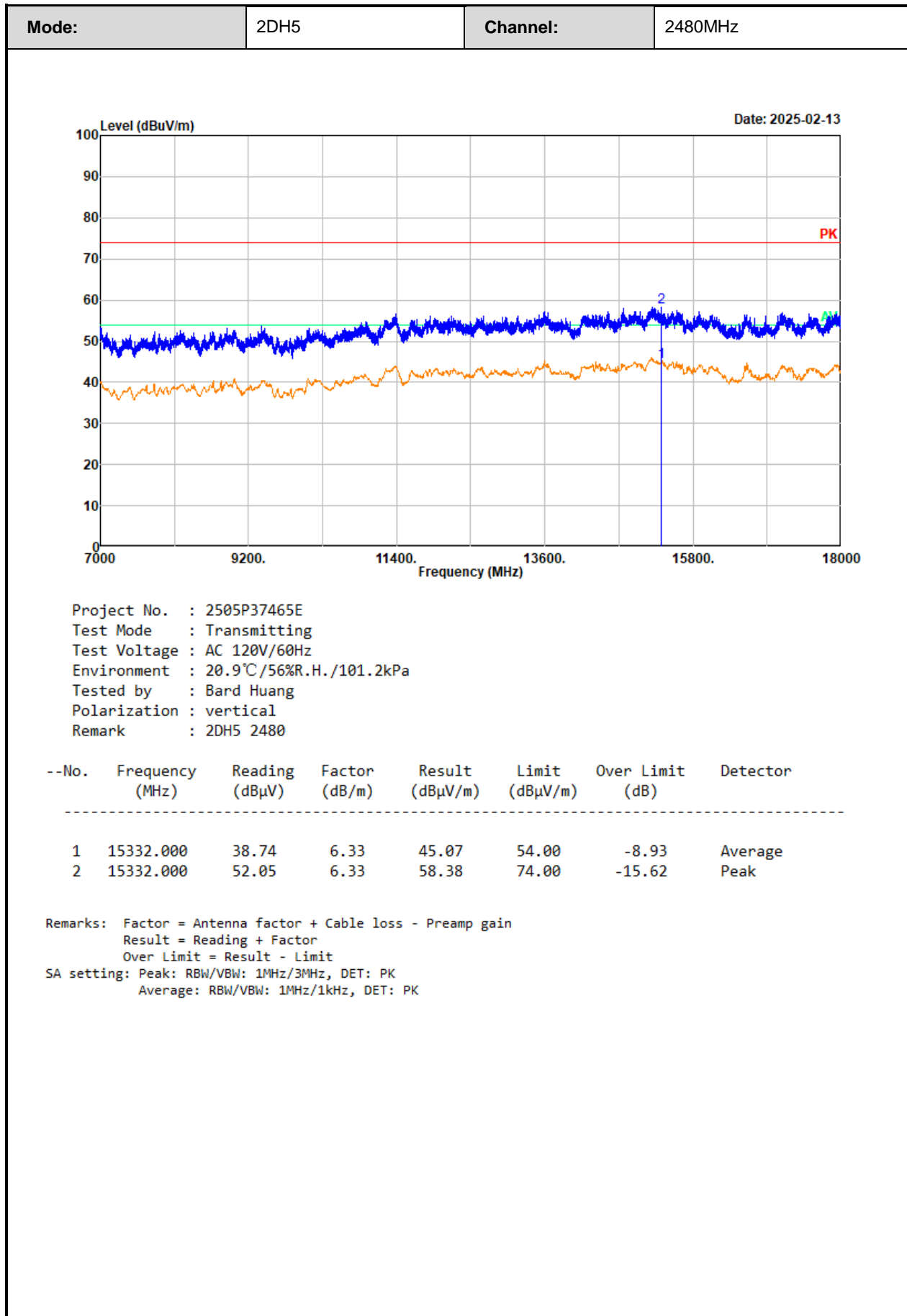


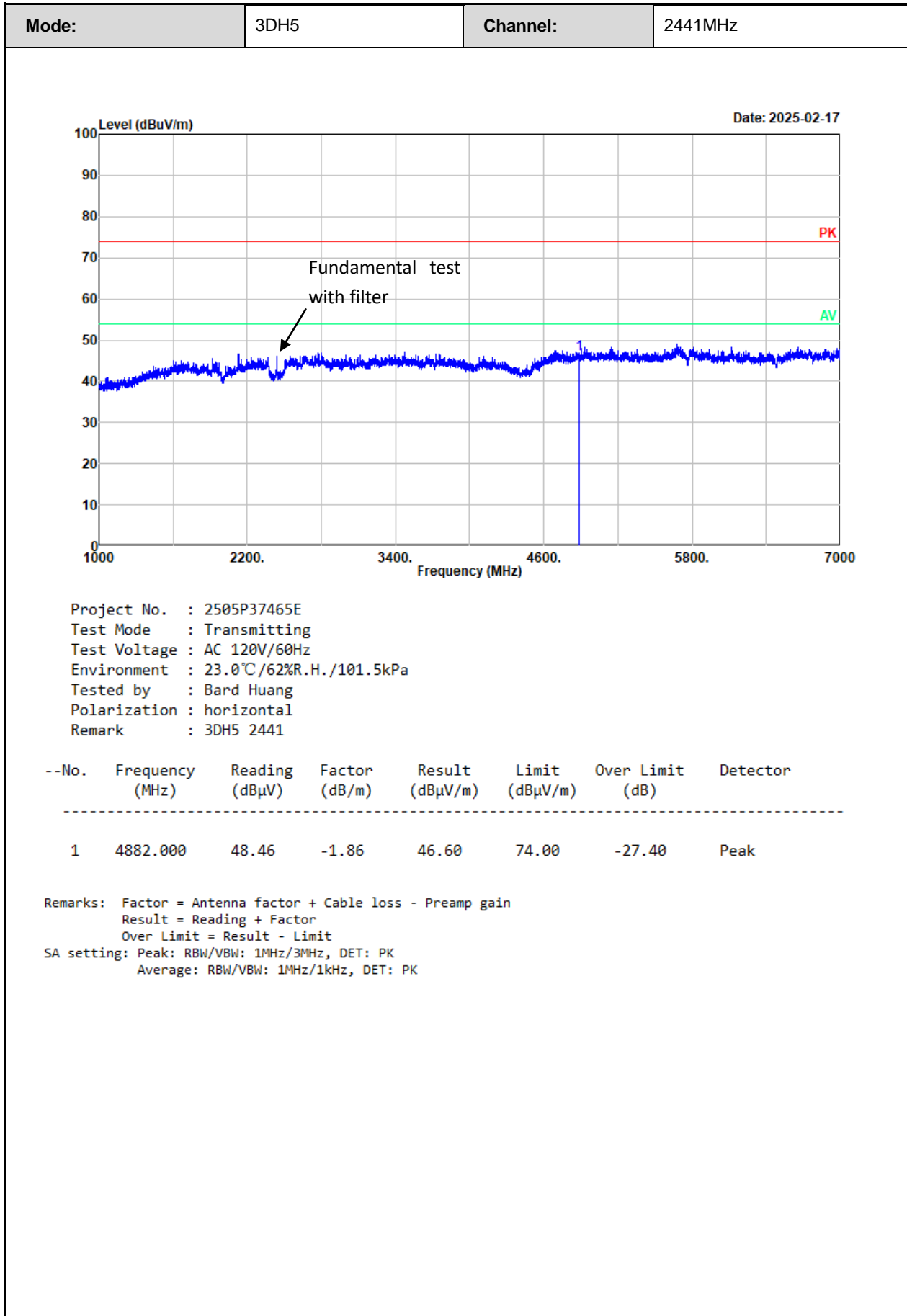


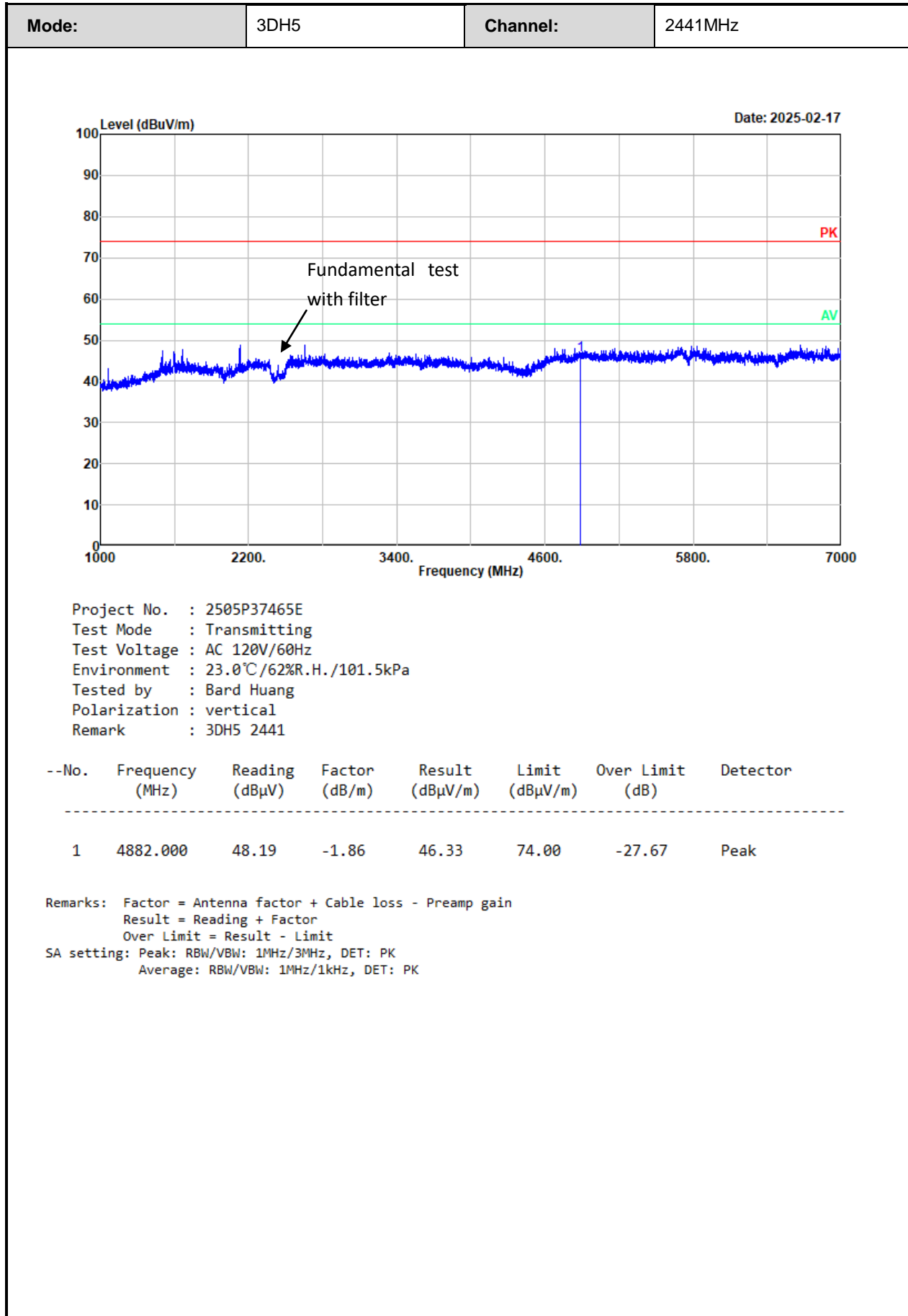




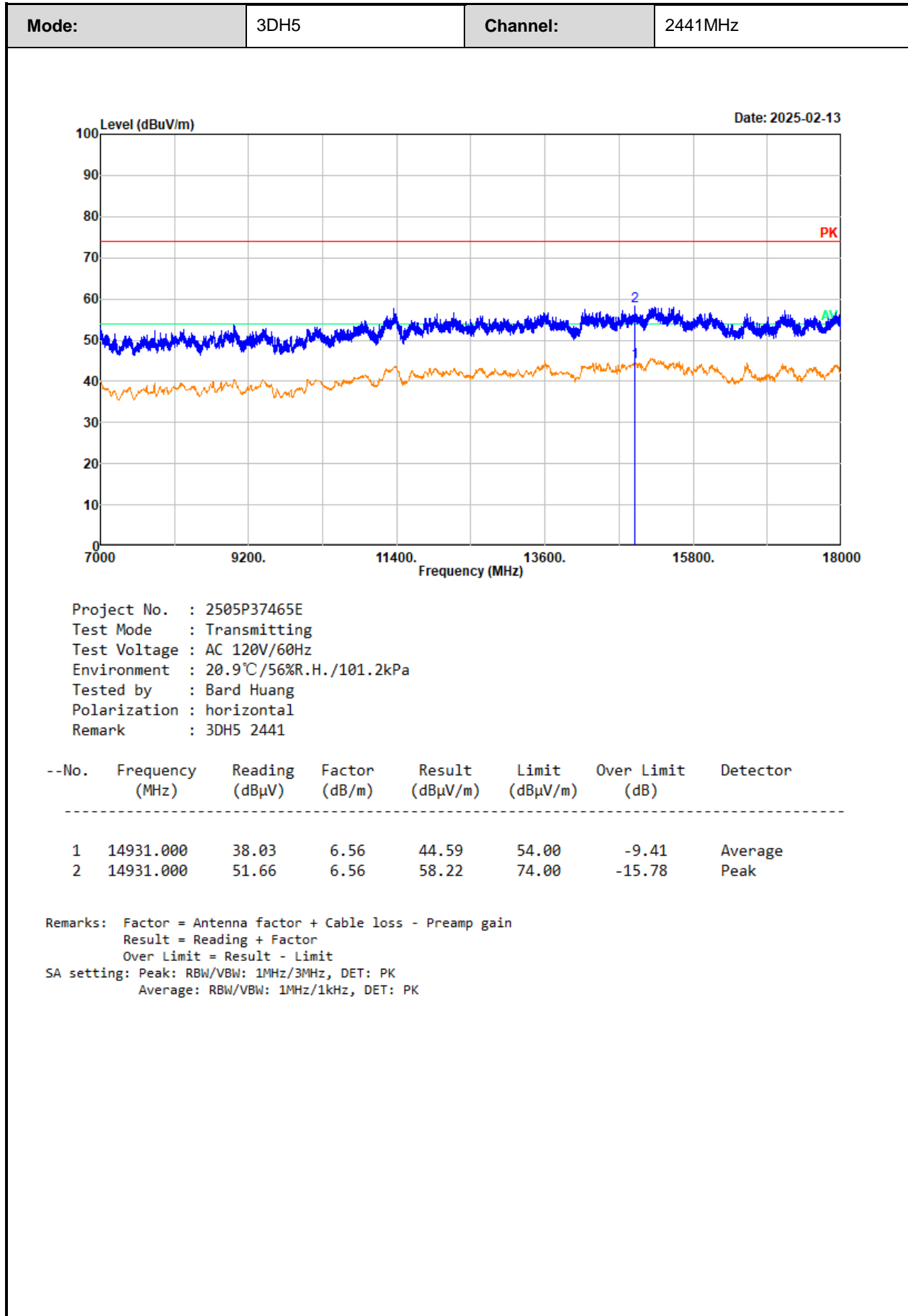


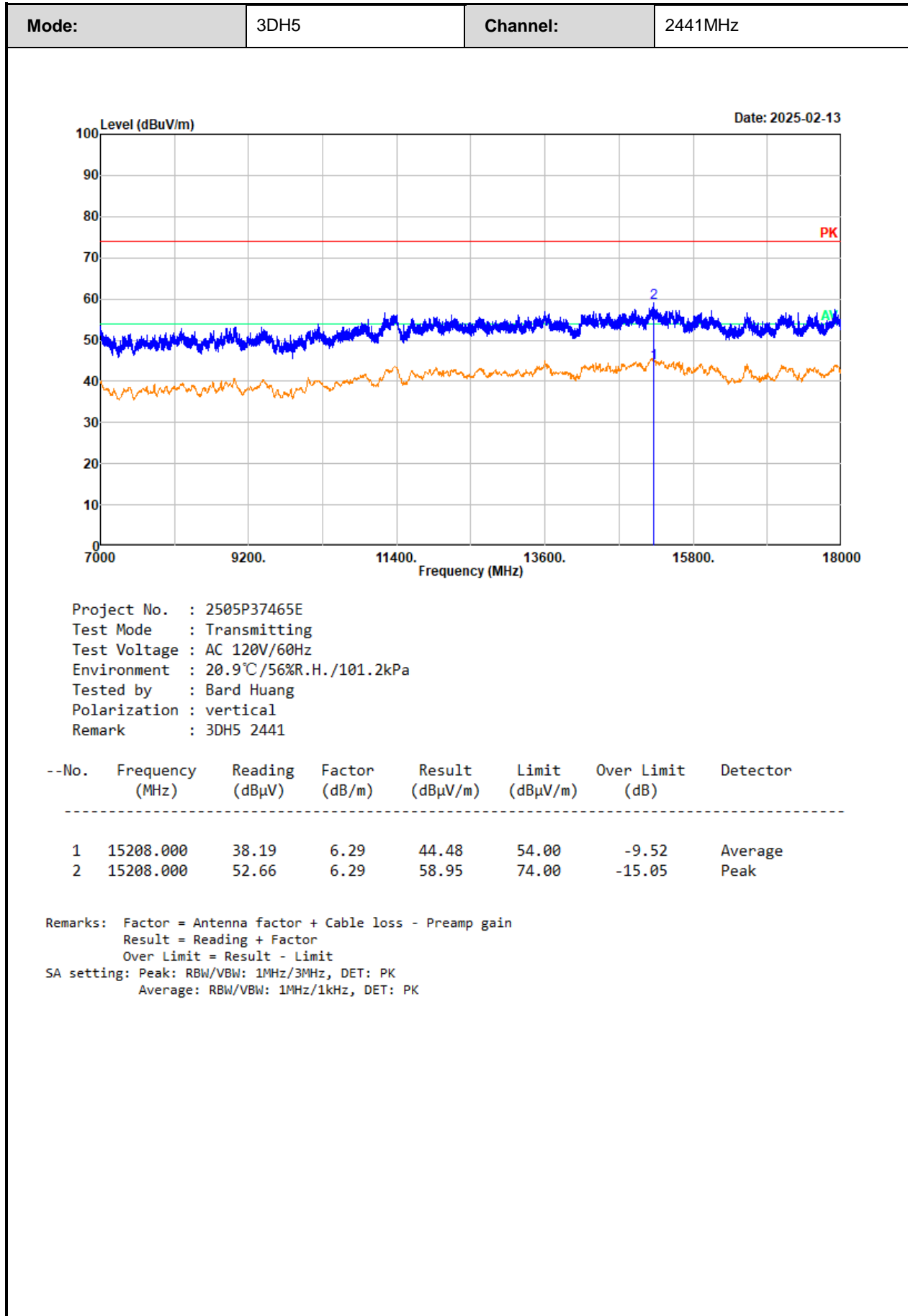


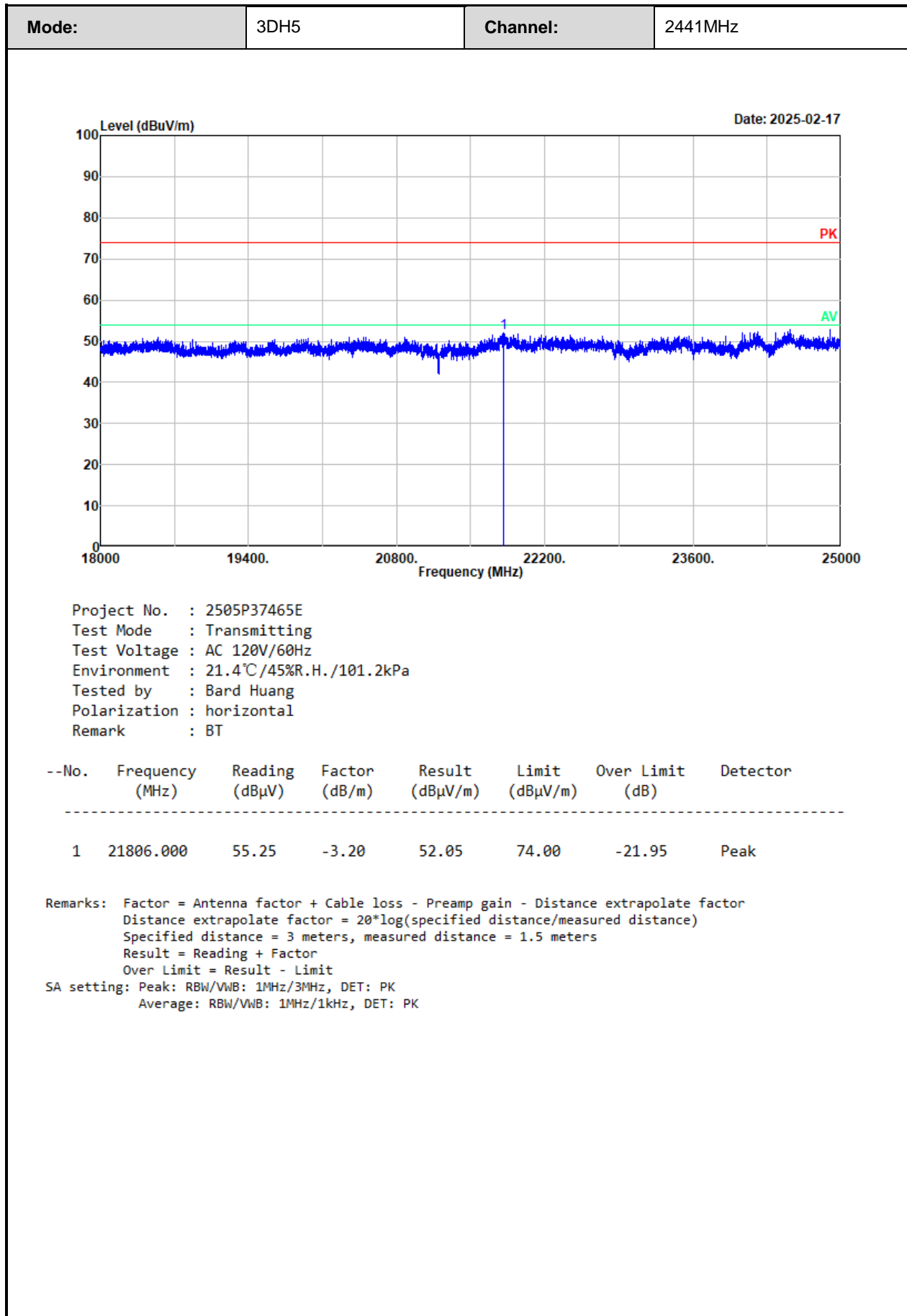


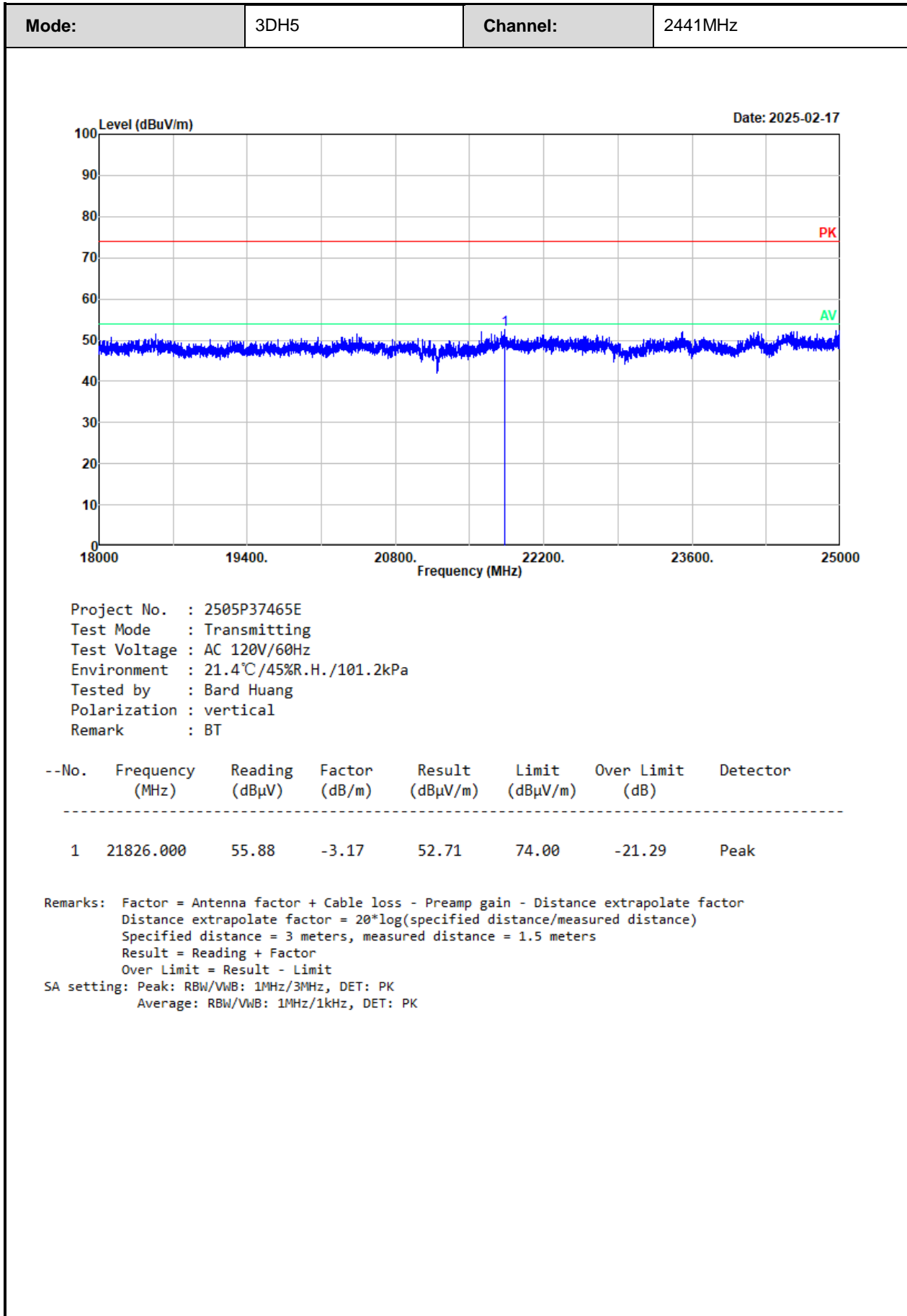




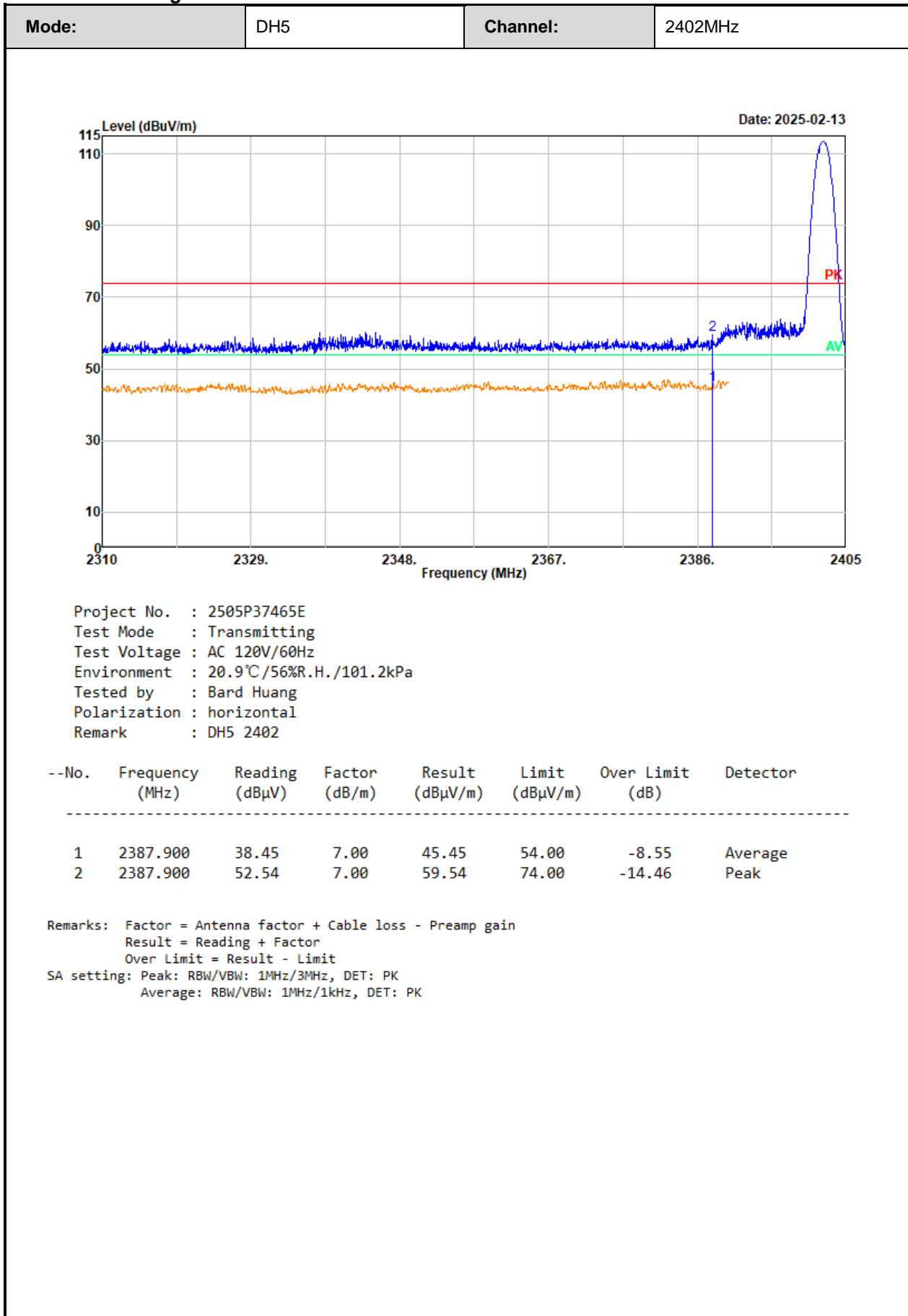


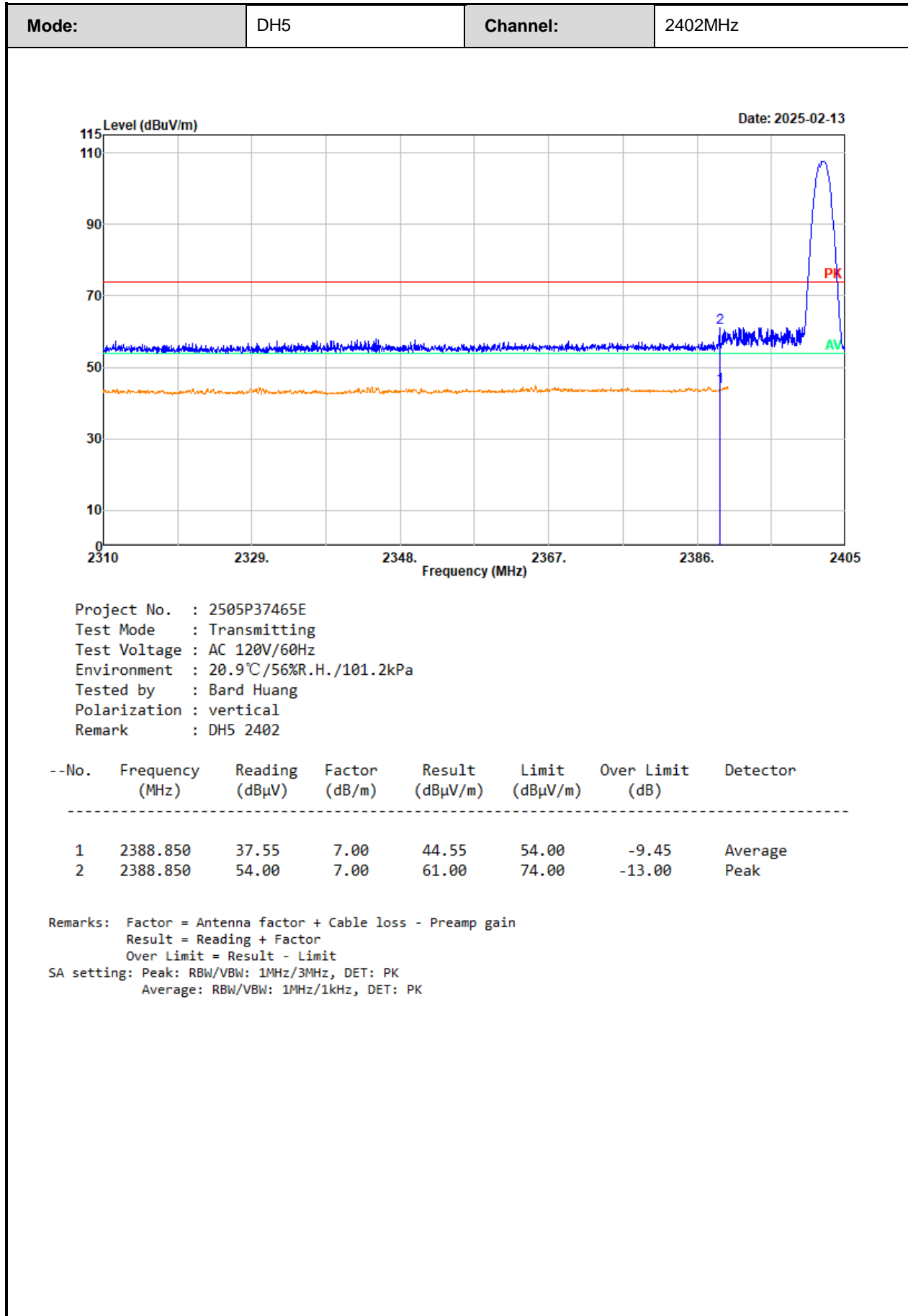


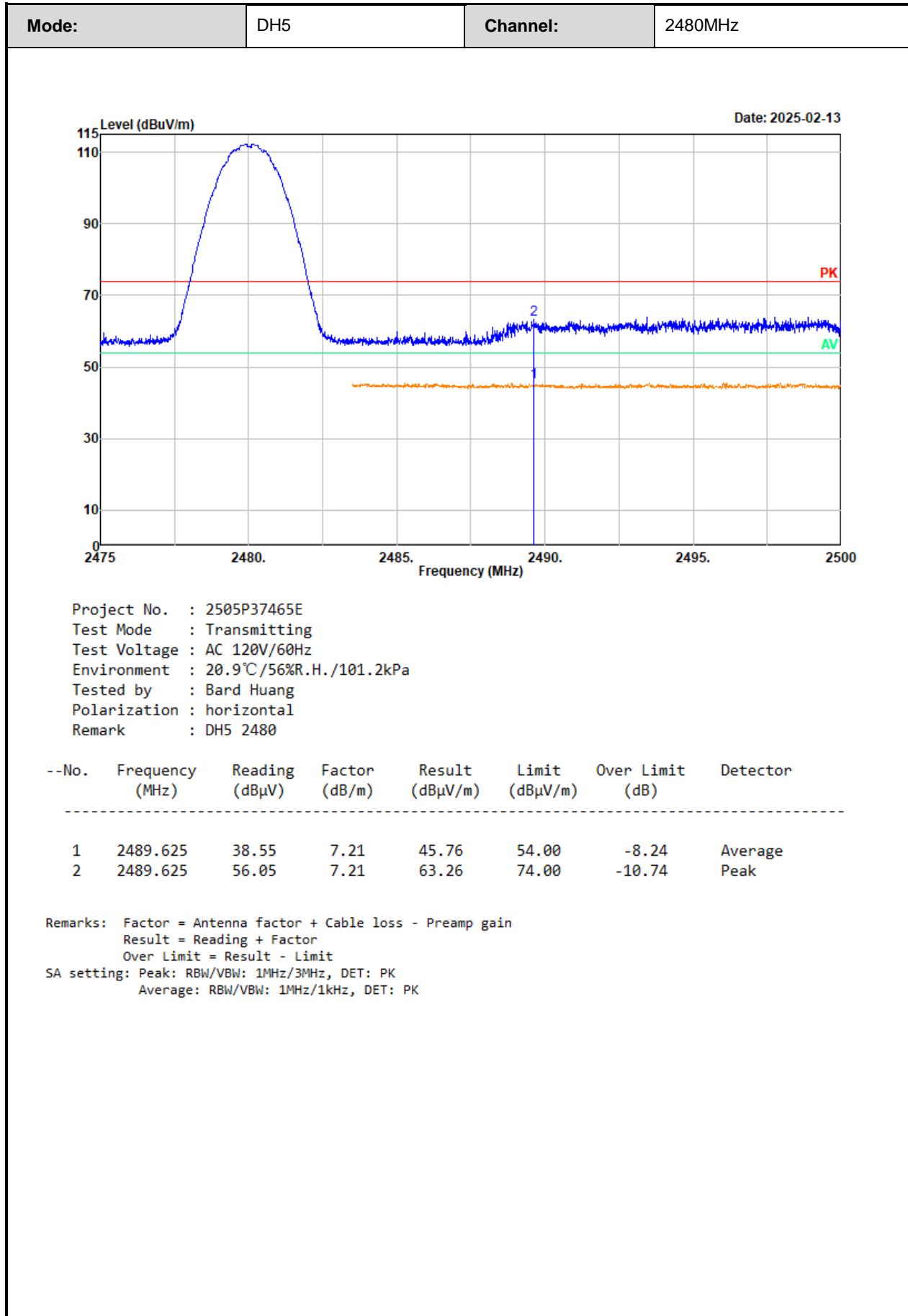


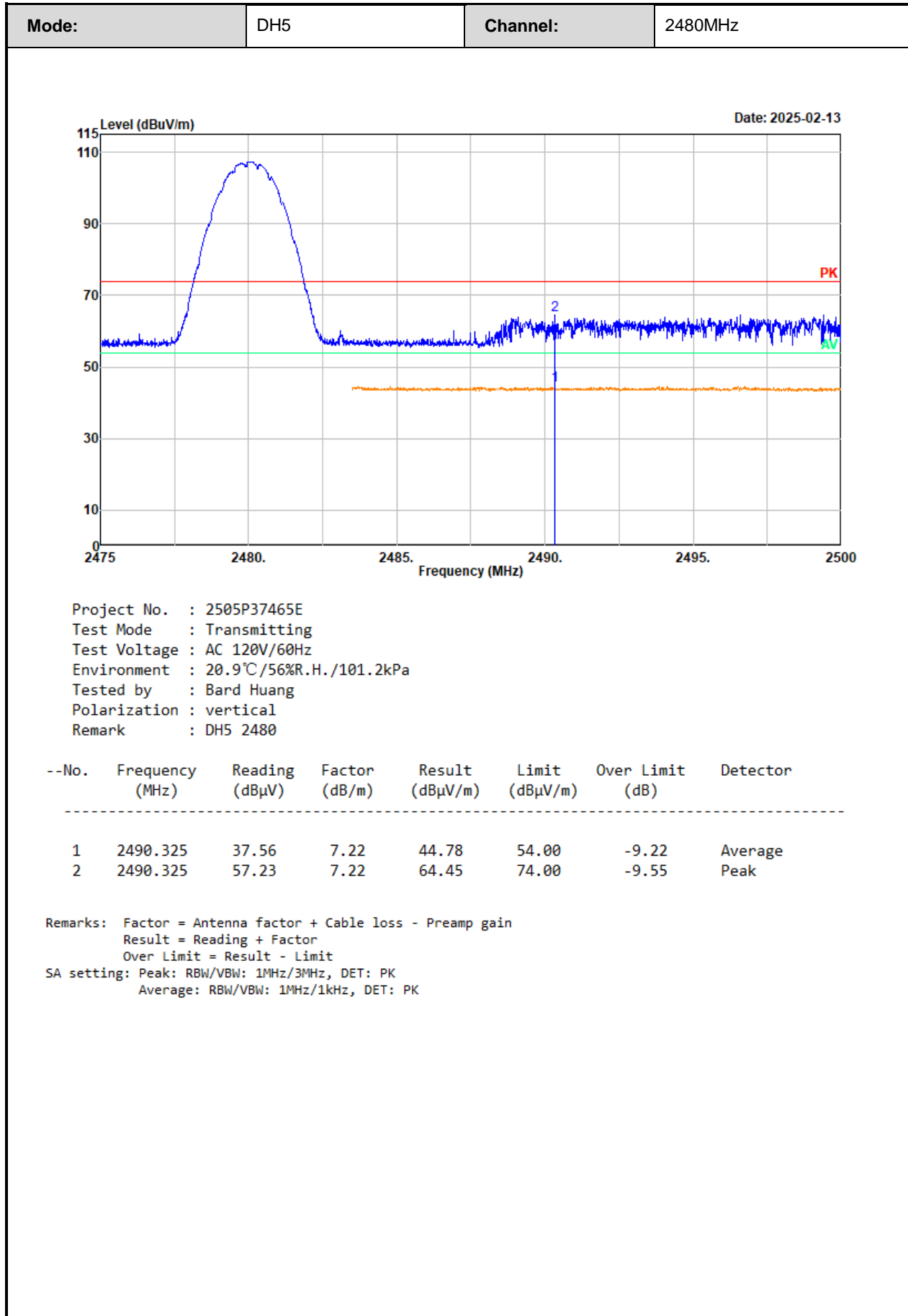


## Radiated Band edge

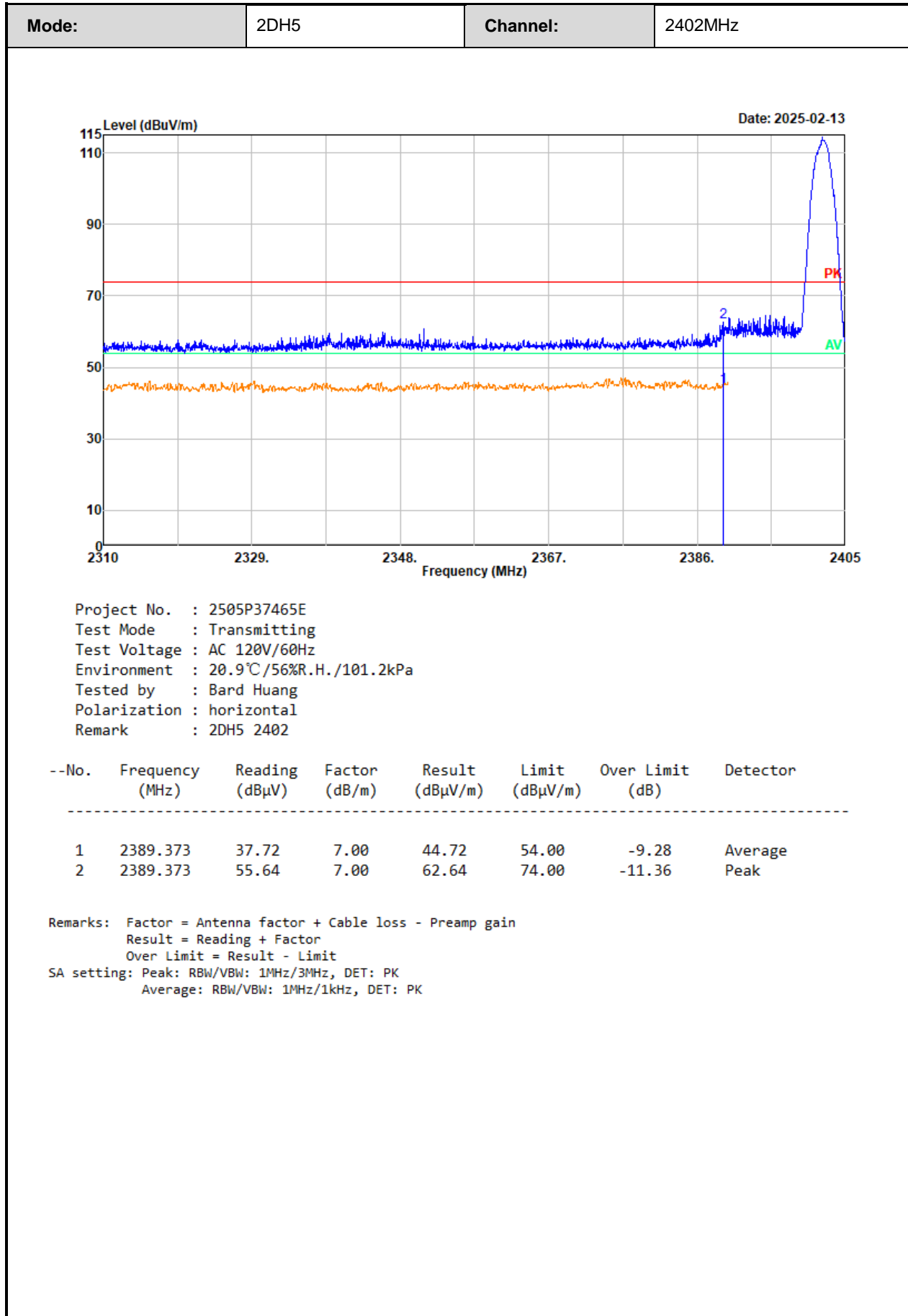


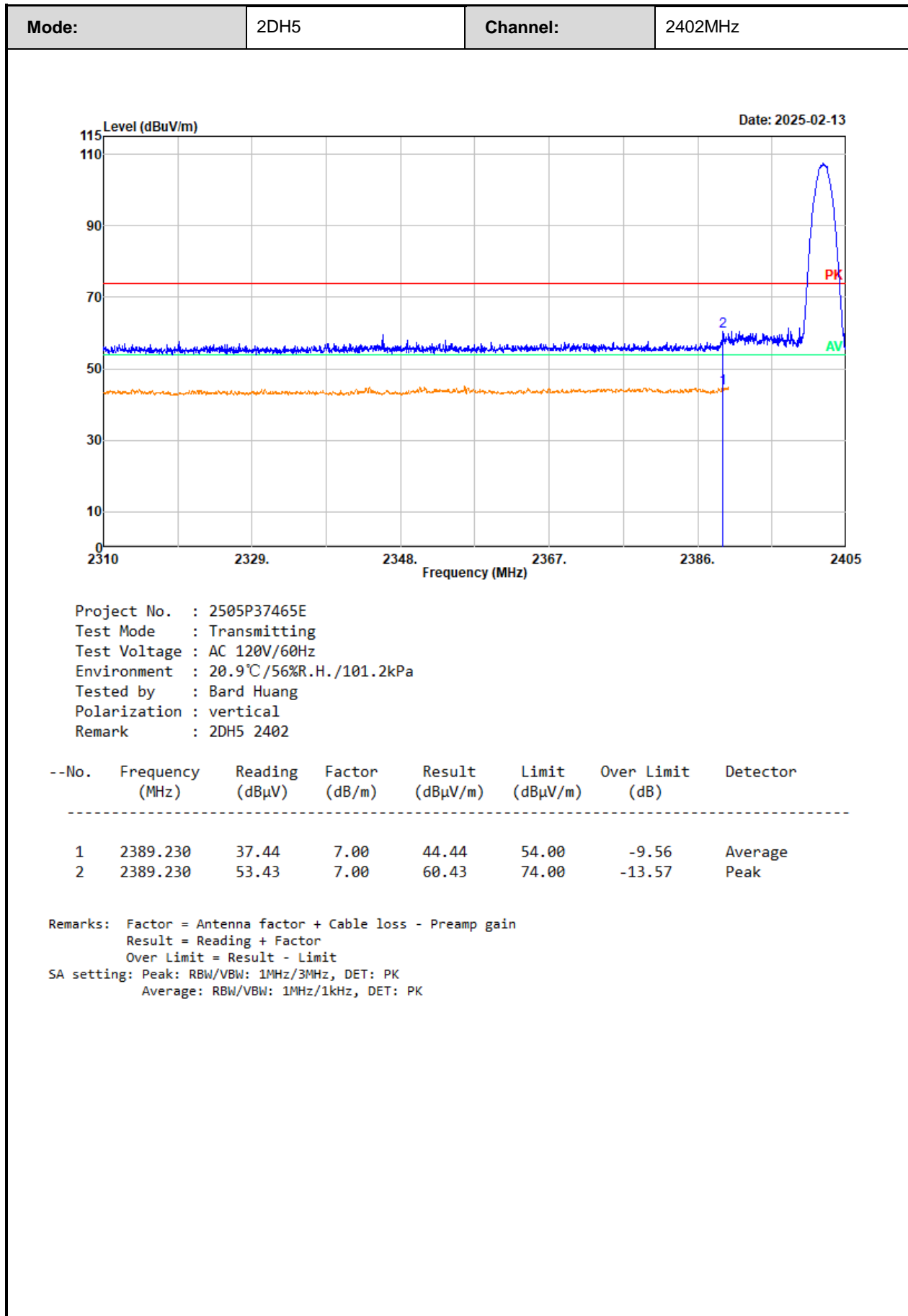


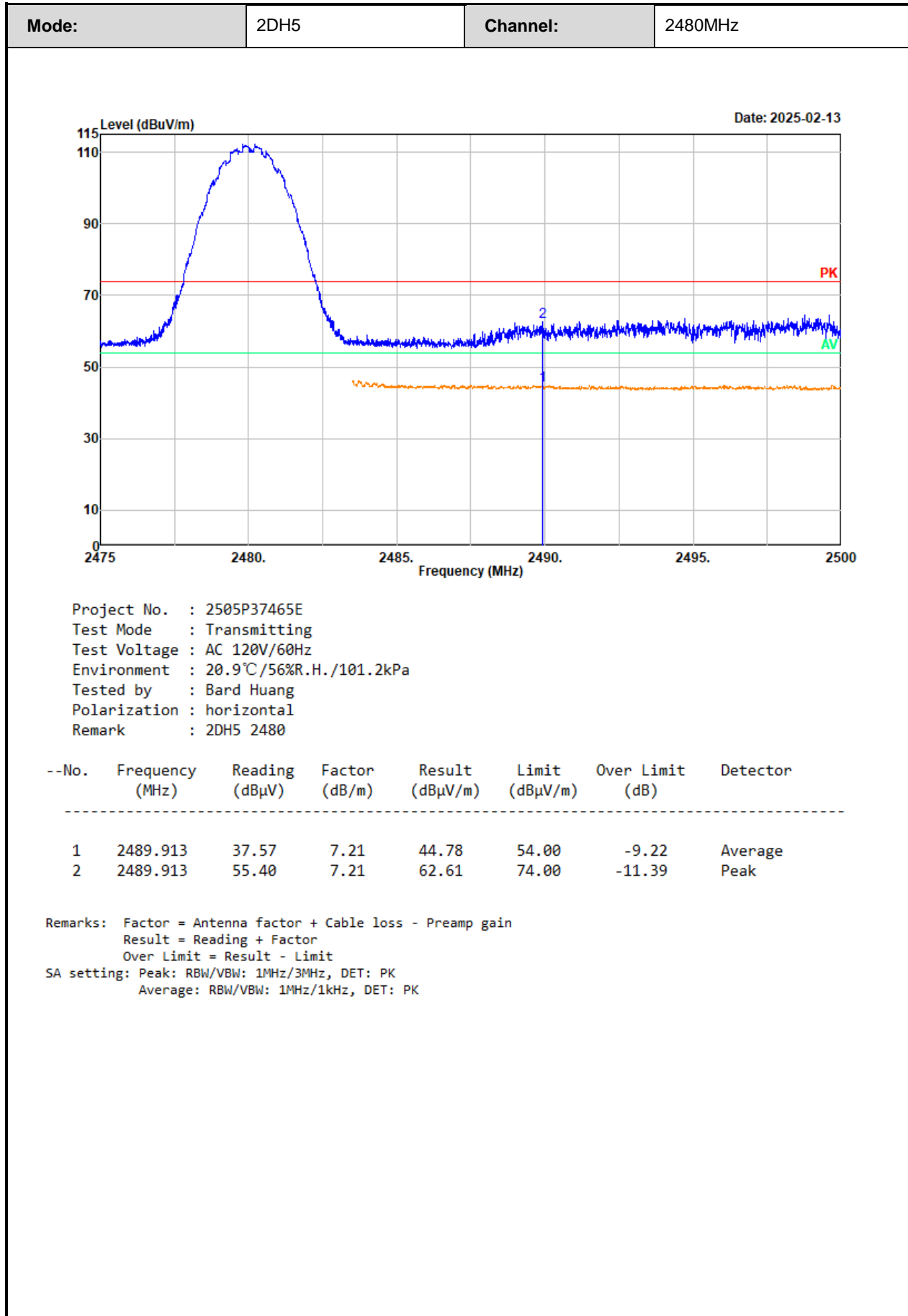


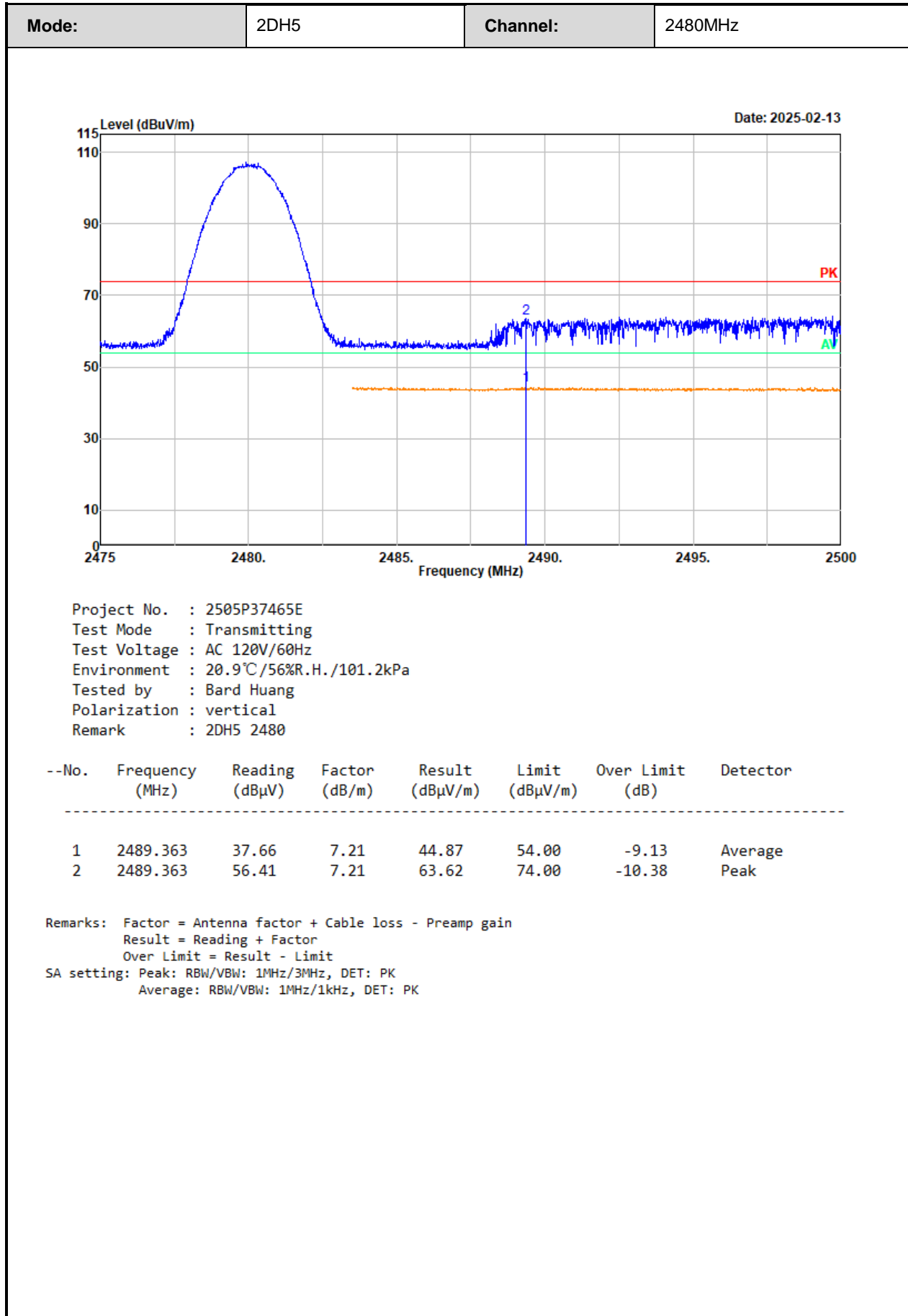


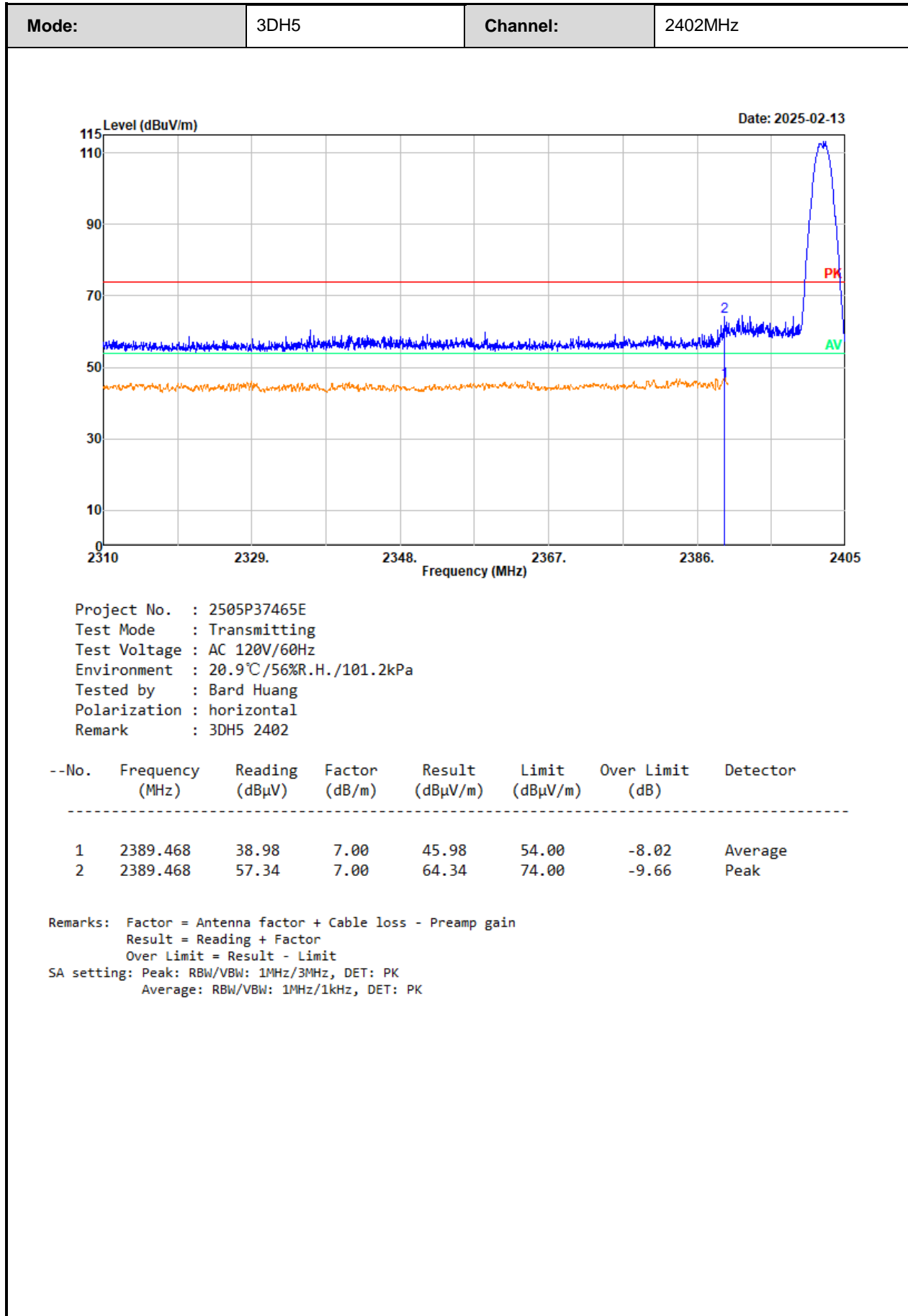


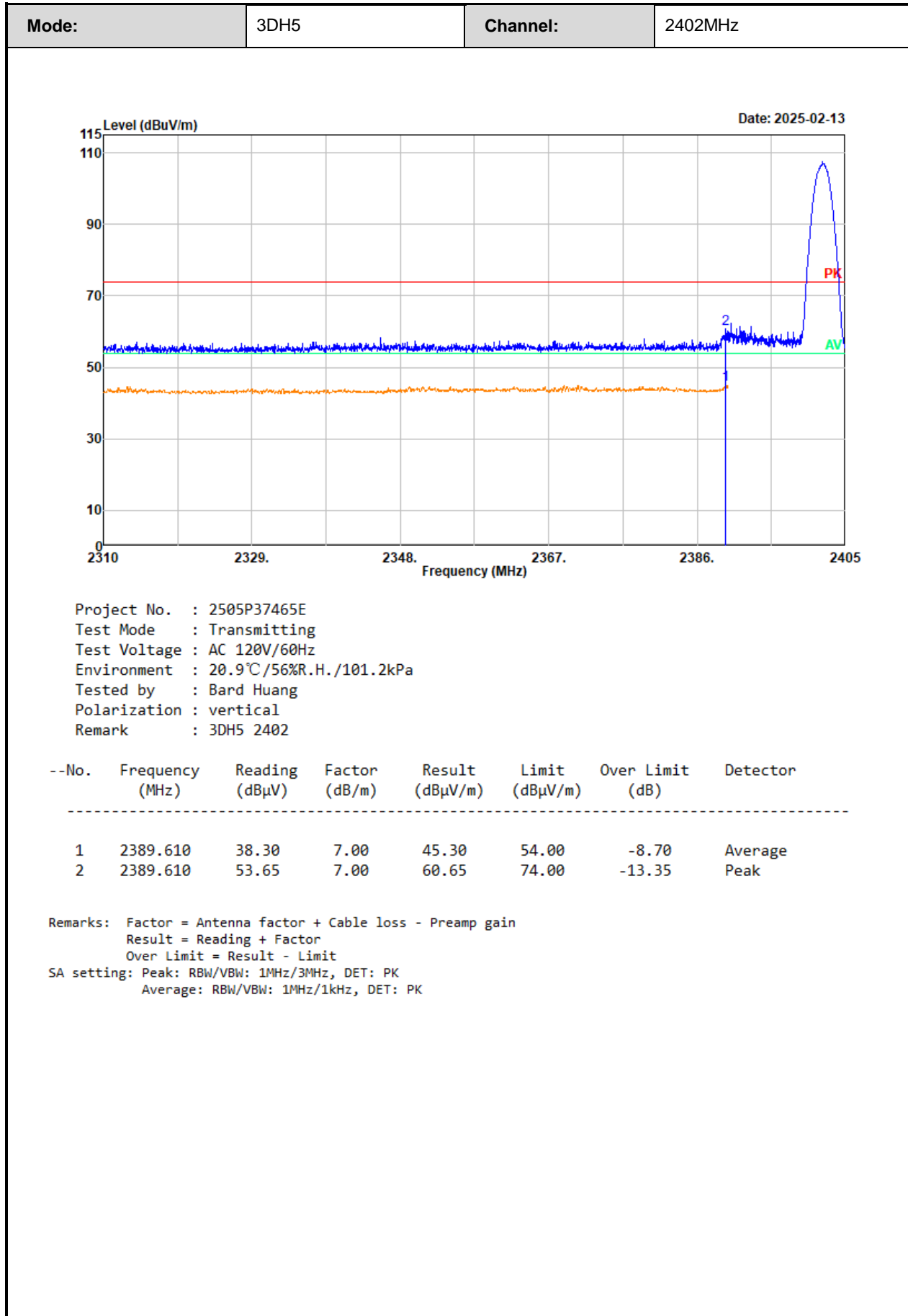


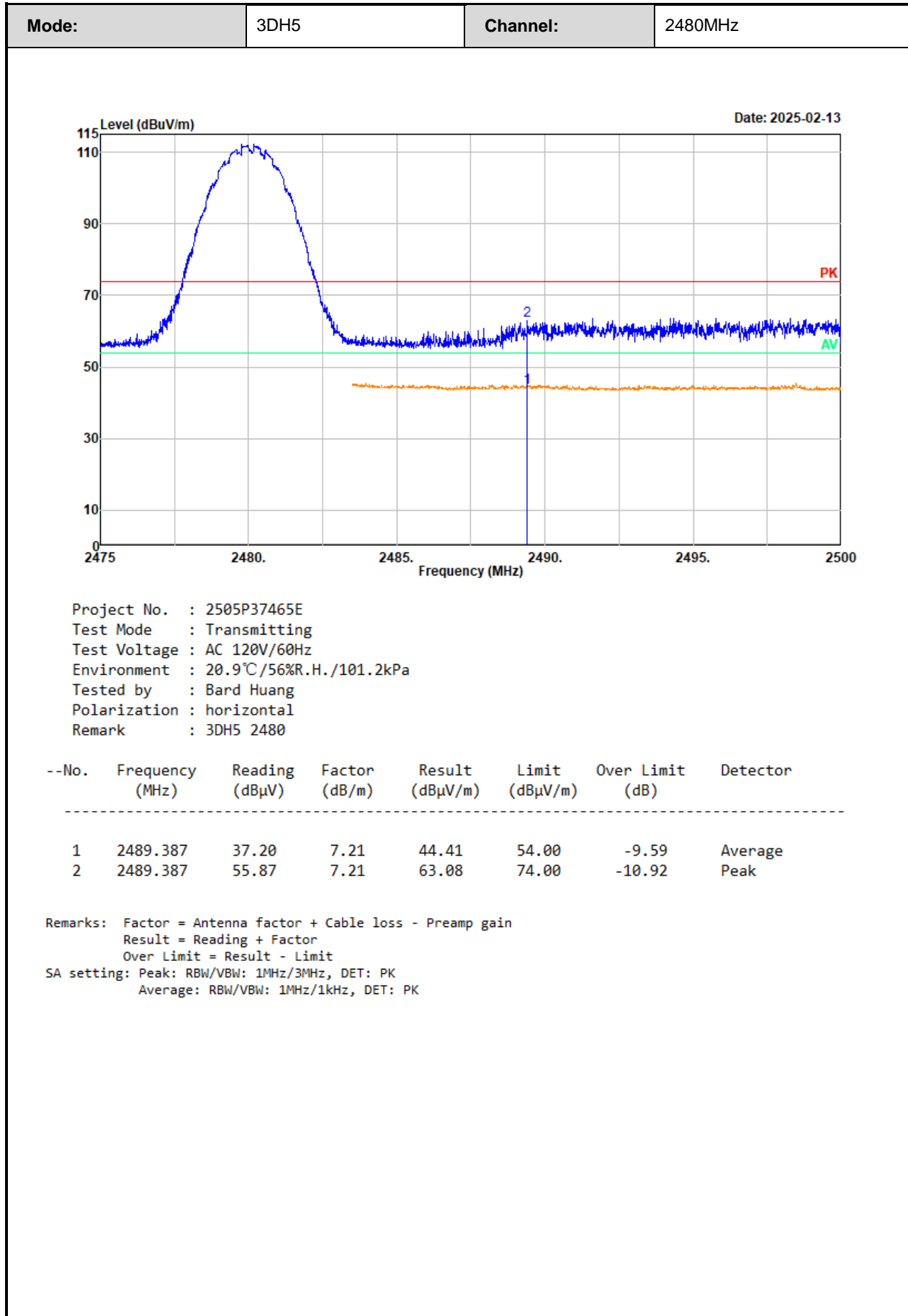


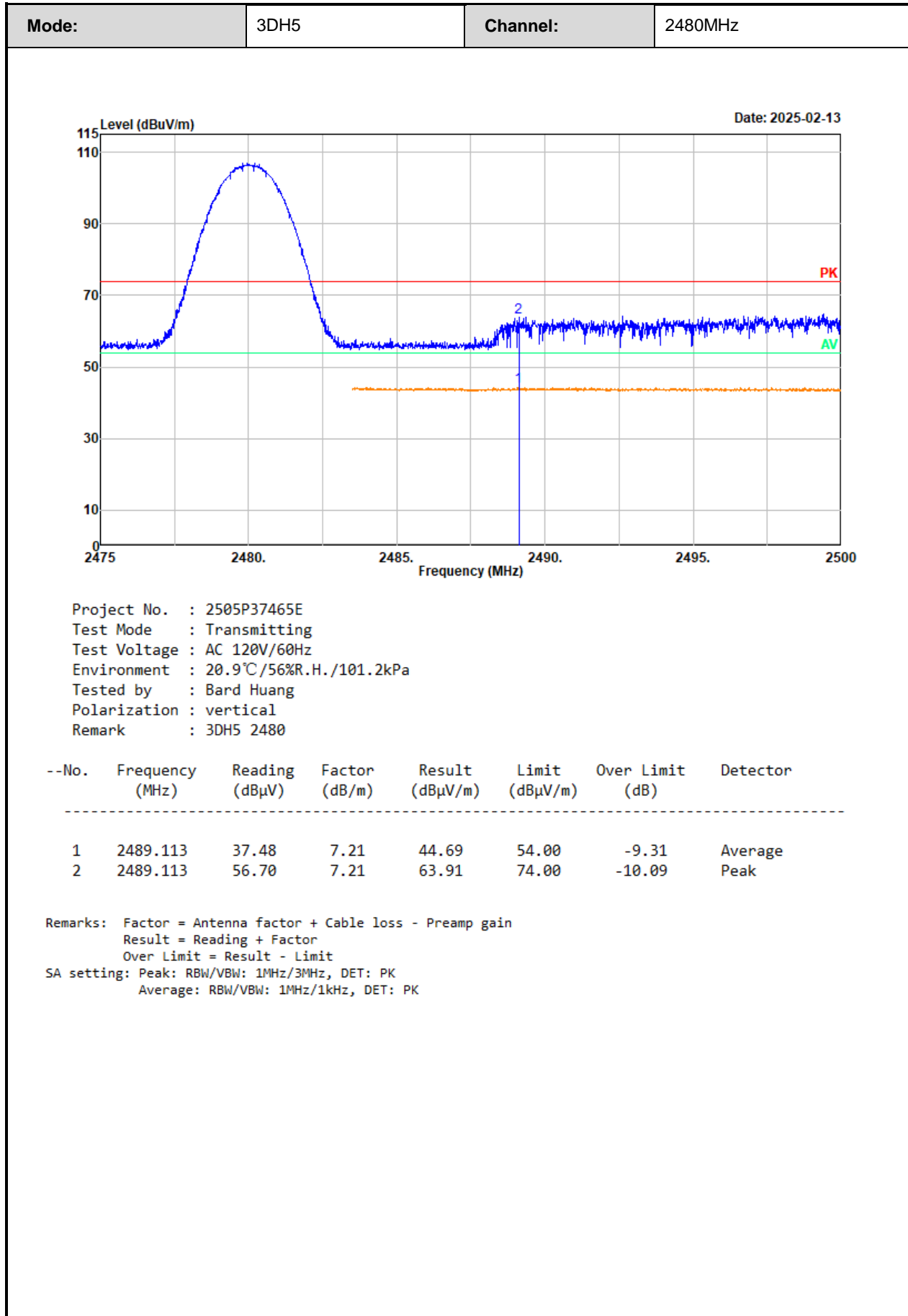














### 3.5 RF Conducted Test Data

<b>Test Date:</b>	2025-02-25~2025-03-05	<b>Test By:</b>	Ryan Zhang
<b>Environment condition:</b>	Temperature: 23.7~23.9°C;RelativeHumidity:51~57%; ATM Pressure: 100.4101.3kPa		

#### 3.5.1 20 dB Emission Bandwidth

Mode	Channel	Result (MHz)
DH1	Low	0.823
	Middle	0.829
	High	0.814
2DH1	Low	1.267
	Middle	1.267
	High	1.270
3DH1	Low	1.279
	Middle	1.276
	High	1.279

#### 3.5.2 99% Occupied Bandwidth

Mode	Channel	99% OBW (MHz)
DH1	Low	0.723
	Middle	0.726
	High	0.720
2DH1	Low	1.164
	Middle	1.161
	High	1.167
3DH1	Low	1.161
	Middle	1.164
	High	1.164

### 3.5.3 Maximum Conducted Peak Output Power

Mode	Channel	Result(dBm)			Limit (dBm)	Verdict
		Path 1	Path 2	Path 3		
DH1	Low	7.27	7.25	6.19	21.00	Pass
	Middle	7.08	7.09	5.76	21.00	Pass
	High	7.10	6.76	6.10	21.00	Pass
2DH1	Low	9.67	9.04	7.37	21.00	Pass
	Middle	9.37	8.77	7.50	21.00	Pass
	High	9.36	8.68	8.14	21.00	Pass
3DH1	Low	9.68	9.21	7.81	21.00	Pass
	Middle	9.71	9.27	8.09	21.00	Pass
	High	9.53	8.89	7.68	21.00	Pass

### 3.5.4 Channel separation

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
DH1	Low	0.999	0.853	Pass
	Middle	1.001	0.851	Pass
	High	1.001	0.853	Pass

Note: test only performed on BDR(GFSK) mode, as EDR( $\pi/4$  DQPSK, 8DPSK) mode has the same channel plan to the BDR mode.

### 3.5.5 Number of hopping Frequency

Mode	Channel	Result	Limit	Verdict
DH1	Hopping	79	15	Pass
2DH1	Hopping	79	15	Pass
3DH1	Hopping	79	15	Pass

### 3.5.6 Time of occupancy (dwell time)

Mode	Channel	Pulse width (ms)	Dwell time (s)	Limit (s)	Verdict
DH1	Hopping	0.379	0.121	0.400	Pass
DH3	Hopping	1.643	0.263	0.400	Pass
DH5	Hopping	2.903	0.310	0.400	Pass
2DH1	Hopping	0.394	0.126	0.400	Pass
2DH3	Hopping	1.646	0.263	0.400	Pass
2DH5	Hopping	2.908	0.310	0.400	Pass
3DH1	Hopping	0.395	0.126	0.400	Pass
3DH3	Hopping	1.646	0.263	0.400	Pass
3DH5	Hopping	2.903	0.310	0.400	Pass

**Note:**

DH1:Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

DH3:Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

DH5:Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

2DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

2DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

2DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

3DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

3DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

3DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

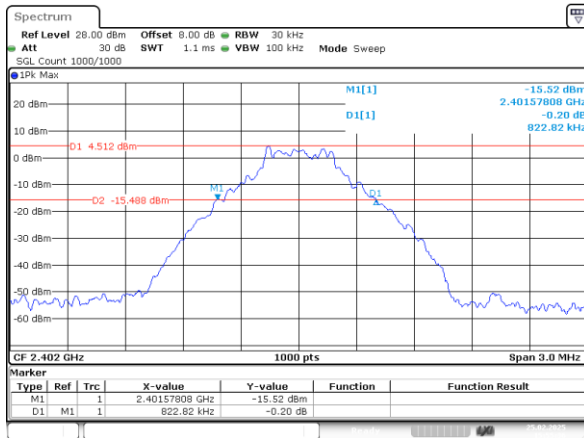
### 3.5.7 100 kHz Bandwidth of Frequency Band Edge

Mode	Channel	Result (dB)	Limit (dB)	Verdict
DH1	Low	51.95	20.00	Pass
	High	56.77	20.00	Pass
	Hopping_Lower	54.83	20.00	Pass
	Hopping_Upper	56.73	20.00	Pass
2DH1	Low	53.53	20.00	Pass
	High	56.92	20.00	Pass
	Hopping_Lower	52.15	20.00	Pass
	Hopping_Upper	56.86	20.00	Pass
3DH1	Low	52.16	20.00	Pass
	High	56.65	20.00	Pass
	Hopping_Lower	54.15	20.00	Pass
	Hopping_Upper	56.59	20.00	Pass

## Test Plots:

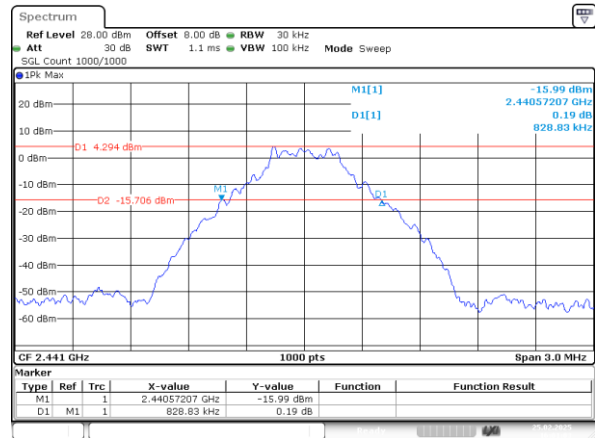
### 20 dB Emission Bandwidth:

DH1\_Low 0.823MHz



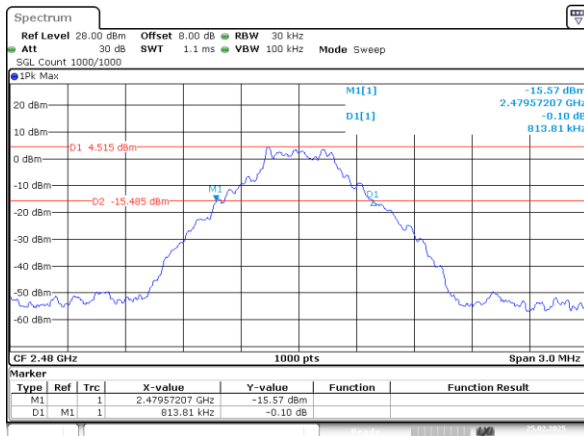
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 15:55:36

DH1\_Middle 0.829MHz



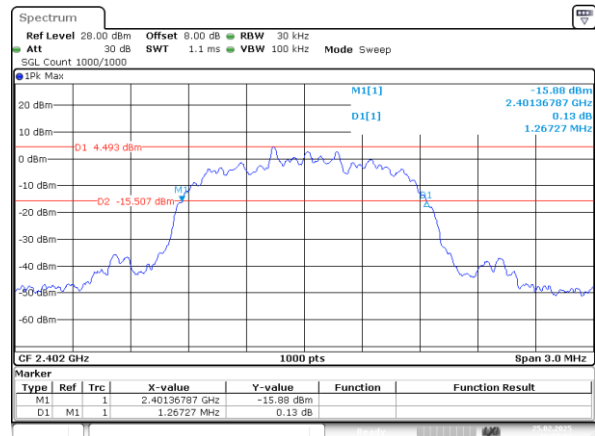
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:01:03

DH1\_High 0.814MHz



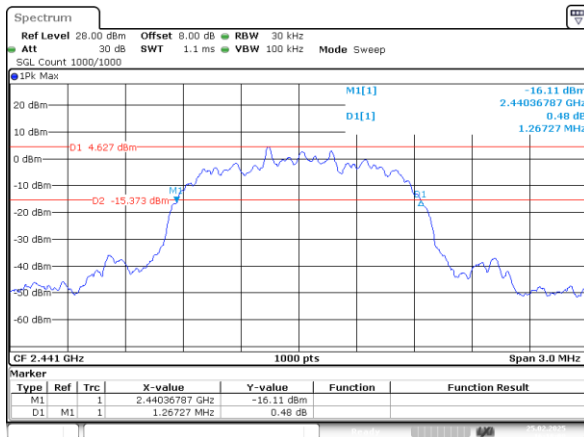
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:03:18

2DH1\_Low 1.267MHz



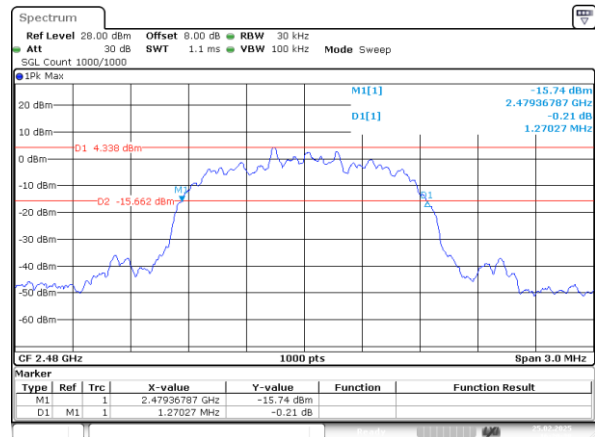
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:07:04

2DH1\_Middle 1.267MHz



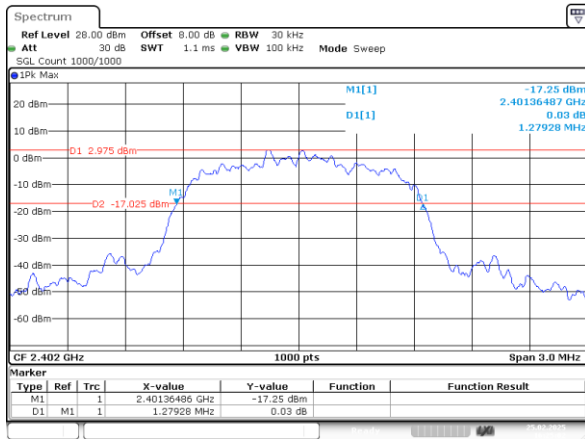
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:18:08

2DH1\_High 1.270MHz



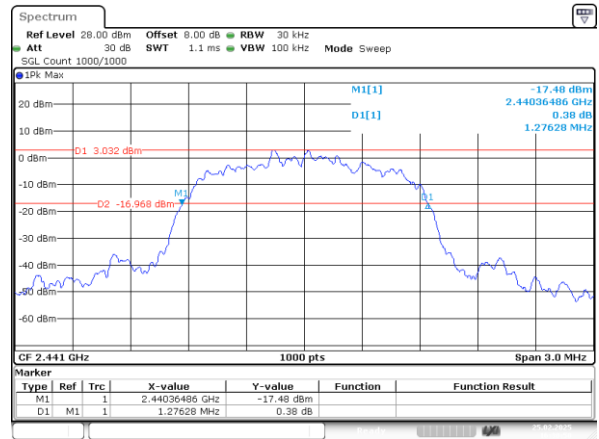
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:20:38

### 3DH1\_Low 1.279MHz



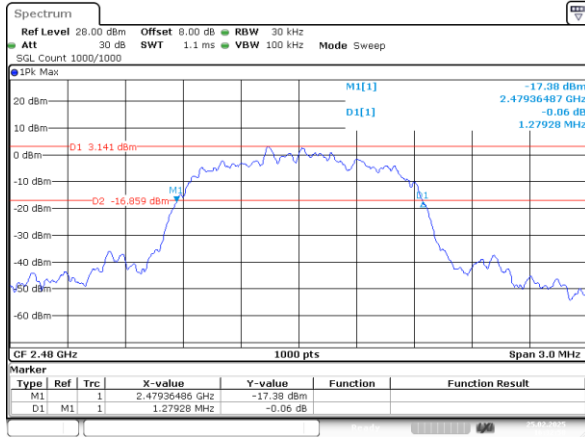
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:25:03

### 3DH1\_Middle 1.276MHz



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:30:50

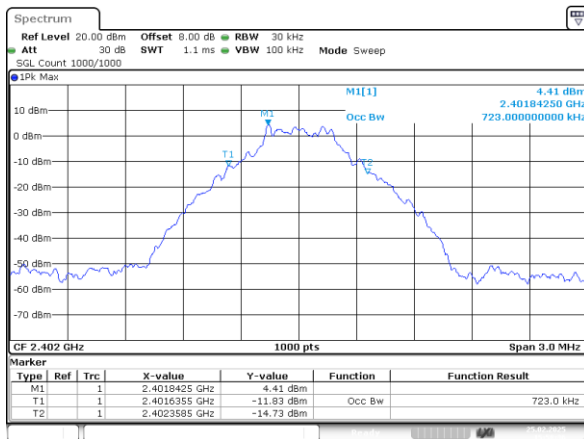
### 3DH1\_High 1.279MHz



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:32:58

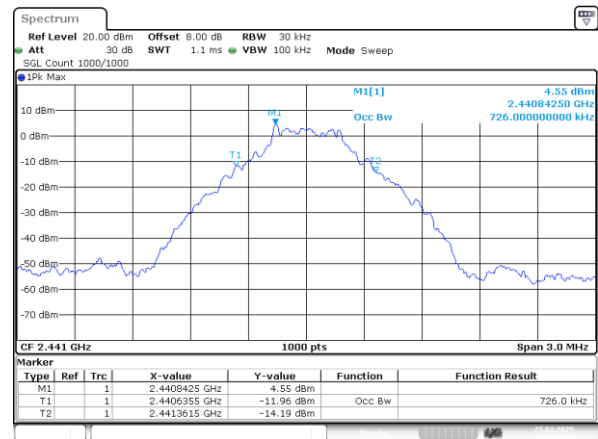
## 99% Occupied Bandwidth:

### DH1\_Low 0.723MHz



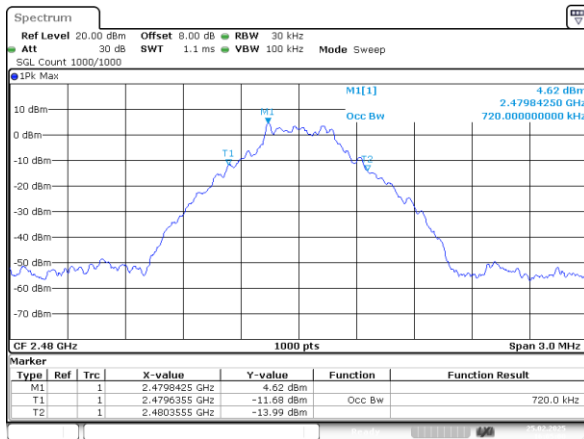
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 15:58:36

### DH1\_Middle 0.726MHz



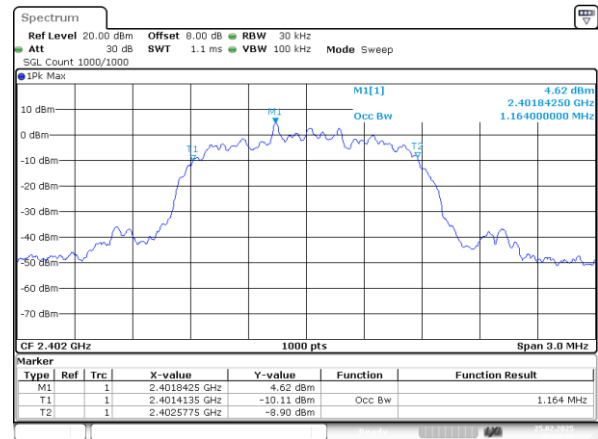
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:01:22

### DH1\_High 0.720MHz



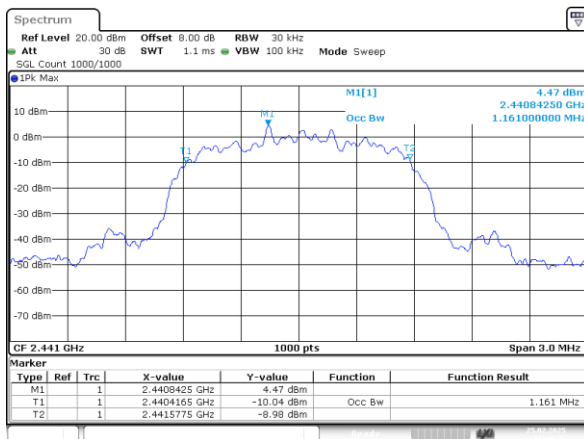
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:05:00

### 2DH1\_Low 1.164MHz



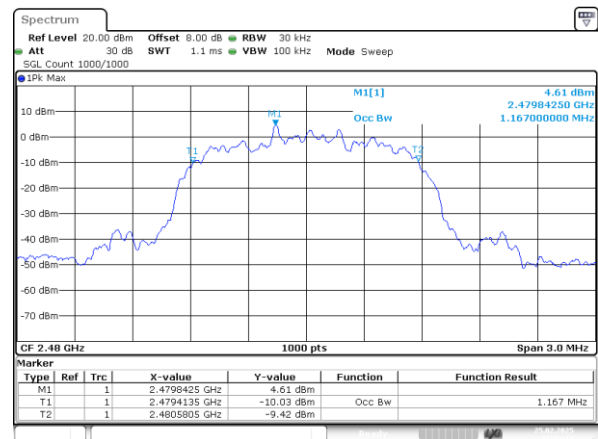
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:08:59

### 2DH1\_Middle 1.161MHz



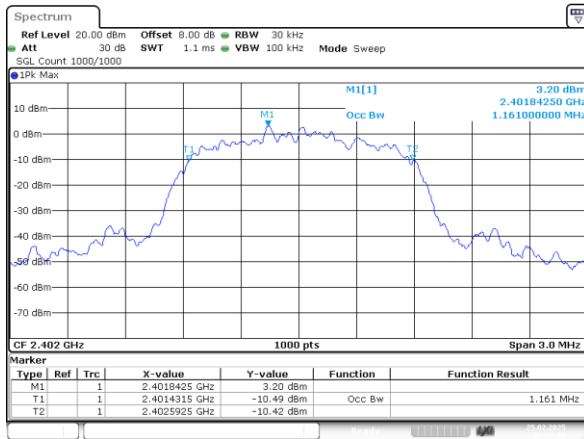
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:18:26

### 2DH1\_High 1.167MHz



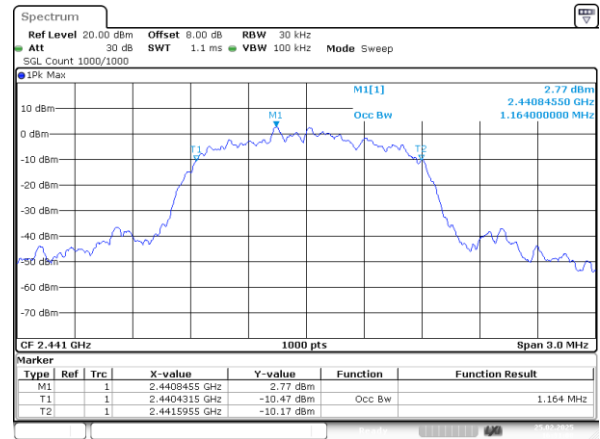
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:22:13

### 3DH1\_Low 1.161MHz



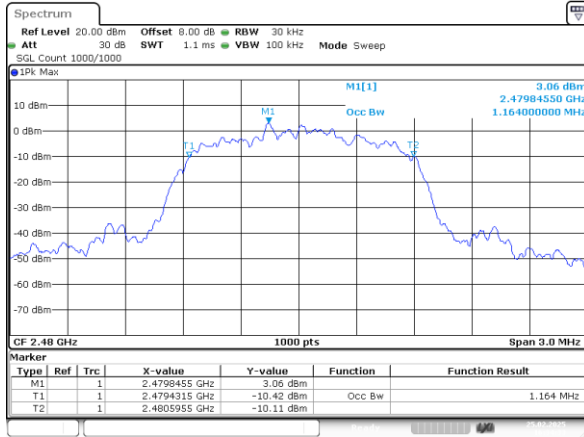
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:27:00

### 3DH1\_Middle 1.164MHz



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:31:09

### 3DH1\_High 1.164MHz

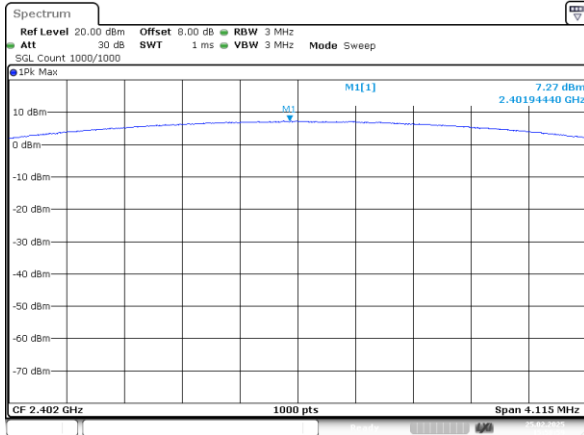


ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:34:33

## Maximum Conducted Peak Output Power:

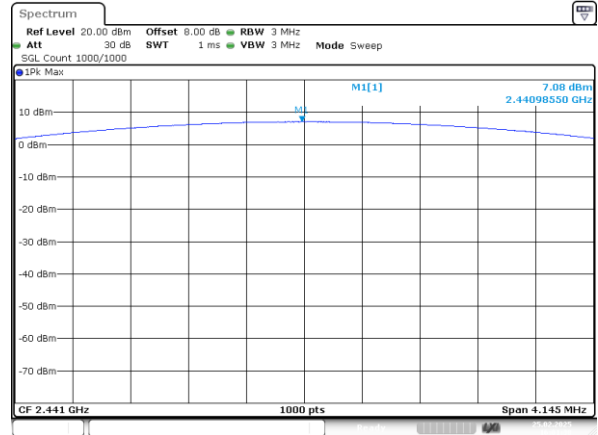
### Path 1:

DH1\_Low 7.27dBm



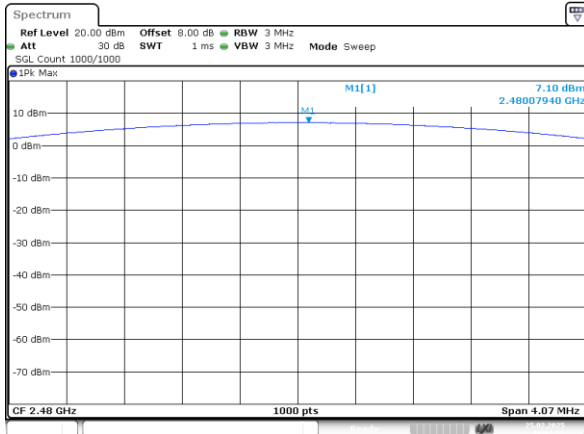
ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 15:58:59

DH1\_Middle 7.08dBm



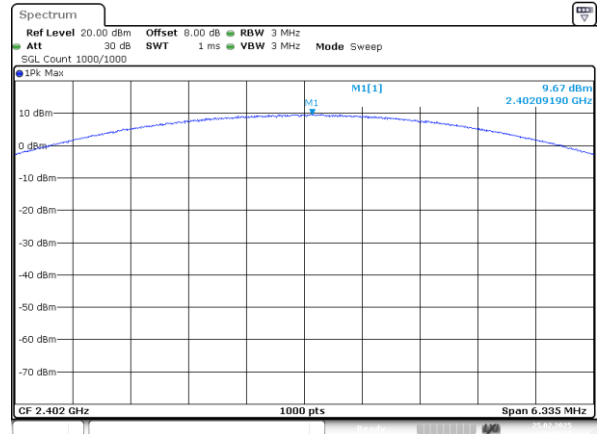
ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:01:38

DH1\_High 7.10dBm



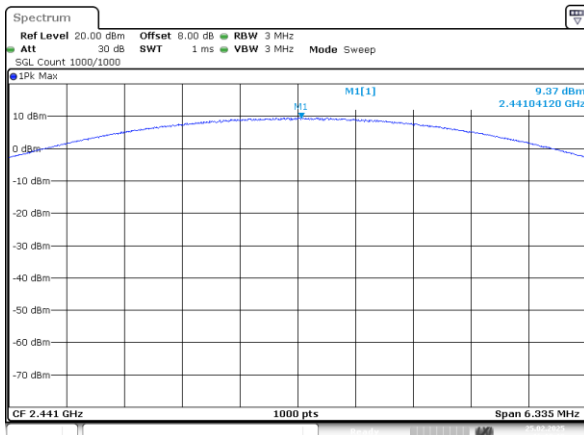
ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:05:16

2DH1\_Low 9.67dBm



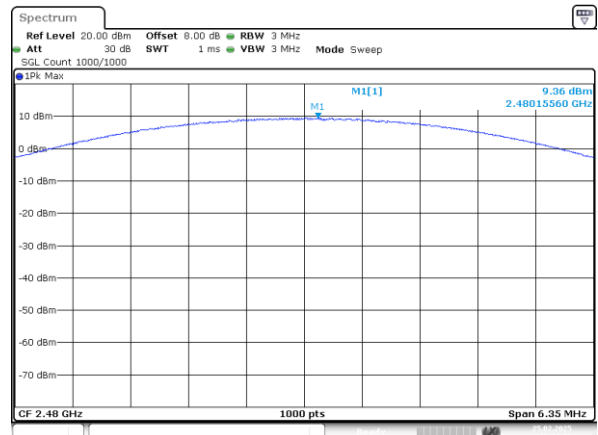
ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:09:15

2DH1\_Middle 9.37dBm



ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:19:18

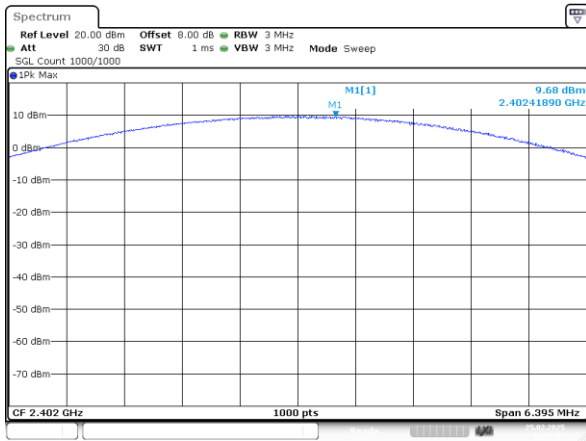
2DH1\_High 9.36dBm



ProjectNo.:2505P37465B-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:22:29

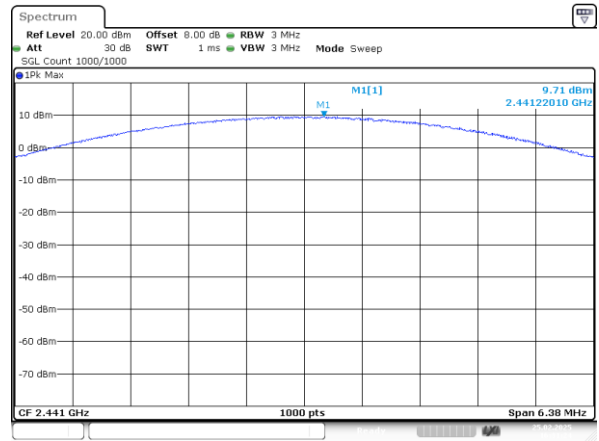


3DH1\_Low 9.68dBm



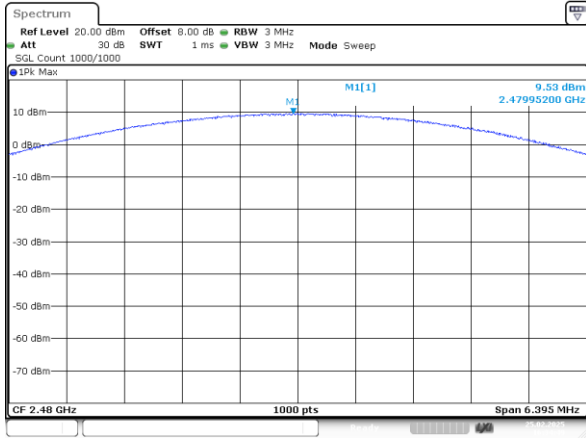
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:29:07

3DH1\_Middle 9.71dBm



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:31:24

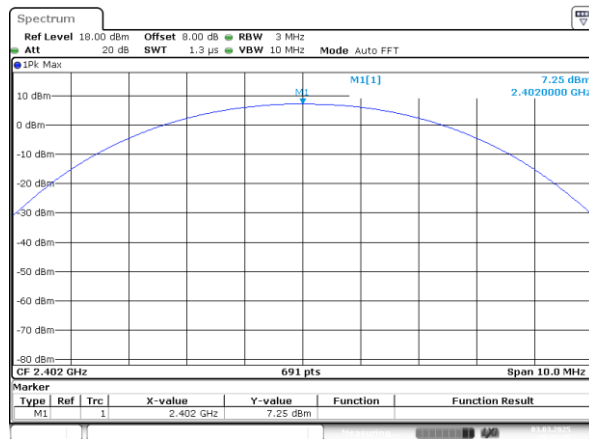
3DH1\_High 9.53dBm



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 25.FEB.2025 16:34:49

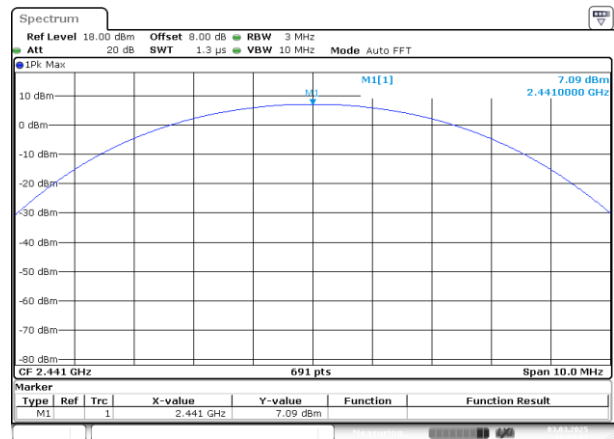
**Path 2:**

**DH1\_Low 7.25dBm**



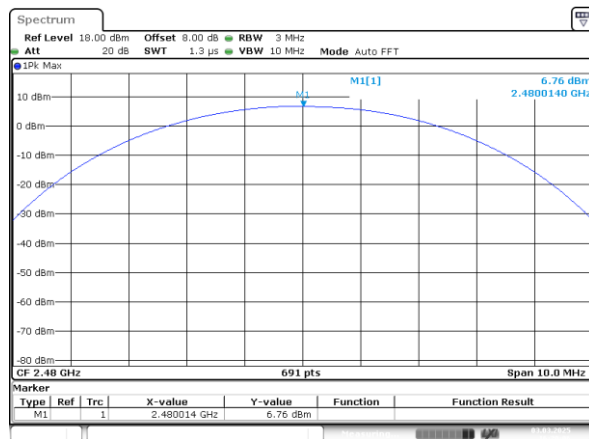
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:25:26

**DH1\_Middle 7.09dBm**



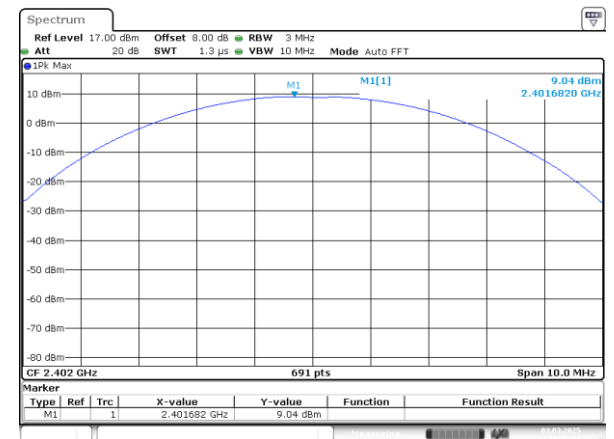
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:24:05

**DH1\_High 6.76dBm**



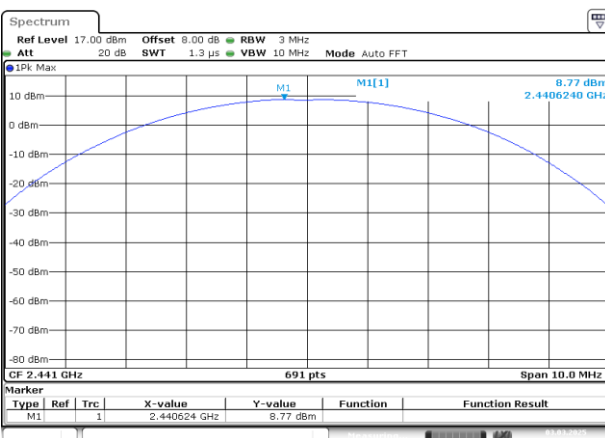
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:20:05

**2DH1\_Low 9.04dBm**



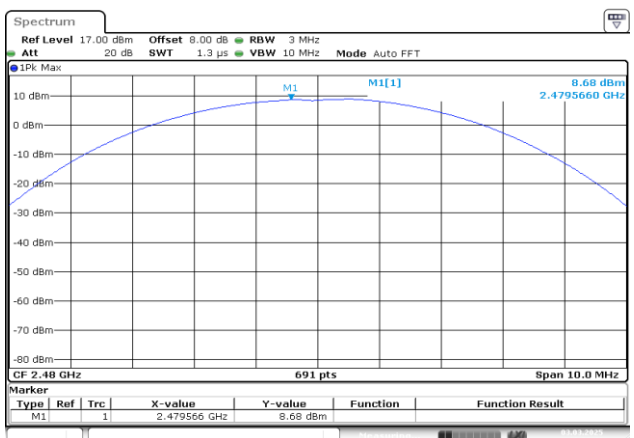
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:26:30

**2DH1\_Middle 8.77dBm**



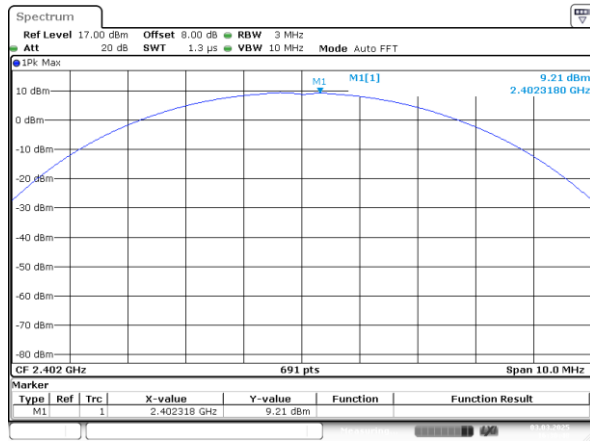
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:27:29

**2DH1\_High 8.68dBm**



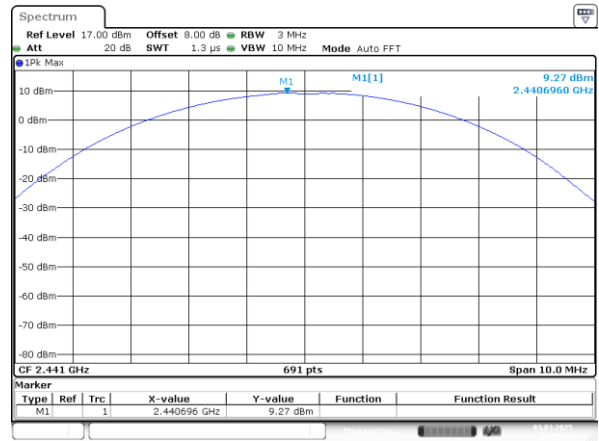
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:28:47

3DH1\_Low 9.21dBm



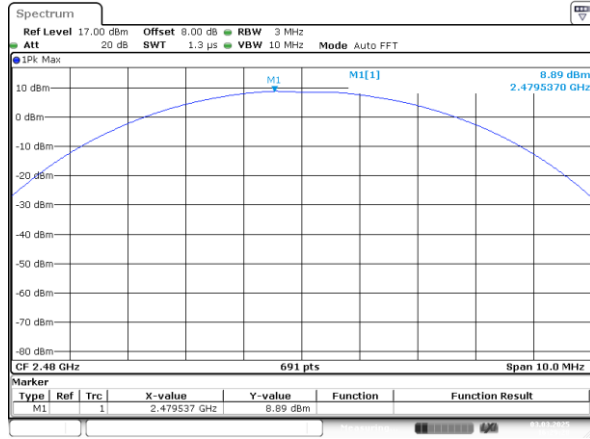
ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:30:49

3DH1\_Middle 9.27dBm



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:30:08

3DH1\_High 8.89dBm



ProjectNo.:2505P37465E-RF Tester:Ryan Zhang  
Date: 3.MAR.2025 16:29:28