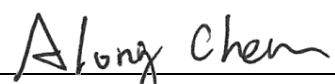


FCC Test Report

FCC ID : ZMYGPT-2841GX2X2
Equipment : Router WiFi 6 PLUS
Router FO HGU Dual Band 2.4 y 5Ghz
Model No. : GPT-2841GX2X2v10
(Please refer to section 1.1.1 for more details)
Brand Name : MitraStar
Applicant : MitraStar Technology Corporation
Address : No. 6, Innovation Rd II, Science-Based
Industrial, Hsin-Chu, Taiwan
Standard : 47 CFR FCC Part 15.247
Received Date : May 26, 2025
Tested Date : Jun. 10 ~ Jun. 23, 2025

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

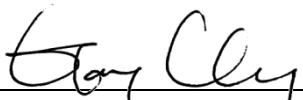

Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	8
1.3	Test Setup Chart	8
1.4	The Equipment List	9
1.5	Test Standards	10
1.6	Reference Guidance	10
1.7	Deviation from Test Standard and Measurement Procedure.....	10
1.8	Measurement Uncertainty	11
2	TEST CONFIGURATION.....	12
2.1	Testing Facility	12
2.2	The Worst Test Modes and Channel Details	12
3	TRANSMITTER TEST RESULTS	13
3.1	6dB and Occupied Bandwidth.....	13
3.2	Conducted Output Power	14
3.3	Power Spectral Density	15
3.4	Unwanted Emissions into Restricted Frequency Bands	16
3.5	Emissions in Non-Restricted Frequency Bands.....	18
3.6	AC Power Line Conducted Emissions	19
4	TEST LABORATORY INFORMATION	20

Appendix A. 6dB and Occupied Bandwidth

Appendix B. Conducted Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions into Restricted Frequency Bands

Appendix E. Emissions in Non-Restricted Frequency Bands

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR552603AC	Rev. 01	Initial issue	Jul. 24, 2025

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.369MHz 34.30 (Margin -14.22dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 2.39GHz 53.89 (Margin -0.11dB) - AV	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 26.16 Beamforming mode 21.24	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
MitraStar	GPT-2841GX2X2v10 GPT-2841GX2X2****	Router WiFi 6 PLUS Router FO HGU Dual Band 2.4 y 5Ghz	The denote of "*" in model number as 0-9, A-Z, a-z, -, blank, dot, etc. The variation of model number is for strategy of marketing. The circuit of each model is identical.

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15
2400-2483.5	ac (VHT20)	2412-2462	1-11 [11]	2	MCS 0-9
2400-2483.5	ac (VHT40)	2422-2452	3-9 [7]	2	MCS 0-9
2400-2483.5	ax (HE20)	2412-2462	1-11 [11]	2	MCS 0-11
2400-2483.5	ax (HE40)	2422-2452	3-9 [7]	2	MCS 0-11
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.					
Note 2: DSSS-DBPSK, DQPSK, CCK modulation OFDM - BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	56-001-000714Z	Dipole	UFL	4.89	---	---	---	---
2	56-001-000715Z	Dipole	UFL	4.78	---	---	---	---
3	56-001-000716Z	Dipole	UFL	---	4.77	4.61	4.36	5.11
4	56-001-000717Z	Dipole	UFL	---	5.03	4.54	4.92	5.35

1.1.4 Configuration of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter	
HW Version	1.0	
FW/SW Version	GL_g0.0_100AVR0b3	
SN	443B14B15598	
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: AMC Model: AD-D2181200150US01 I/P: 100-240Vac, 50/60Hz, 0.6A O/P: 12V=1.5V Power Line: 1.5m non-shielded without core
2	AC adapter	Brand: KELI Model: KL-WA120150-M I/P: 100-240Vac, 50/60Hz, 0.7A O/P: 12V=1.5V Power Line: 1.5m non-shielded without core
3	Ethernet Cable_RJ45	1.5m non-shielded without core

1.1.6 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20 / ac VHT20 / ax HE20 /		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	Putty, Version: v0.78		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	98.67%	0.06
	11g	92.99%	0.32
	ax HE20	90.98%	0.41
	ax HE40	58.65%	2.32

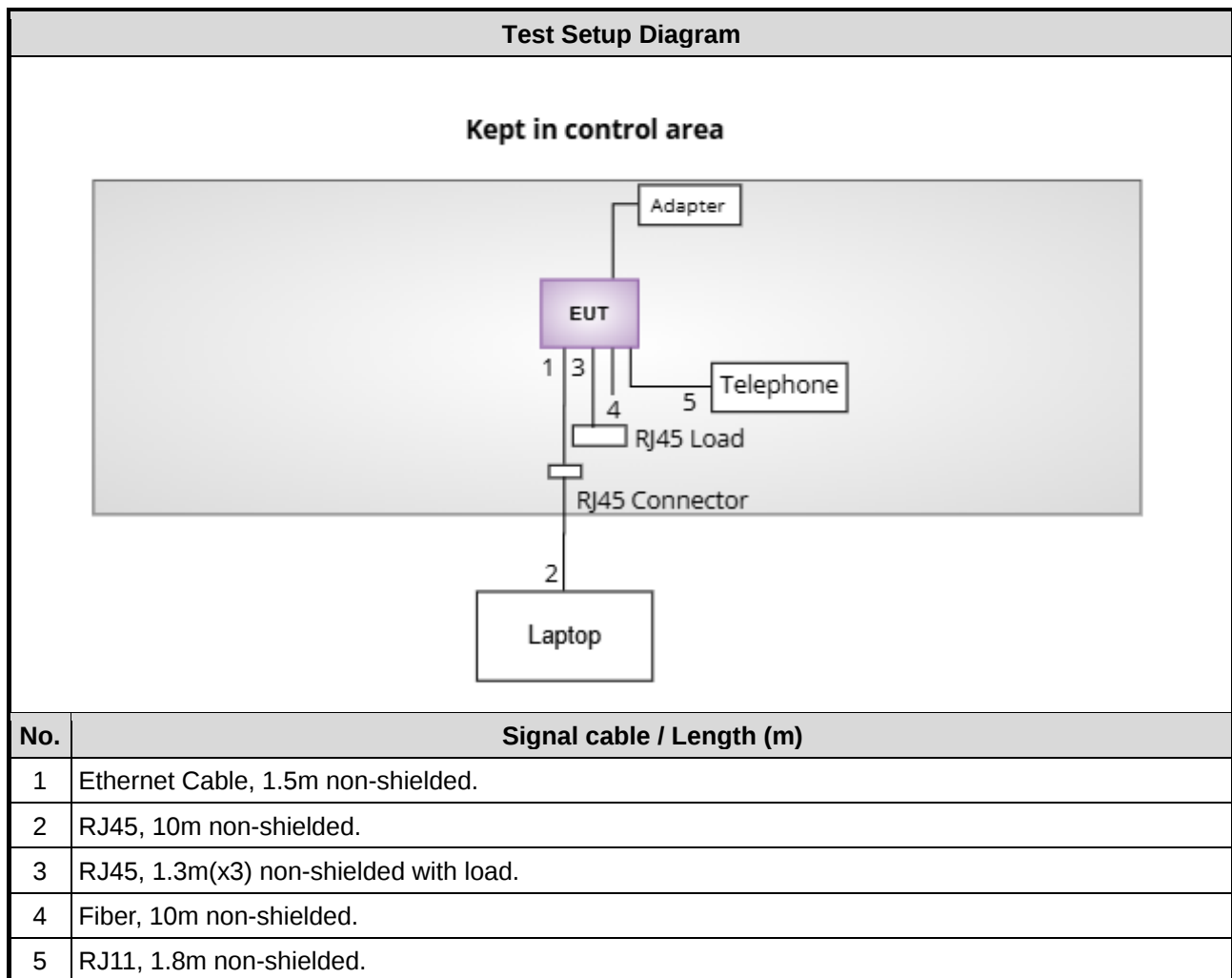
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	2200
11b	2417	2250
11b	2437	2300
11b	2462	2300
11g	2412	1850
11g	2417	2050
11g	2422	2250
11g	2437	2300
11g	2457	2250
11g	2462	2000
ax HE20	2412	1750
ax HE20	2417	2100
ax HE20	2422	2200
ax HE20	2437	2200
ax HE20	2457	2200
ax HE20	2462	1950
ax HE40	2422	1600
ax HE40	2427	1700
ax HE40	2432	1800
ax HE40	2437	2000
ax HE40	2447	2000
ax HE40	2452	1900

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5440	DoC	---
2	Telephone	HTT	HTT-806	---	---
3	RJ45 Load	ICC	--	---	---
4	RJ45 Connector	ICC	RJ45 Connector	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 10 ~ Jun. 13, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 12, 2024	Nov. 11, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 05, 2024	Nov. 04, 2025
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 09, 2024	Aug. 08, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 28, 2024	Nov. 27, 2025
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 18, 2024	Nov. 17, 2025
Preamplifier	EMC	EMC02325	980225	Jun. 17, 2024	Jun. 16, 2025
Preamplifier	EMC	EMC118A45SE	980898	Jul. 05, 2024	Jul. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 02, 2024	Oct. 01, 2025
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 02, 2024	Oct. 01, 2025
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 02, 2024	Oct. 01, 2025
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 02, 2024	Oct. 01, 2025
Attenuator	Pasternack	PE7005-10	10-1	Oct. 02, 2024	Oct. 01, 2025
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 02, 2024	Oct. 01, 2025
Measurement Software	Sporton	SENSE-EMI	V5.11	NA	NA
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jun. 23, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2025	Apr. 17, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 26, 2024	Nov. 25, 2025
Power Sensor	Anritsu	MA2411B	1207366	Nov. 26, 2024	Nov. 25, 2025
Attenuator	Pasternack	PE7005-10	10-2	Oct. 04, 2024	Oct. 03, 2025
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 19, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 25, 2025	Feb. 24, 2026
LISN	R&S	ENV216	101579	May. 07, 2025	May. 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Oct. 09, 2024	Oct. 08, 2025
50 ohm terminal	NA	50	03	Aug. 07, 2024	Aug. 06, 2025
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2020

ANSI C63.4-2014 + C63.4a-2017

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emission	11b	2462	1 Mbps	---
Unwanted Emissions ≤ 1GHz	11b	2462	1 Mbps	---
Conducted Output Power	11b	2412 / 2417 / 2437 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	---
	11g	2412 / 2417 / 2422 / 2437 / 2457 / 2462		
	ax HE20	2412 / 2417 / 2422 / 2437 / 2457 / 2462		
	ax HE40	2422 / 2427 / 2432 / 2437 / 2447 / 2452		
Unwanted Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	---
6dB bandwidth	11g	2412 / 2437 / 2462	6 Mbps	
Power spectral density	ax HE20	2412 / 2437 / 2462	MCS 0	
	ax HE40	2422 / 2437 / 2452	MCS 0	
Beamforming mode				
Conducted Output Power	ax HE20	2412 / 2417 / 2422 / 2437 / 2457 / 2462	MCS 0 MCS 0	---
	ax HE40	2422 / 2427 / 2432 / 2437 / 2447 / 2452		
NOTE:				
1. Two adapters (AMC and KELI) had been covered during the pretest, and found that AMC adapter was the worst case of AC Power line conducted emission test item and KELI adapter was the worst case of Radiated Spurious emission test item.				

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

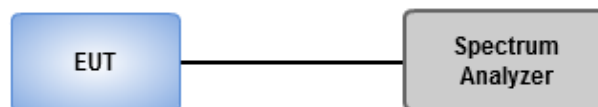
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = No faster than coupled (auto) time, Allow the trace to stabilize.
4. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
-------------------	------------	-----------	----------

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

Antenna gain $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
-------------------	------------	-----------	----------

Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

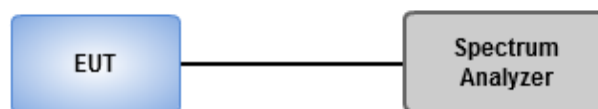
Average PSD, duty cycle $\geq 98\%$

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle $< 98\%$

1. Set the RBW = 3 kHz, VBW = 10 kHz
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.
6. Add $10 \log (1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
-------------------	------------	-----------	----------

Refer to Appendix C.

3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

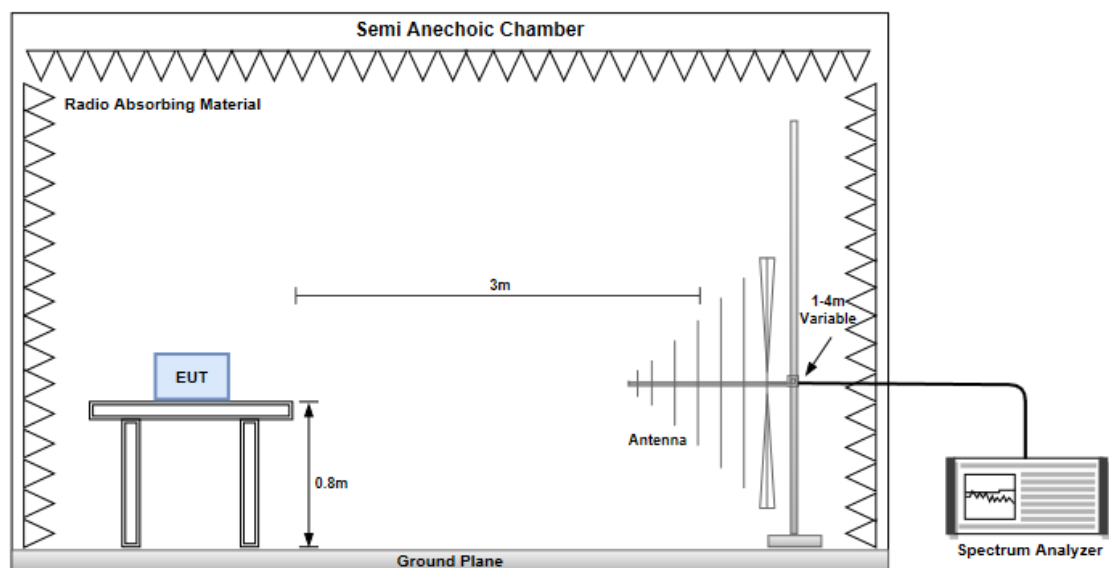
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

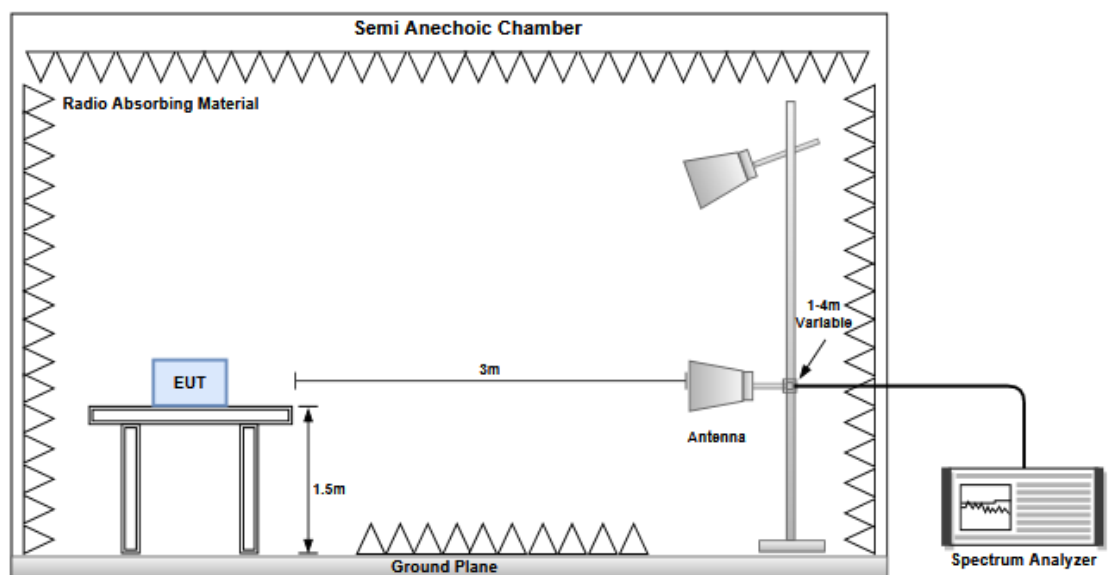
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Ambient Condition	23-26°C / 62-66%	Tested By	Brad Wu / Allen Lee
-------------------	------------------	-----------	---------------------

Refer to Appendix D.

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

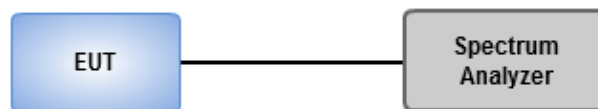
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
-------------------	------------	-----------	----------

Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

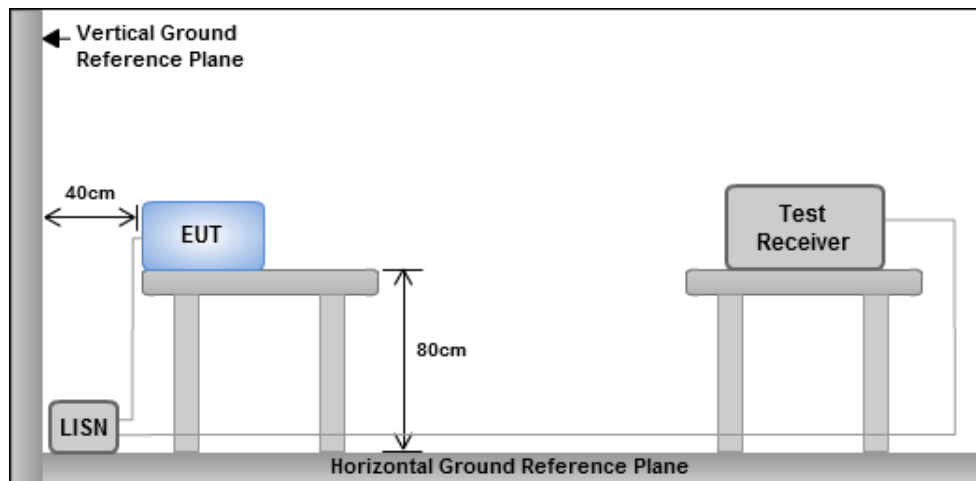
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.175M	13.991M	14M0G1D	10.15M	13.955M
802.11g_Nss1,(6Mbps)_2TX	15.7M	16.278M	16M3D1D	15.5M	16.172M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.05M	18.701M	18M7D1D	17.675M	18.675M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.15M	37.232M	37M2D1D	35.275M	37.126M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.15M	13.964M	10.175M	13.958M
2437MHz	Pass	500k	10.175M	13.985M	10.175M	13.955M
2462MHz	Pass	500k	10.175M	13.991M	10.175M	13.955M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.7M	16.172M	15.6M	16.186M
2437MHz	Pass	500k	15.65M	16.278M	15.5M	16.241M
2462MHz	Pass	500k	15.7M	16.178M	15.65M	16.185M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.675M	18.679M	18.05M	18.678M
2437MHz	Pass	500k	17.725M	18.701M	18.05M	18.683M
2462MHz	Pass	500k	17.675M	18.675M	18.05M	18.677M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.275M	37.232M	36.15M	37.147M
2437MHz	Pass	500k	35.275M	37.215M	36.125M	37.131M
2452MHz	Pass	500k	35.275M	37.211M	36.1M	37.126M

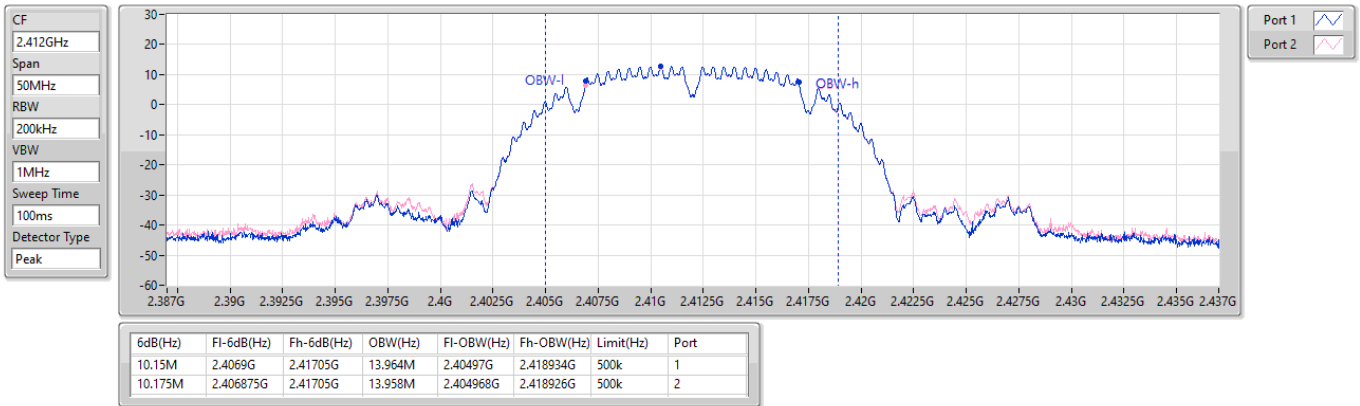
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

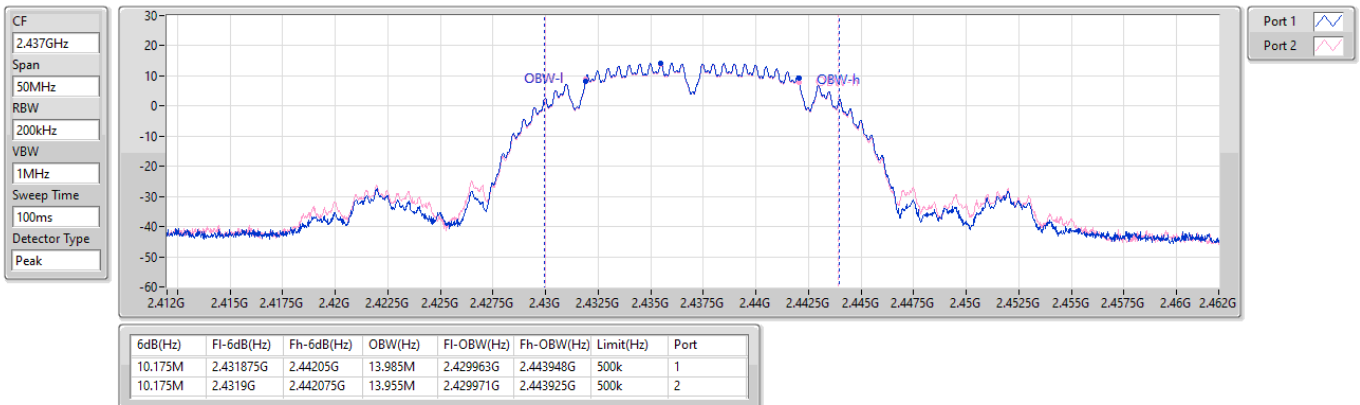
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

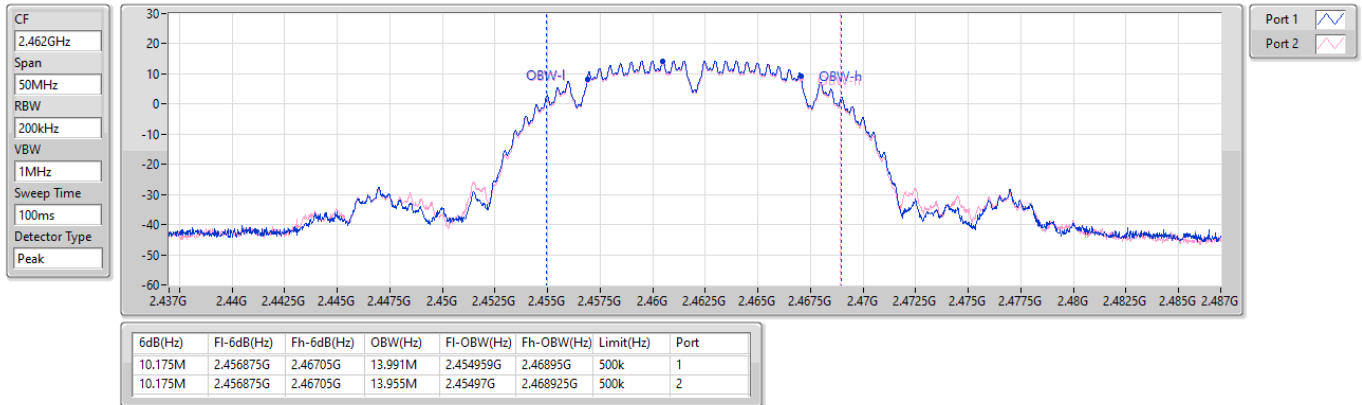
2437MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

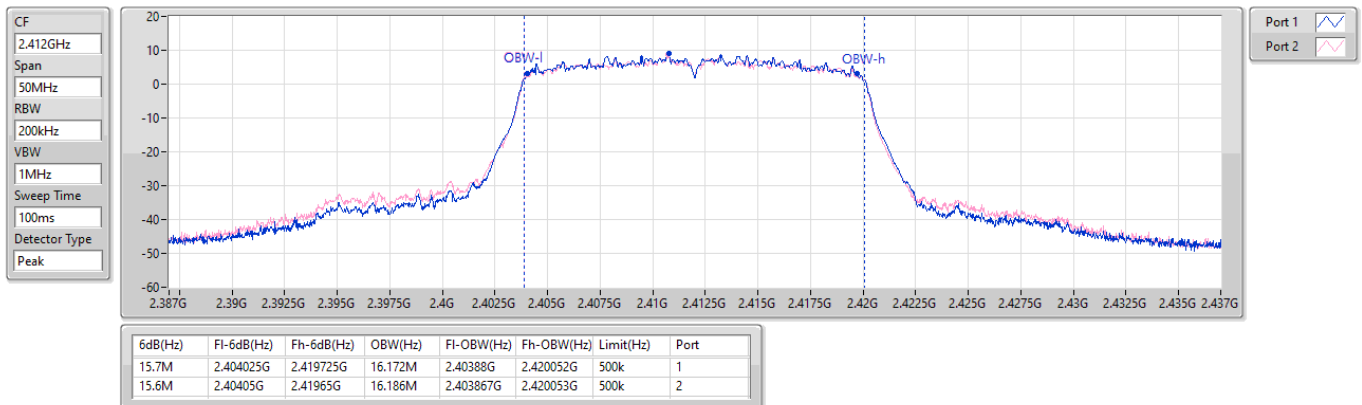
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

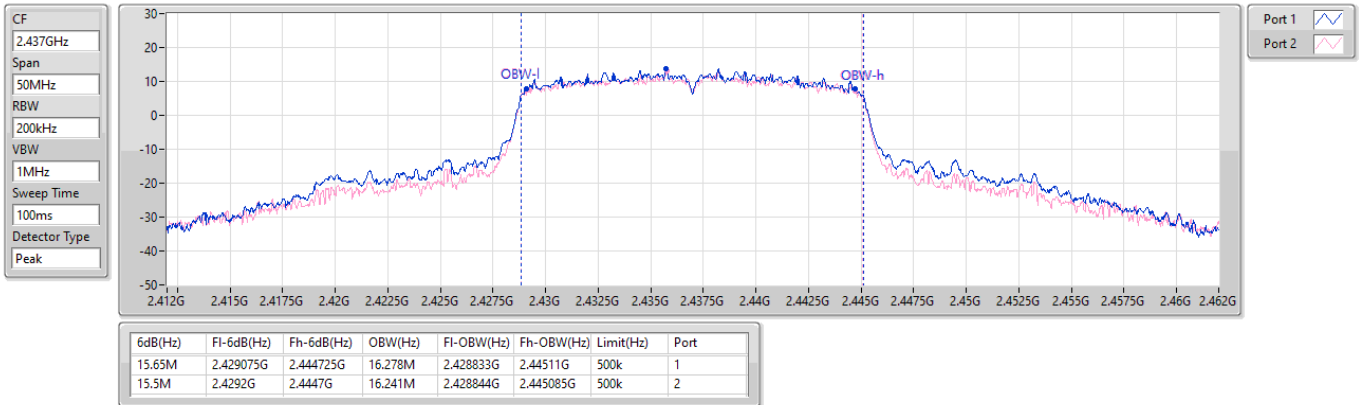




2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

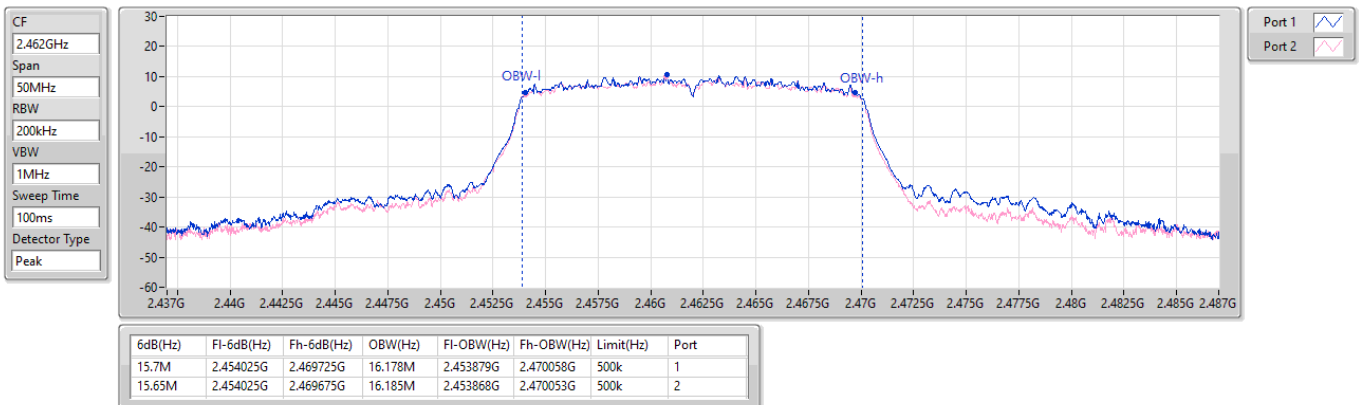
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

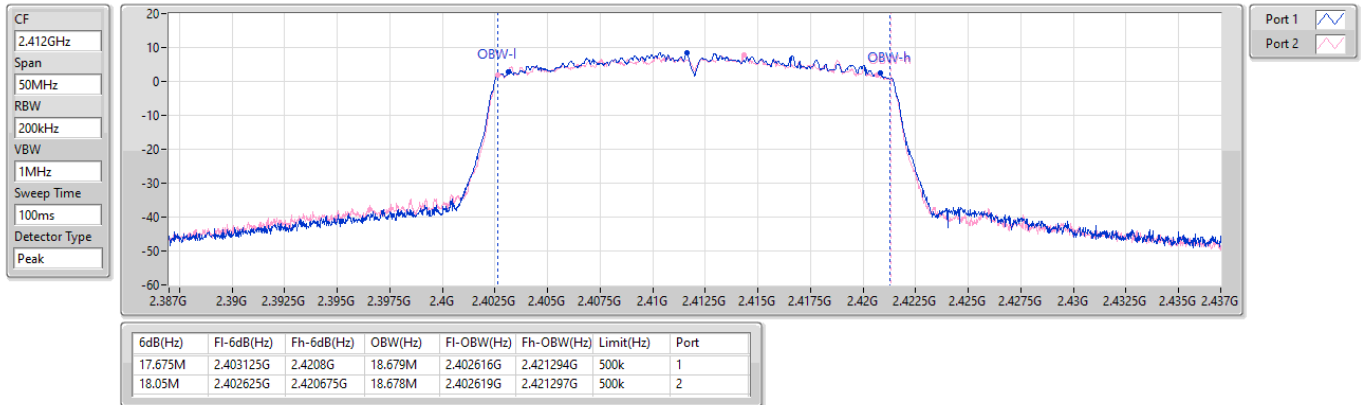
2462MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

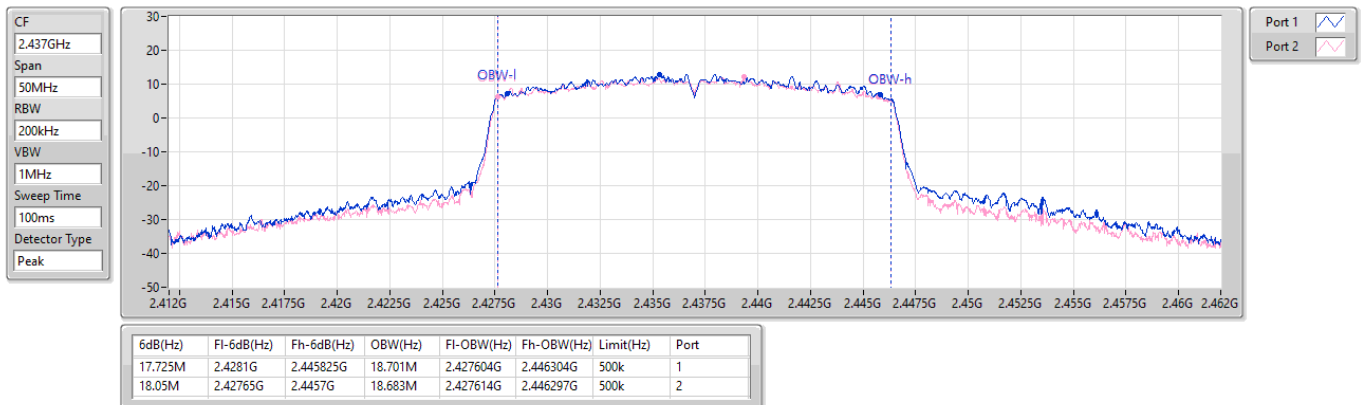
2412MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

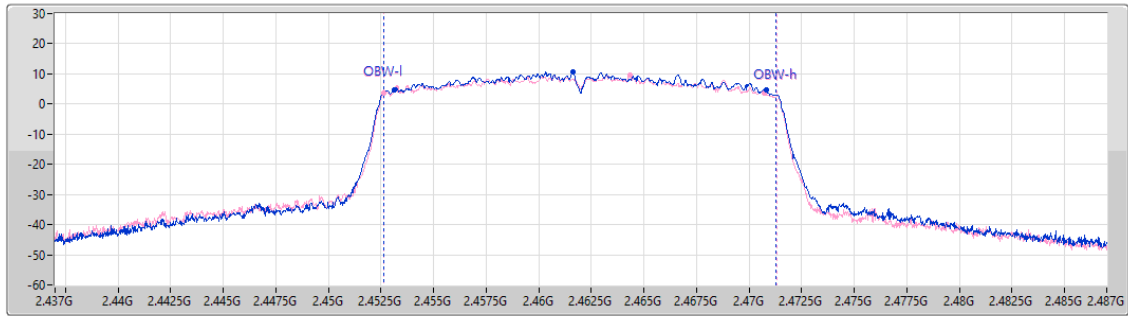


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



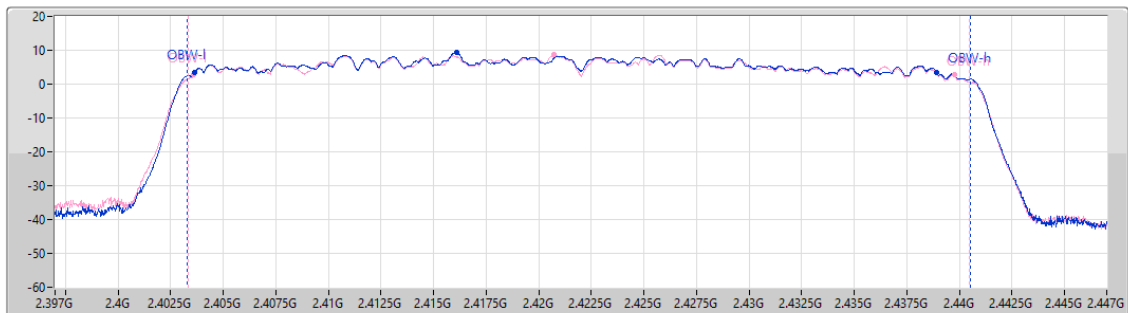
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.675M	2.453125G	2.4708G	18.675M	2.452617G	2.471293G	500k	1
18.05M	2.45265G	2.4707G	18.677M	2.45262G	2.471297G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

CF
2.422GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.275M	2.40365G	2.438925G	37.232M	2.403276G	2.440508G	500k	1
36.15M	2.4036G	2.43975G	37.147M	2.40331G	2.440457G	500k	2

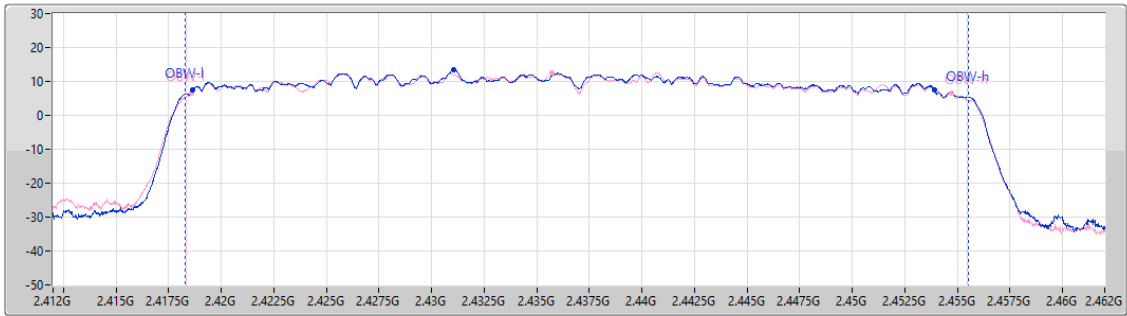


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

CF
2.437GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

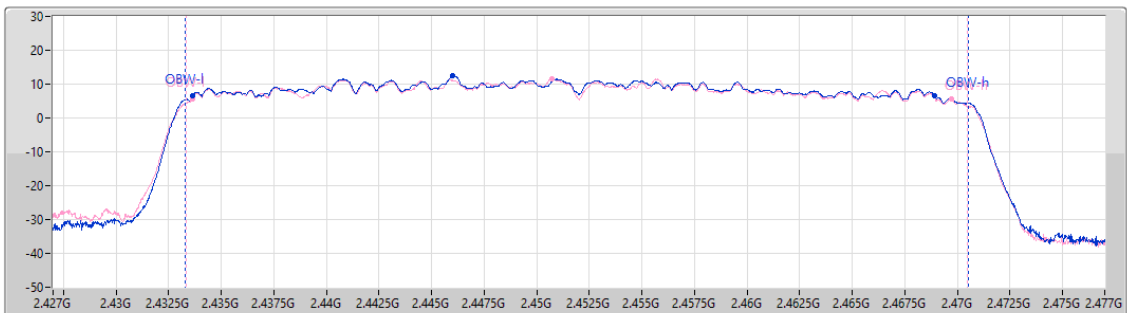
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.275M	2.41865G	2.453925G	37.215M	2.418288G	2.455503G	500k	1
36.125M	2.4186G	2.454725G	37.131M	2.418316G	2.455447G	500k	2

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

CF
2.452GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.275M	2.43365G	2.468925G	37.211M	2.433287G	2.470499G	500k	1
36.1M	2.433625G	2.469725G	37.126M	2.433321G	2.470446G	500k	2

**Conducted Output Power(Average)****Appendix B****Non-Beamforming mode****Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.16	0.41305
802.11g_Nss1,(6Mbps)_2TX	25.48	0.35318
802.11ax HEW20_Nss1,(MCS0)_2TX	24.25	0.26607
802.11ax HEW40_Nss1,(MCS0)_2TX	22.46	0.17620

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.89	21.92	21.91	24.93	30.00	29.82	36.00
2417MHz	Pass	4.89	22.67	22.48	25.59	30.00	30.48	36.00
2437MHz	Pass	4.89	23.22	22.89	26.07	30.00	30.96	36.00
2462MHz	Pass	4.89	23.35	22.95	26.16	30.00	31.05	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.89	18.36	18.12	21.25	30.00	26.14	36.00
2417MHz	Pass	4.89	20.29	20.09	23.20	30.00	28.09	36.00
2422MHz	Pass	4.89	22.19	22.09	25.15	30.00	30.04	36.00
2437MHz	Pass	4.89	22.61	22.32	25.48	30.00	30.37	36.00
2457MHz	Pass	4.89	22.34	21.92	25.15	30.00	30.04	36.00
2462MHz	Pass	4.89	19.36	19.32	22.35	30.00	27.24	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.89	17.06	16.92	20.00	30.00	24.89	36.00
2417MHz	Pass	4.89	20.53	20.33	23.44	30.00	28.33	36.00
2422MHz	Pass	4.89	21.34	21.12	24.24	30.00	29.13	36.00
2437MHz	Pass	4.89	21.32	21.16	24.25	30.00	29.14	36.00
2457MHz	Pass	4.89	21.4	21.05	24.24	30.00	29.13	36.00
2462MHz	Pass	4.89	19.04	18.56	21.82	30.00	26.71	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.89	15.66	15.52	18.60	30.00	23.49	36.00
2427MHz	Pass	4.89	16.91	16.68	19.81	30.00	24.70	36.00
2432MHz	Pass	4.89	17.83	17.75	20.80	30.00	25.69	36.00
2437MHz	Pass	4.89	19.52	19.37	22.46	30.00	27.35	36.00
2447MHz	Pass	4.89	19.56	19.18	22.38	30.00	27.27	36.00
2452MHz	Pass	4.89	18.66	18.48	21.58	30.00	26.47	36.00

DG = Directional Gain; Port X = Port X output power

Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.24	0.13305
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.45	0.08810

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.85	14.05	13.91	16.99	28.15	24.84	36.00
2417MHz	Pass	7.85	17.52	17.32	20.43	28.15	28.28	36.00
2422MHz	Pass	7.85	18.33	18.11	21.23	28.15	29.08	36.00
2437MHz	Pass	7.85	18.31	18.15	21.24	28.15	29.09	36.00
2457MHz	Pass	7.85	18.39	18.04	21.23	28.15	29.08	36.00
2462MHz	Pass	7.85	16.03	15.55	18.81	28.15	26.66	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.85	12.65	12.51	15.59	28.15	23.44	36.00
2427MHz	Pass	7.85	13.9	13.67	16.80	28.15	24.65	36.00
2432MHz	Pass	7.85	14.82	14.74	17.79	28.15	25.64	36.00
2437MHz	Pass	7.85	16.51	16.36	19.45	28.15	27.30	36.00
2447MHz	Pass	7.85	16.55	16.17	19.37	28.15	27.22	36.00
2452MHz	Pass	7.85	15.65	15.47	18.57	28.15	26.42	36.00

DG = Directional Gain; Port X = Port X output power

Directional gain = $10 \log \left[\left(10^{4.89/20} + 10^{4.78/20} \right)^2 / 2 \right] = 7.85 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to $30 \text{ dBm} - (7.85 \text{ dBi} - 6 \text{ dBi}) = 28.15 \text{ dBm}$

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.22
802.11g_Nss1,(6Mbps)_2TX	-5.65
802.11ax HEW20_Nss1,(MCS0)_2TX	-6.19
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.75

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.85	-9.11	-9.23	-6.71	6.15
2437MHz	Pass	7.85	-7.83	-8.25	-5.23	6.15
2462MHz	Pass	7.85	-6.87	-7.97	-5.22	6.15
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.85	-12.72	-12.97	-10.24	6.15
2437MHz	Pass	7.85	-8.29	-8.37	-5.65	6.15
2462MHz	Pass	7.85	-10.23	-11.81	-8.45	6.15
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.85	-13.70	-13.35	-10.67	6.15
2437MHz	Pass	7.85	-8.82	-8.79	-6.19	6.15
2462MHz	Pass	7.85	-10.30	-11.20	-8.02	6.15
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.85	-16.83	-16.28	-13.54	6.15
2437MHz	Pass	7.85	-12.44	-12.70	-9.75	6.15
2452MHz	Pass	7.85	-12.63	-14.04	-10.66	6.15

DG = Directional Gain; RBW = 3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

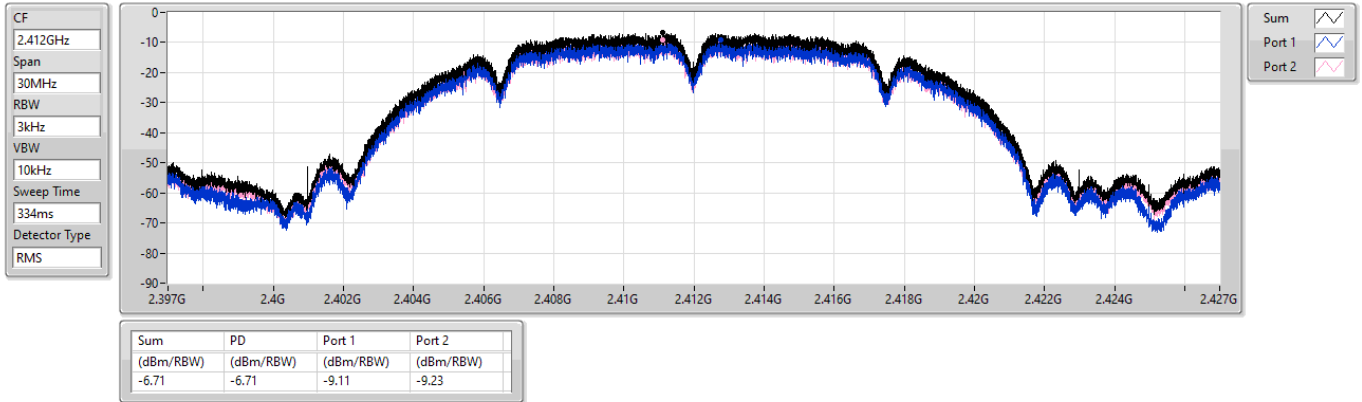
Directional gain = $10 \log [(10^{4.89/20} + 10^{4.78/20})^2 / 2] = 7.85 \text{ dBi} > 6 \text{ dBi}$

Limit shall be reduced to 8 dBm – (7.85 dBi – 6 dBi) = 6.15 dBm

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

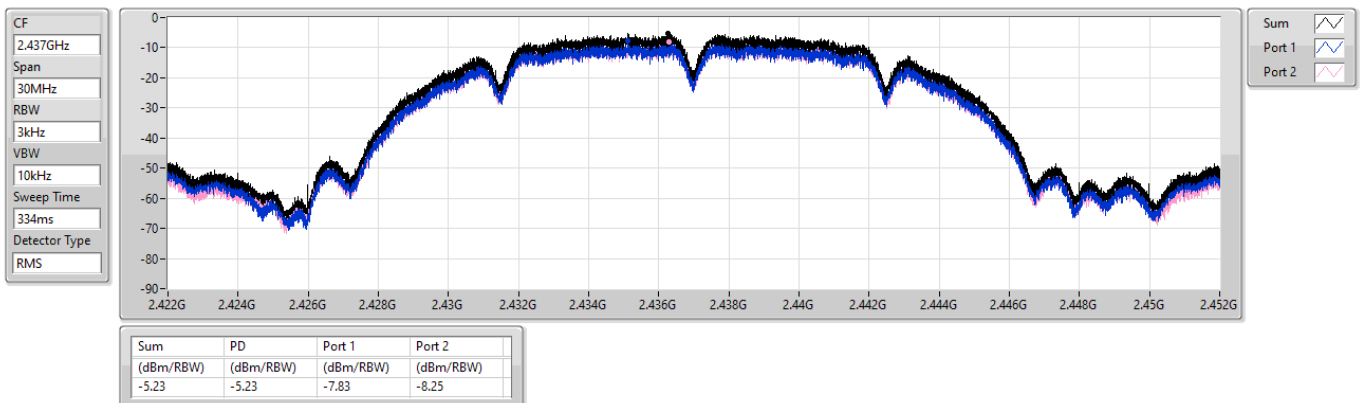
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

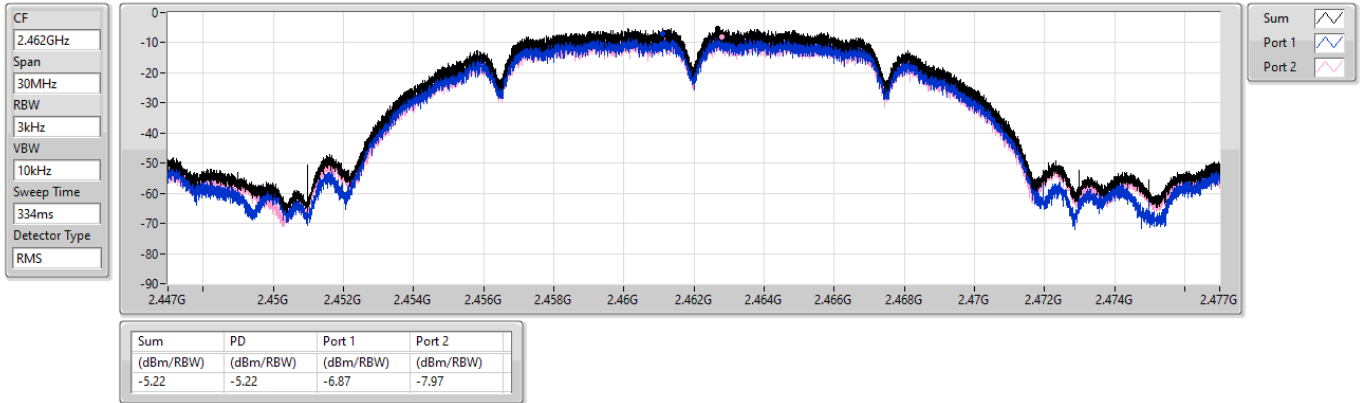
2437MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

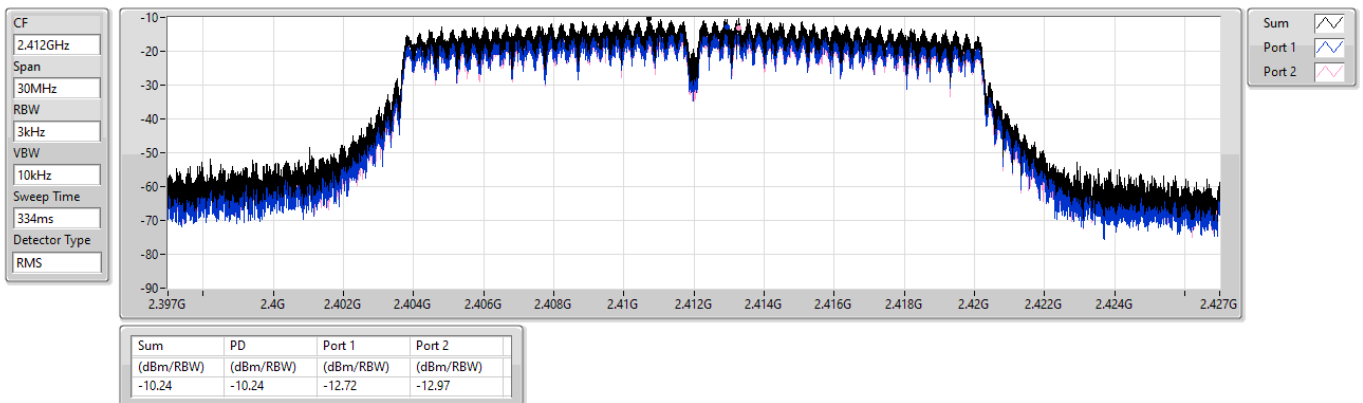
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

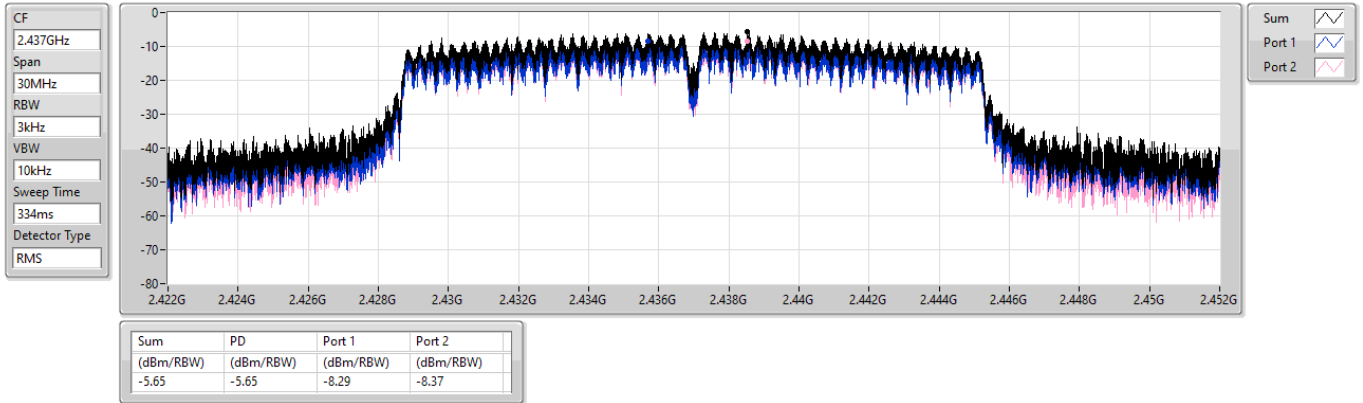
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

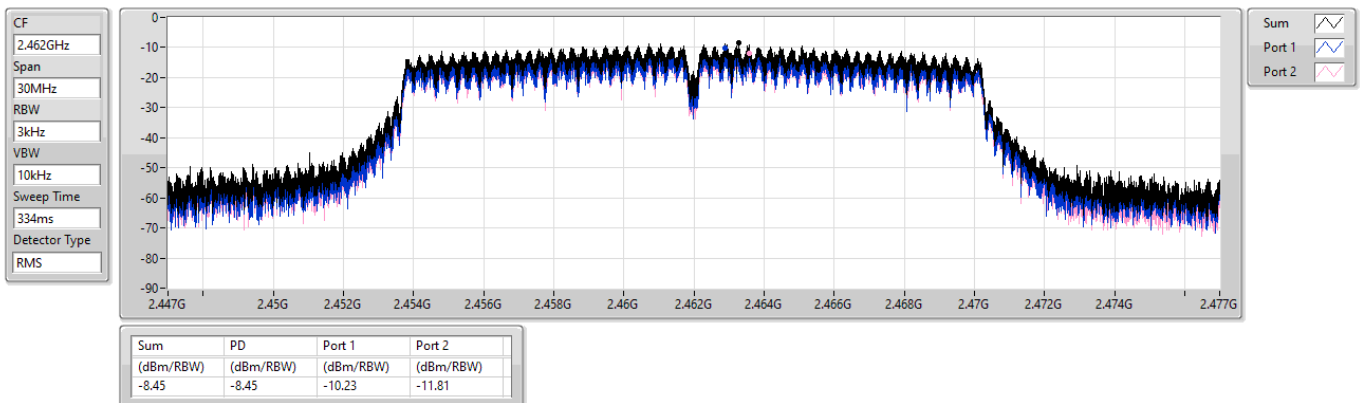
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

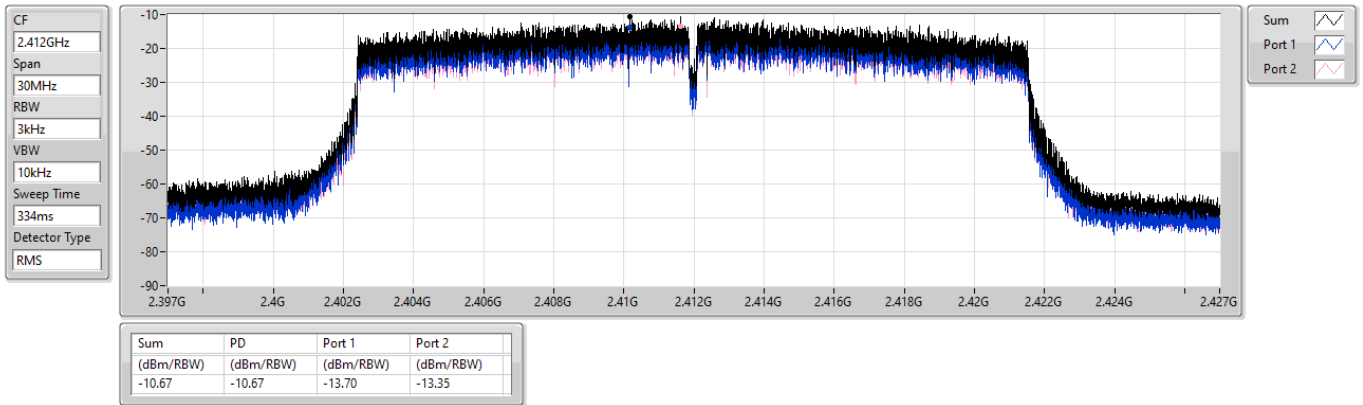
2462MHz



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

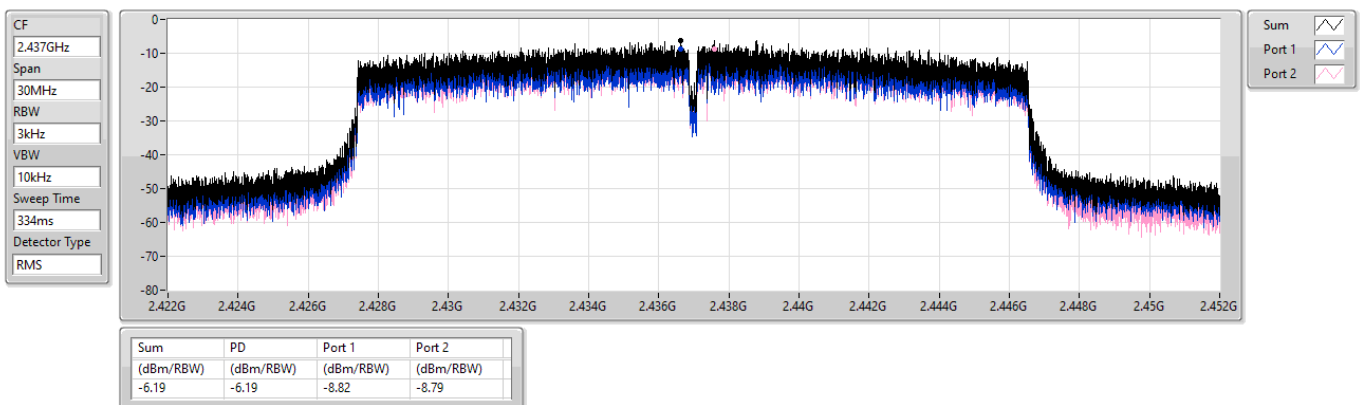
2412MHz



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

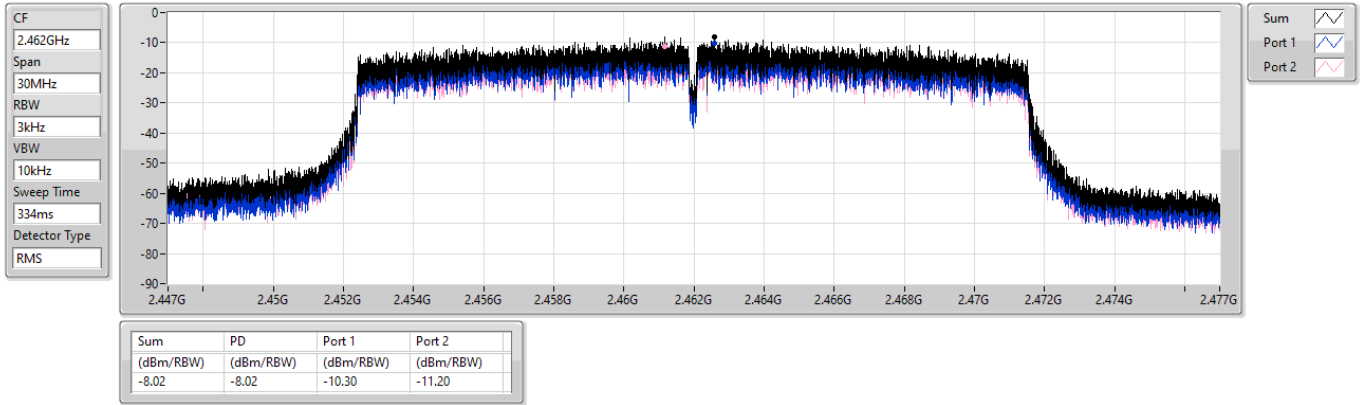
2437MHz



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

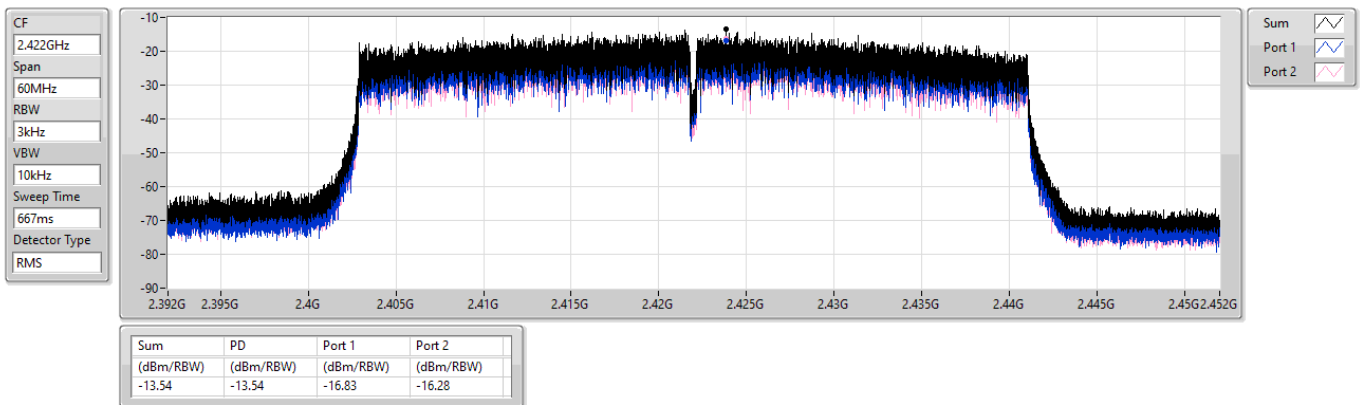
2462MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

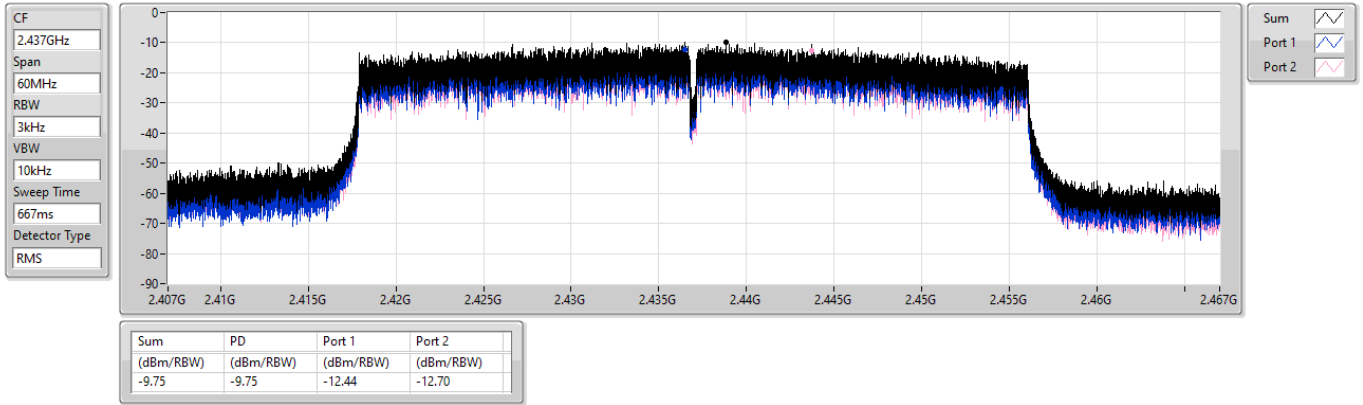
2422MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

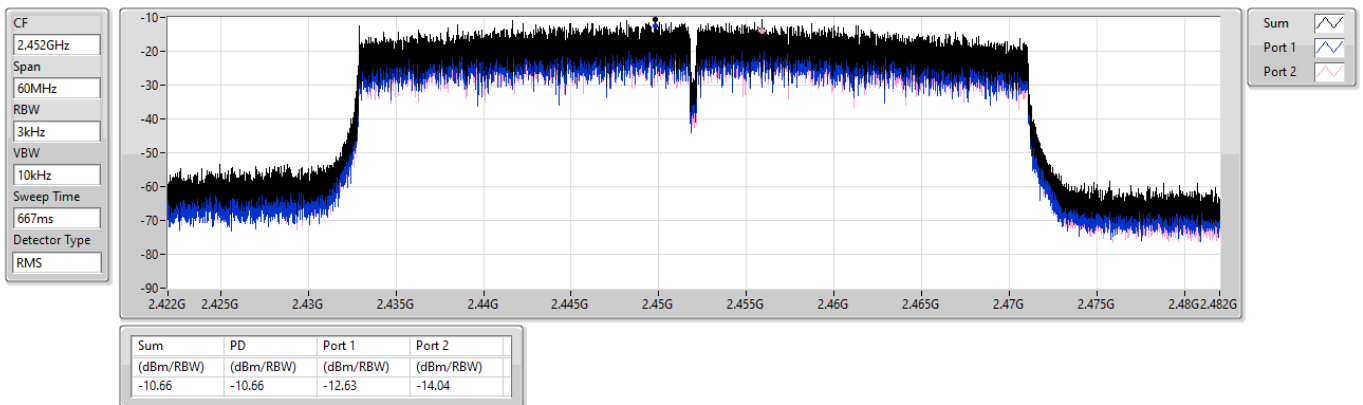
2437MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz



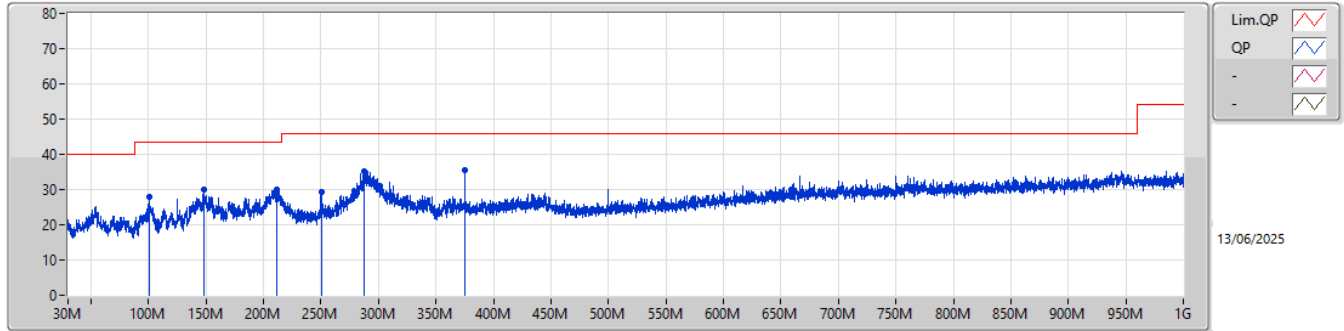


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	54.2M	36.94	40.00	-3.06	Vertical



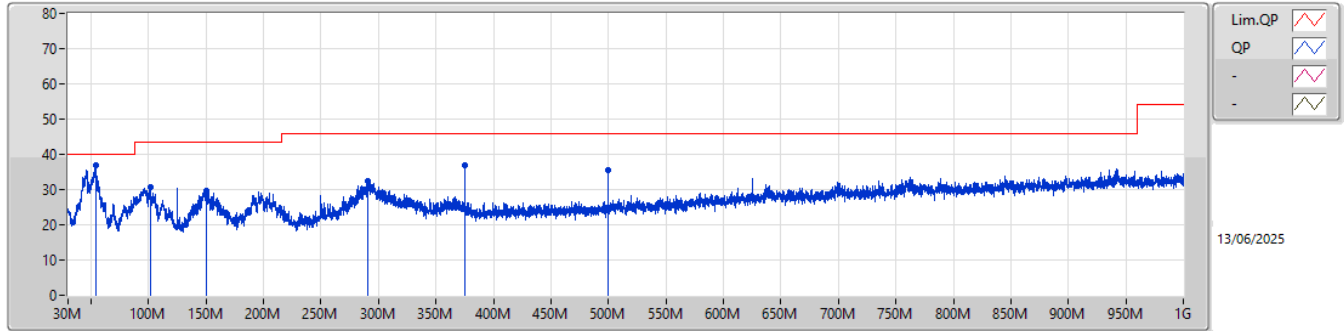
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	100.7M	27.85	43.50	-15.65	-13.09	3	Horizontal	-	-	-	40.94	14.11	1.03	28.23		
PK	148.2M	29.87	43.50	-13.63	-8.77	3	Horizontal	-	-	-	38.64	18.28	1.20	28.25		
PK	211.2M	30.05	43.50	-13.45	-11.80	3	Horizontal	-	-	-	41.85	15.02	1.45	28.27		
PK	250.11M	29.46	46.00	-16.54	-9.78	3	Horizontal	-	-	-	39.24	16.90	1.57	28.25		
PK	287.9M	35.23	46.00	-10.77	-8.14	3	Horizontal	-	-	-	43.37	18.36	1.74	28.24		
PK	375.06M	35.38	46.00	-10.62	-6.02	3	Horizontal	-	-	-	41.40	20.30	1.86	28.18		



Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	54.2M	36.94	40.00	-3.06	-8.35	3	Vertical	-	-	-	45.29	19.06	0.74	28.15		
PK	101.5M	30.58	43.50	-12.92	-13.00	3	Vertical	-	-	-	43.58	14.20	1.03	28.23		
PK	150.5M	29.82	43.50	-13.68	-8.65	3	Vertical	-	-	-	38.47	18.40	1.21	28.26		
PK	290.8M	32.53	46.00	-13.47	-8.06	3	Vertical	-	-	-	40.59	18.42	1.75	28.23		
PK	375.04M	36.73	46.00	-9.27	-6.02	3	Vertical	-	-	-	42.75	20.30	1.86	28.18		
PK	500.12M	35.46	46.00	-10.54	-3.36	3	Vertical	-	-	-	38.82	22.80	2.04	28.20		



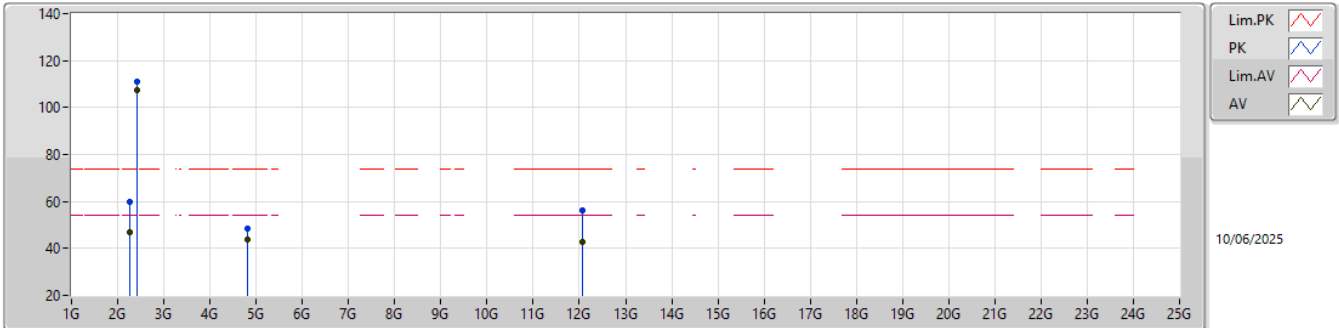
Unwanted Emissions into Restricted Frequency Bands Above 1GHz *Appendix D.2*

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.924G	53.78	54.00	-0.22	3	Vertical	227	1.00	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.252G	53.56	54.00	-0.44	3	Vertical	233	1.32	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.252G	53.64	54.00	-0.36	3	Vertical	243	1.19	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.281G	52.20	54.00	-1.80	3	Vertical	252	1.36	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

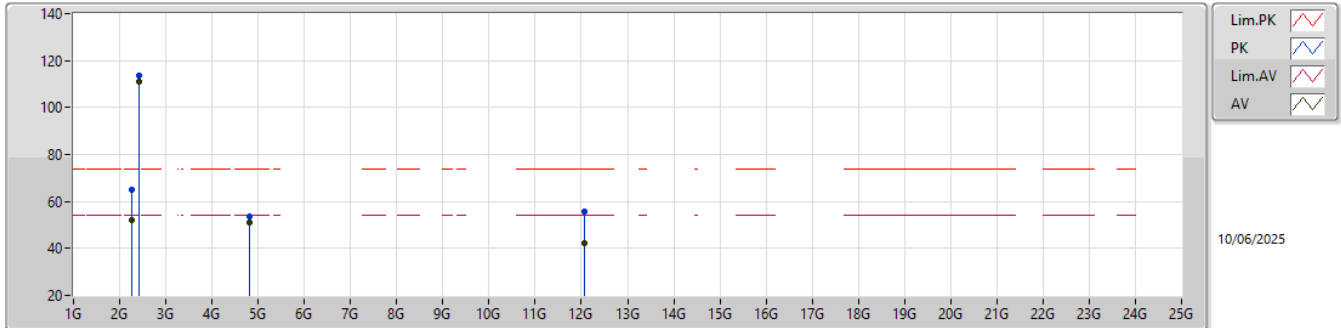
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	47.02	54.00	-6.98	51.07	3	Horizontal	239	2.26	-	28.18	4.53	36.76			
PK	2.252G	59.94	74.00	-14.06	63.99	3	Horizontal	239	2.26	-	28.18	4.53	36.76			
AV	2.412G	107.45	Inf	-Inf	111.95	3	Horizontal	239	2.26	-	27.70	4.72	36.92			
PK	2.412G	111.16	Inf	-Inf	115.66	3	Horizontal	239	2.26	-	27.70	4.72	36.92			
AV	4.824G	43.84	54.00	-10.16	44.26	3	Horizontal	265	1.41	-	31.40	6.71	38.53			
PK	4.824G	48.52	74.00	-25.48	48.94	3	Horizontal	265	1.41	-	31.40	6.71	38.53			
AV	12.06G	42.80	54.00	-11.20	35.86	3	Horizontal	35	1.00	-	39.54	10.24	42.84			
PK	12.06G	56.08	74.00	-17.92	49.14	3	Horizontal	35	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

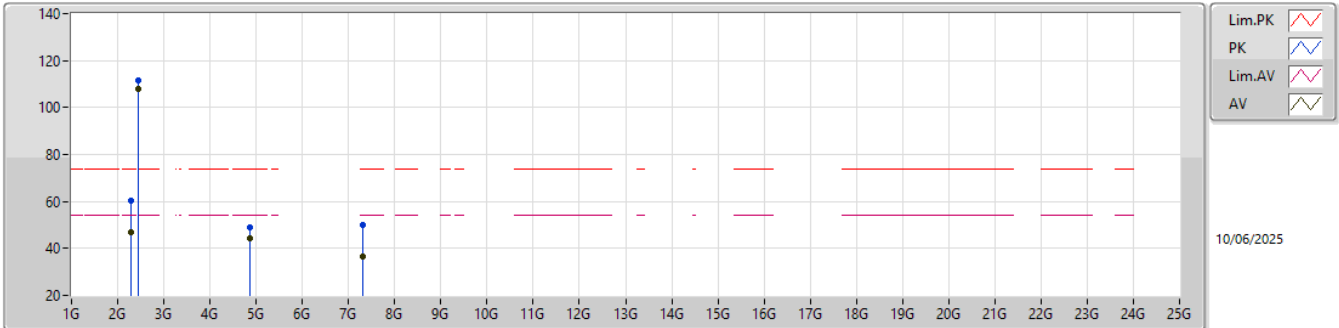
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	52.13	54.00	-1.87	56.18	3	Vertical	251	1.85	-	28.18	4.53	36.76			
PK	2.252G	64.99	74.00	-9.01	69.04	3	Vertical	251	1.85	-	28.18	4.53	36.76			
AV	2.412G	111.20	Inf	-Inf	115.70	3	Vertical	251	1.85	-	27.70	4.72	36.92			
PK	2.412G	113.85	Inf	-Inf	118.35	3	Vertical	251	1.85	-	27.70	4.72	36.92			
AV	4.824G	50.80	54.00	-3.20	51.22	3	Vertical	263	1.51	-	31.40	6.71	38.53			
PK	4.824G	53.66	74.00	-20.34	54.08	3	Vertical	263	1.51	-	31.40	6.71	38.53			
AV	12.06G	42.50	54.00	-11.50	35.56	3	Vertical	24	1.00	-	39.54	10.24	42.84			
PK	12.06G	55.89	74.00	-18.11	48.95	3	Vertical	24	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

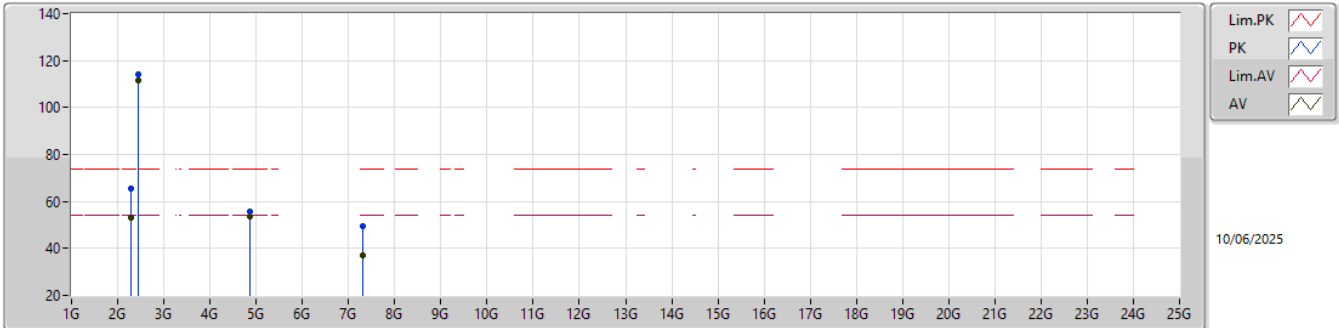
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	47.15	54.00	-6.85	51.19	3	Horizontal	236	2.29	-	28.18	4.57	36.79			
PK	2.281G	60.15	74.00	-13.85	64.19	3	Horizontal	236	2.29	-	28.18	4.57	36.79			
AV	2.437G	108.06	Inf	-Inf	112.61	3	Horizontal	236	2.29	-	27.63	4.76	36.94			
PK	2.437G	111.72	Inf	-Inf	116.27	3	Horizontal	236	2.29	-	27.63	4.76	36.94			
AV	4.874G	44.08	54.00	-9.92	44.47	3	Horizontal	263	1.45	-	31.40	6.77	38.56			
PK	4.874G	49.12	74.00	-24.88	49.51	3	Horizontal	263	1.45	-	31.40	6.77	38.56			
AV	7.311G	36.39	54.00	-17.61	30.86	3	Horizontal	30	1.00	-	36.28	8.63	39.38			
PK	7.311G	50.02	74.00	-23.98	44.49	3	Horizontal	30	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

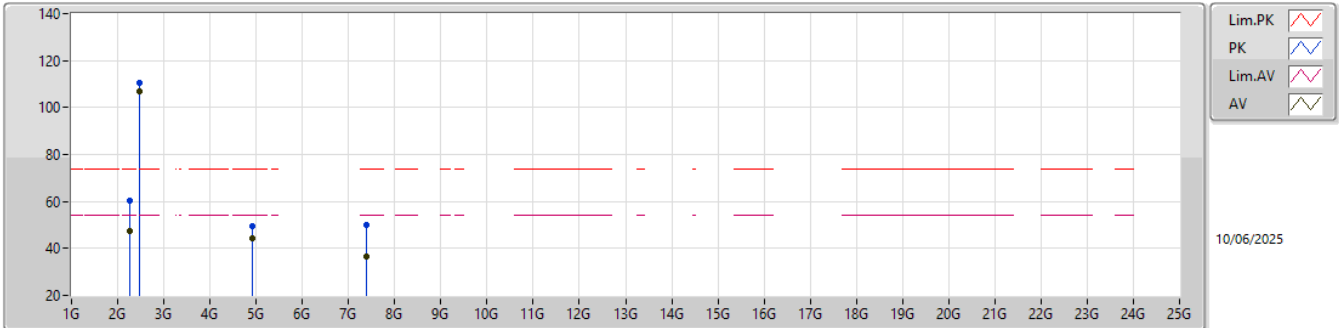
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	53.14	54.00	-0.86	57.18	3	Vertical	224	1.12	-	28.18	4.57	36.79			
PK	2.281G	65.48	74.00	-8.52	69.52	3	Vertical	224	1.12	-	28.18	4.57	36.79			
AV	2.437G	111.40	Inf	-Inf	115.95	3	Vertical	179	1.18	-	27.63	4.76	36.94			
PK	2.437G	114.24	Inf	-Inf	118.79	3	Vertical	179	1.18	-	27.63	4.76	36.94			
AV	4.874G	53.59	54.00	-0.41	53.98	3	Vertical	265	1.41	-	31.40	6.77	38.56			
PK	4.874G	55.59	74.00	-18.41	55.98	3	Vertical	265	1.41	-	31.40	6.77	38.56			
AV	7.311G	37.06	54.00	-16.94	31.53	3	Vertical	325	1.00	-	36.28	8.63	39.38			
PK	7.311G	49.72	74.00	-24.28	44.19	3	Vertical	325	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

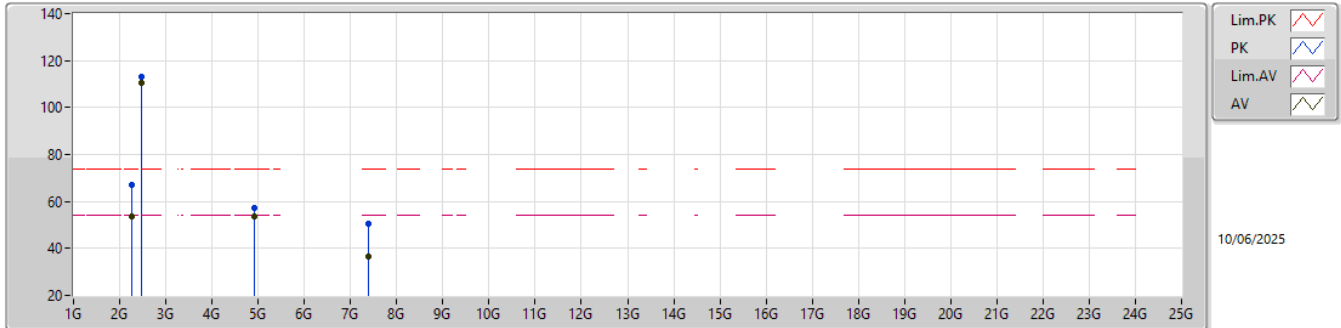
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	47.28	54.00	-6.72	51.30	3	Horizontal	234	2.28	-	28.20	4.56	36.78			
PK	2.274G	60.32	74.00	-13.68	64.34	3	Horizontal	234	2.28	-	28.20	4.56	36.78			
AV	2.462G	106.85	Inf	-Inf	111.62	3	Horizontal	234	2.28	-	27.40	4.79	36.96			
PK	2.462G	110.54	Inf	-Inf	115.31	3	Horizontal	234	2.28	-	27.40	4.79	36.96			
AV	4.924G	44.21	54.00	-9.79	44.59	3	Horizontal	265	1.46	-	31.40	6.82	38.60			
PK	4.924G	49.34	74.00	-24.66	49.72	3	Horizontal	265	1.46	-	31.40	6.82	38.60			
AV	7.386G	36.52	54.00	-17.48	31.15	3	Horizontal	36	1.00	-	36.20	8.65	39.48			
PK	7.386G	50.11	74.00	-23.89	44.74	3	Horizontal	36	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

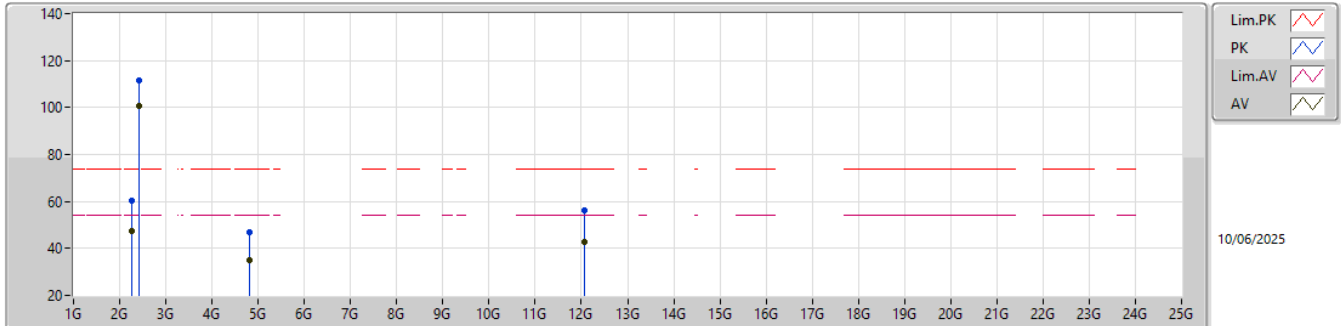
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	53.70	54.00	-0.30	57.72	3	Vertical	226	1.06	-	28.20	4.56	36.78			
PK	2.274G	67.04	74.00	-6.96	71.06	3	Vertical	226	1.06	-	28.20	4.56	36.78			
AV	2.462G	110.51	Inf	-Inf	115.28	3	Vertical	108	1.06	-	27.40	4.79	36.96			
PK	2.462G	113.33	Inf	-Inf	118.10	3	Vertical	108	1.06	-	27.40	4.79	36.96			
AV	4.924G	53.78	54.00	-0.22	54.16	3	Vertical	227	1.00	-	31.40	6.82	38.60			
PK	4.924G	57.37	74.00	-16.63	57.75	3	Vertical	227	1.00	-	31.40	6.82	38.60			
AV	7.386G	36.56	54.00	-17.44	31.19	3	Vertical	66	1.00	-	36.20	8.65	39.48			
PK	7.386G	50.70	74.00	-23.30	45.33	3	Vertical	66	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

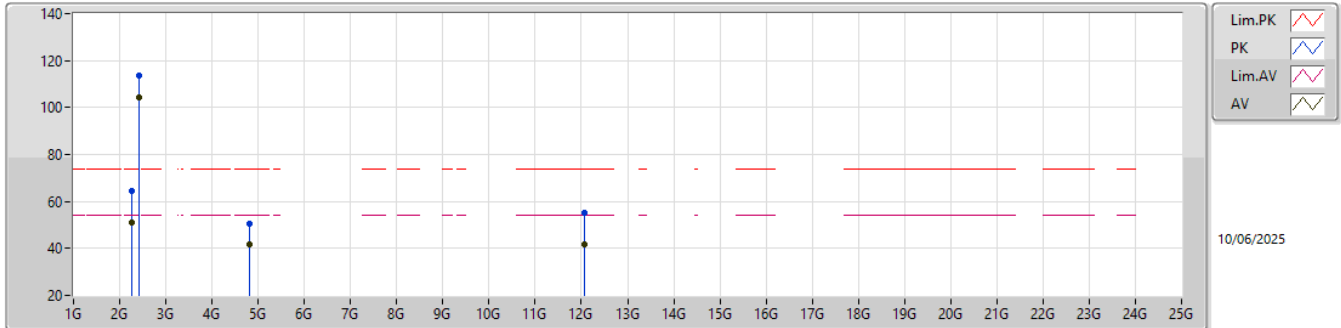
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	47.66	54.00	-6.34	51.71	3	Horizontal	224	1.78	-	28.18	4.53	36.76			
PK	2.252G	60.24	74.00	-13.76	64.29	3	Horizontal	224	1.78	-	28.18	4.53	36.76			
AV	2.412G	100.45	Inf	-Inf	104.95	3	Horizontal	224	1.78	-	27.70	4.72	36.92			
PK	2.412G	111.64	Inf	-Inf	116.14	3	Horizontal	224	1.78	-	27.70	4.72	36.92			
AV	4.824G	35.12	54.00	-18.88	35.54	3	Horizontal	165	1.00	-	31.40	6.71	38.53			
PK	4.824G	46.95	74.00	-27.05	47.37	3	Horizontal	165	1.00	-	31.40	6.71	38.53			
AV	12.06G	42.75	54.00	-11.25	35.81	3	Horizontal	39	1.00	-	39.54	10.24	42.84			
PK	12.06G	56.14	74.00	-17.86	49.20	3	Horizontal	39	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

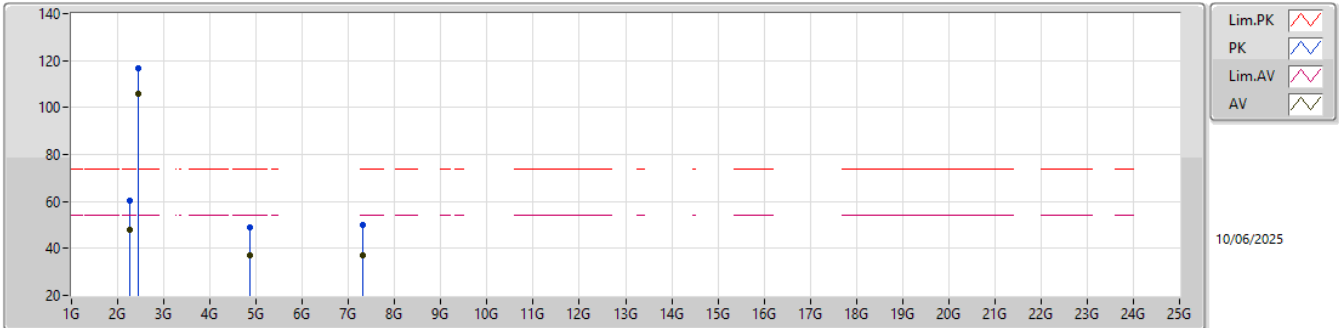
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	50.99	54.00	-3.01	55.04	3	Vertical	227	1.00	-	28.18	4.53	36.76			
PK	2.252G	64.65	74.00	-9.35	68.70	3	Vertical	227	1.00	-	28.18	4.53	36.76			
AV	2.412G	104.37	Inf	-Inf	108.87	3	Vertical	255	1.00	-	27.70	4.72	36.92			
PK	2.412G	113.50	Inf	-Inf	118.00	3	Vertical	255	1.00	-	27.70	4.72	36.92			
AV	4.824G	41.47	54.00	-12.53	41.89	3	Vertical	218	1.00	-	31.40	6.71	38.53			
PK	4.824G	50.69	74.00	-23.31	51.11	3	Vertical	218	1.00	-	31.40	6.71	38.53			
AV	12.06G	41.94	54.00	-12.06	35.00	3	Vertical	54	1.00	-	39.54	10.24	42.84			
PK	12.06G	55.38	74.00	-18.62	48.44	3	Vertical	54	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

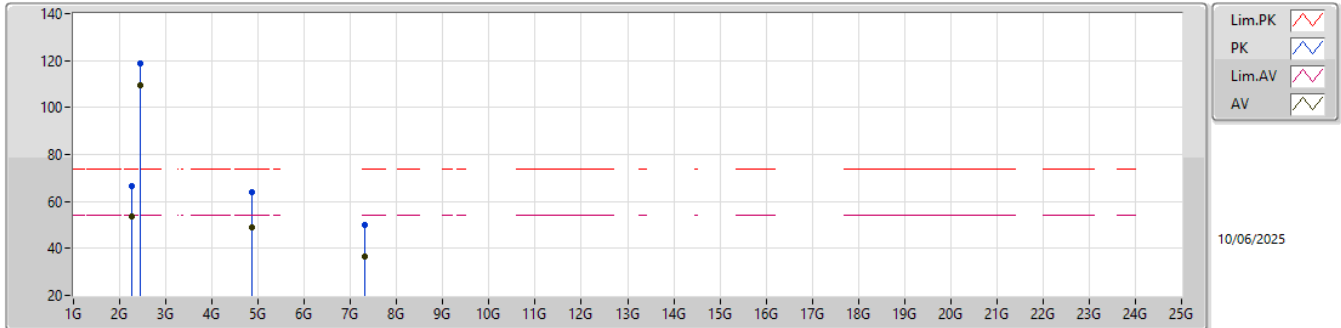
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	47.89	54.00	-6.11	51.94	3	Horizontal	222	1.79	-	28.18	4.53	36.76			
PK	2.252G	60.35	74.00	-13.65	64.40	3	Horizontal	222	1.79	-	28.18	4.53	36.76			
AV	2.437G	105.67	Inf	-Inf	110.22	3	Horizontal	222	1.79	-	27.63	4.76	36.94			
PK	2.437G	116.77	Inf	-Inf	121.32	3	Horizontal	222	1.79	-	27.63	4.76	36.94			
AV	4.874G	37.26	54.00	-16.74	37.65	3	Horizontal	173	1.00	-	31.40	6.77	38.56			
PK	4.874G	49.12	74.00	-24.88	49.51	3	Horizontal	173	1.00	-	31.40	6.77	38.56			
AV	7.311G	36.97	54.00	-17.03	31.44	3	Horizontal	20	1.00	-	36.28	8.63	39.38			
PK	7.311G	50.01	74.00	-23.99	44.48	3	Horizontal	20	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

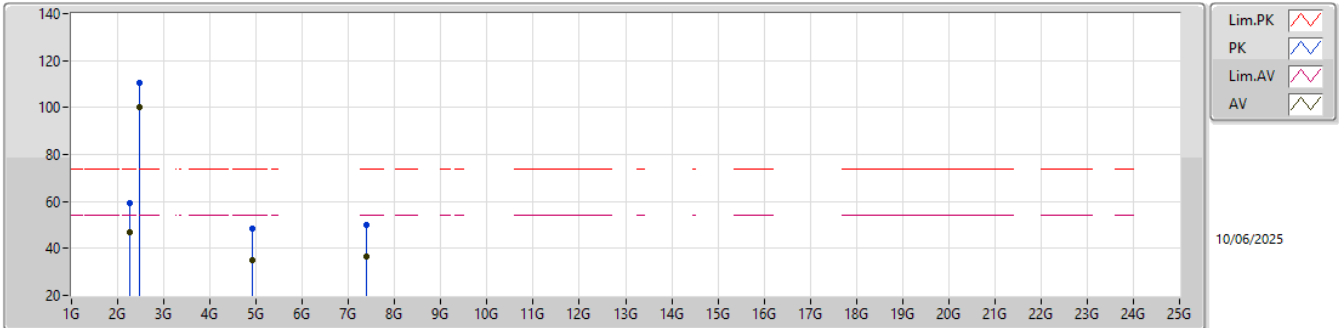
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	53.56	54.00	-0.44	57.61	3	Vertical	233	1.32	-	28.18	4.53	36.76			
PK	2.252G	66.71	74.00	-7.29	70.76	3	Vertical	233	1.32	-	28.18	4.53	36.76			
AV	2.437G	109.43	Inf	-Inf	113.98	3	Vertical	245	1.17	-	27.63	4.76	36.94			
PK	2.437G	118.64	Inf	-Inf	123.19	3	Vertical	245	1.17	-	27.63	4.76	36.94			
AV	4.874G	48.99	54.00	-5.01	49.38	3	Vertical	258	2.16	-	31.40	6.77	38.56			
PK	4.874G	64.08	74.00	-9.92	64.47	3	Vertical	258	2.16	-	31.40	6.77	38.56			
AV	7.311G	36.55	54.00	-17.45	31.02	3	Vertical	82	1.00	-	36.28	8.63	39.38			
PK	7.311G	49.97	74.00	-24.03	44.44	3	Vertical	82	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

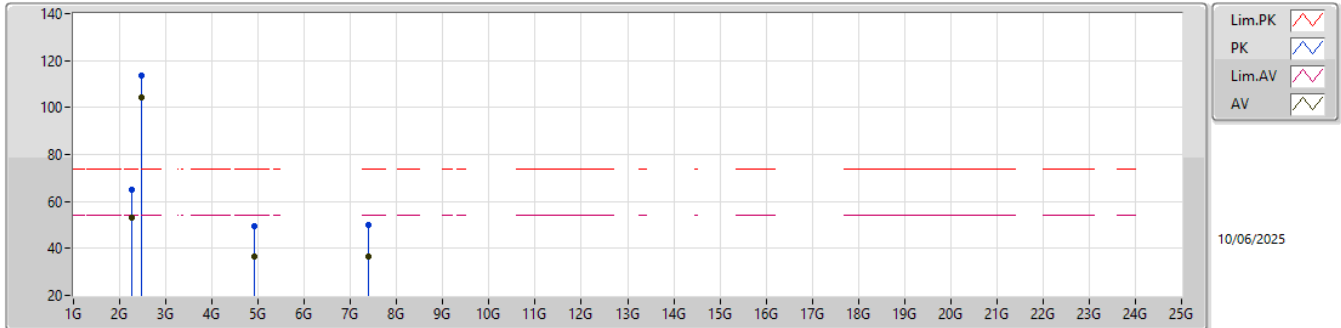
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	46.75	54.00	-7.25	50.77	3	Horizontal	226	1.75	-	28.20	4.56	36.78			
PK	2.274G	59.26	74.00	-14.74	63.28	3	Horizontal	226	1.75	-	28.20	4.56	36.78			
AV	2.462G	100.42	Inf	-Inf	105.19	3	Horizontal	226	1.75	-	27.40	4.79	36.96			
PK	2.462G	110.51	Inf	-Inf	115.28	3	Horizontal	226	1.75	-	27.40	4.79	36.96			
AV	4.924G	35.22	54.00	-18.78	35.60	3	Horizontal	175	1.00	-	31.40	6.82	38.60			
PK	4.924G	48.36	74.00	-25.64	48.74	3	Horizontal	175	1.00	-	31.40	6.82	38.60			
AV	7.386G	36.74	54.00	-17.26	31.37	3	Horizontal	25	1.00	-	36.20	8.65	39.48			
PK	7.386G	49.85	74.00	-24.15	44.48	3	Horizontal	25	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

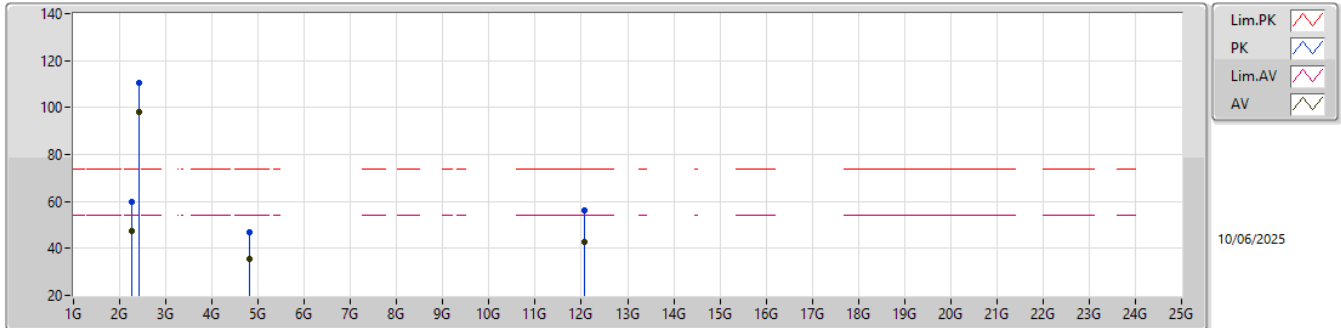
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	52.99	54.00	-1.01	57.01	3	Vertical	272	1.00	-	28.20	4.56	36.78			
PK	2.274G	65.16	74.00	-8.84	69.18	3	Vertical	272	1.00	-	28.20	4.56	36.78			
AV	2.462G	104.35	Inf	-Inf	109.12	3	Vertical	272	1.00	-	27.40	4.79	36.96			
PK	2.462G	113.64	Inf	-Inf	118.41	3	Vertical	272	1.00	-	27.40	4.79	36.96			
AV	4.924G	36.52	54.00	-17.48	36.90	3	Vertical	220	1.00	-	31.40	6.82	38.60			
PK	4.924G	49.59	74.00	-24.41	49.97	3	Vertical	220	1.00	-	31.40	6.82	38.60			
AV	7.386G	36.81	54.00	-17.19	31.44	3	Vertical	43	1.00	-	36.20	8.65	39.48			
PK	7.386G	50.11	74.00	-23.89	44.74	3	Vertical	43	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

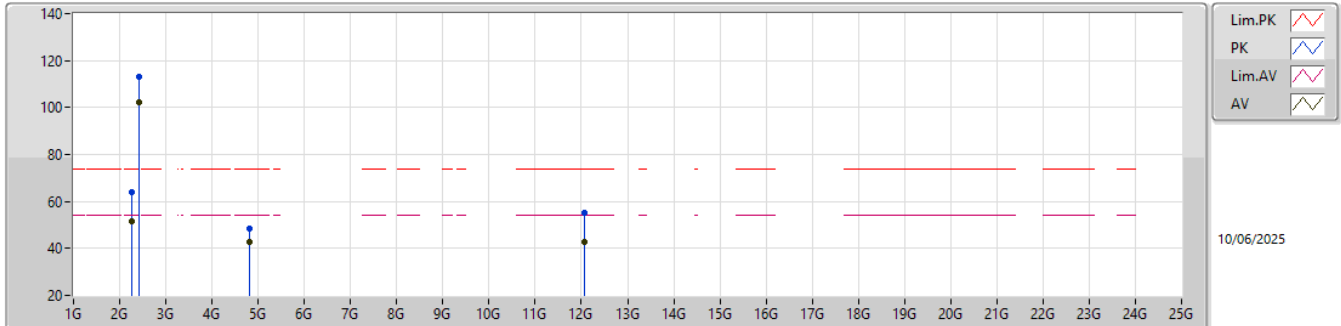
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	47.52	54.00	-6.48	51.57	3	Horizontal	229	1.79	-	28.18	4.53	36.76			
PK	2.252G	60.05	74.00	-13.95	64.10	3	Horizontal	229	1.79	-	28.18	4.53	36.76			
AV	2.412G	98.35	Inf	-Inf	102.85	3	Horizontal	229	1.79	-	27.70	4.72	36.92			
PK	2.412G	110.52	Inf	-Inf	115.02	3	Horizontal	229	1.79	-	27.70	4.72	36.92			
AV	4.824G	35.26	54.00	-18.74	35.68	3	Horizontal	168	1.00	-	31.40	6.71	38.53			
PK	4.824G	47.04	74.00	-26.96	47.46	3	Horizontal	168	1.00	-	31.40	6.71	38.53			
AV	12.06G	42.64	54.00	-11.36	35.70	3	Horizontal	41	1.00	-	39.54	10.24	42.84			
PK	12.06G	56.08	74.00	-17.92	49.14	3	Horizontal	41	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

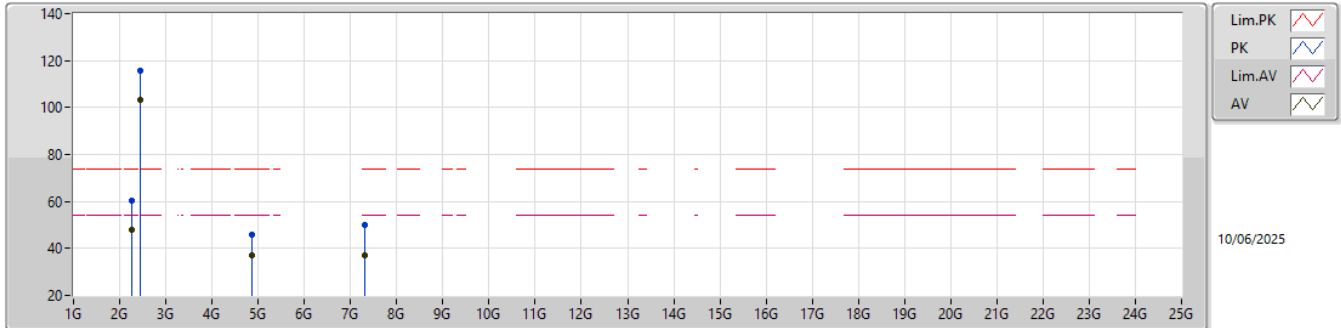
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	51.44	54.00	-2.56	55.49	3	Vertical	256	1.00	-	28.18	4.53	36.76			
PK	2.252G	64.10	74.00	-9.90	68.15	3	Vertical	256	1.00	-	28.18	4.53	36.76			
AV	2.412G	102.07	Inf	-Inf	106.57	3	Vertical	256	1.00	-	27.70	4.72	36.92			
PK	2.412G	113.06	Inf	-Inf	117.56	3	Vertical	256	1.00	-	27.70	4.72	36.92			
AV	4.824G	42.98	54.00	-11.02	43.40	3	Vertical	228	1.00	-	31.40	6.71	38.53			
PK	4.824G	48.28	74.00	-25.72	48.70	3	Vertical	228	1.00	-	31.40	6.71	38.53			
AV	12.06G	42.89	54.00	-11.11	35.95	3	Vertical	60	1.00	-	39.54	10.24	42.84			
PK	12.06G	55.05	74.00	-18.95	48.11	3	Vertical	60	1.00	-	39.54	10.24	42.84			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

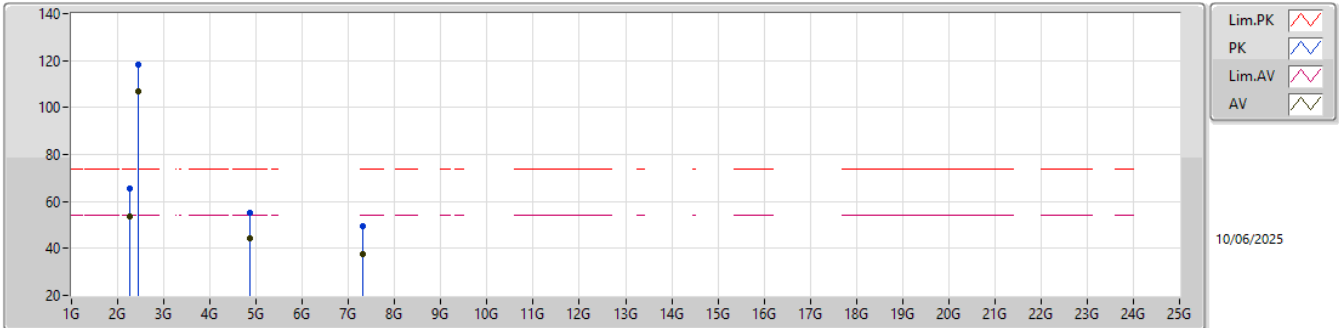
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	47.68	54.00	-6.32	51.73	3	Horizontal	216	1.72	-	28.18	4.53	36.76			
PK	2.252G	60.14	74.00	-13.86	64.19	3	Horizontal	216	1.72	-	28.18	4.53	36.76			
AV	2.437G	103.05	Inf	-Inf	107.60	3	Horizontal	216	1.72	-	27.63	4.76	36.94			
PK	2.437G	115.62	Inf	-Inf	120.17	3	Horizontal	216	1.72	-	27.63	4.76	36.94			
AV	4.874G	37.12	54.00	-16.88	37.51	3	Horizontal	175	1.00	-	31.40	6.77	38.56			
PK	4.874G	46.06	74.00	-27.94	46.45	3	Horizontal	175	1.00	-	31.40	6.77	38.56			
AV	7.311G	36.92	54.00	-17.08	31.39	3	Horizontal	29	1.00	-	36.28	8.63	39.38			
PK	7.311G	49.85	74.00	-24.15	44.32	3	Horizontal	29	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

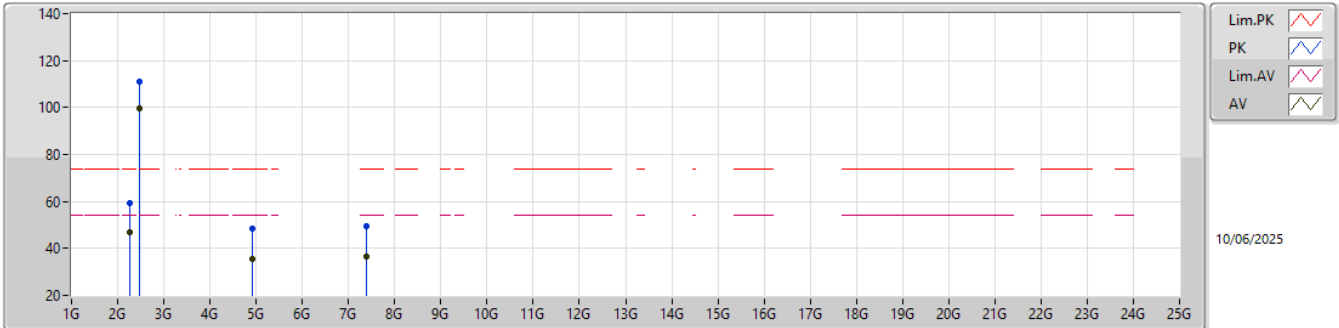
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.252G	53.64	54.00	-0.36	57.69	3	Vertical	243	1.19	-	28.18	4.53	36.76			
PK	2.252G	65.70	74.00	-8.30	69.75	3	Vertical	243	1.19	-	28.18	4.53	36.76			
AV	2.437G	107.13	Inf	-Inf	111.68	3	Vertical	243	1.19	-	27.63	4.76	36.94			
PK	2.437G	118.04	Inf	-Inf	122.59	3	Vertical	243	1.19	-	27.63	4.76	36.94			
AV	4.874G	44.45	54.00	-9.55	44.84	3	Vertical	260	2.35	-	31.40	6.77	38.56			
PK	4.874G	54.94	74.00	-19.06	55.33	3	Vertical	260	2.35	-	31.40	6.77	38.56			
AV	7.311G	37.81	54.00	-16.19	32.28	3	Vertical	86	1.00	-	36.28	8.63	39.38			
PK	7.311G	49.43	74.00	-24.57	43.90	3	Vertical	86	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

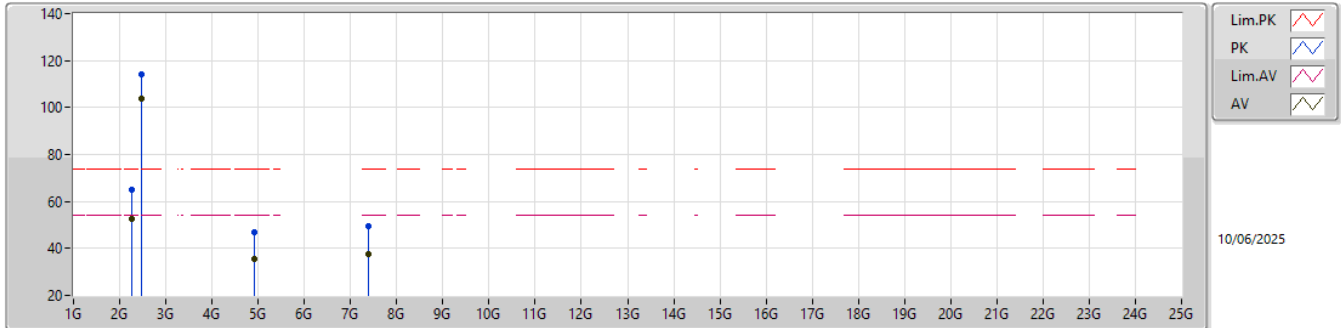
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	46.64	54.00	-7.36	50.66	3	Horizontal	229	1.78	-	28.20	4.56	36.78			
PK	2.274G	59.12	74.00	-14.88	63.14	3	Horizontal	229	1.78	-	28.20	4.56	36.78			
AV	2.462G	99.72	Inf	-Inf	104.49	3	Horizontal	229	1.78	-	27.40	4.79	36.96			
PK	2.462G	111.15	Inf	-Inf	115.92	3	Horizontal	229	1.78	-	27.40	4.79	36.96			
AV	4.924G	35.28	54.00	-18.72	35.66	3	Horizontal	169	1.00	-	31.40	6.82	38.60			
PK	4.924G	48.41	74.00	-25.59	48.79	3	Horizontal	169	1.00	-	31.40	6.82	38.60			
AV	7.386G	36.52	54.00	-17.48	31.15	3	Horizontal	44	1.00	-	36.20	8.65	39.48			
PK	7.386G	49.61	74.00	-24.39	44.24	3	Horizontal	44	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

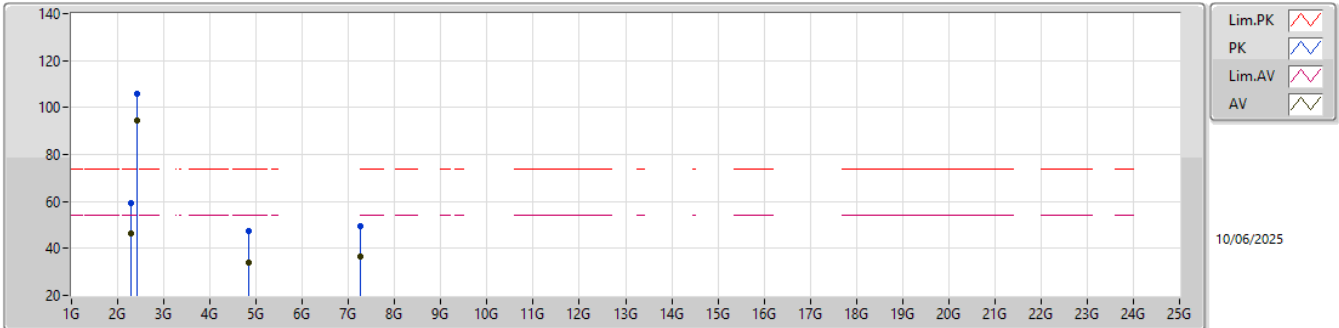
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.274G	52.54	54.00	-1.46	56.56	3	Vertical	107	1.29	-	28.20	4.56	36.78			
PK	2.274G	64.81	74.00	-9.19	68.83	3	Vertical	107	1.29	-	28.20	4.56	36.78			
AV	2.462G	103.85	Inf	-Inf	108.62	3	Vertical	107	1.29	-	27.40	4.79	36.96			
PK	2.462G	114.24	Inf	-Inf	119.01	3	Vertical	107	1.29	-	27.40	4.79	36.96			
AV	4.924G	35.29	54.00	-18.71	35.67	3	Vertical	239	1.00	-	31.40	6.82	38.60			
PK	4.924G	46.86	74.00	-27.14	47.24	3	Vertical	239	1.00	-	31.40	6.82	38.60			
AV	7.386G	37.77	54.00	-16.23	32.40	3	Vertical	37	1.00	-	36.20	8.65	39.48			
PK	7.386G	49.72	74.00	-24.28	44.35	3	Vertical	37	1.00	-	36.20	8.65	39.48			

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

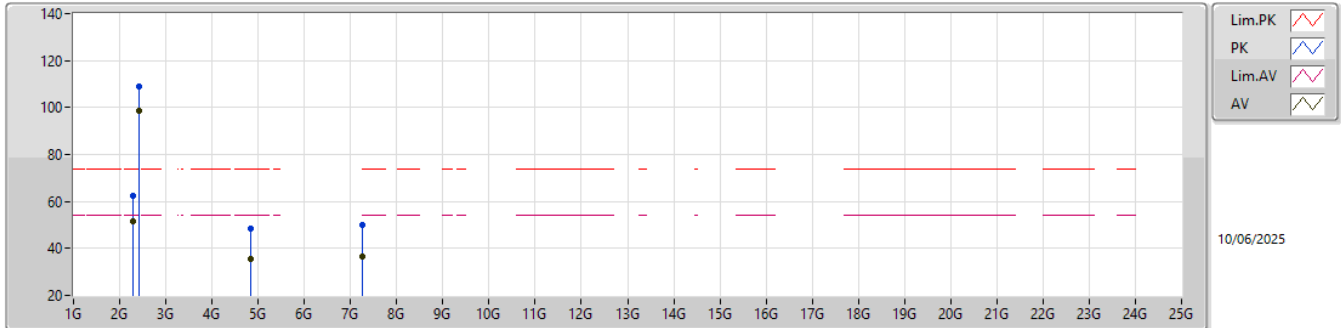
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	46.55	54.00	-7.45	50.59	3	Horizontal	229	1.76	-	28.18	4.57	36.79			
PK	2.281G	59.13	74.00	-14.87	63.17	3	Horizontal	229	1.76	-	28.18	4.57	36.79			
AV	2.422G	94.42	Inf	-Inf	98.91	3	Horizontal	229	1.76	-	27.70	4.74	36.93			
PK	2.422G	106.04	Inf	-Inf	110.53	3	Horizontal	229	1.76	-	27.70	4.74	36.93			
AV	4.844G	34.16	54.00	-19.84	34.57	3	Horizontal	164	1.00	-	31.40	6.73	38.54			
PK	4.844G	47.22	74.00	-26.78	47.63	3	Horizontal	164	1.00	-	31.40	6.73	38.54			
AV	7.266G	36.65	54.00	-17.35	31.06	3	Horizontal	36	1.00	-	36.30	8.62	39.33			
PK	7.266G	49.74	74.00	-24.26	44.15	3	Horizontal	36	1.00	-	36.30	8.62	39.33			

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

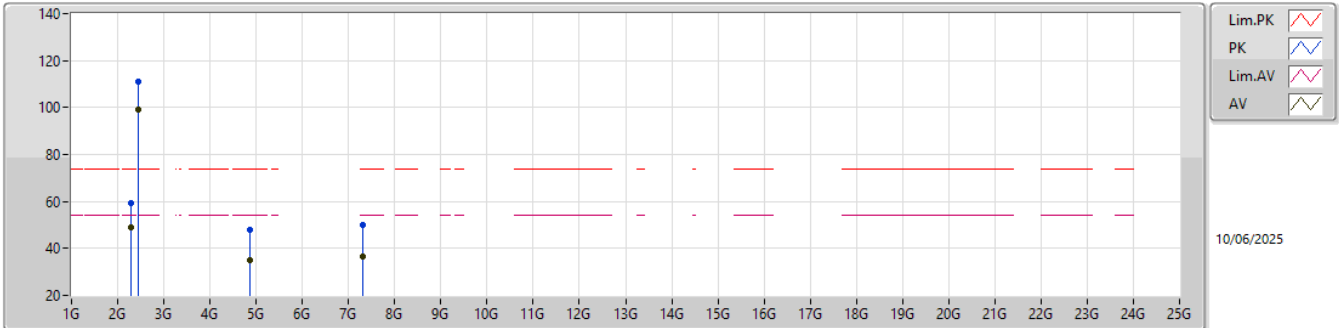
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	51.35	54.00	-2.65	55.39	3	Vertical	250	1.21	-	28.18	4.57	36.79			
PK	2.281G	62.34	74.00	-11.66	66.38	3	Vertical	250	1.21	-	28.18	4.57	36.79			
AV	2.422G	98.51	Inf	-Inf	103.00	3	Vertical	262	1.30	-	27.70	4.74	36.93			
PK	2.422G	109.22	Inf	-Inf	113.71	3	Vertical	262	1.30	-	27.70	4.74	36.93			
AV	4.844G	35.46	54.00	-18.54	35.87	3	Vertical	224	1.00	-	31.40	6.73	38.54			
PK	4.844G	48.51	74.00	-25.49	48.92	3	Vertical	224	1.00	-	31.40	6.73	38.54			
AV	7.266G	36.74	54.00	-17.26	31.15	3	Vertical	52	1.00	-	36.30	8.62	39.33			
PK	7.266G	50.03	74.00	-23.97	44.44	3	Vertical	52	1.00	-	36.30	8.62	39.33			

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

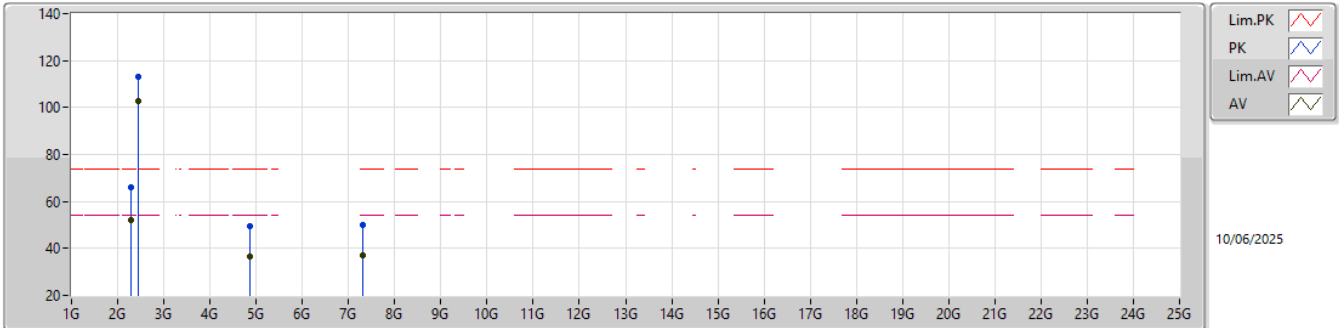
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	49.14	54.00	-4.86	53.18	3	Horizontal	158	1.75	-	28.18	4.57	36.79			
PK	2.281G	59.31	74.00	-14.69	63.35	3	Horizontal	158	1.75	-	28.18	4.57	36.79			
AV	2.437G	99.27	Inf	-Inf	103.82	3	Horizontal	242	1.79	-	27.63	4.76	36.94			
PK	2.437G	110.83	Inf	-Inf	115.38	3	Horizontal	242	1.79	-	27.63	4.76	36.94			
AV	4.874G	35.06	54.00	-18.94	35.45	3	Horizontal	182	1.00	-	31.40	6.77	38.56			
PK	4.874G	48.14	74.00	-25.86	48.53	3	Horizontal	182	1.00	-	31.40	6.77	38.56			
AV	7.311G	36.68	54.00	-17.32	31.15	3	Horizontal	32	1.00	-	36.28	8.63	39.38			
PK	7.311G	49.76	74.00	-24.24	44.23	3	Horizontal	32	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

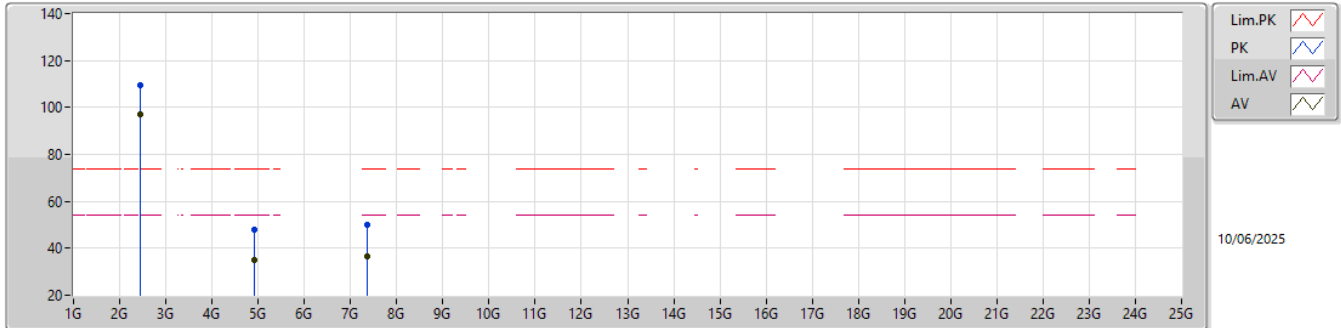
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.281G	52.20	54.00	-1.80	56.24	3	Vertical	252	1.36	-	28.18	4.57	36.79			
PK	2.281G	65.99	74.00	-8.01	70.03	3	Vertical	252	1.36	-	28.18	4.57	36.79			
AV	2.437G	102.55	Inf	-Inf	107.10	3	Vertical	262	1.18	-	27.63	4.76	36.94			
PK	2.437G	113.31	Inf	-Inf	117.86	3	Vertical	262	1.18	-	27.63	4.76	36.94			
AV	4.874G	36.44	54.00	-17.56	36.83	3	Vertical	223	1.00	-	31.40	6.77	38.56			
PK	4.874G	49.48	74.00	-24.52	49.87	3	Vertical	223	1.00	-	31.40	6.77	38.56			
AV	7.311G	36.92	54.00	-17.08	31.39	3	Vertical	51	1.00	-	36.28	8.63	39.38			
PK	7.311G	50.24	74.00	-23.76	44.71	3	Vertical	51	1.00	-	36.28	8.63	39.38			

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

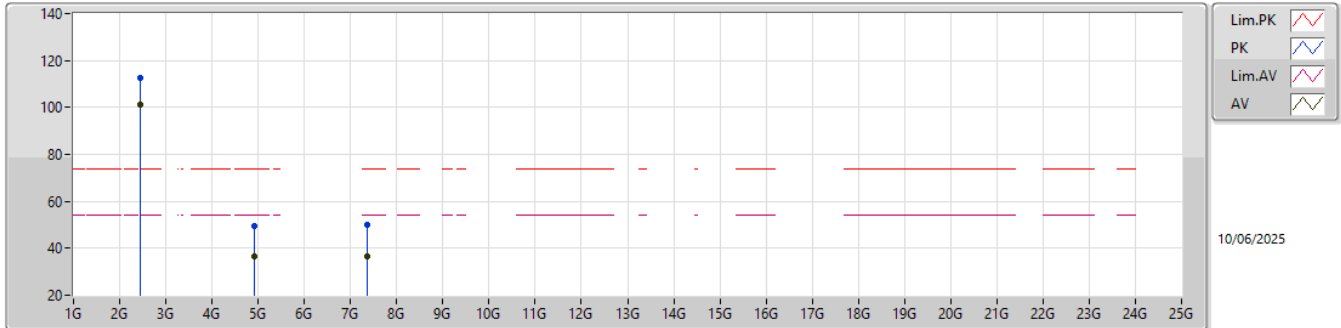
2452MHz_TX



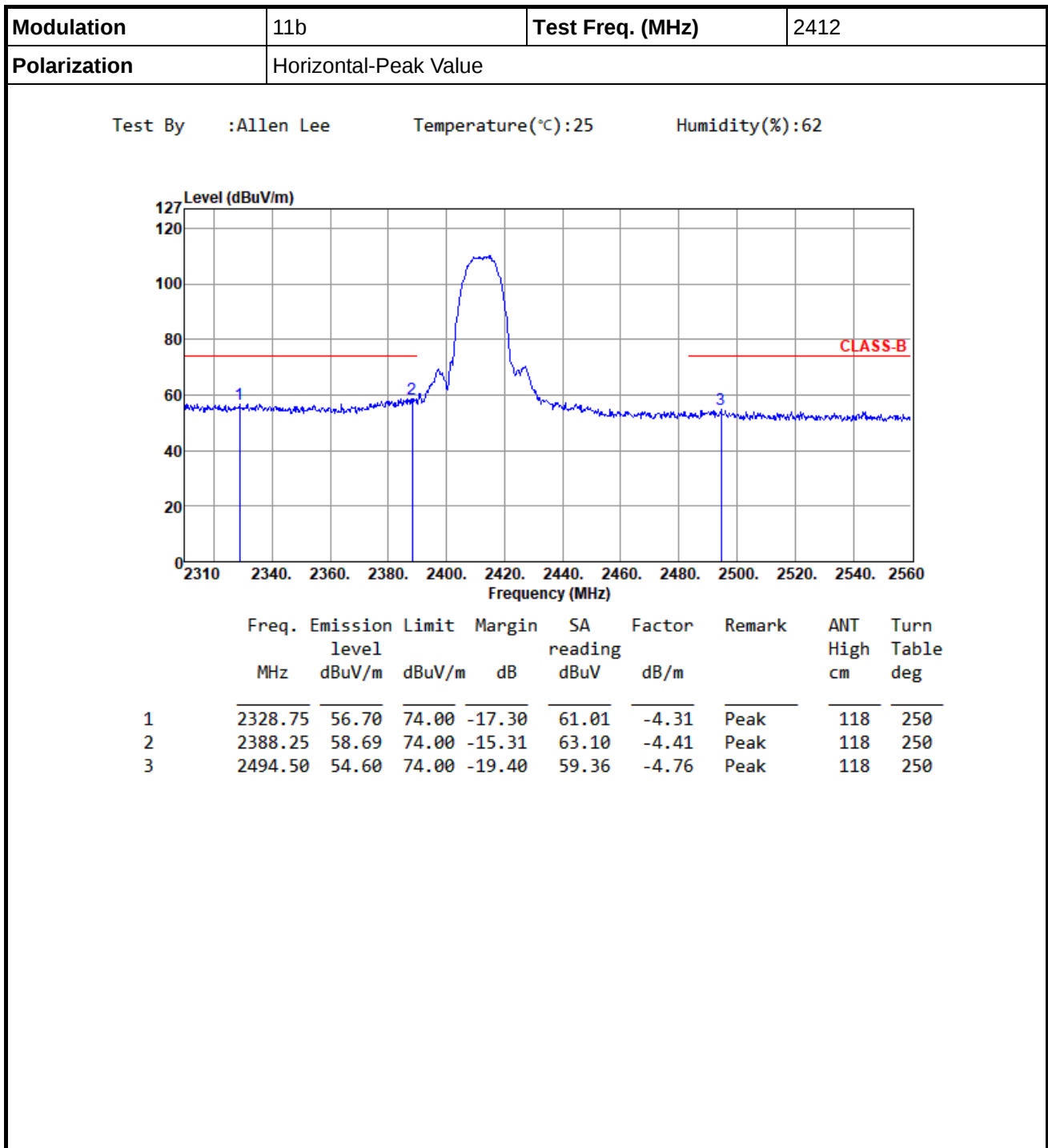
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.452G	97.16	Inf	-Inf	101.85	3	Horizontal	221	1.72	-	27.48	4.78	36.95			
PK	2.452G	109.65	Inf	-Inf	114.34	3	Horizontal	221	1.72	-	27.48	4.78	36.95			
AV	4.904G	34.96	54.00	-19.04	35.34	3	Horizontal	165	1.00	-	31.40	6.80	38.58			
PK	4.904G	48.11	74.00	-25.89	48.49	3	Horizontal	165	1.00	-	31.40	6.80	38.58			
AV	7.356G	36.62	54.00	-17.38	31.22	3	Horizontal	16	1.00	-	36.20	8.64	39.44			
PK	7.356G	49.78	74.00	-24.22	44.38	3	Horizontal	16	1.00	-	36.20	8.64	39.44			

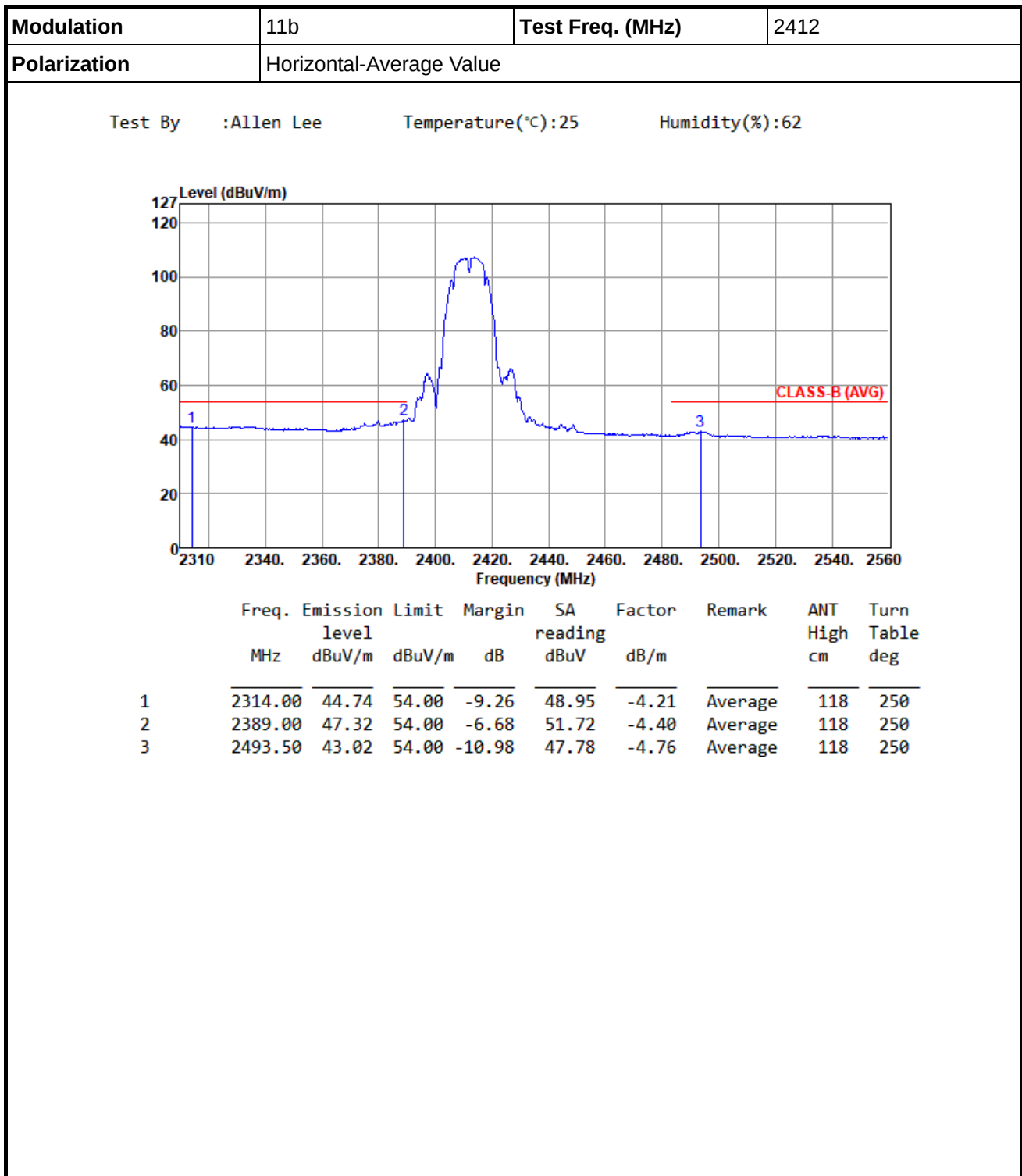
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

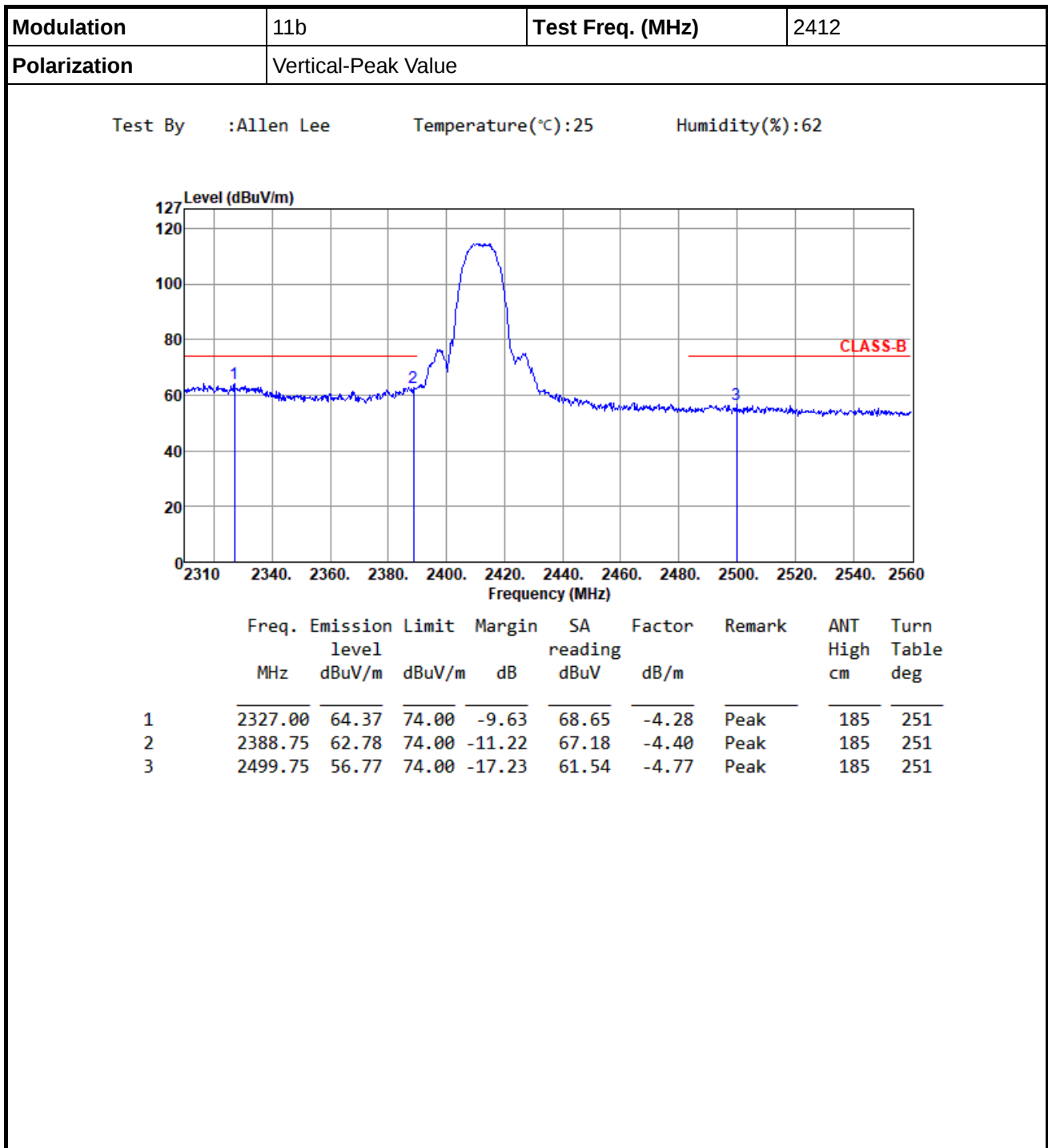
2452MHz_TX

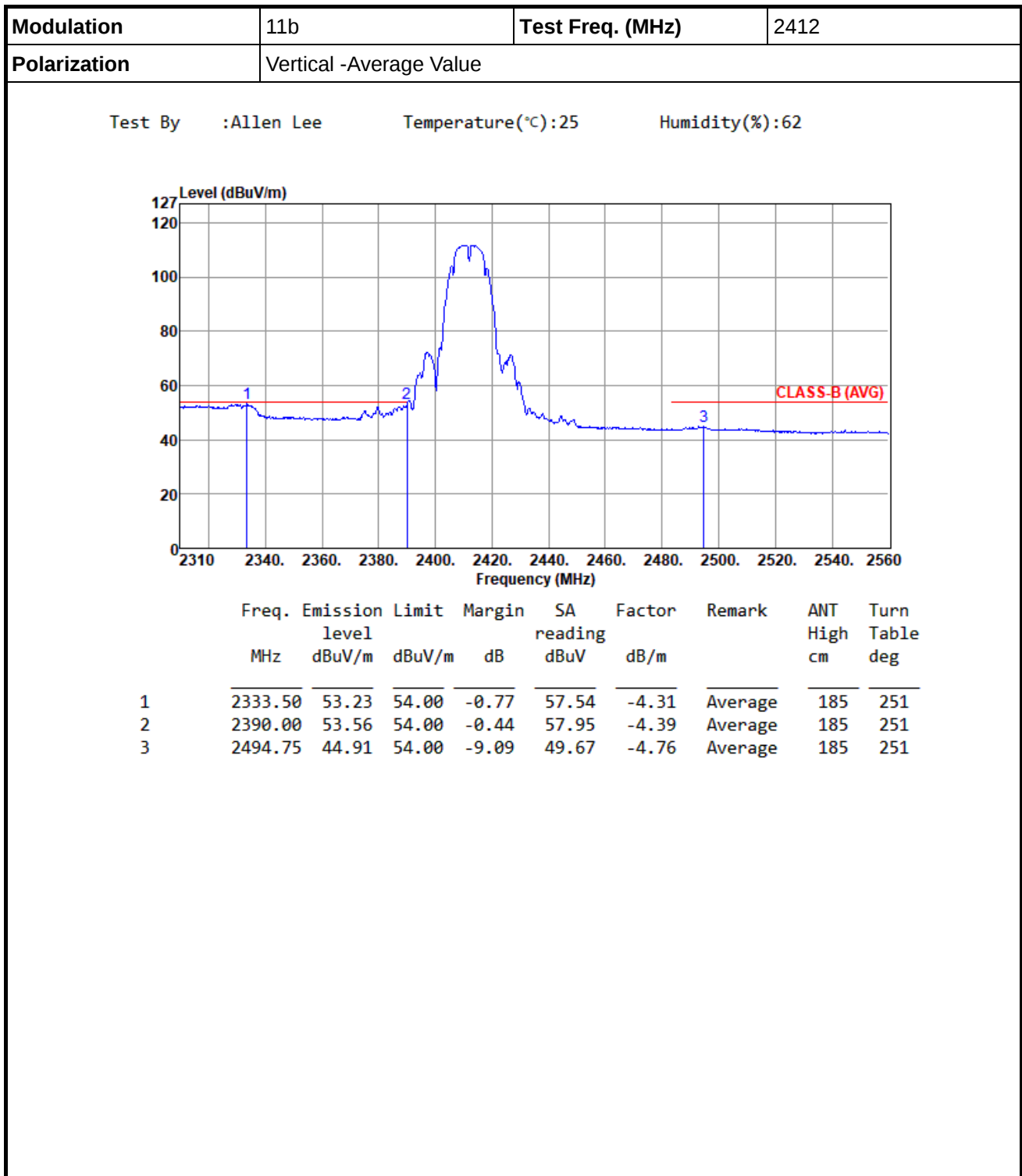


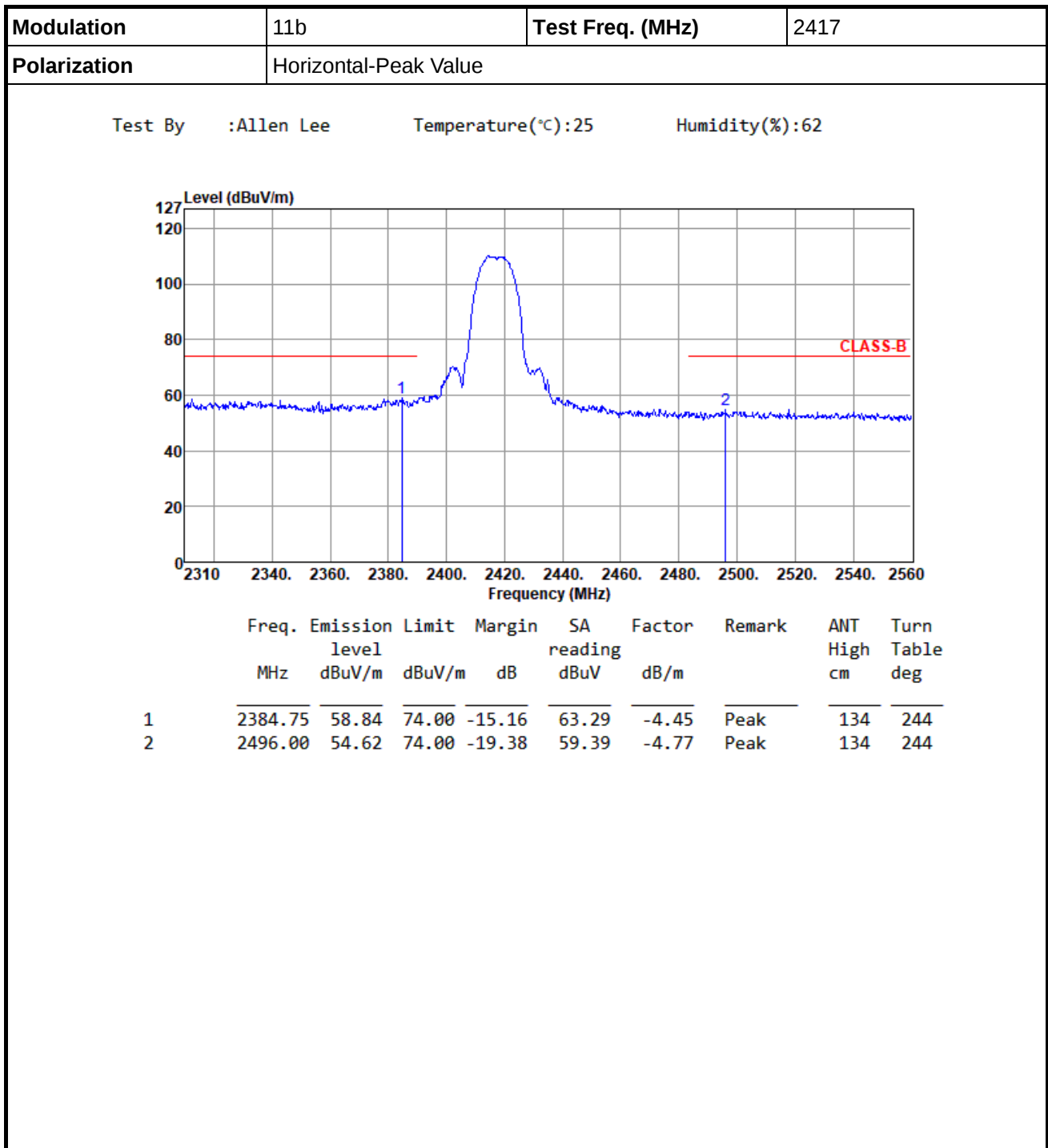
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	2.452G	101.29	Inf	-Inf	105.98	3	Vertical	260	1.36	-	27.48	4.78	36.95			
PK	2.452G	112.84	Inf	-Inf	117.53	3	Vertical	260	1.36	-	27.48	4.78	36.95			
AV	4.904G	36.47	54.00	-17.53	36.85	3	Vertical	215	1.00	-	31.40	6.80	38.58			
PK	4.904G	49.51	74.00	-24.49	49.89	3	Vertical	215	1.00	-	31.40	6.80	38.58			
AV	7.356G	36.78	54.00	-17.22	31.38	3	Vertical	26	1.00	-	36.20	8.64	39.44			
PK	7.356G	50.05	74.00	-23.95	44.65	3	Vertical	26	1.00	-	36.20	8.64	39.44			

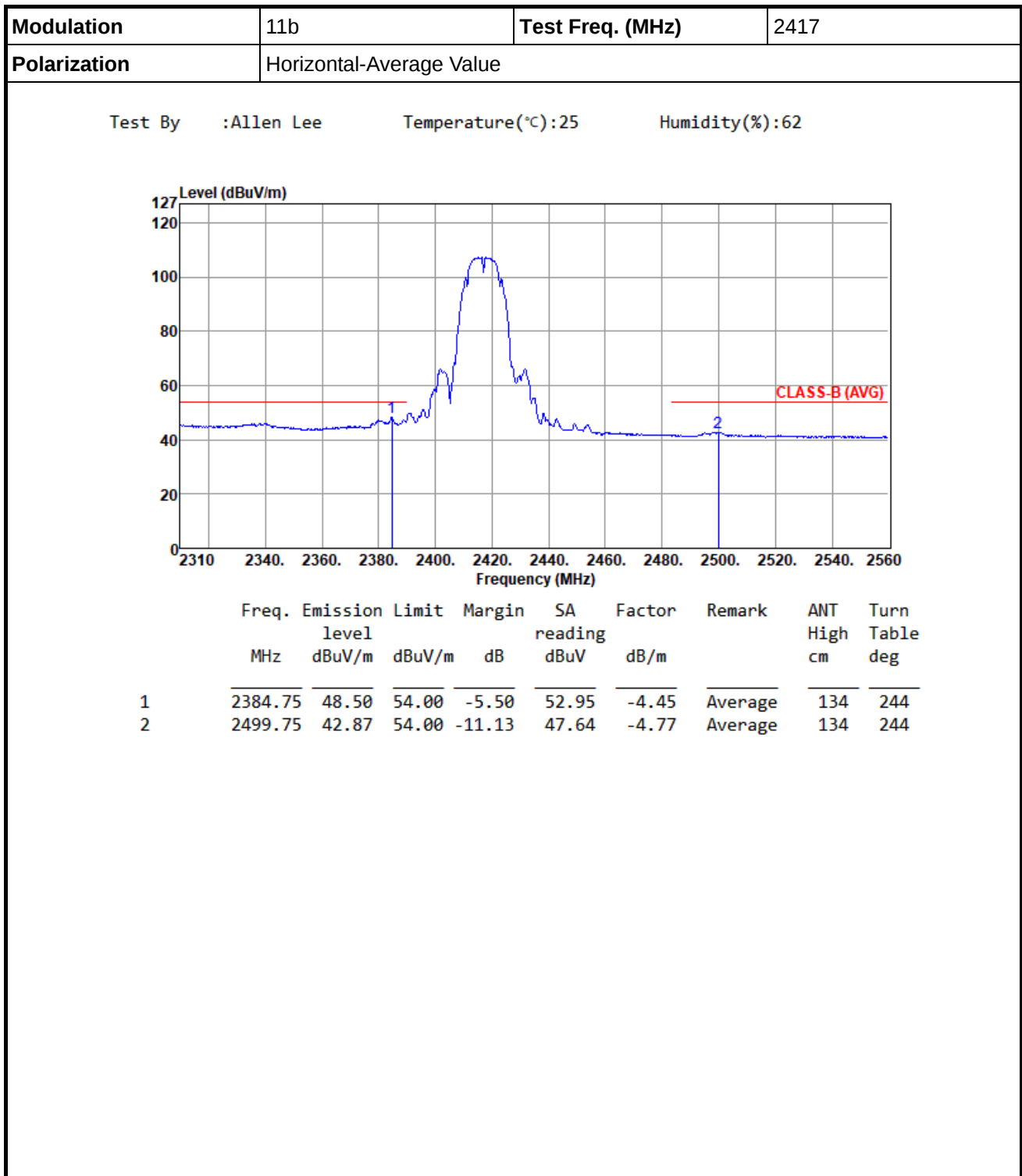


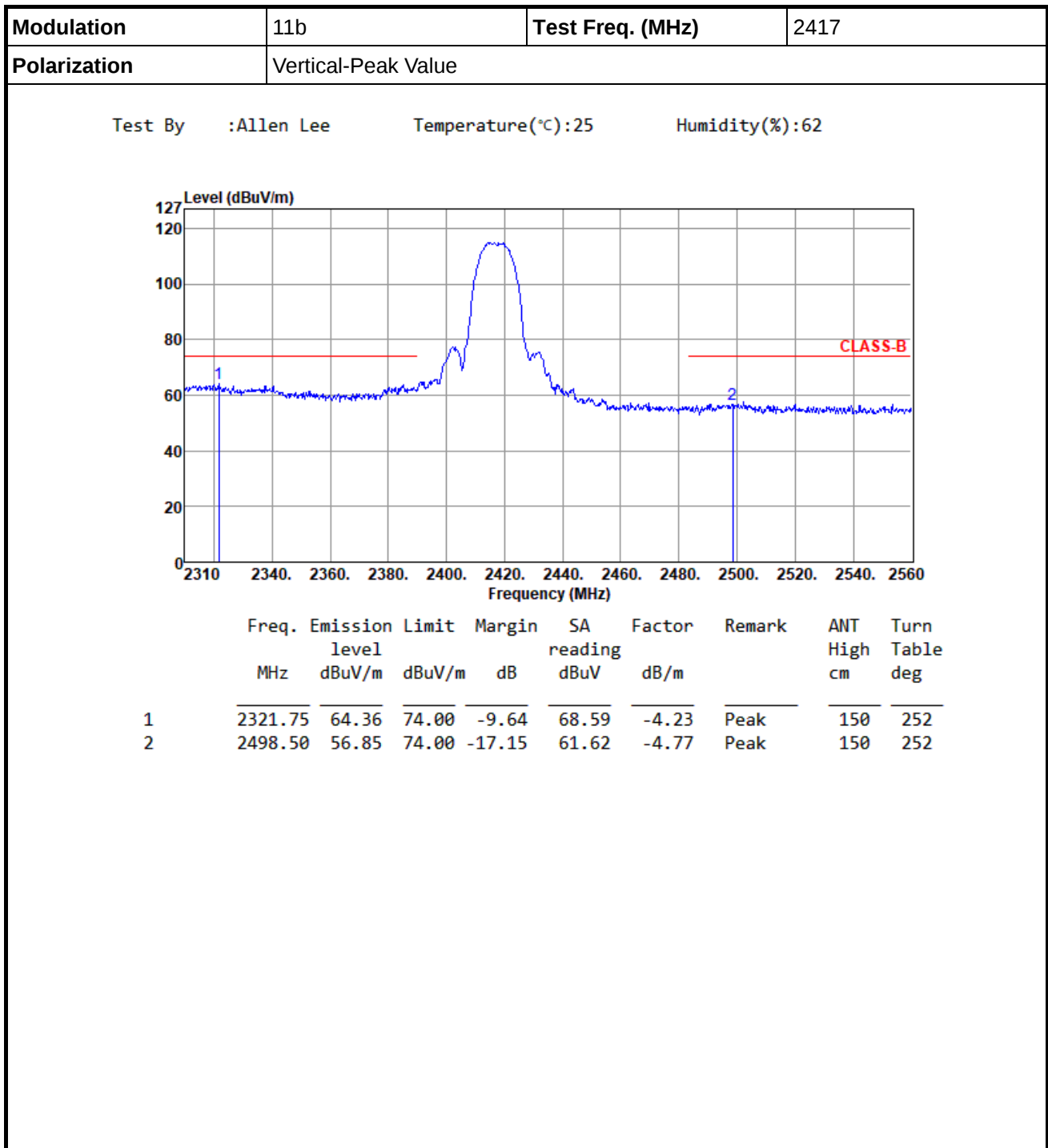


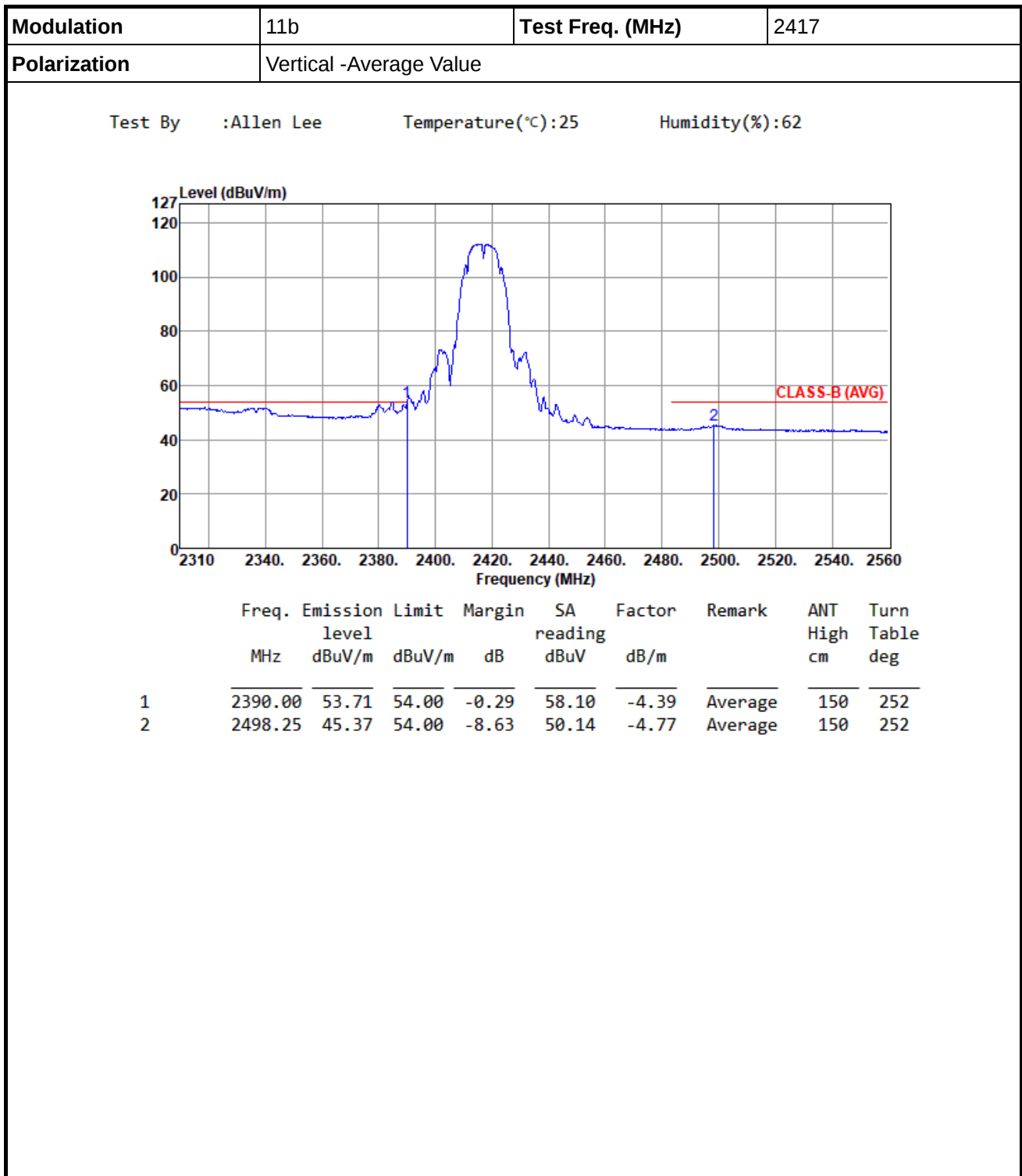


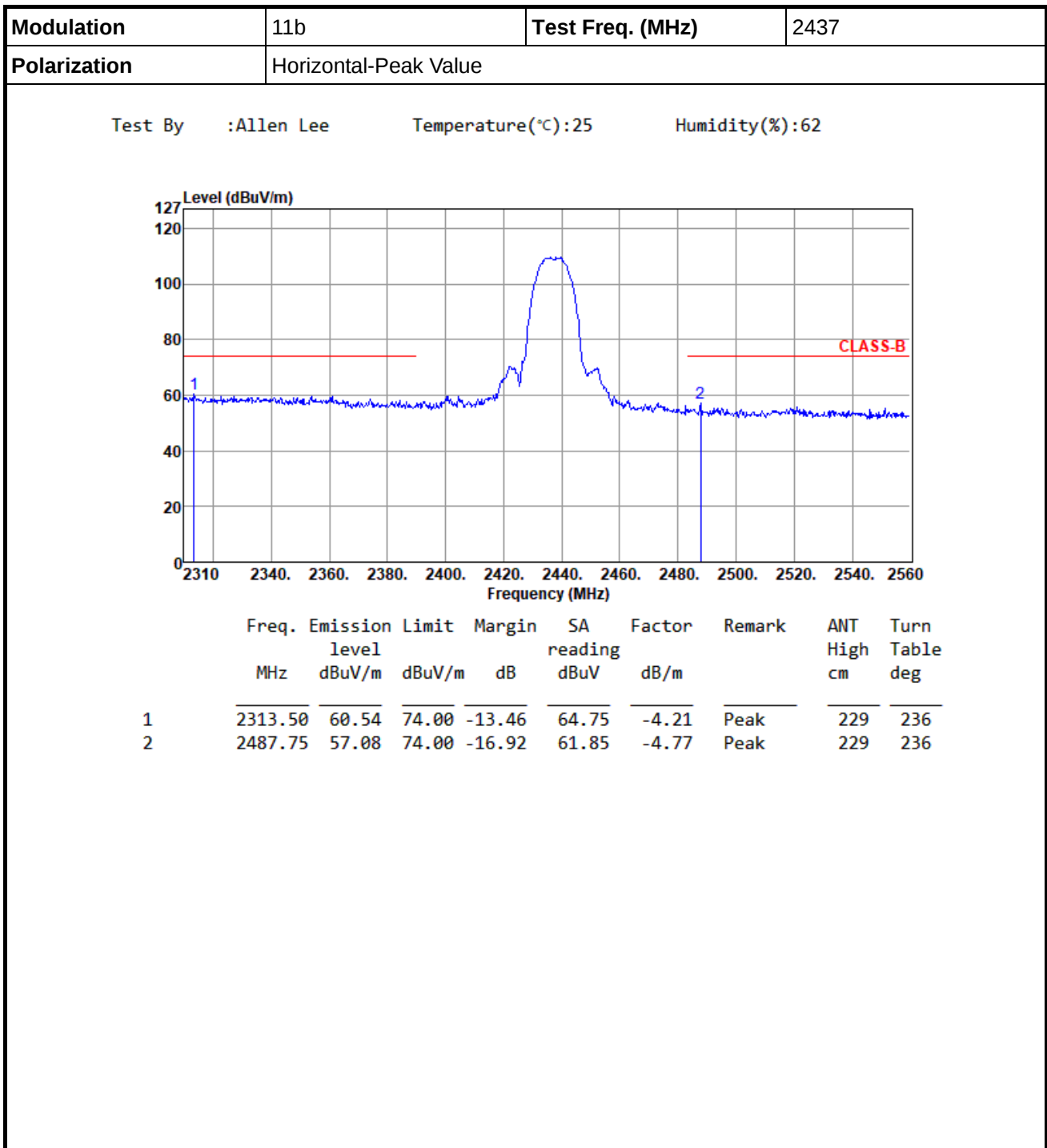


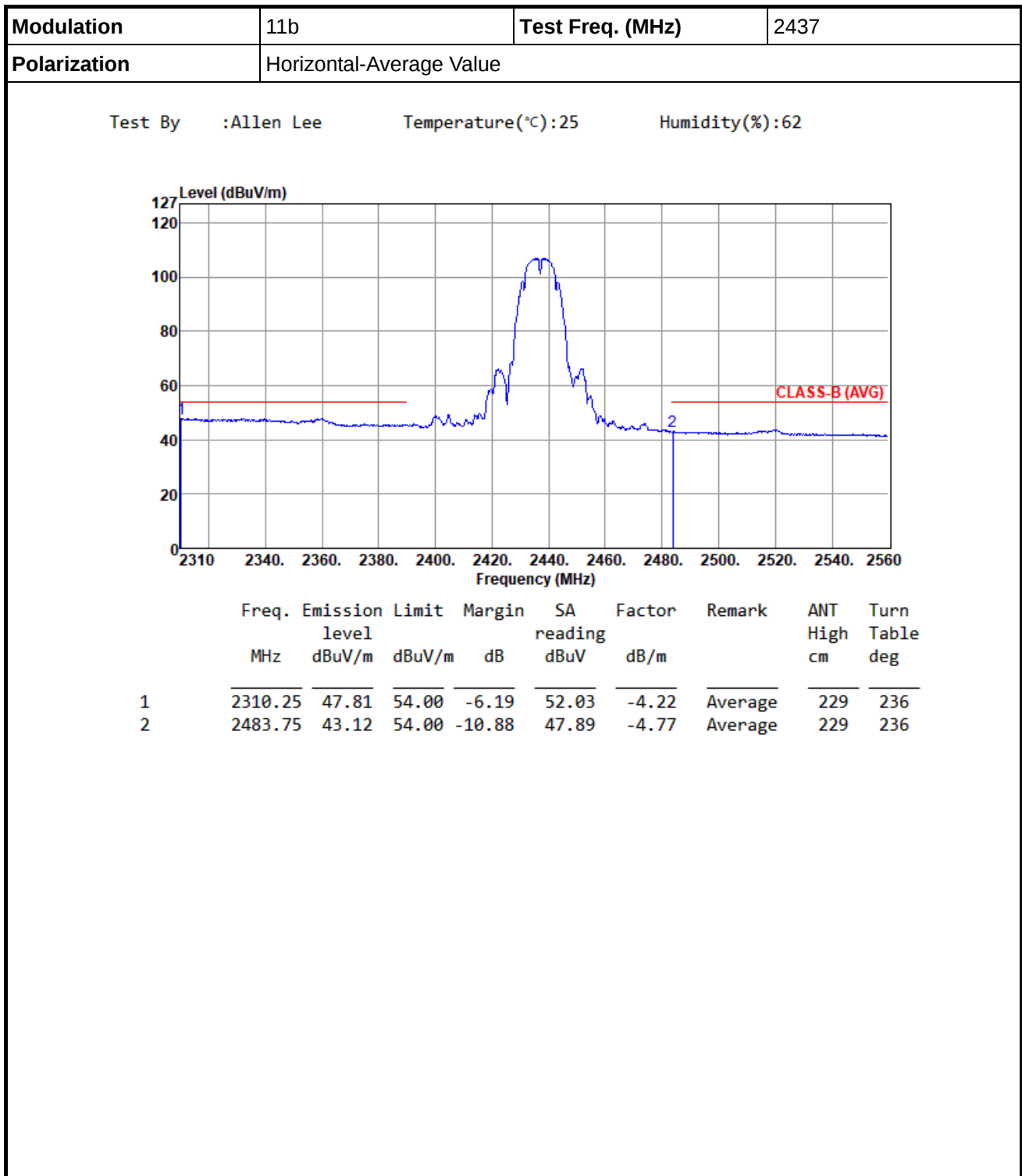


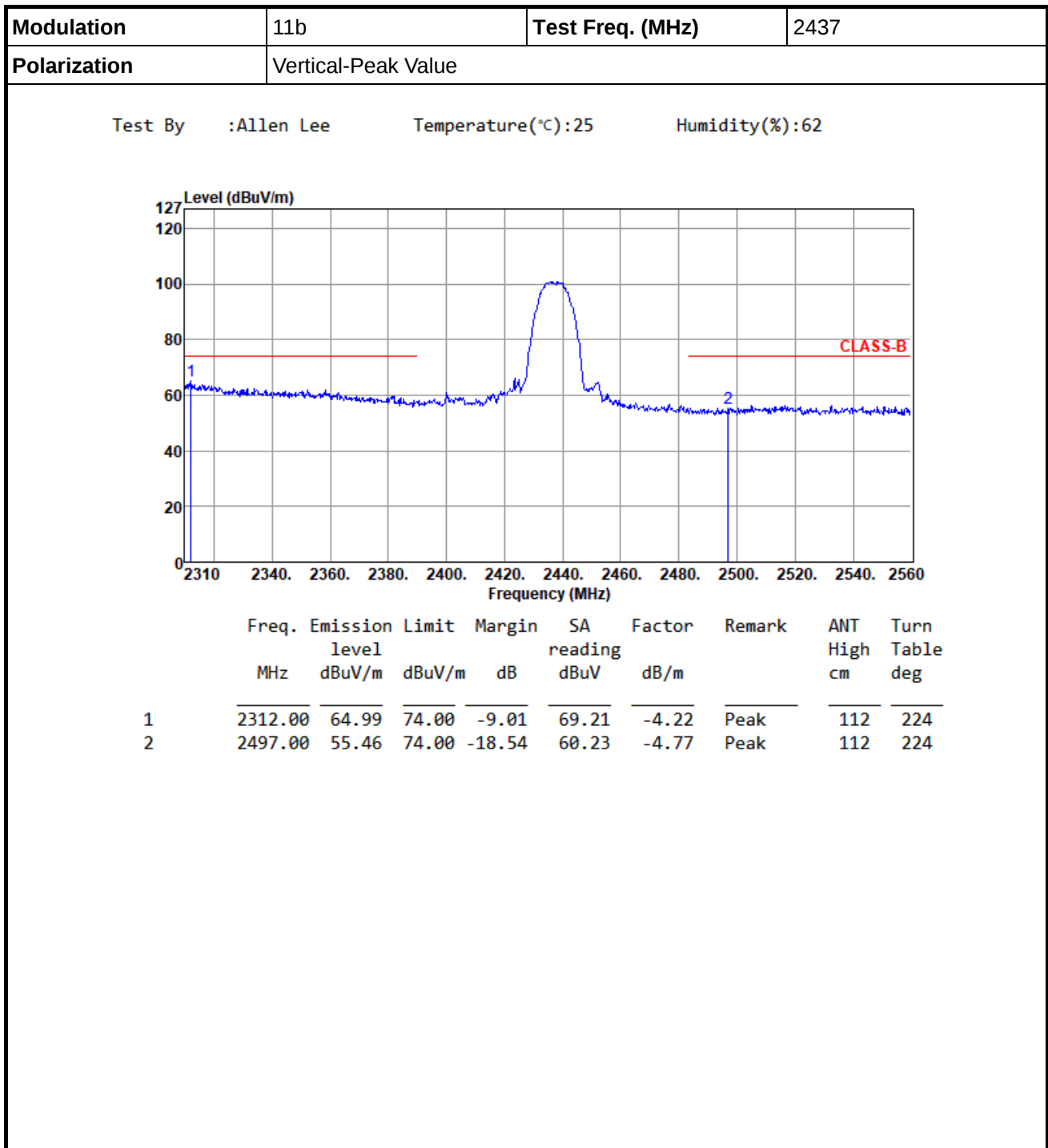


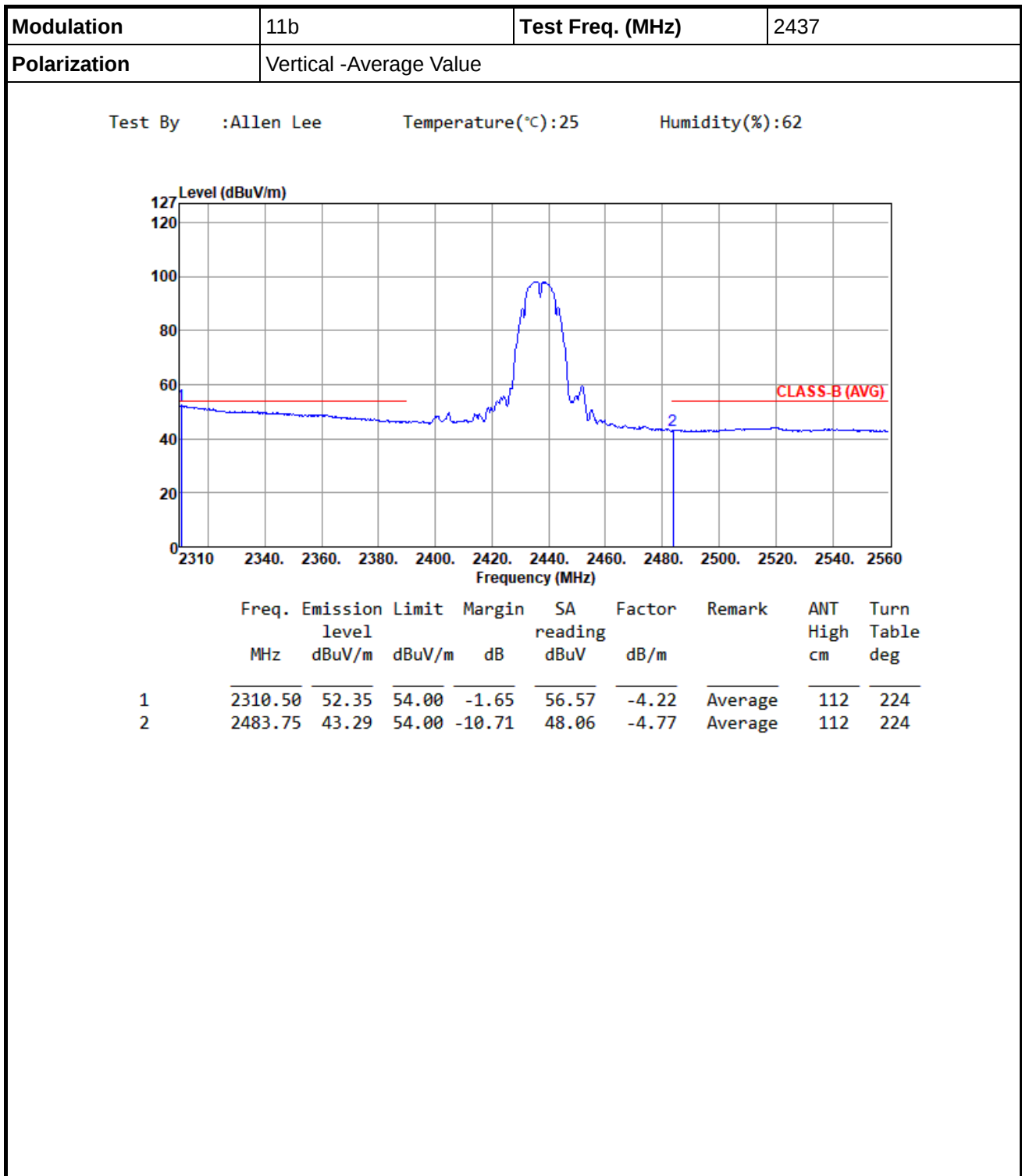


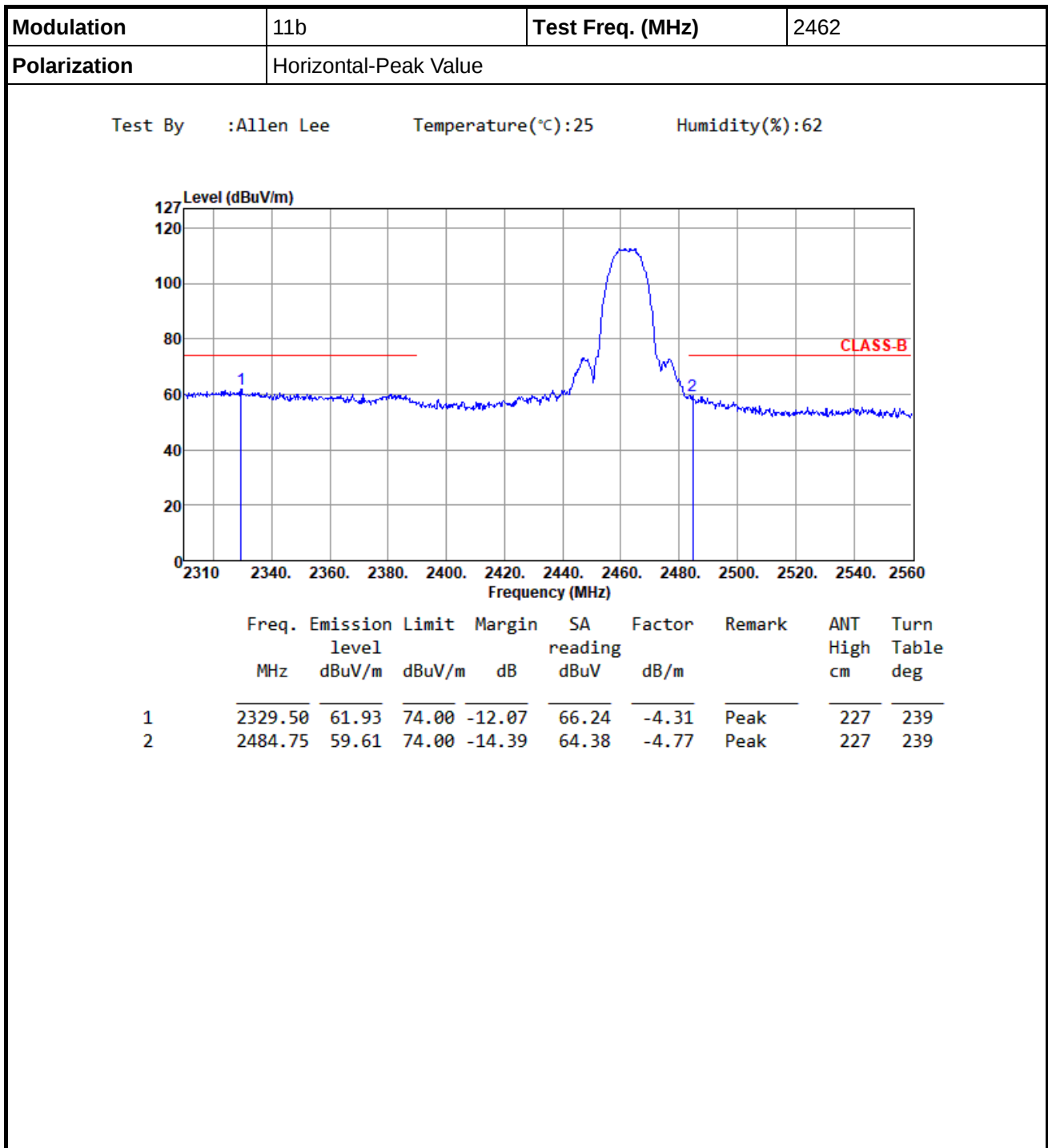


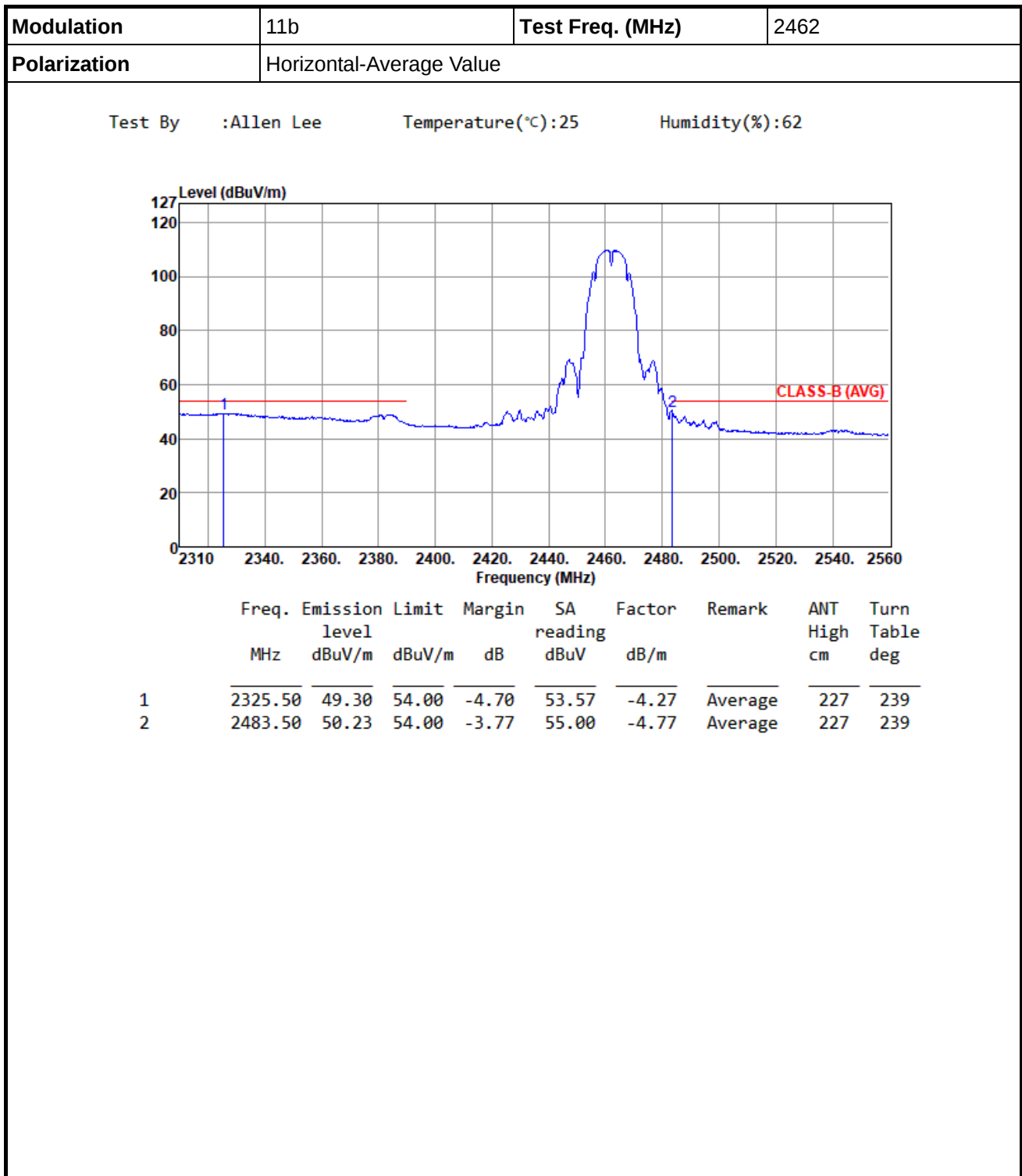


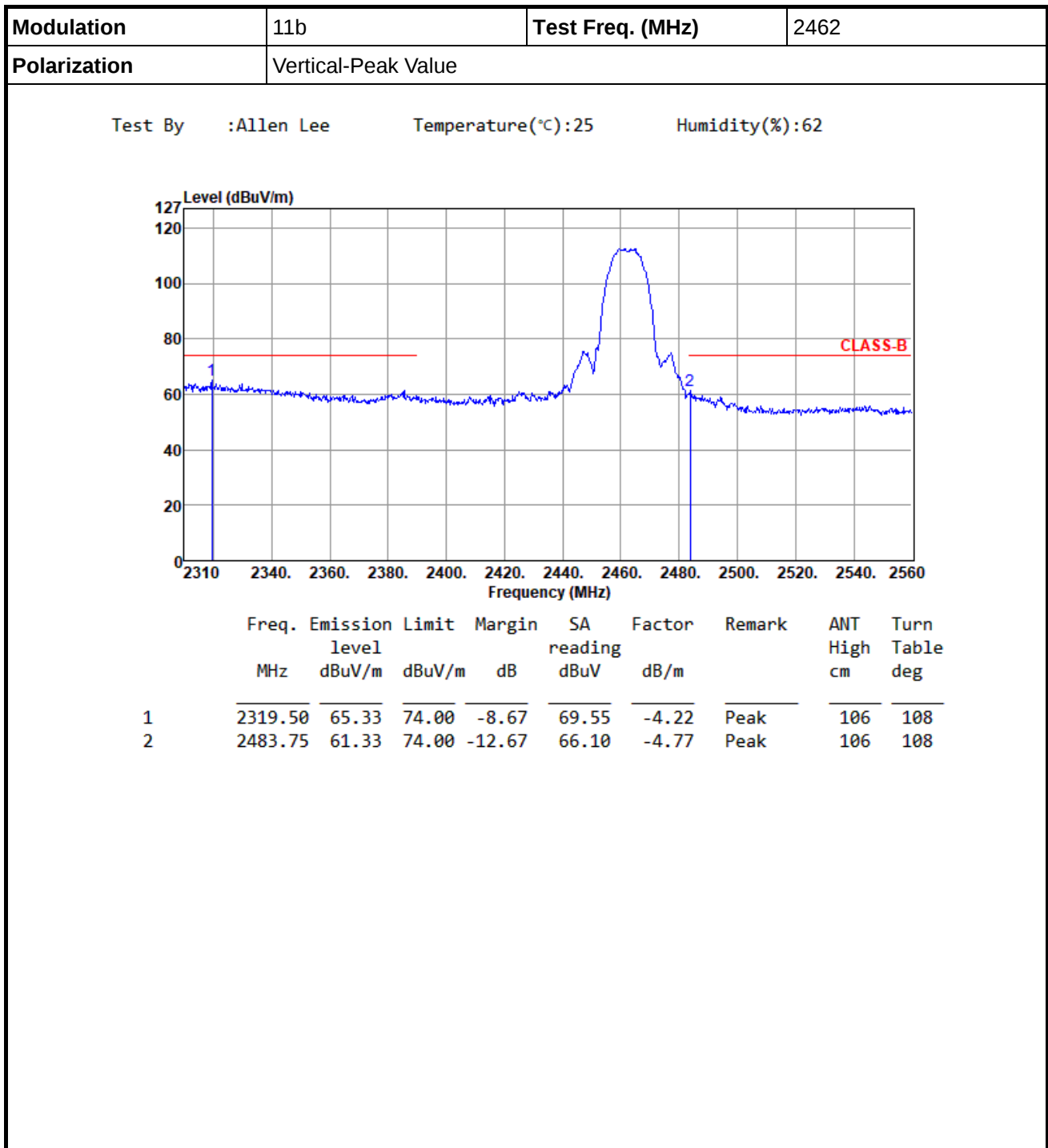


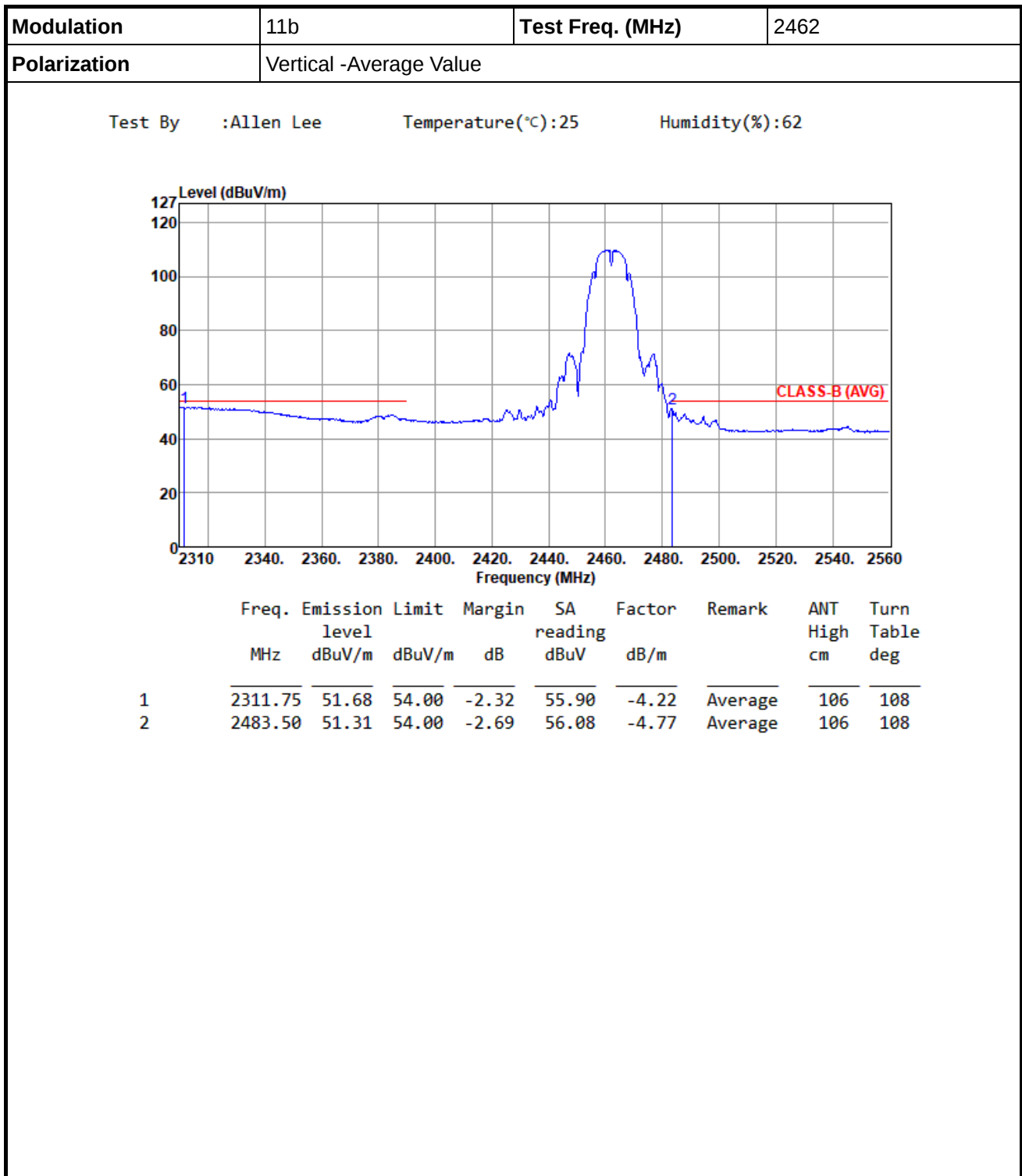


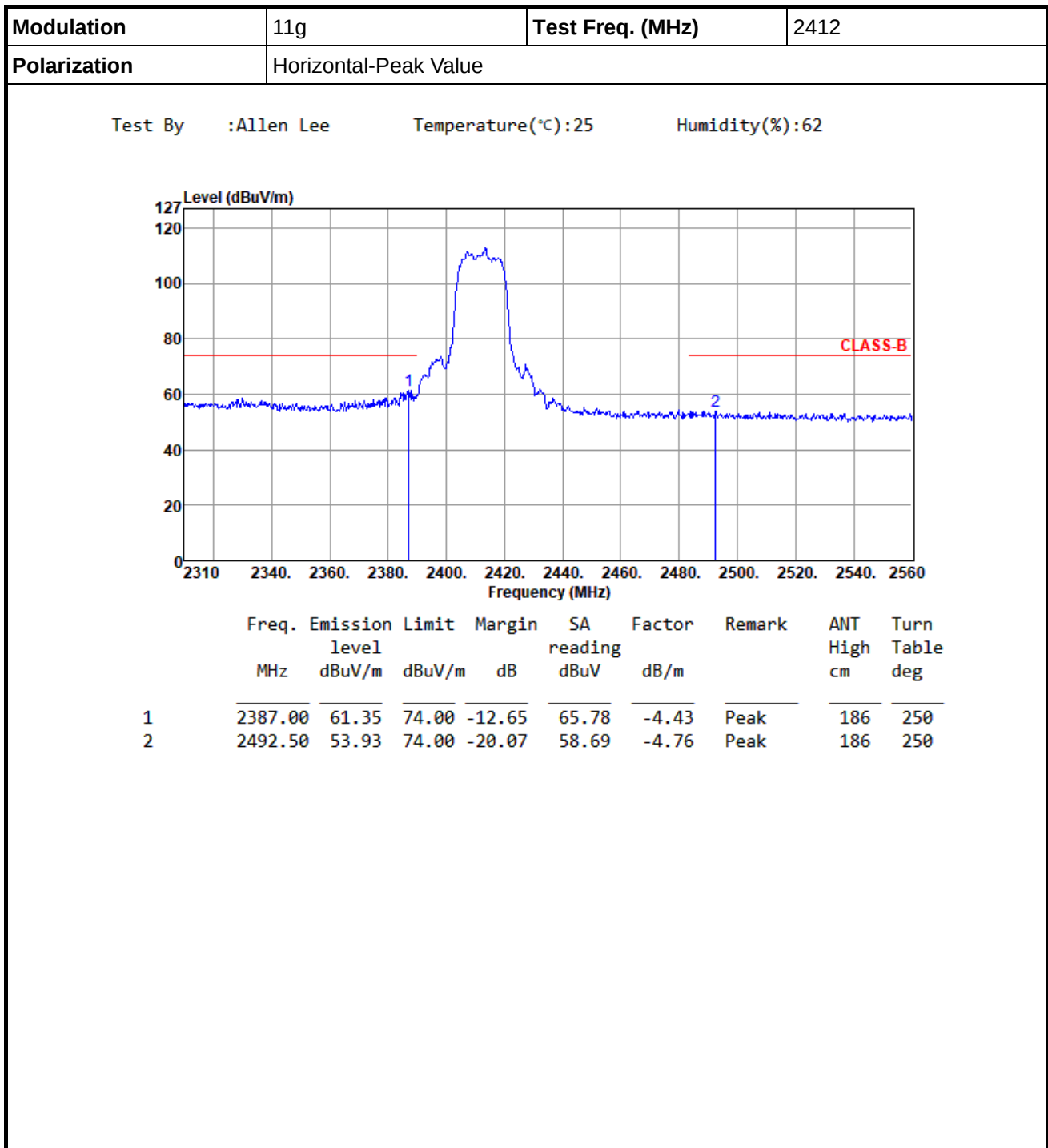


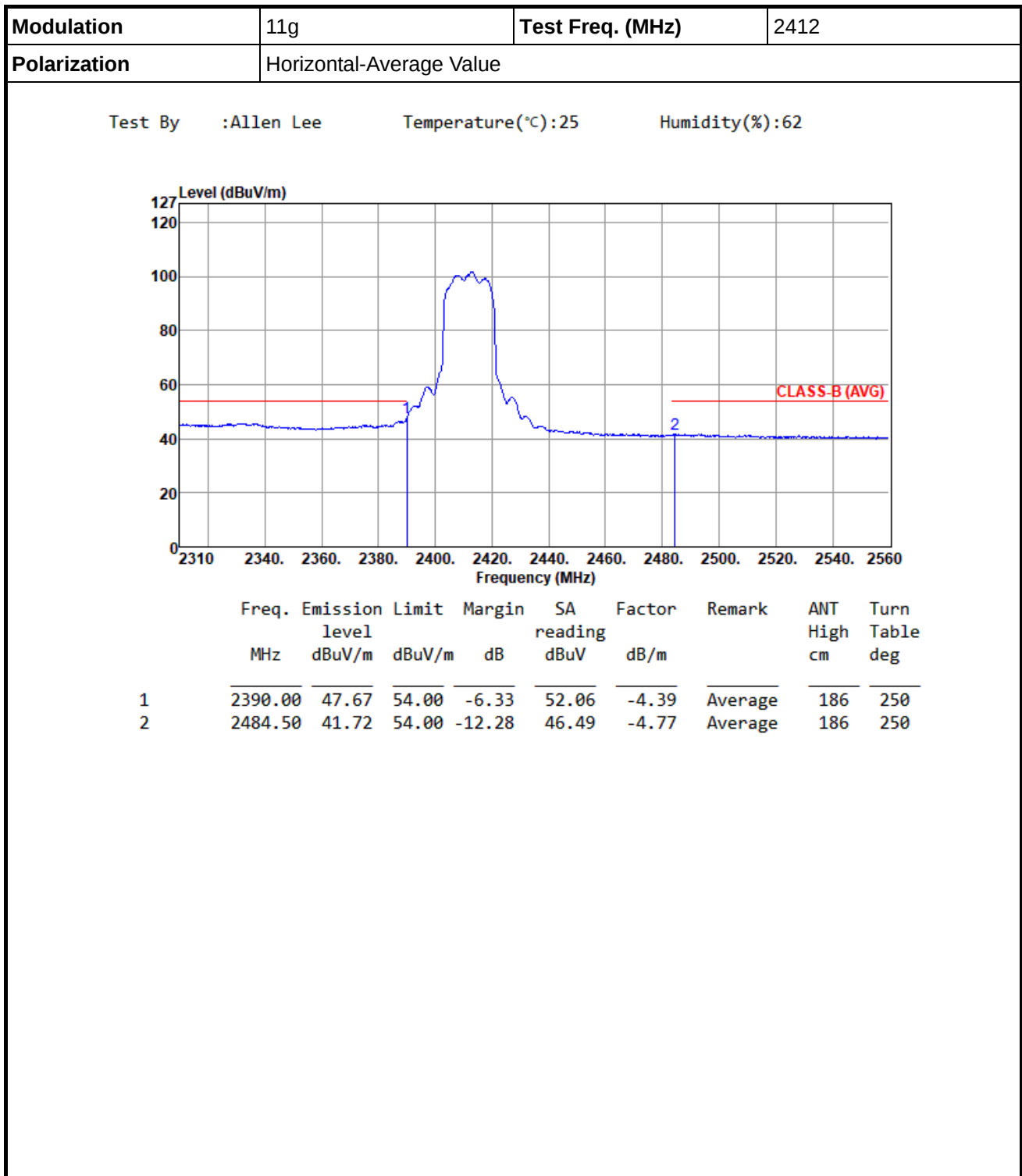


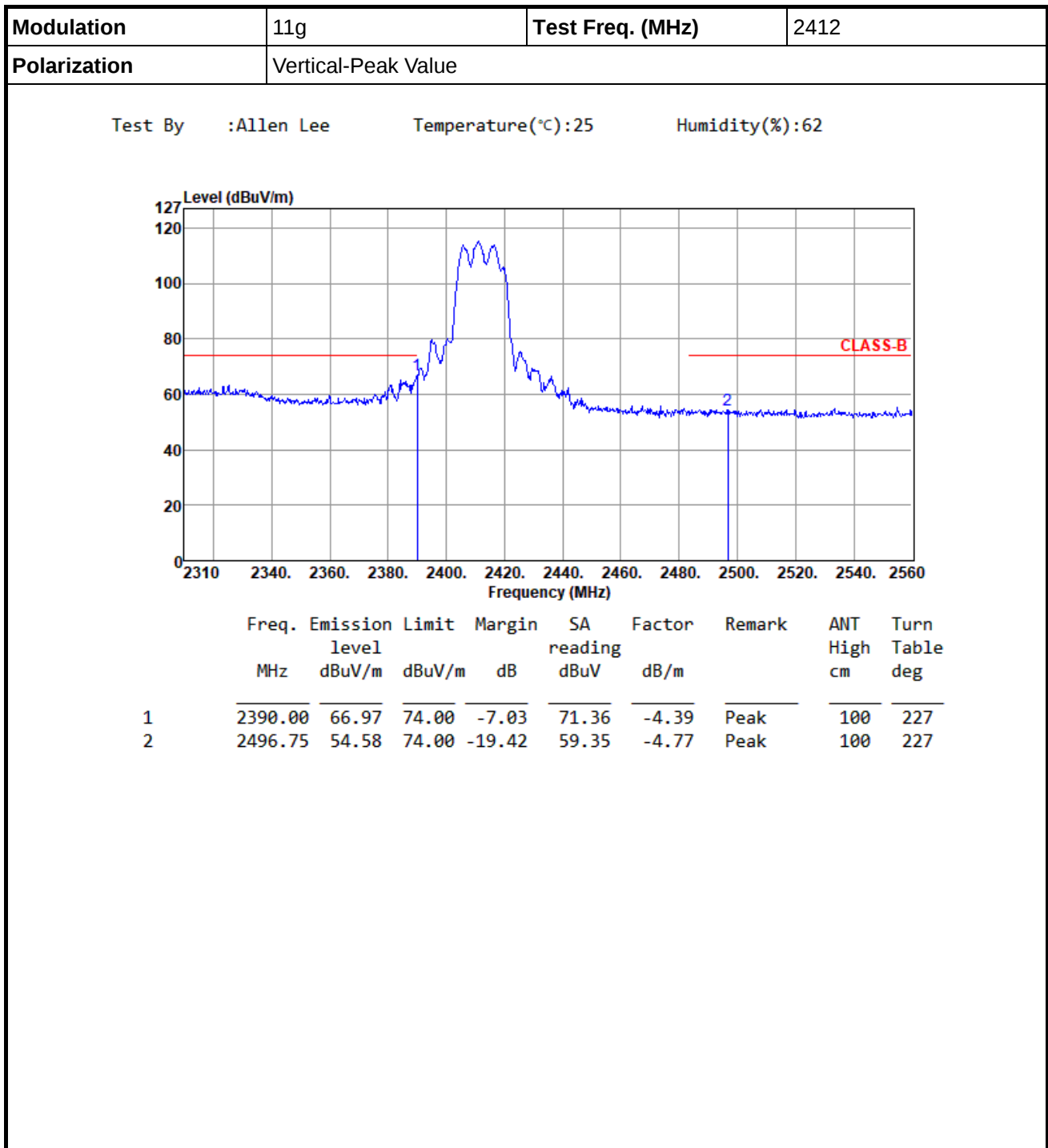


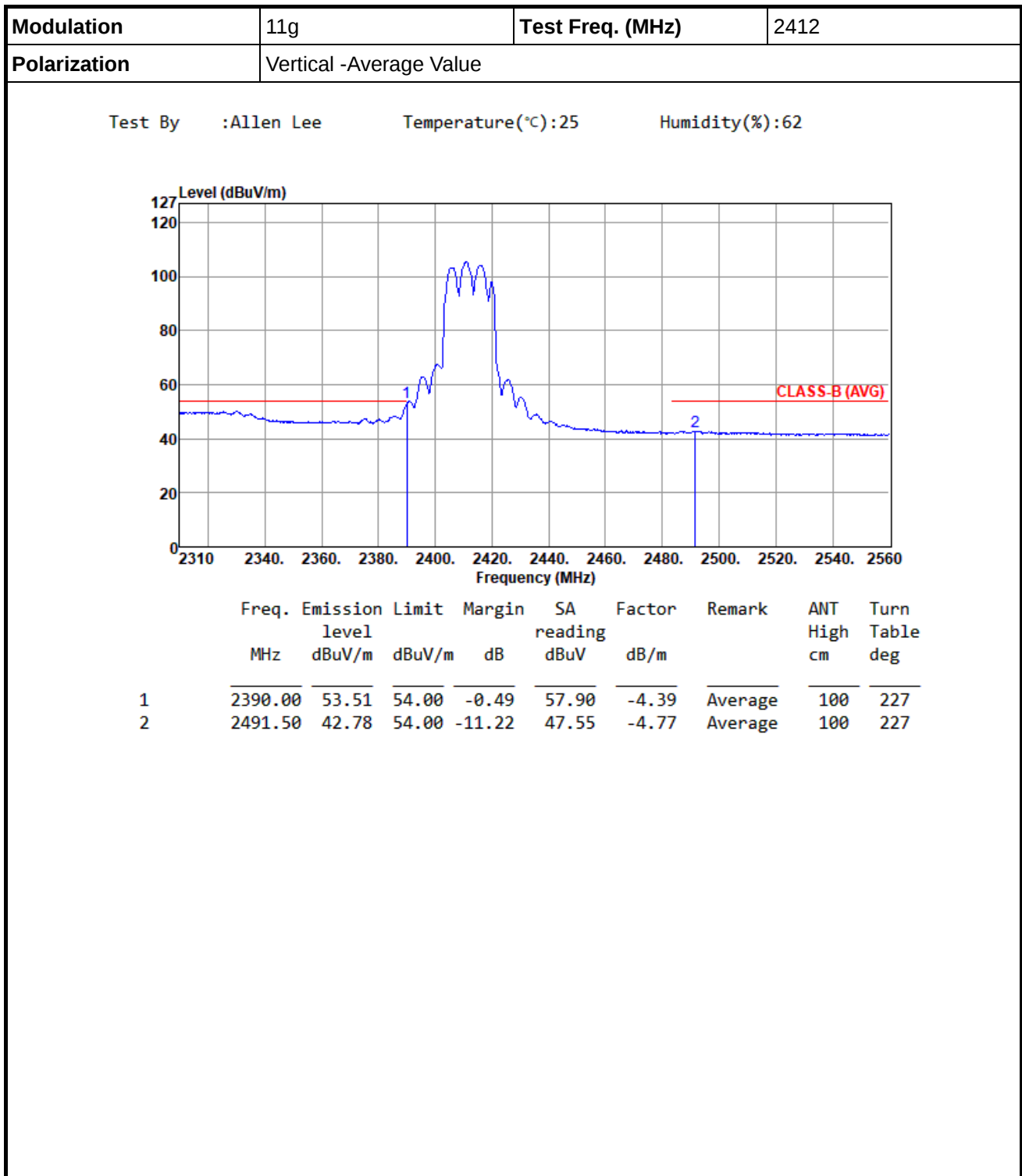


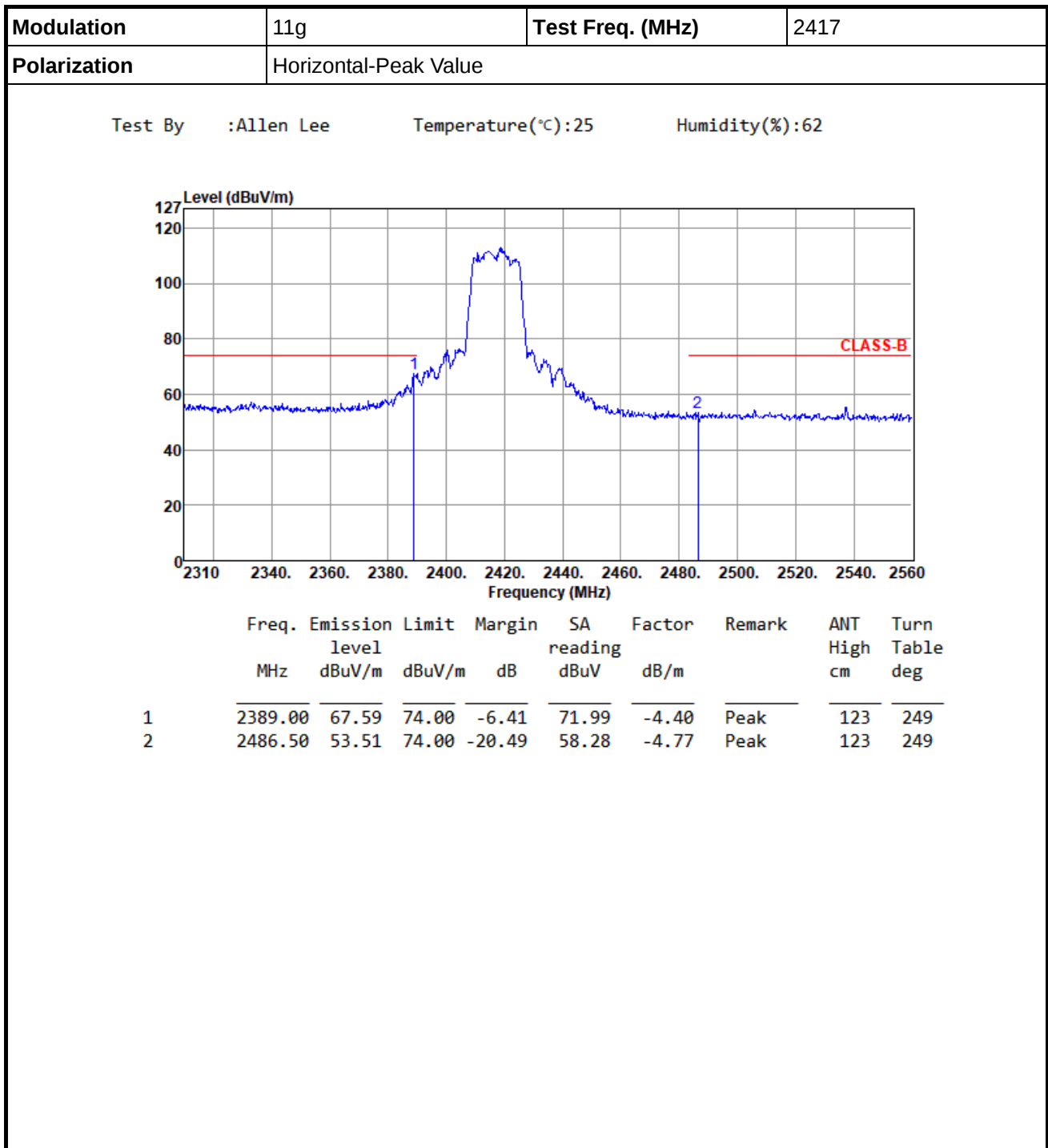


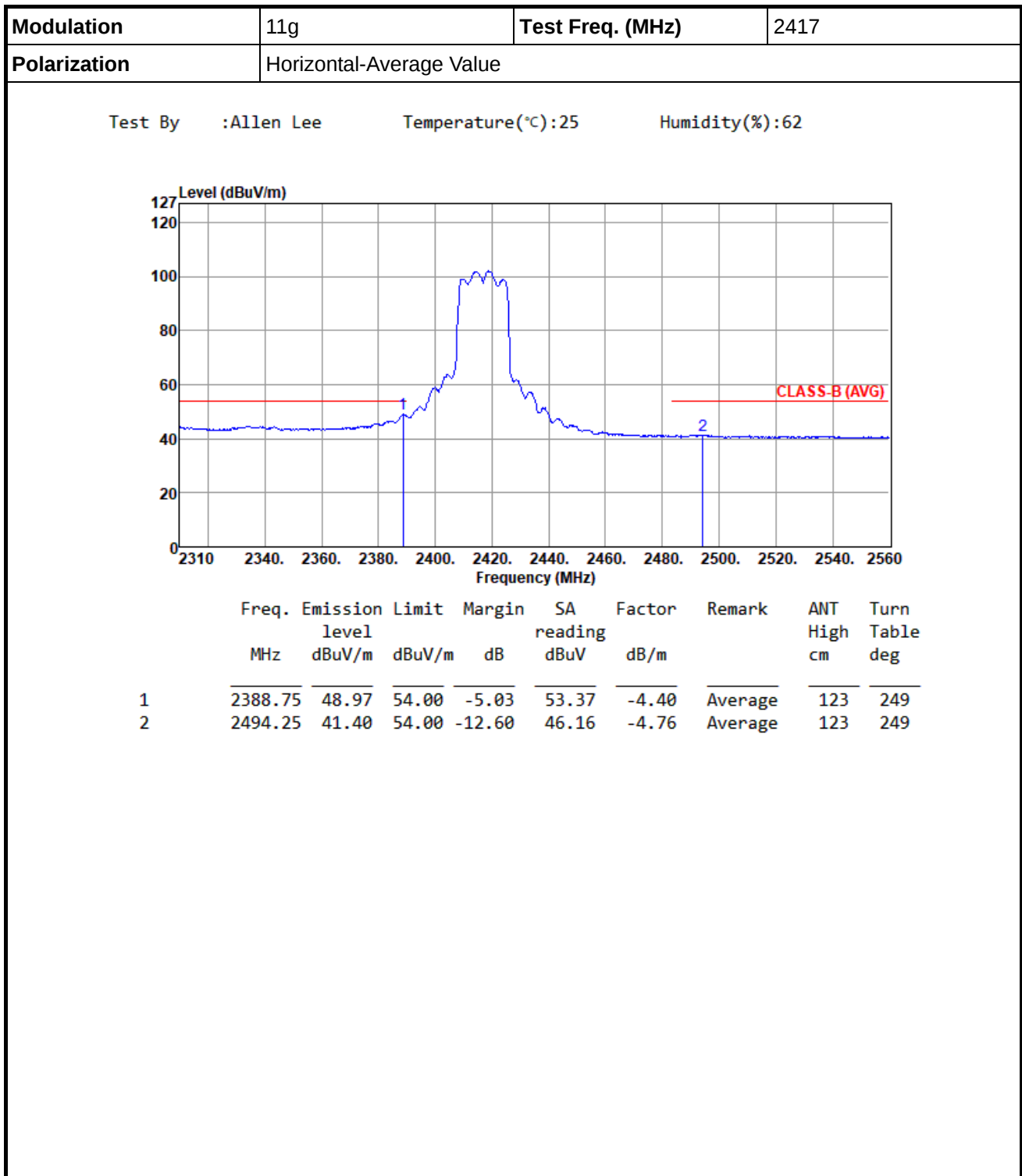


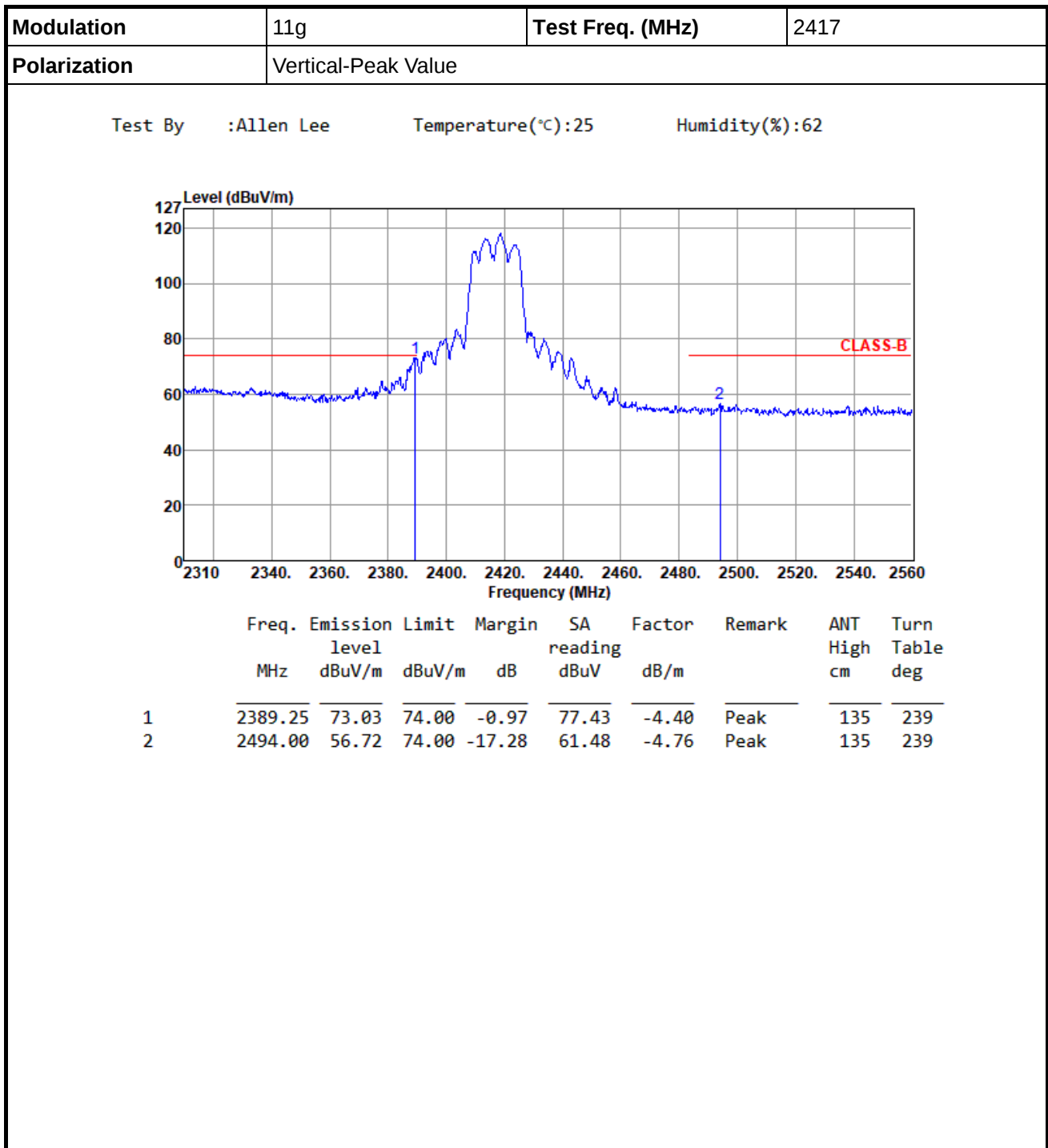


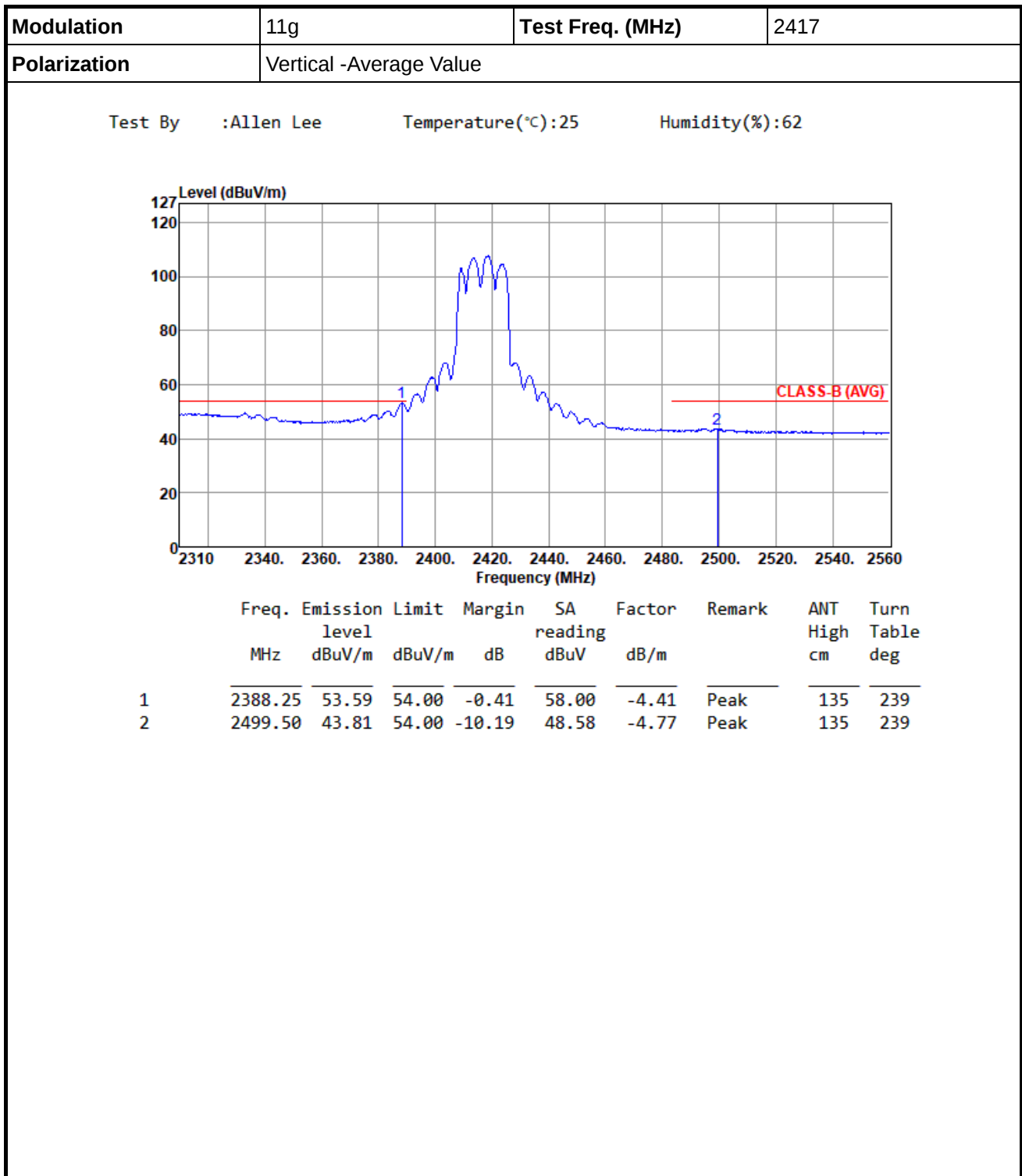


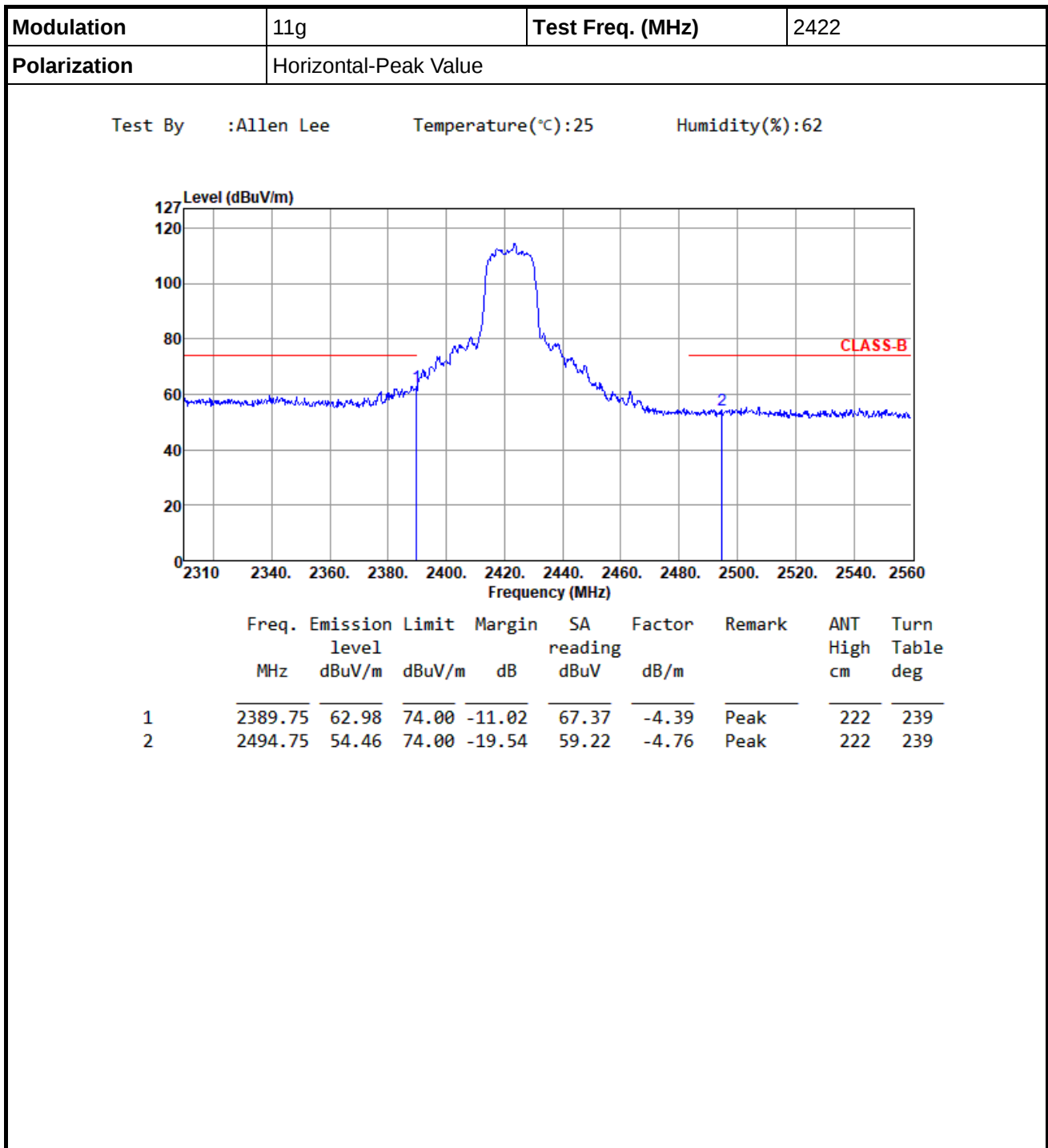


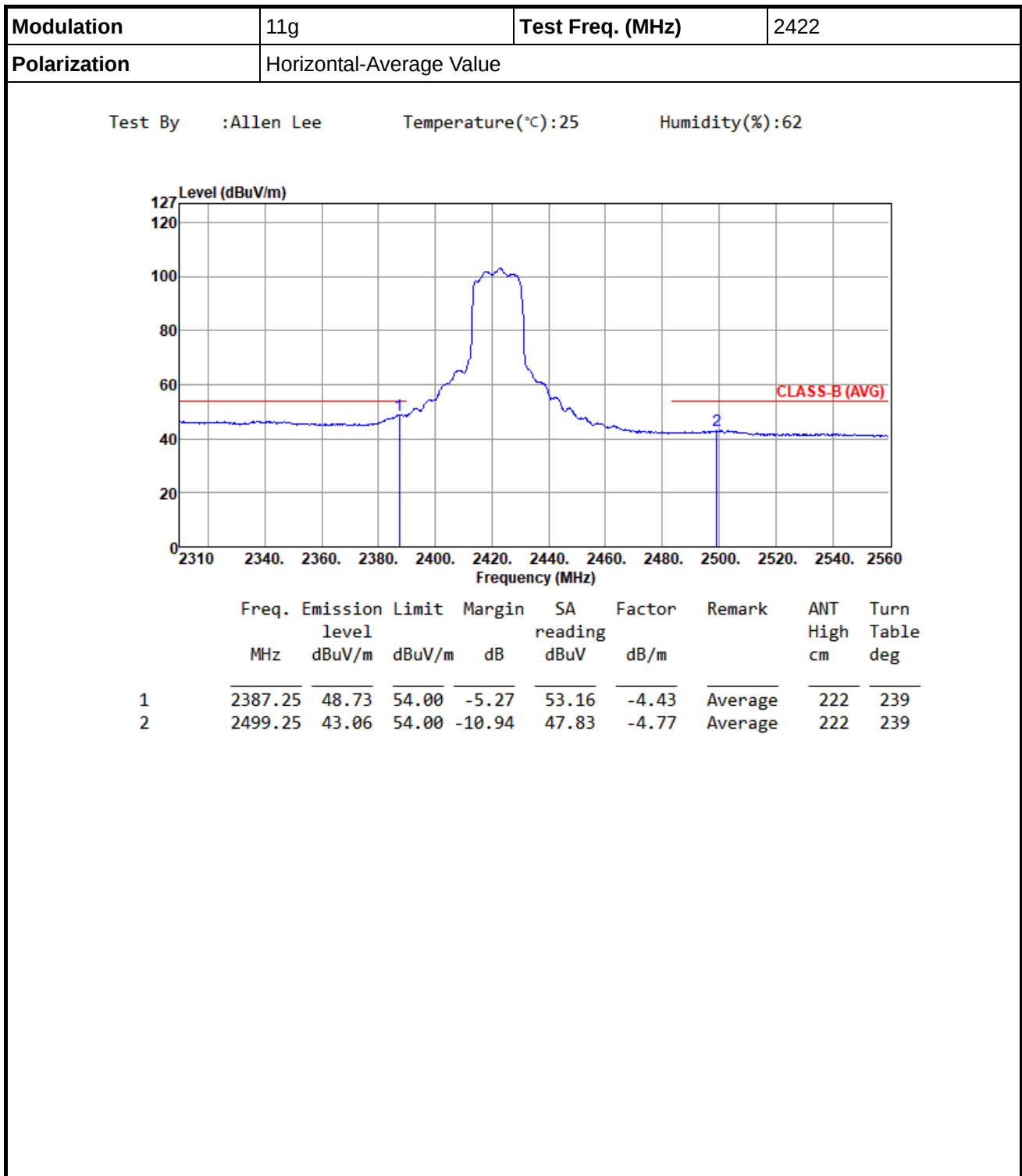


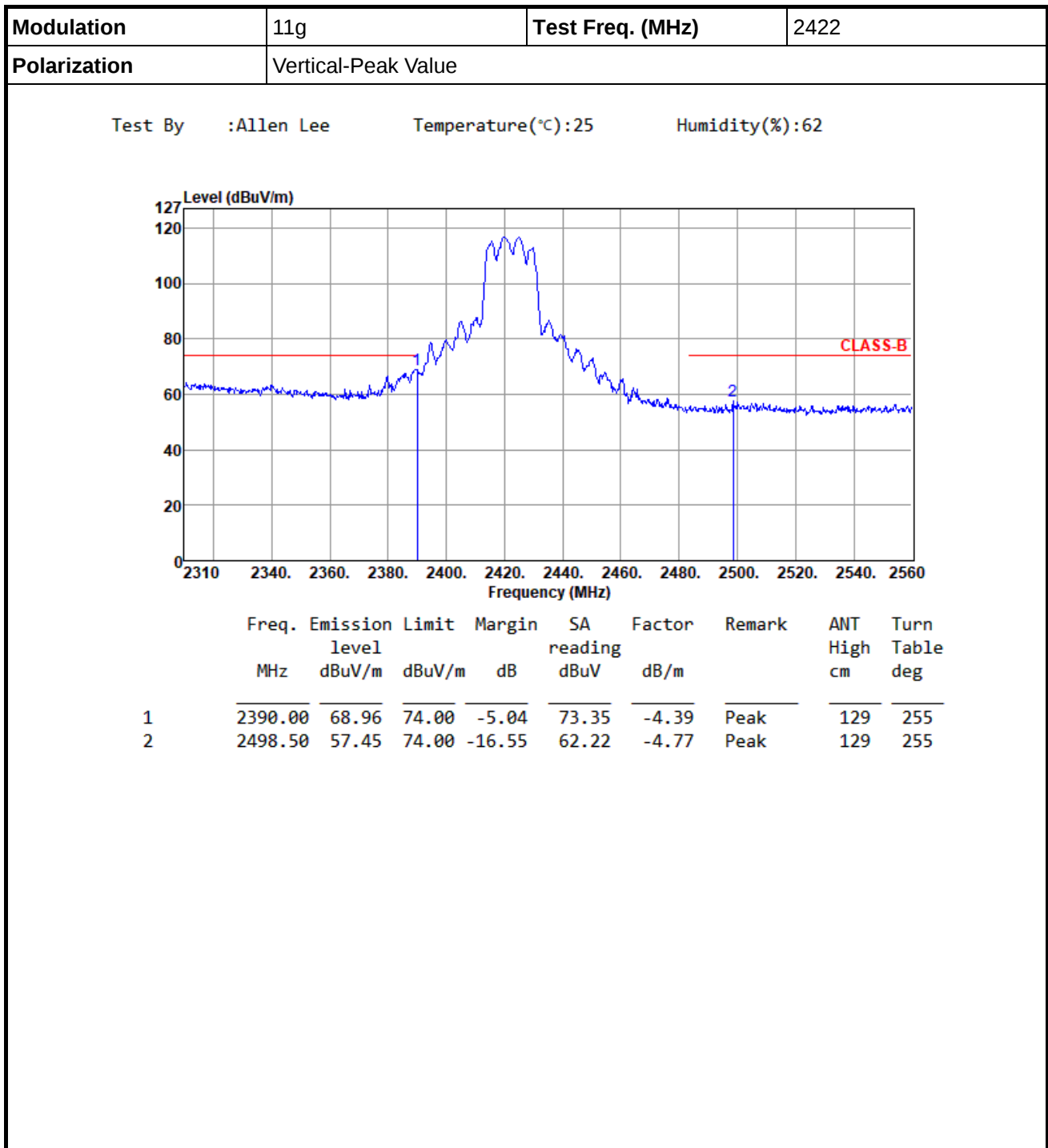


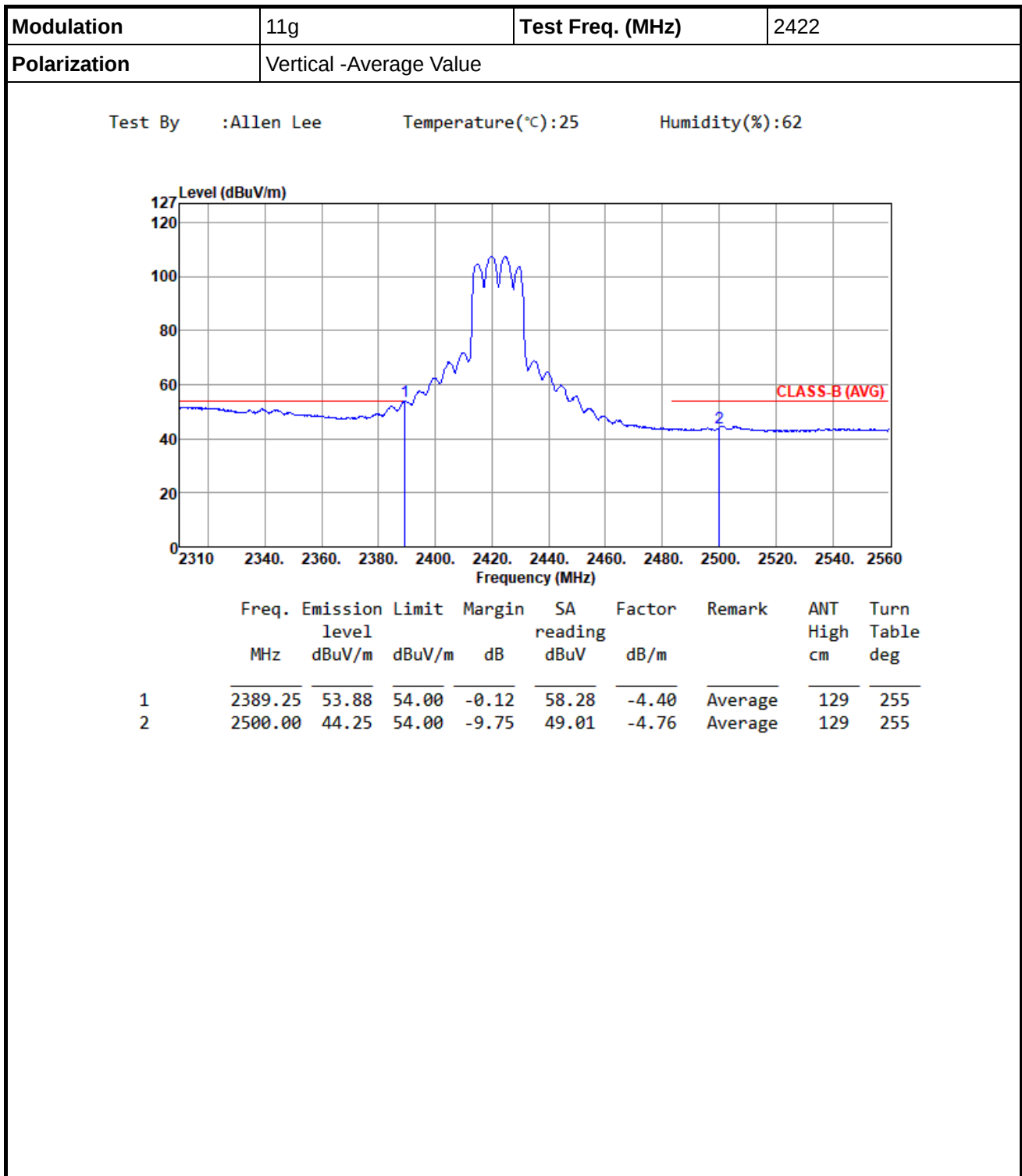


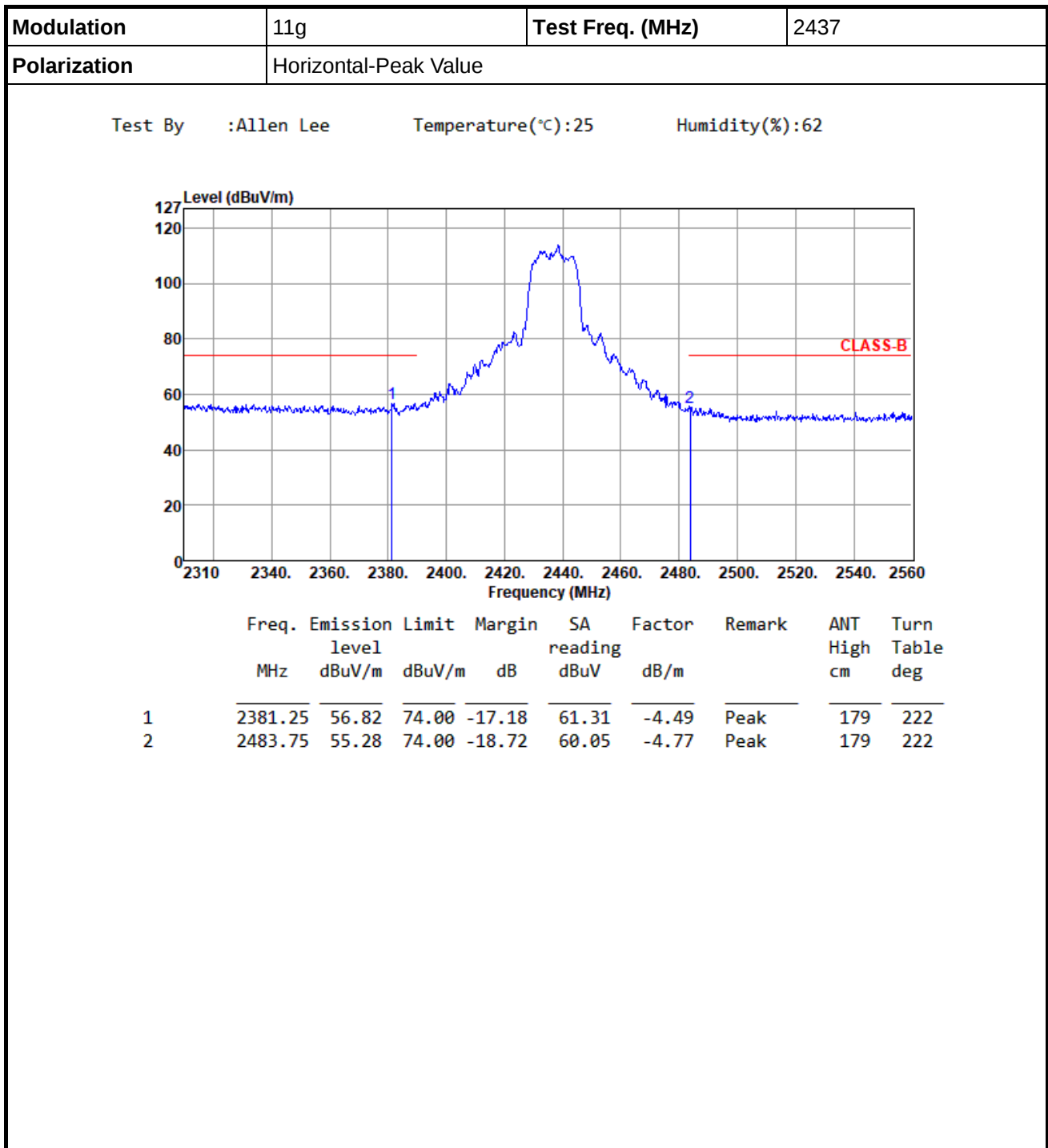


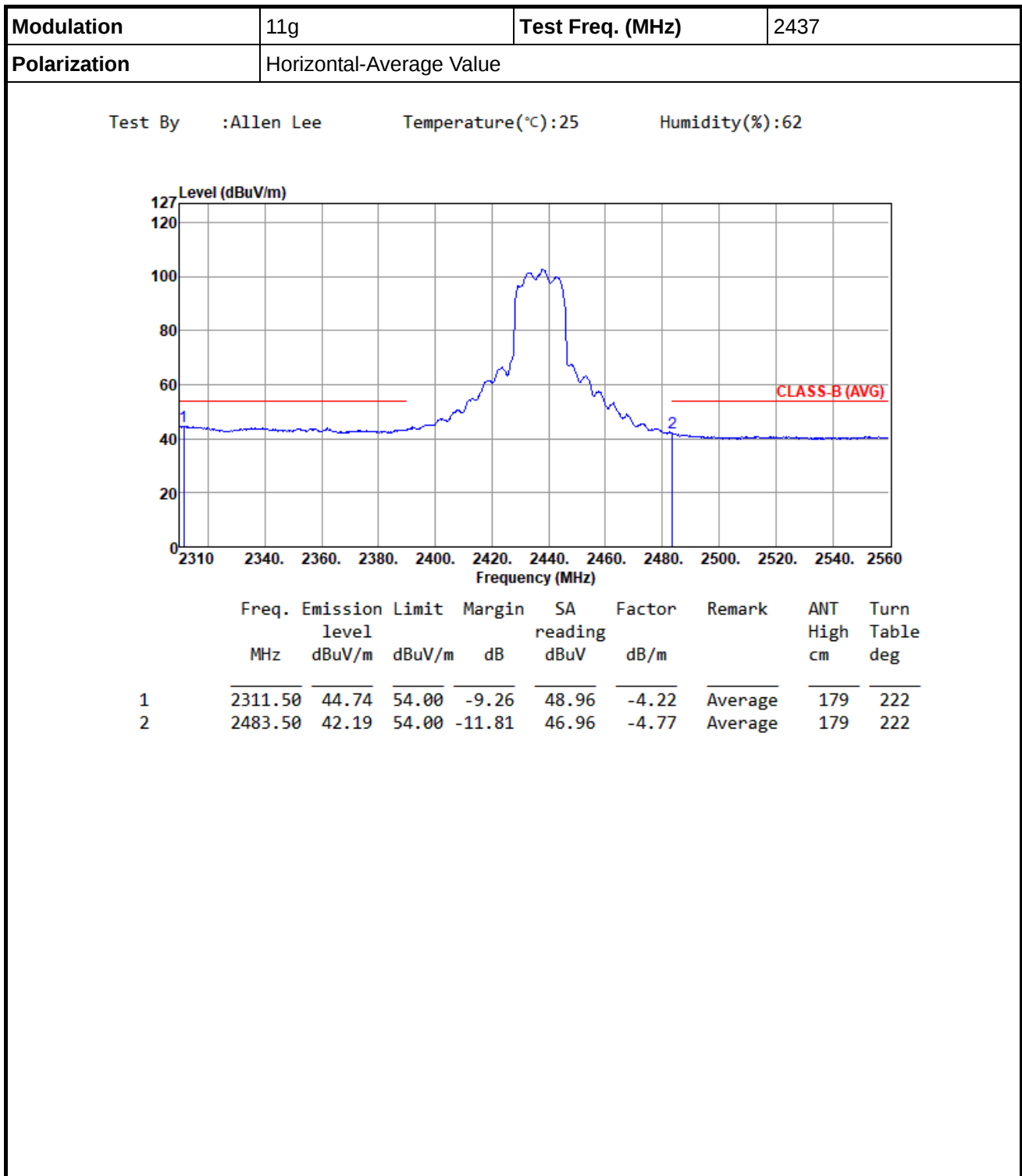


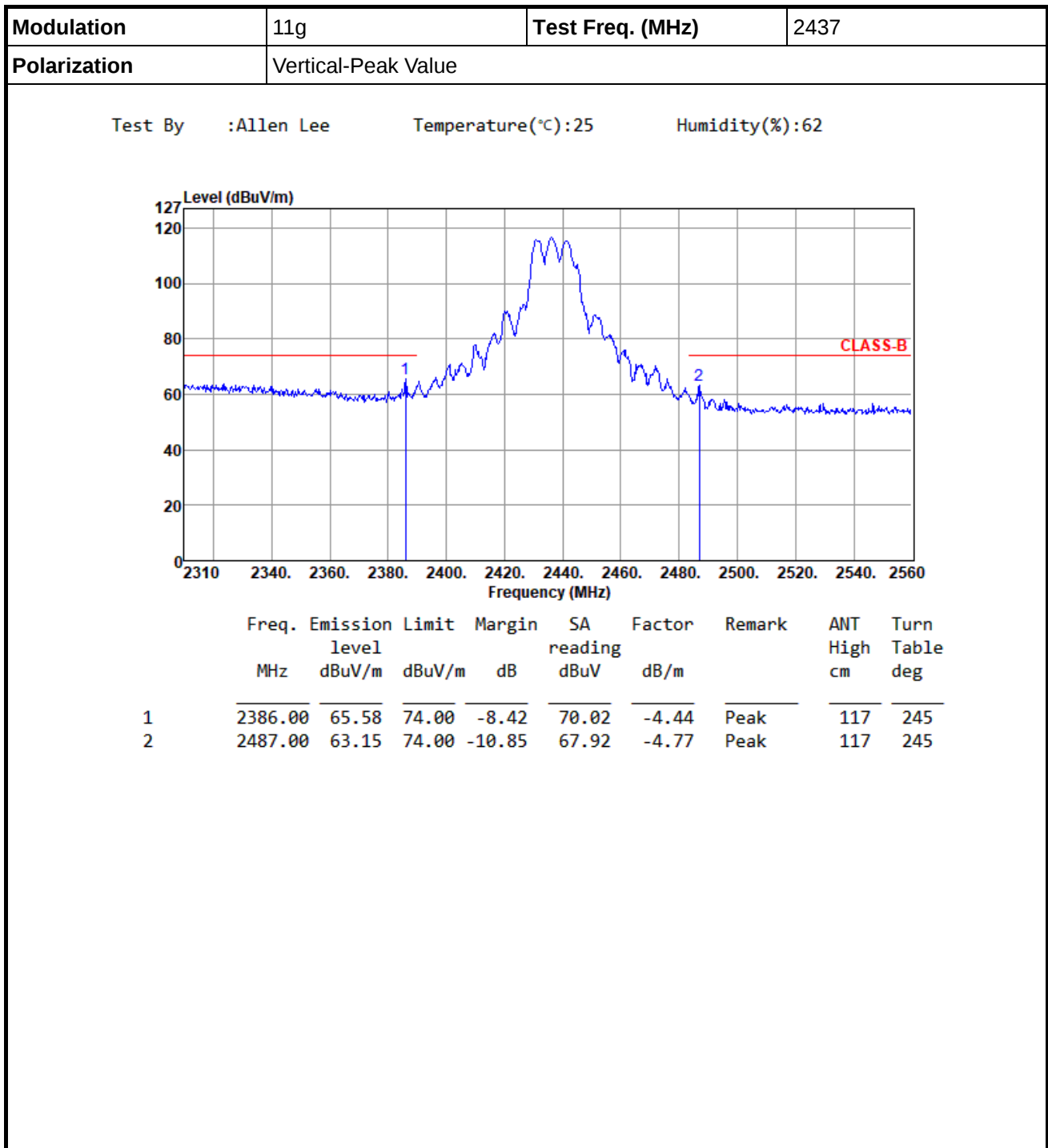


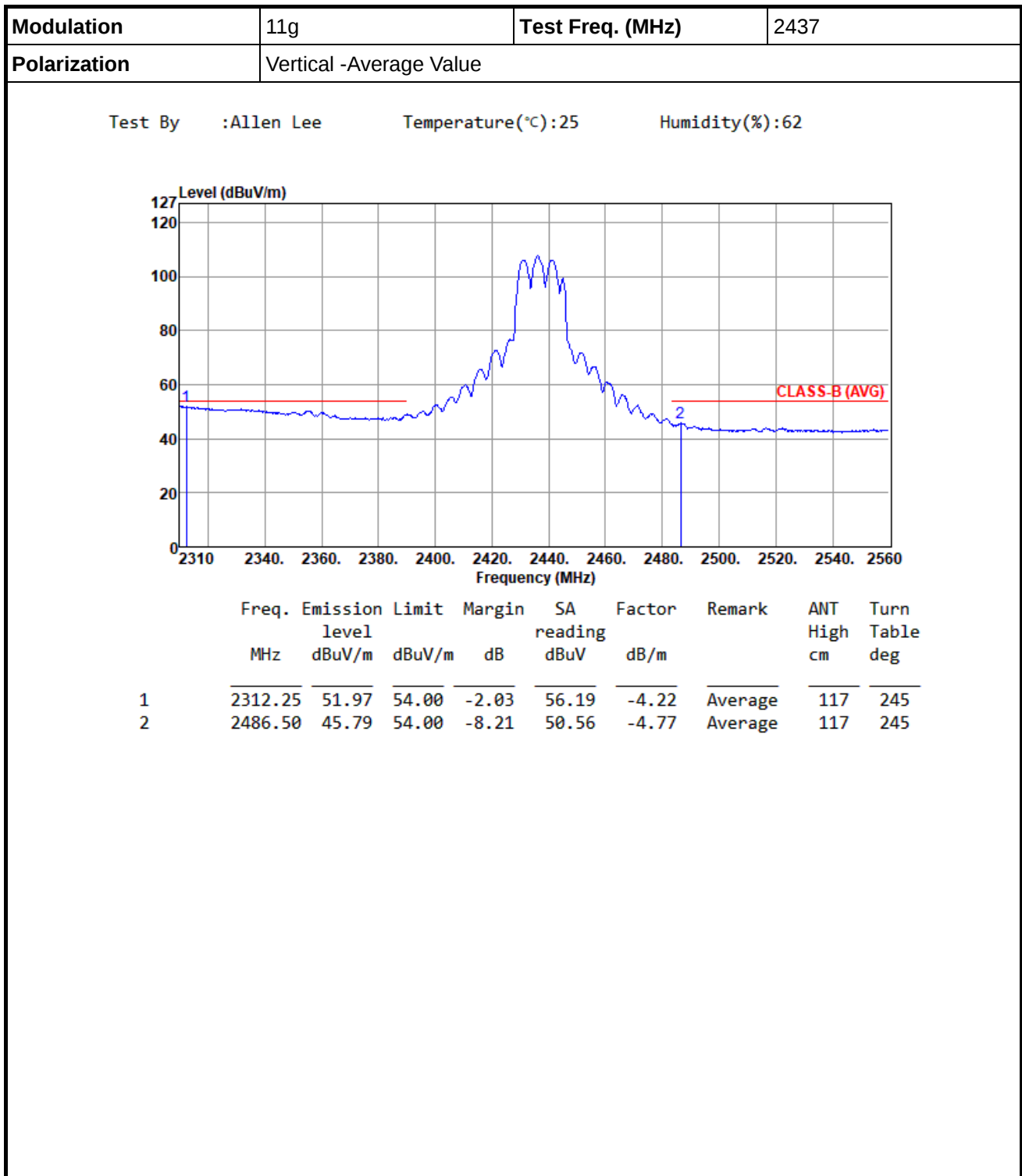


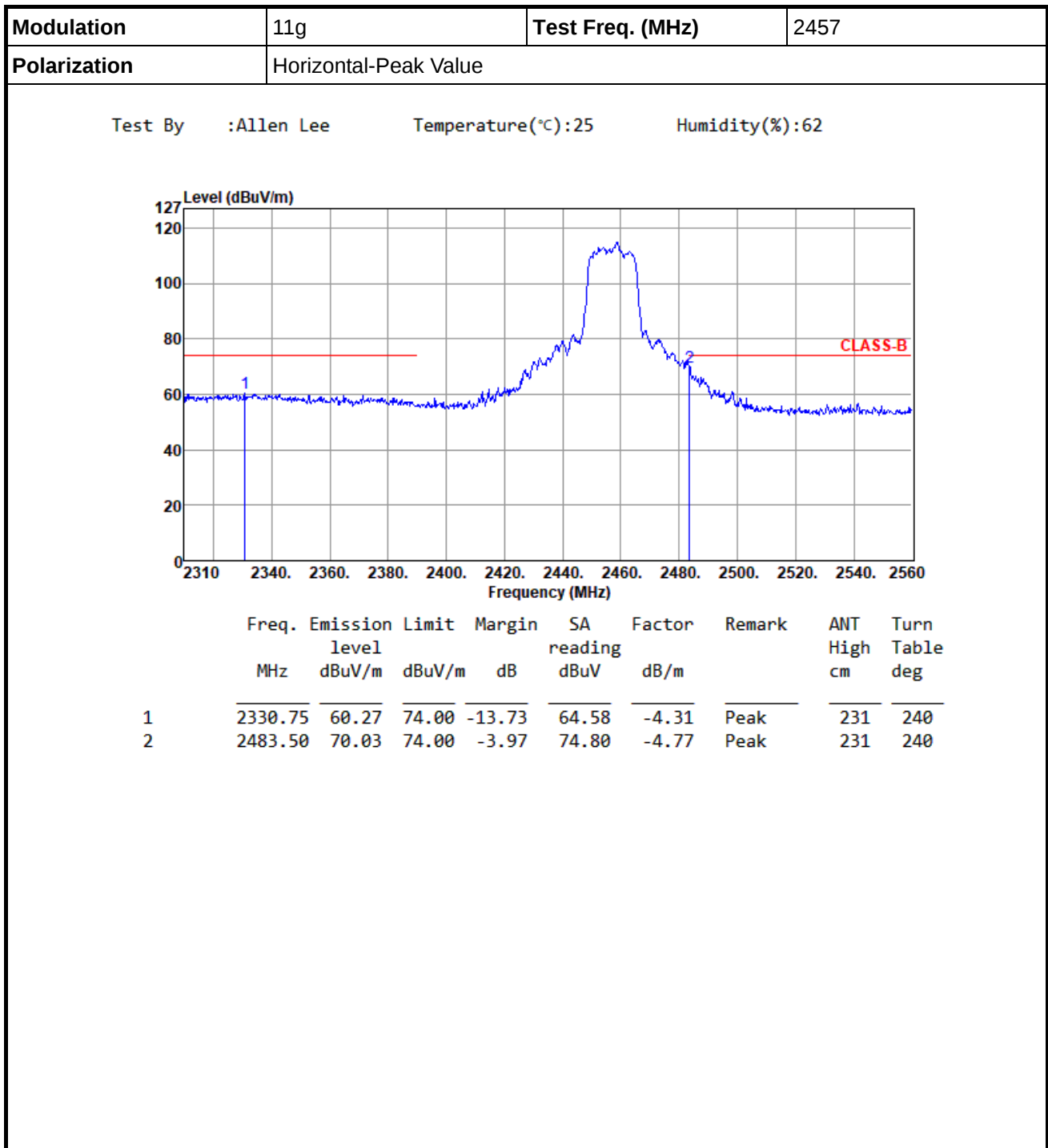


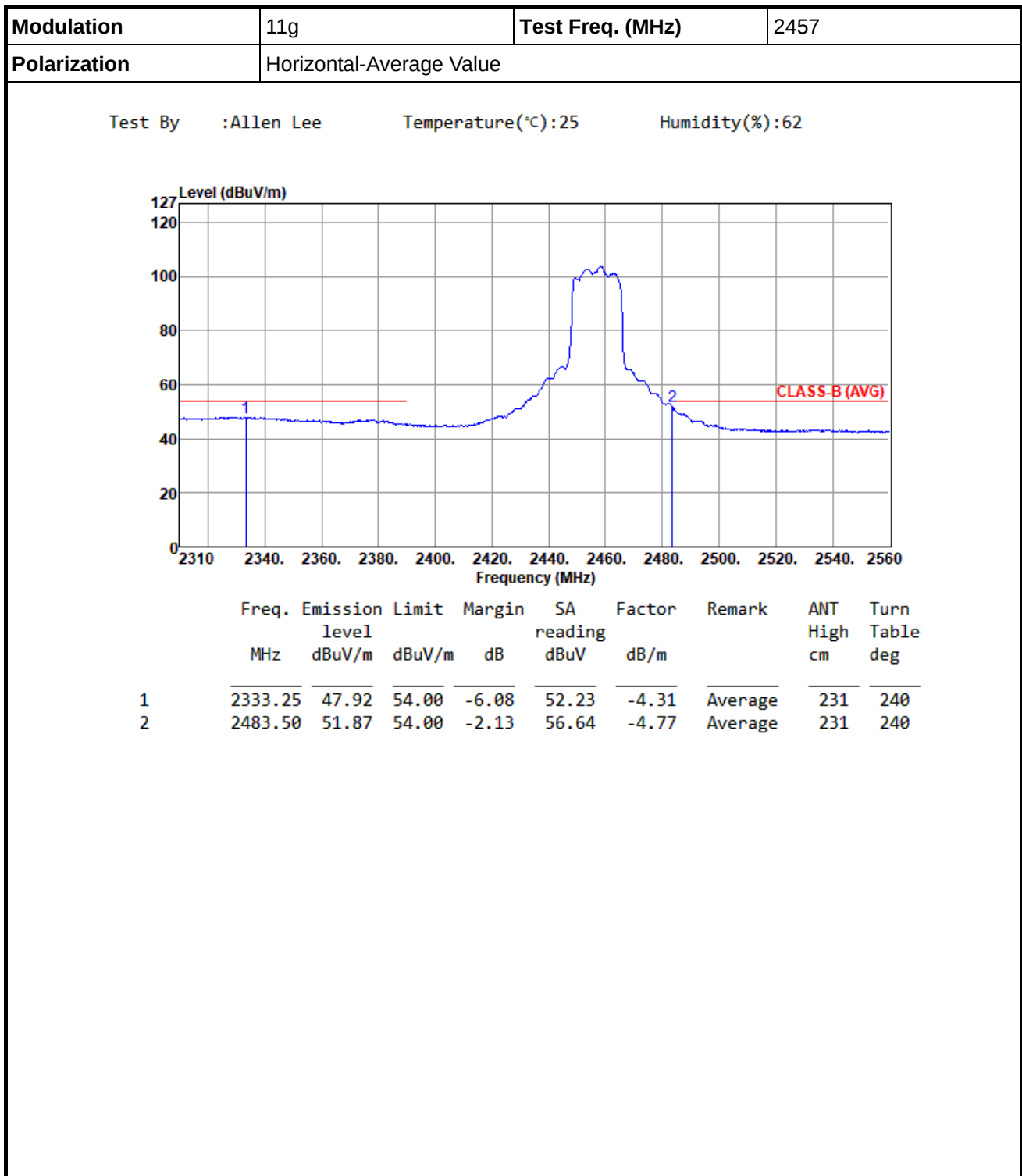


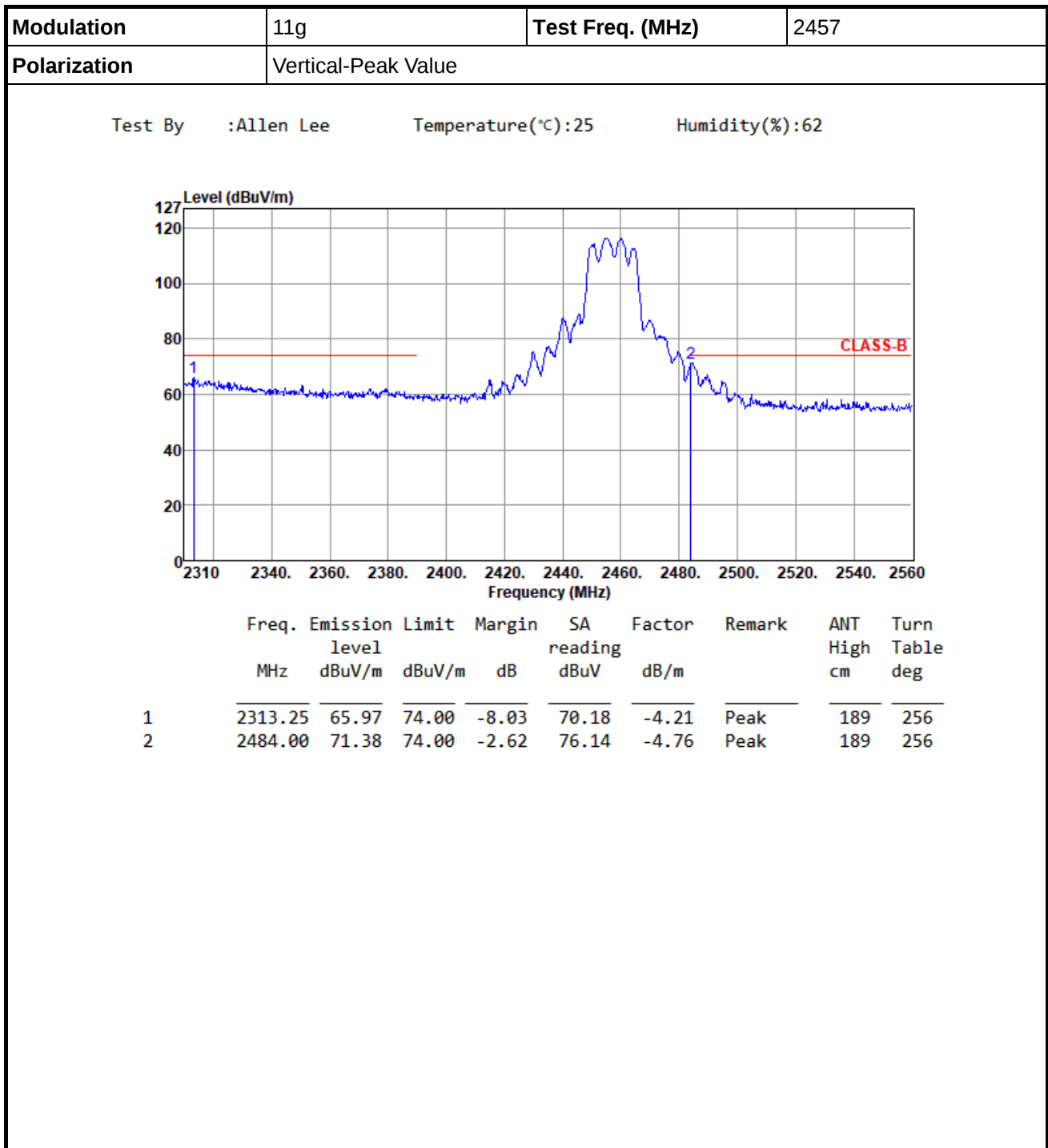


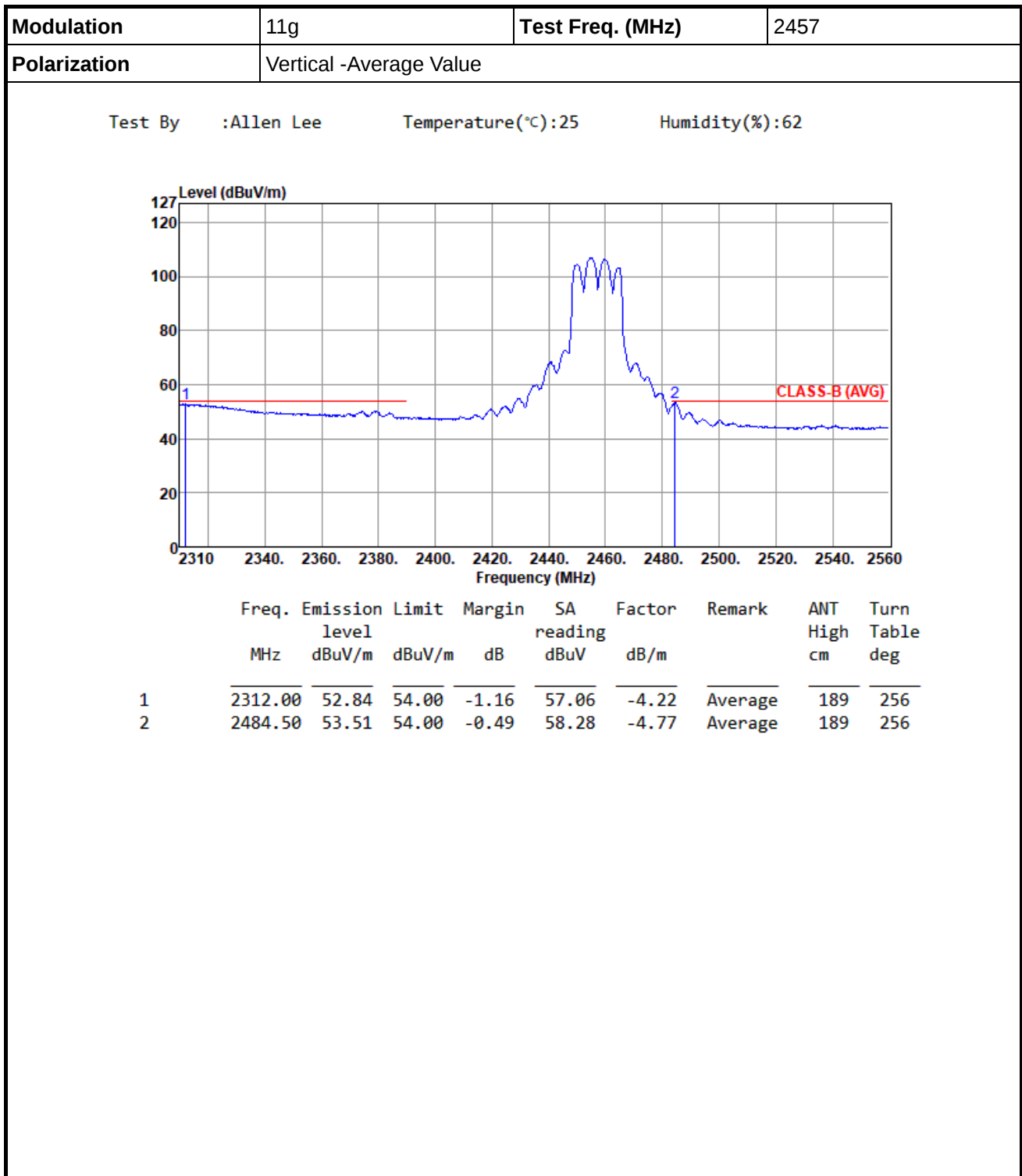


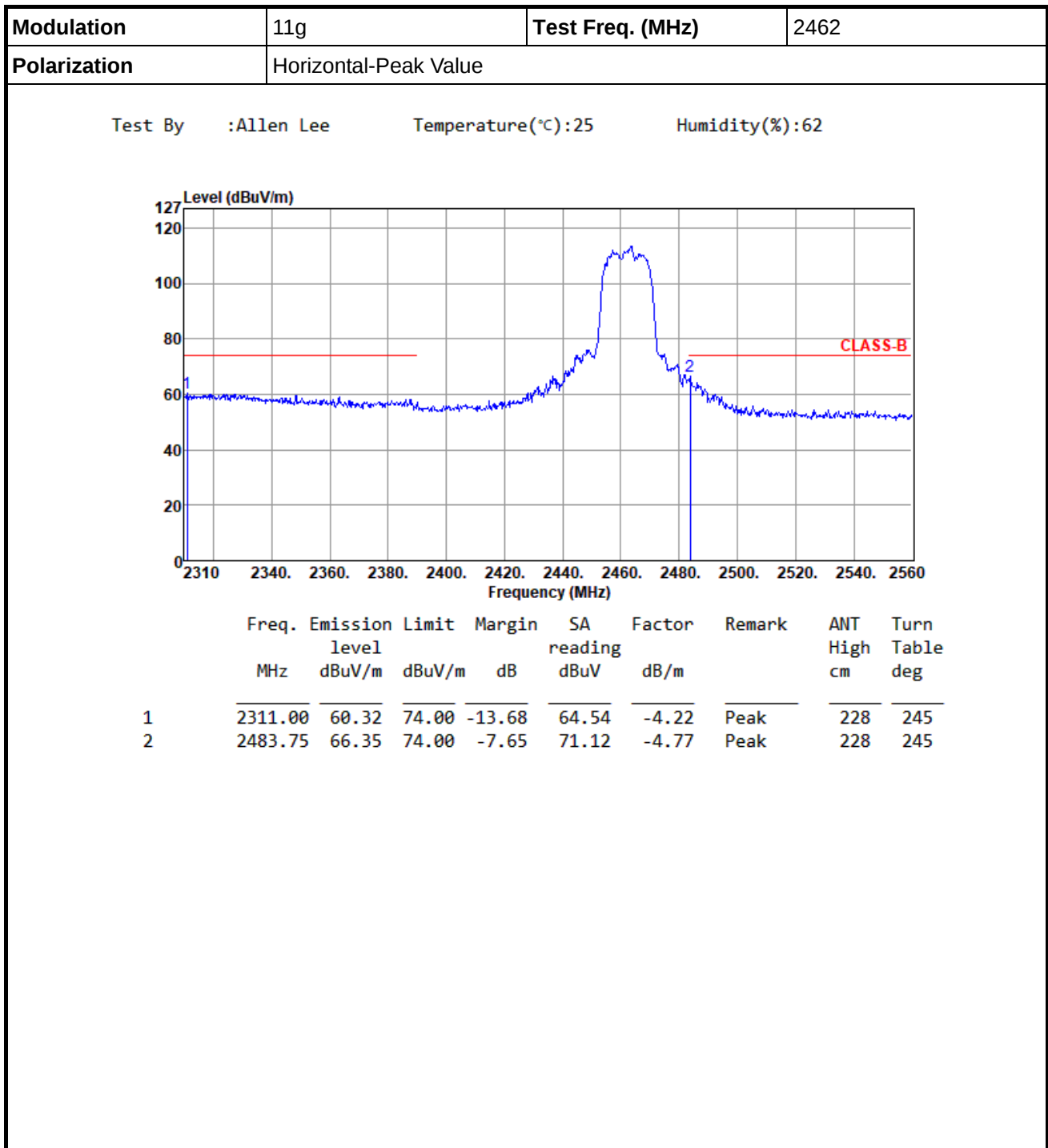


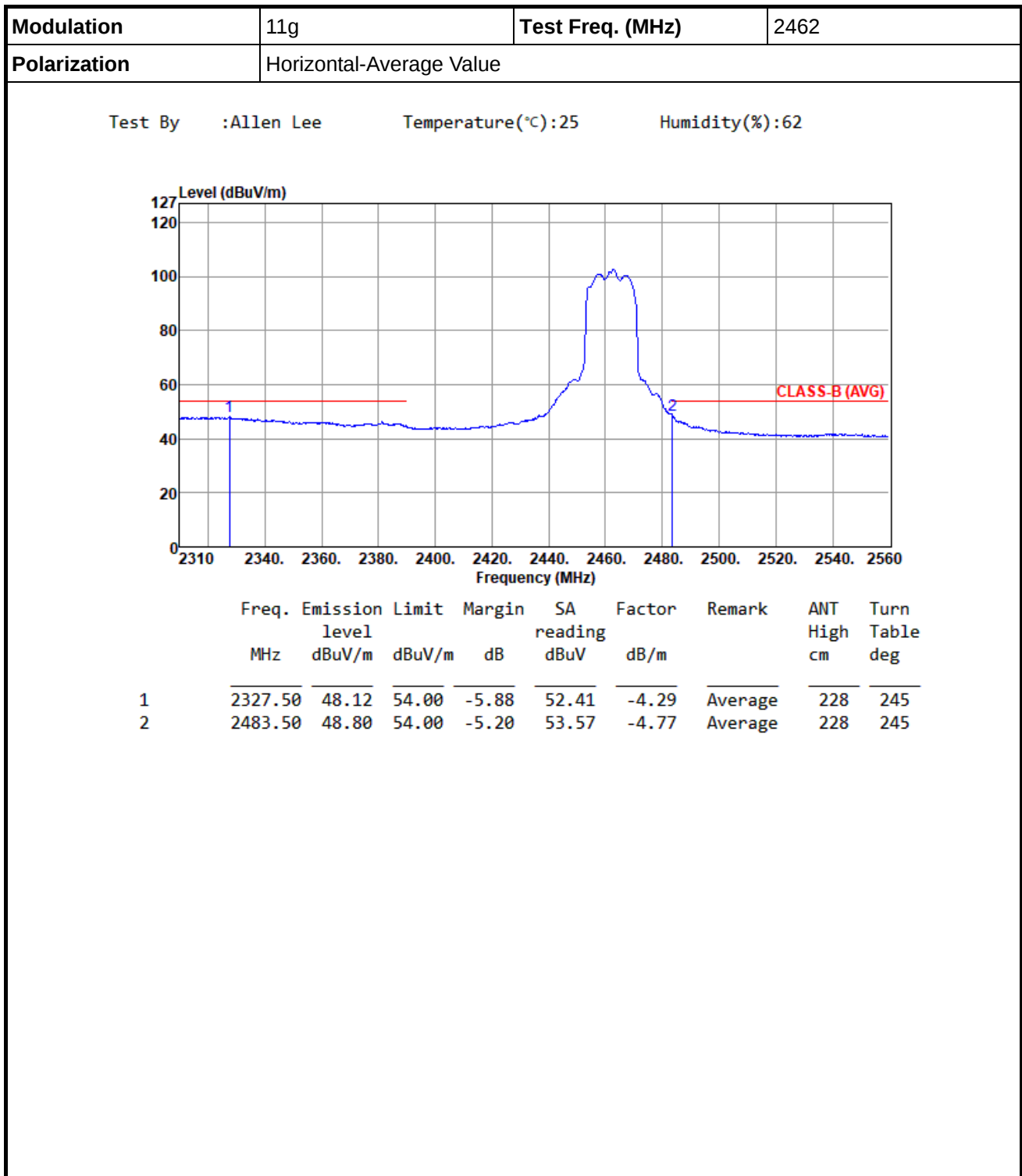


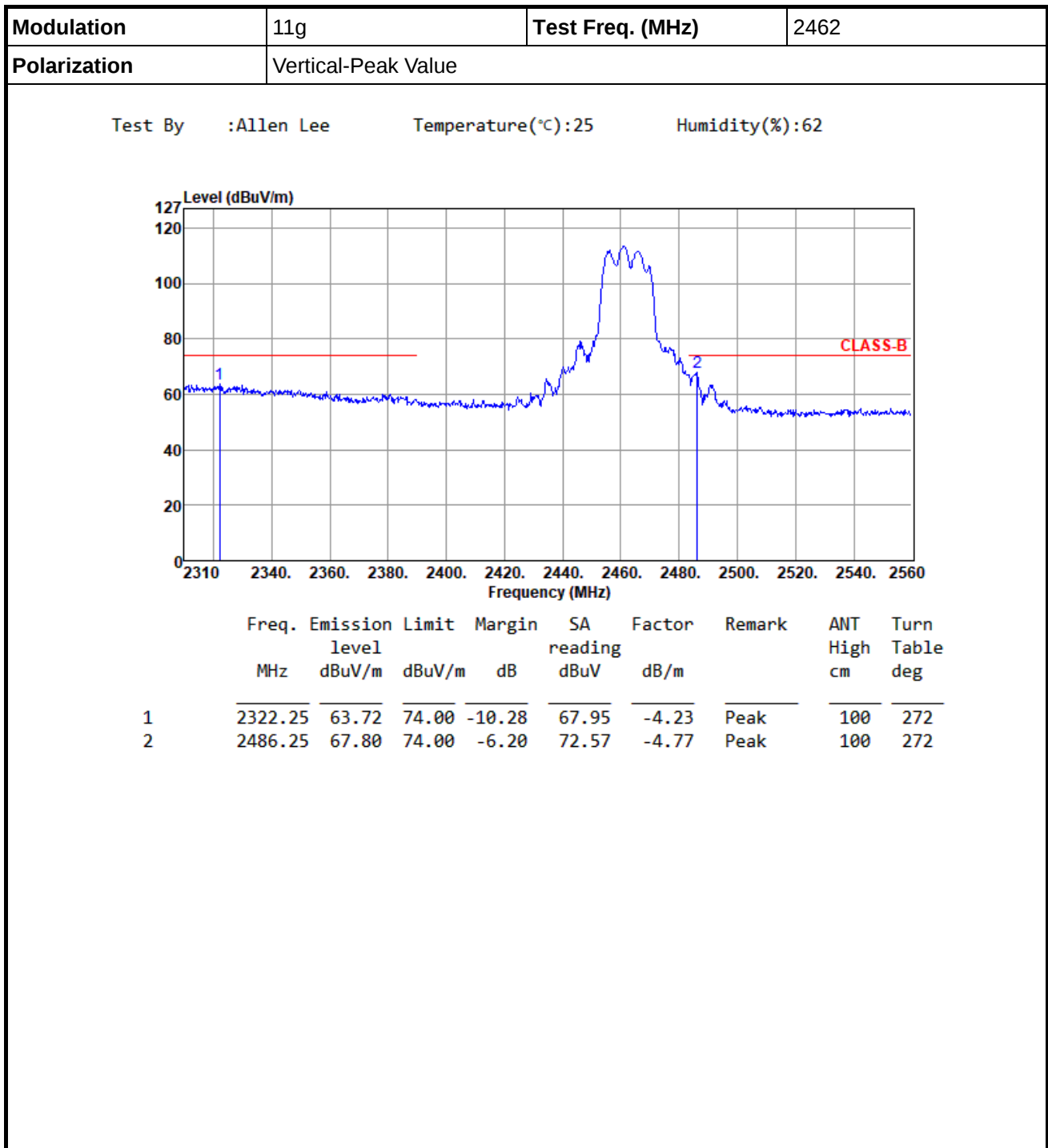


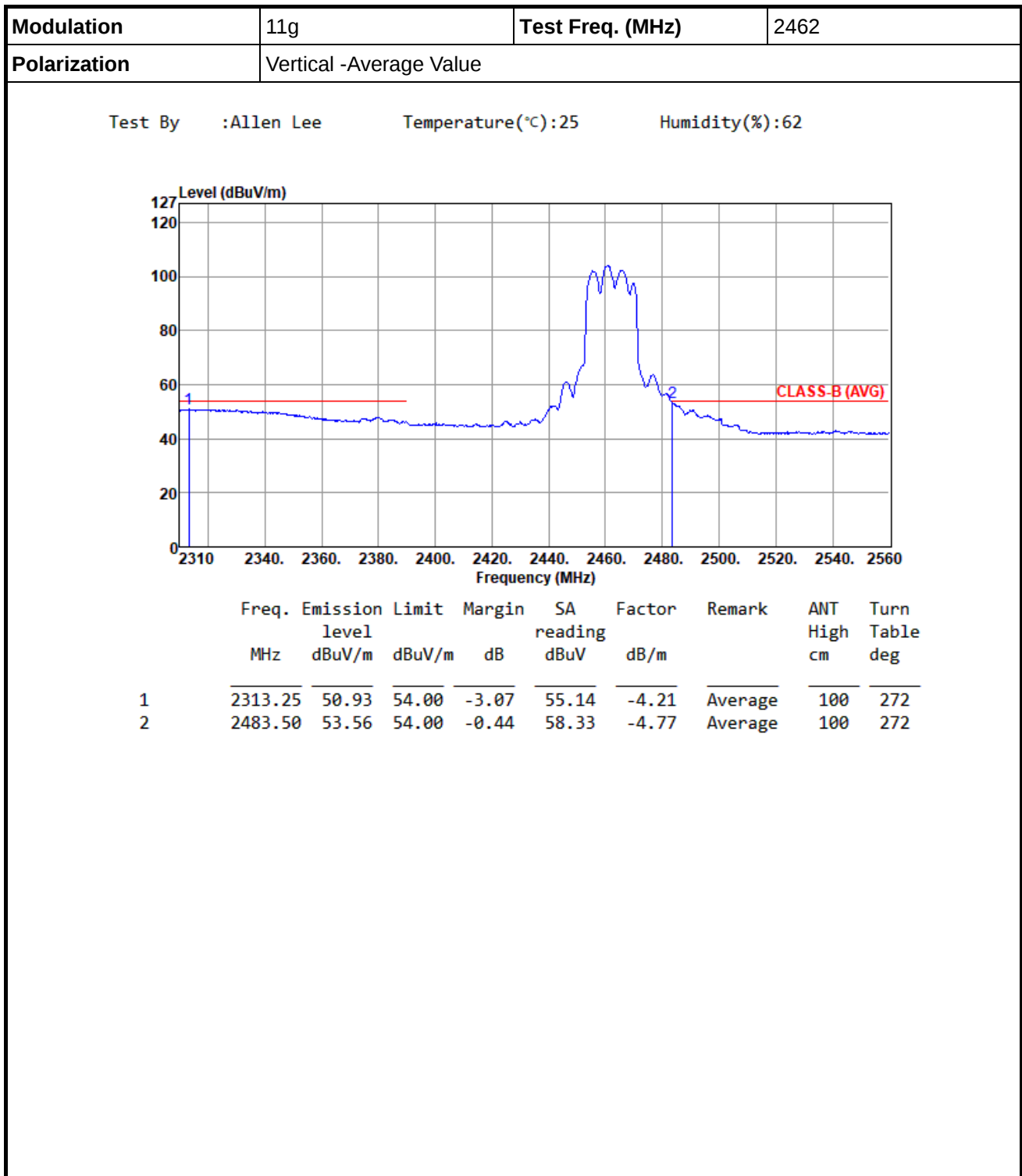


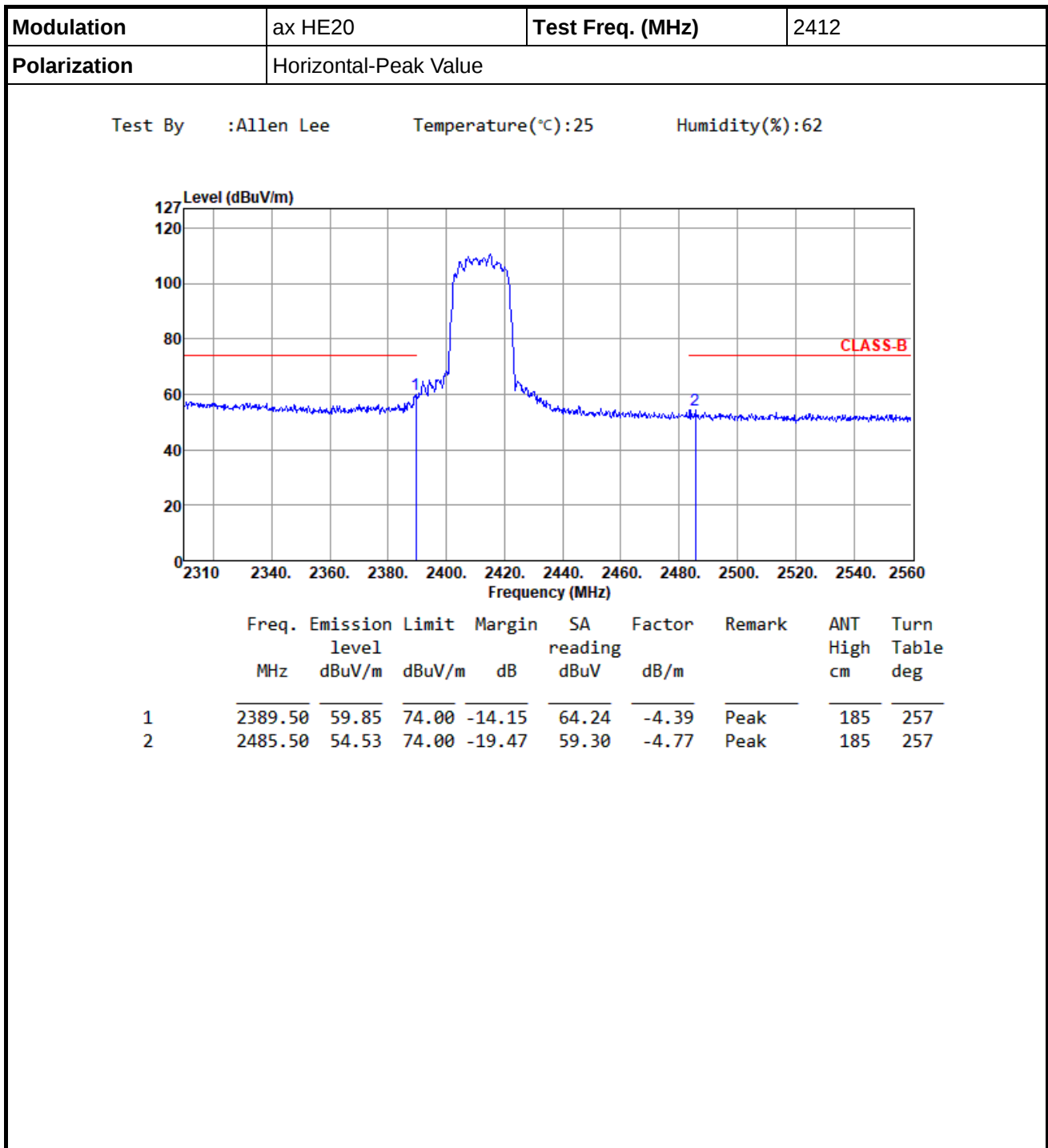


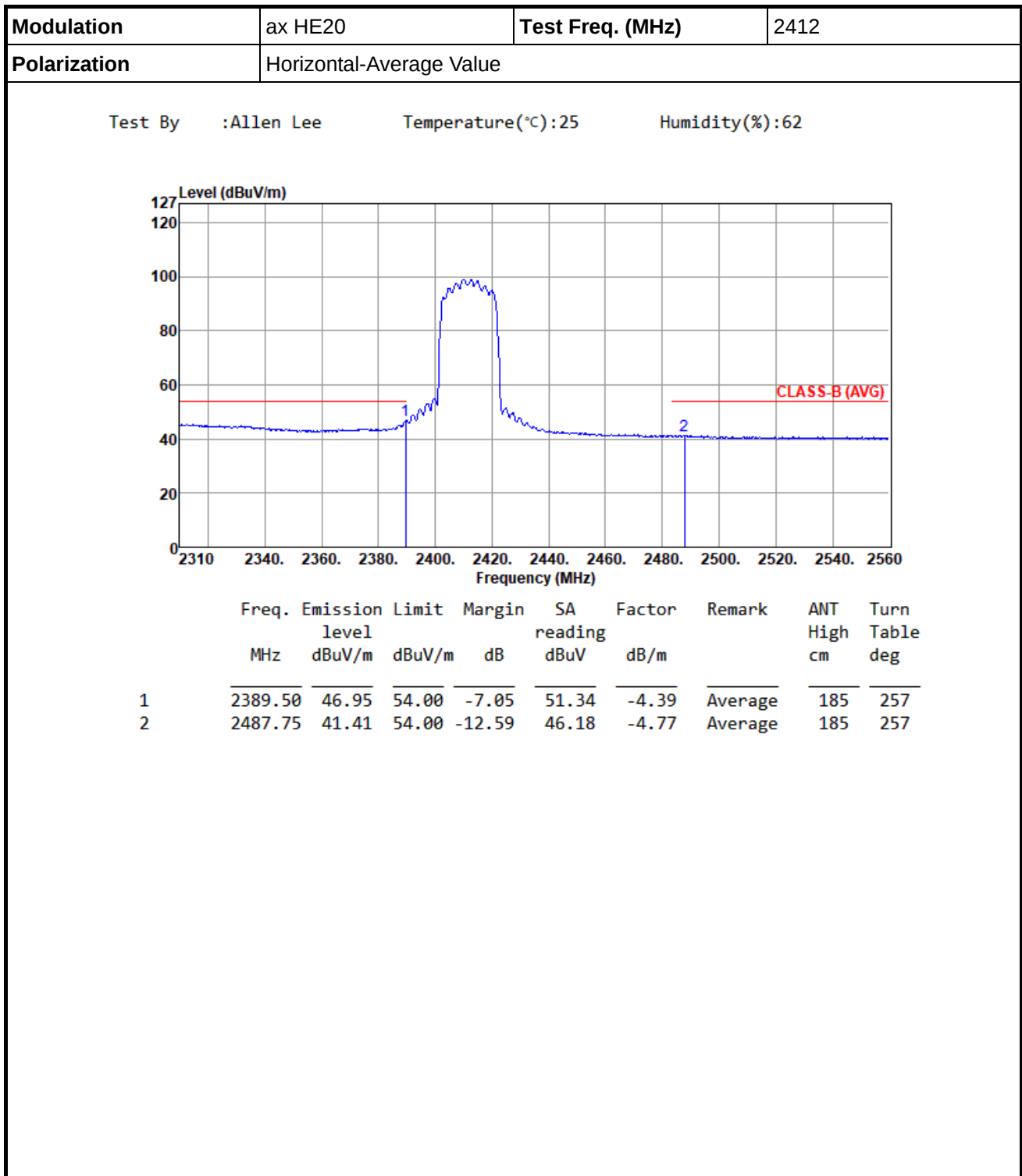


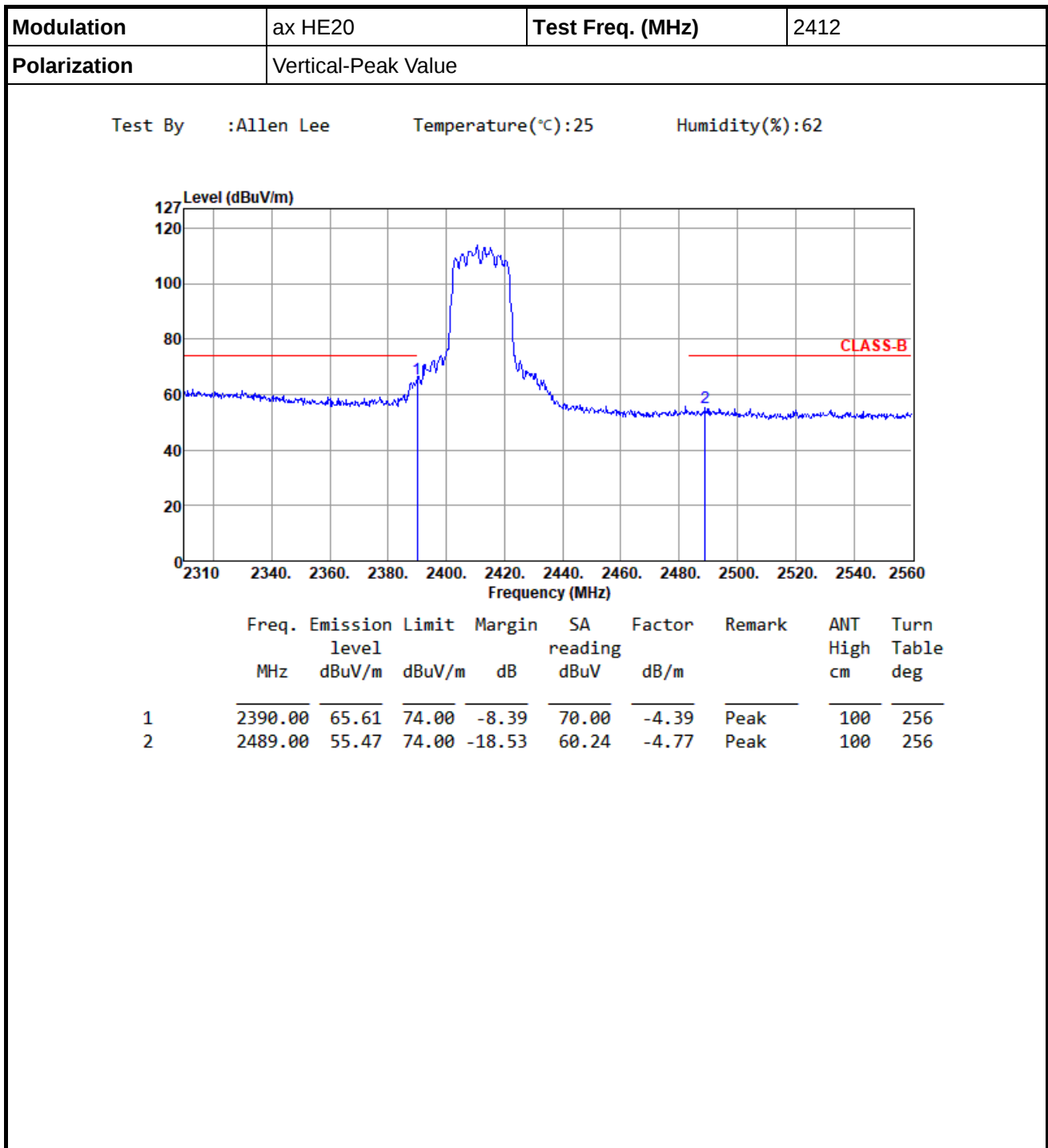


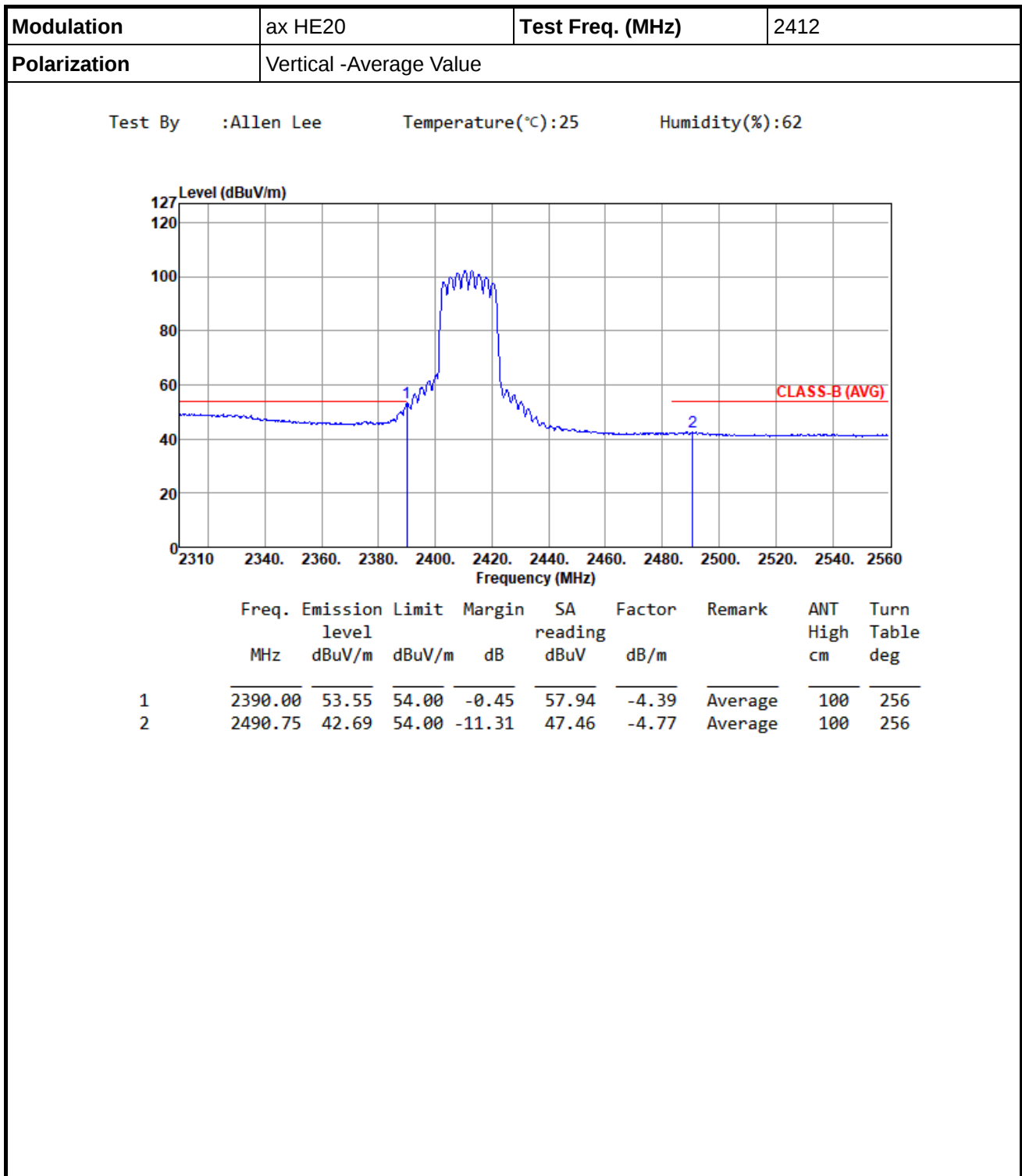


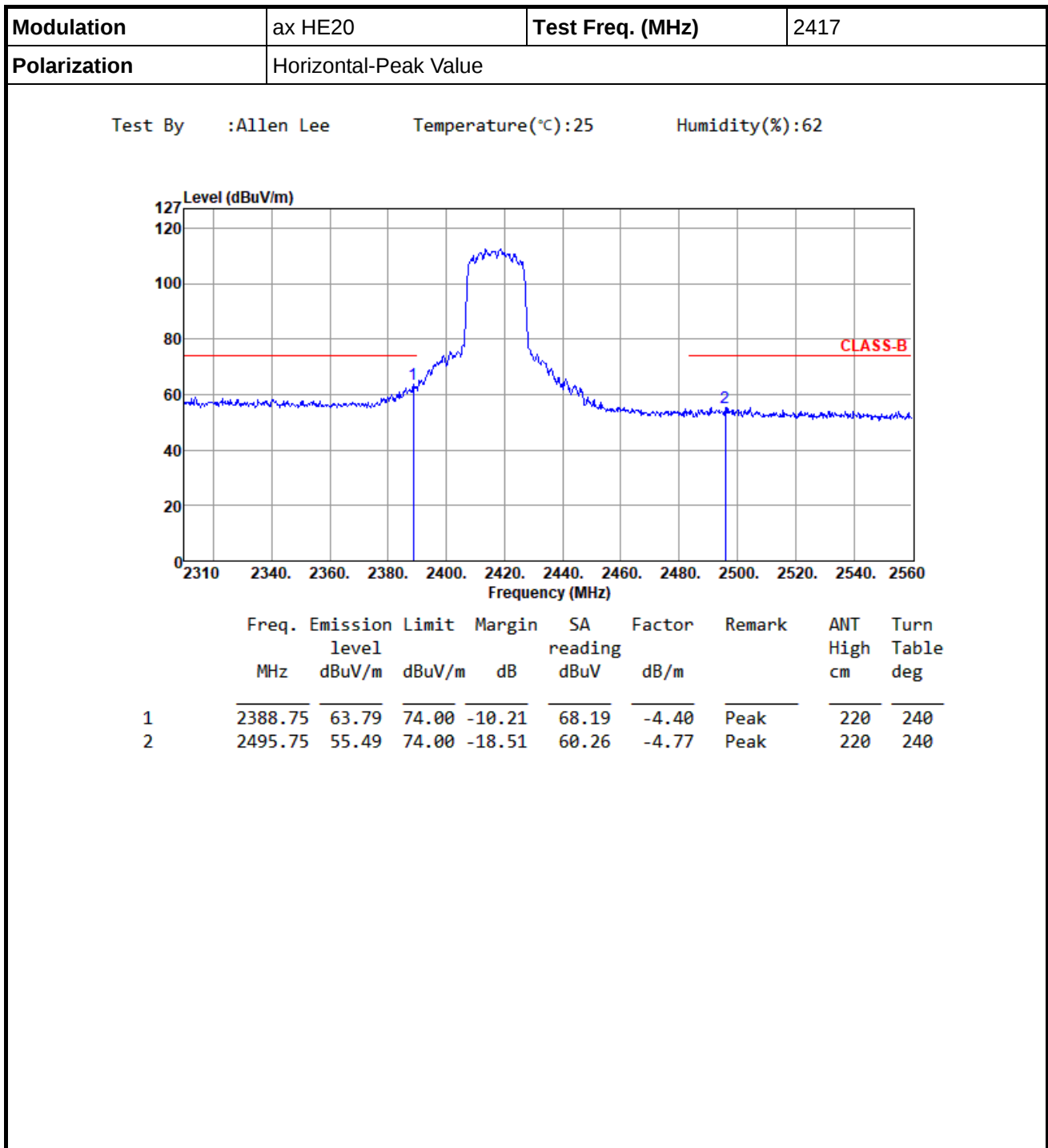


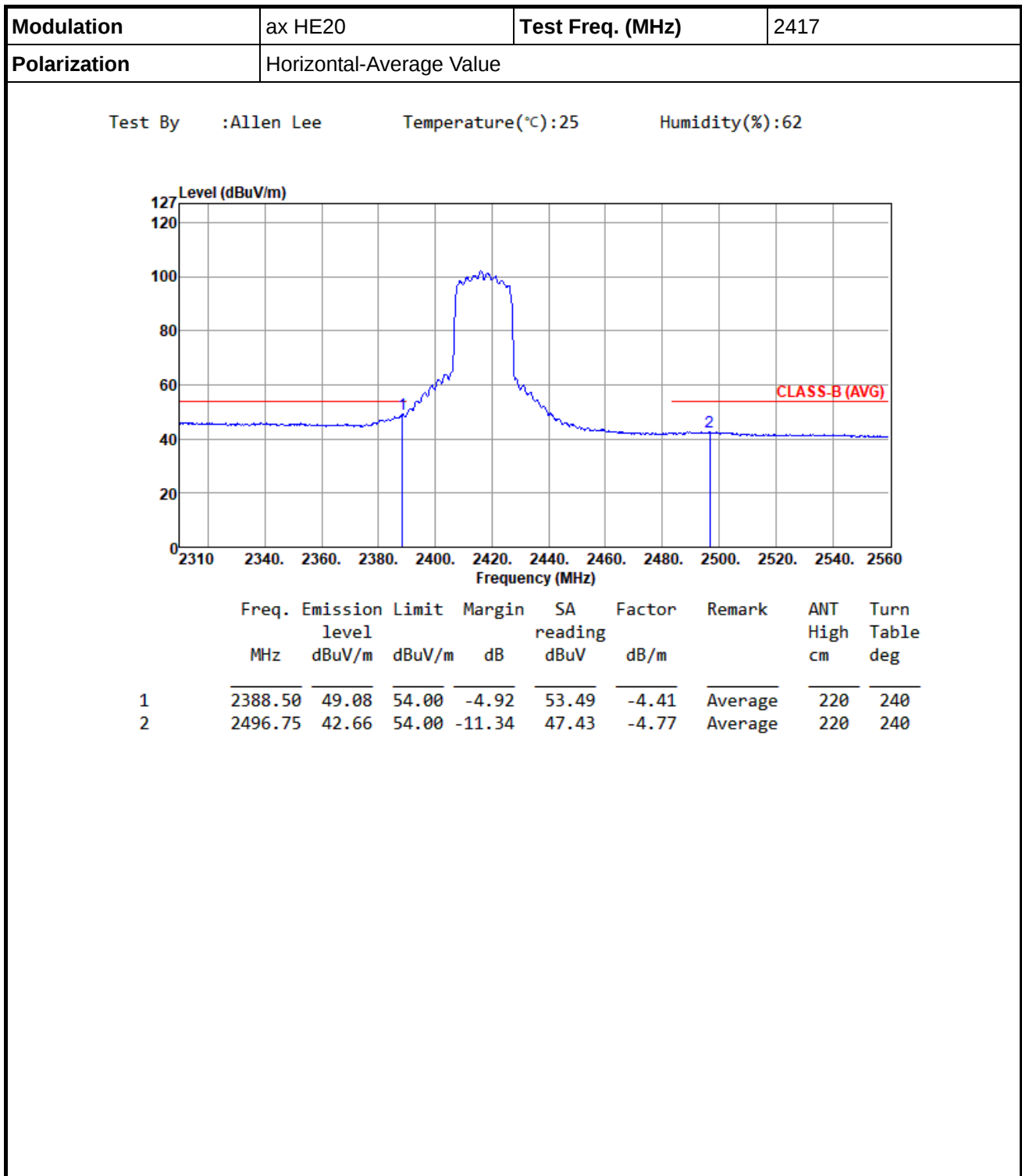


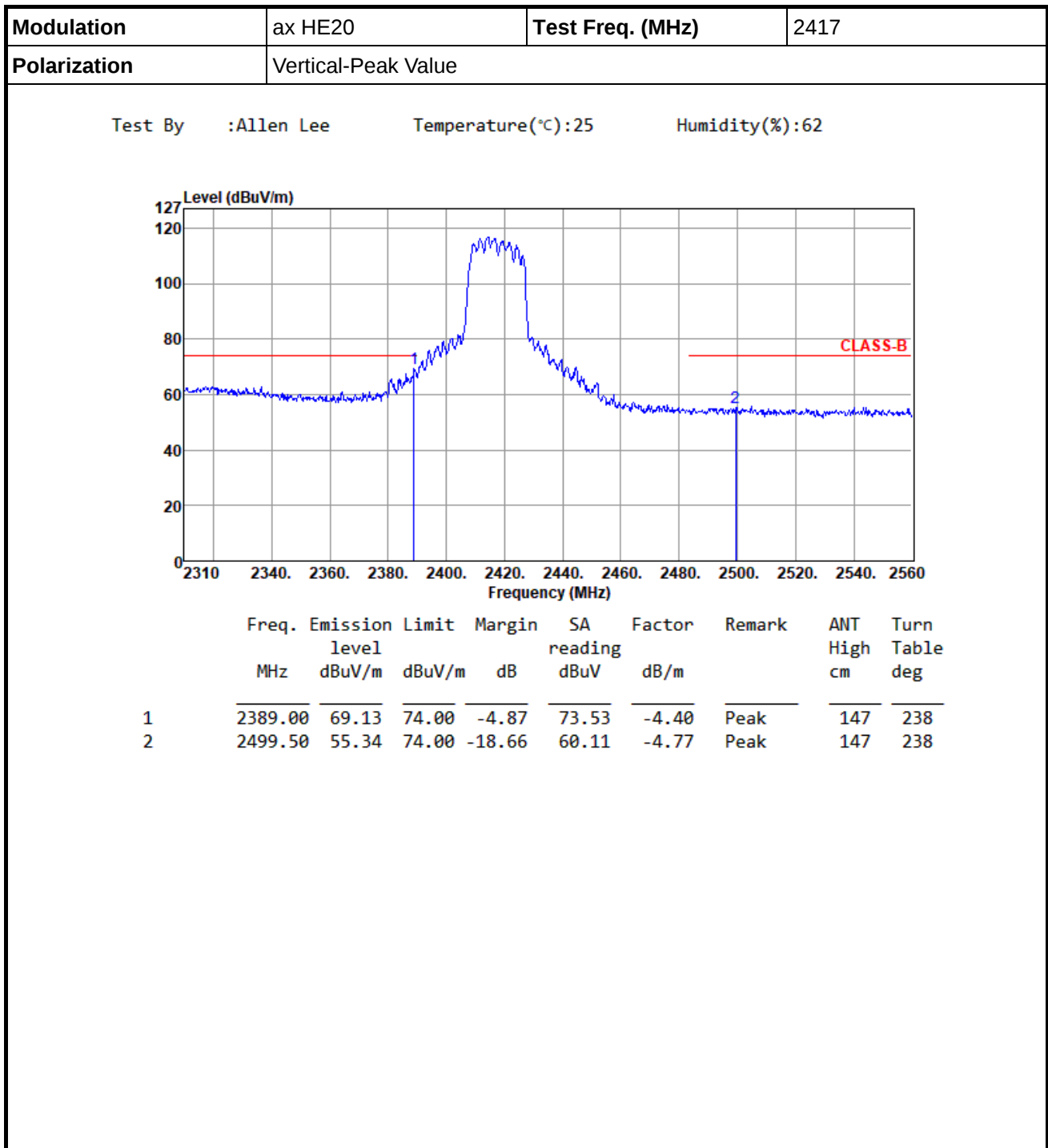


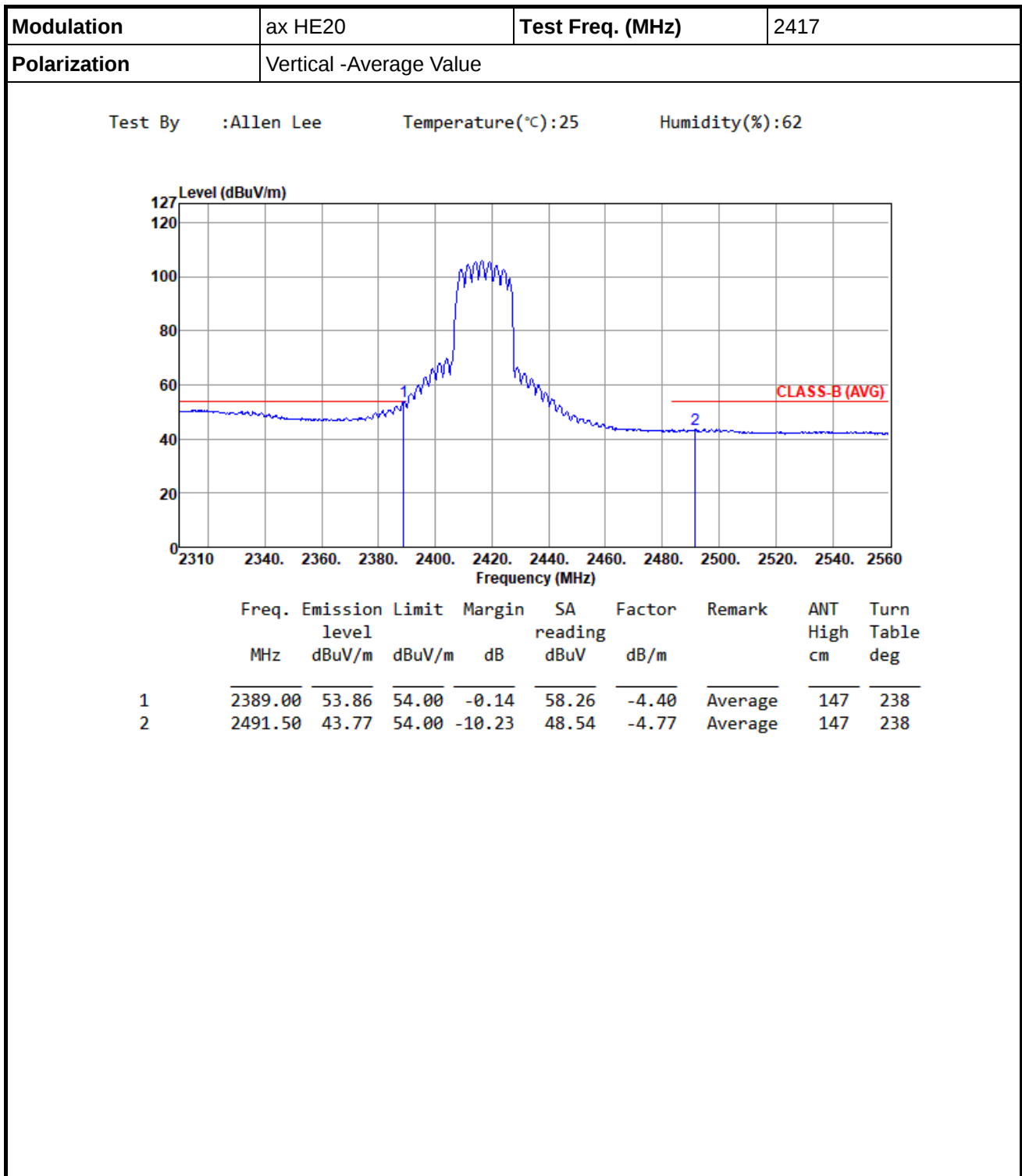


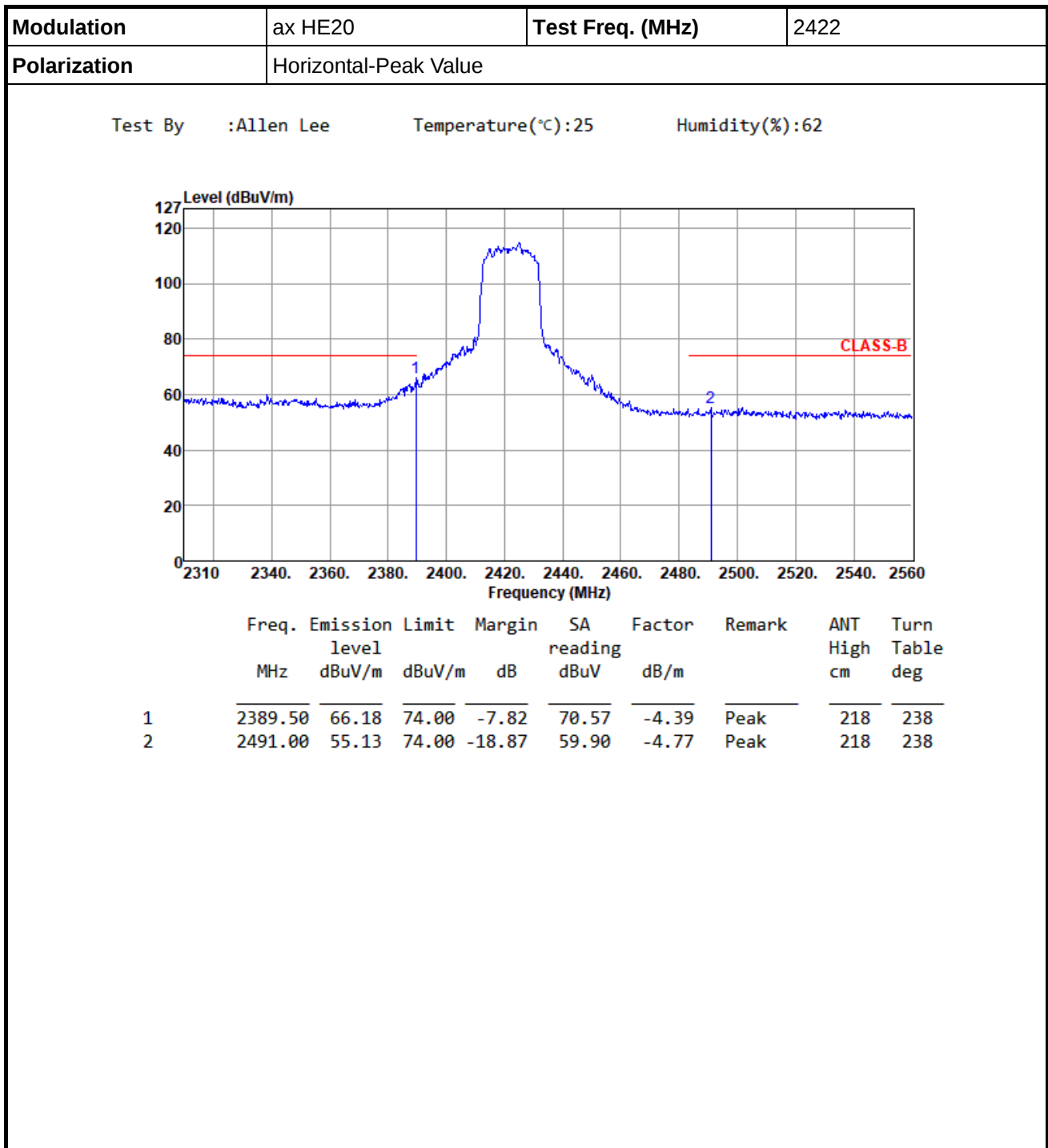


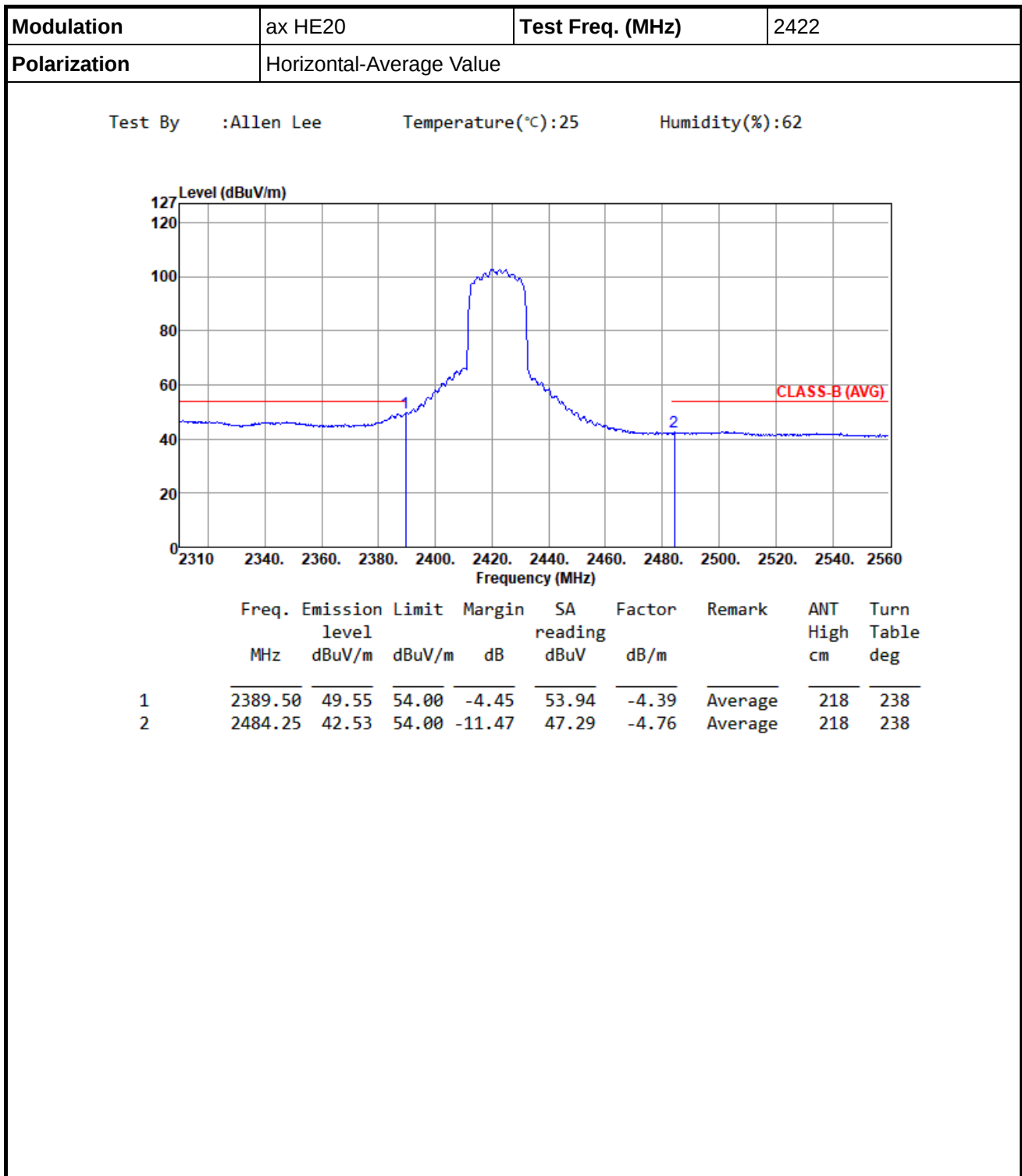


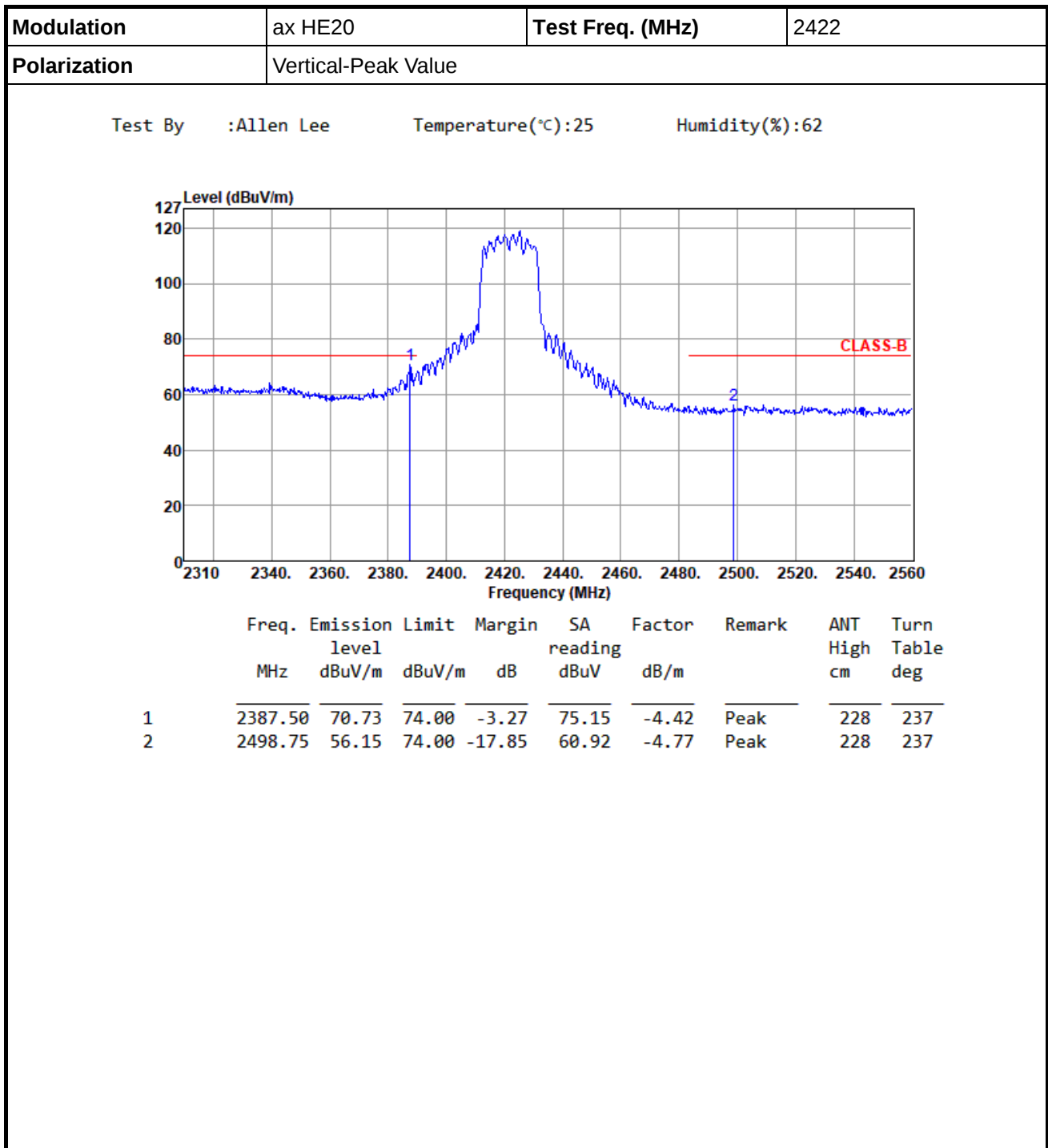


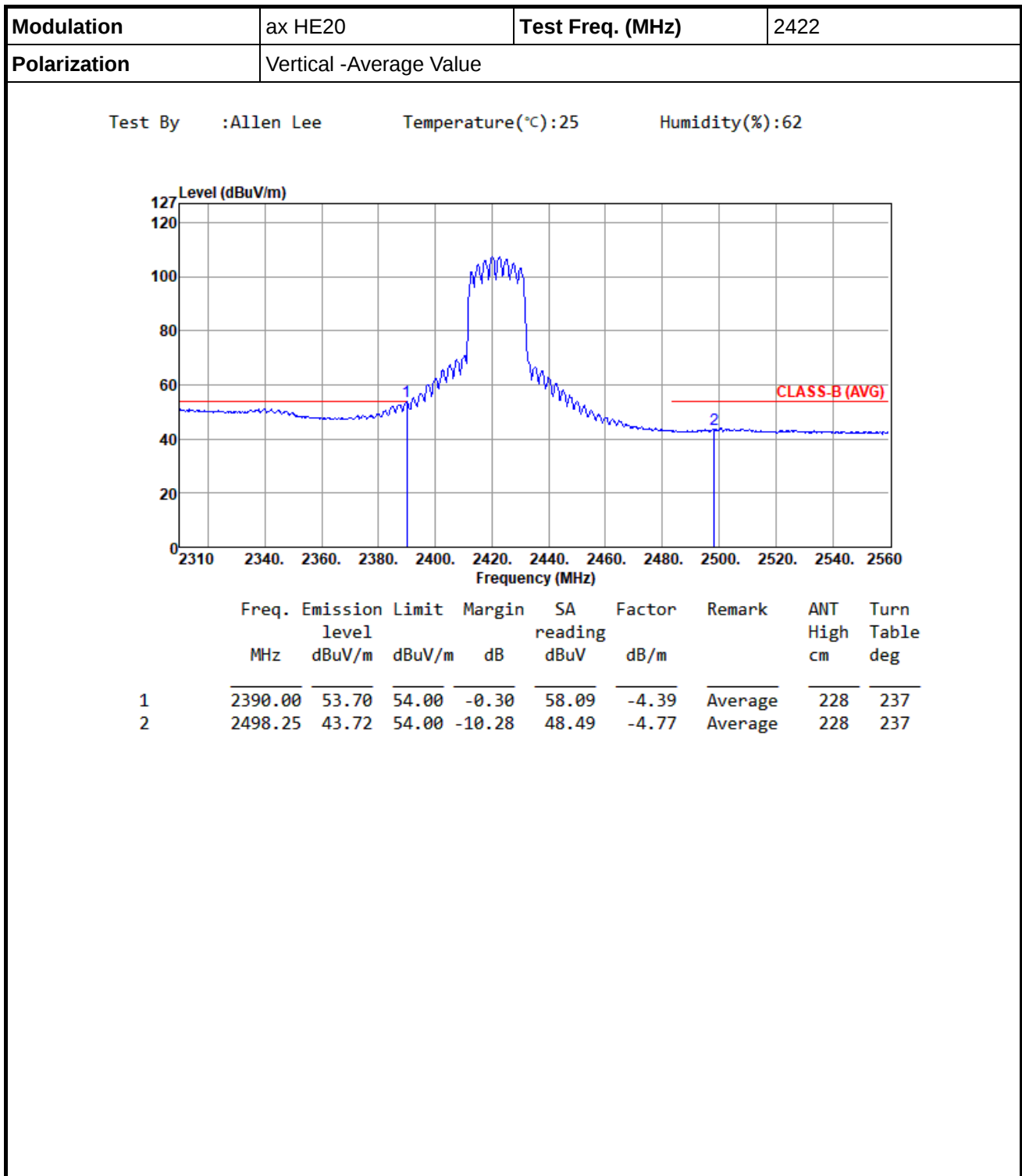


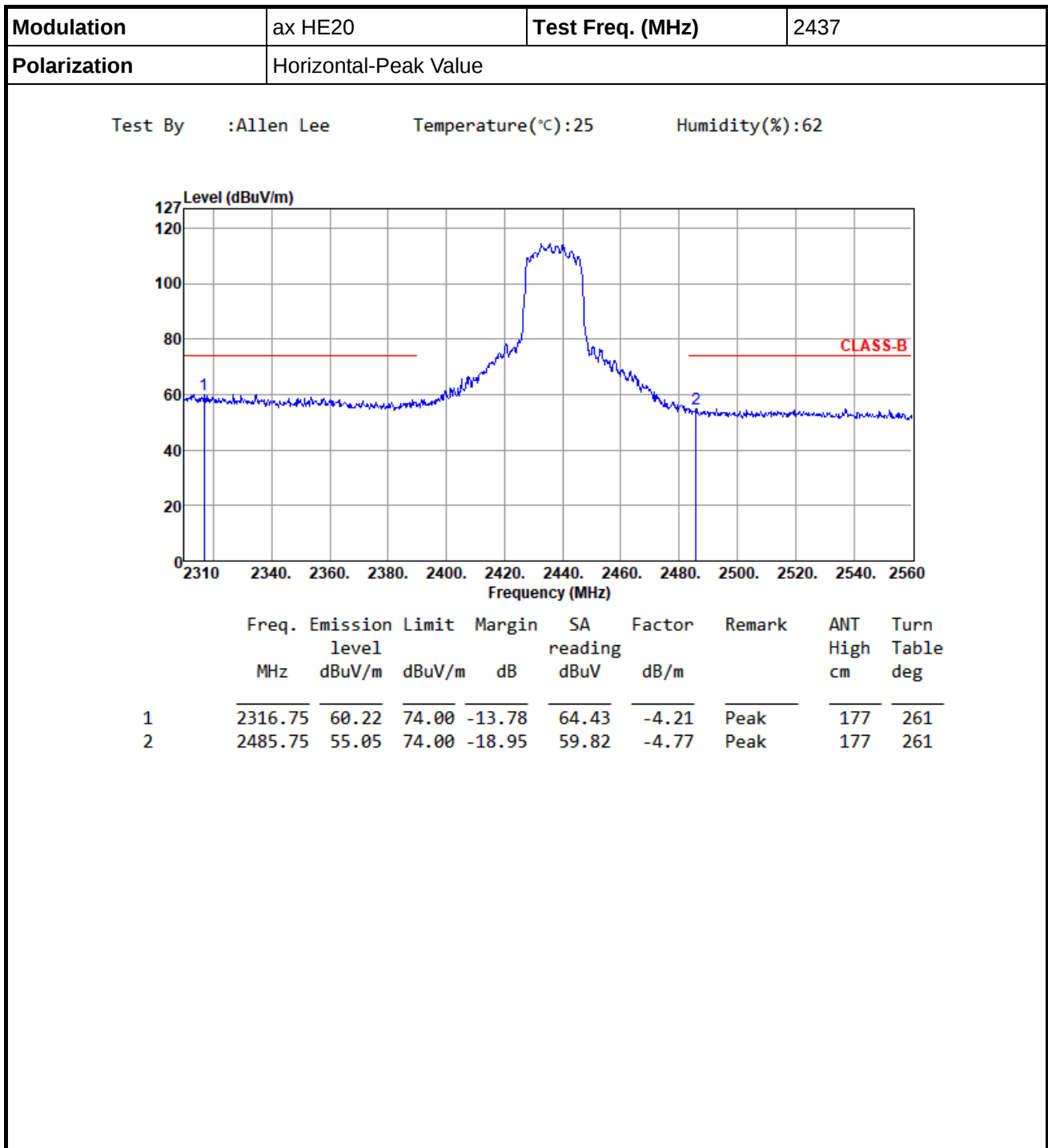


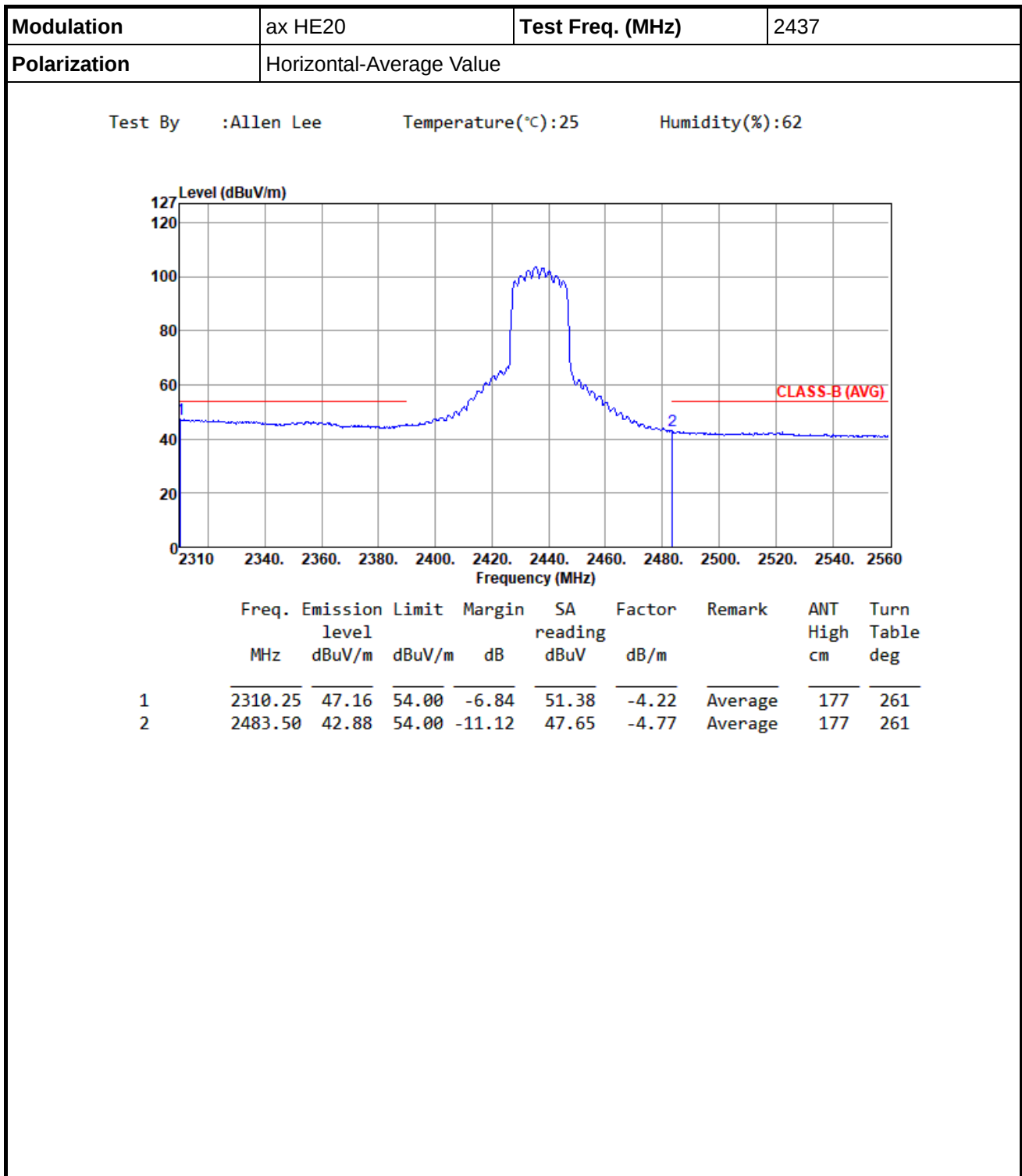


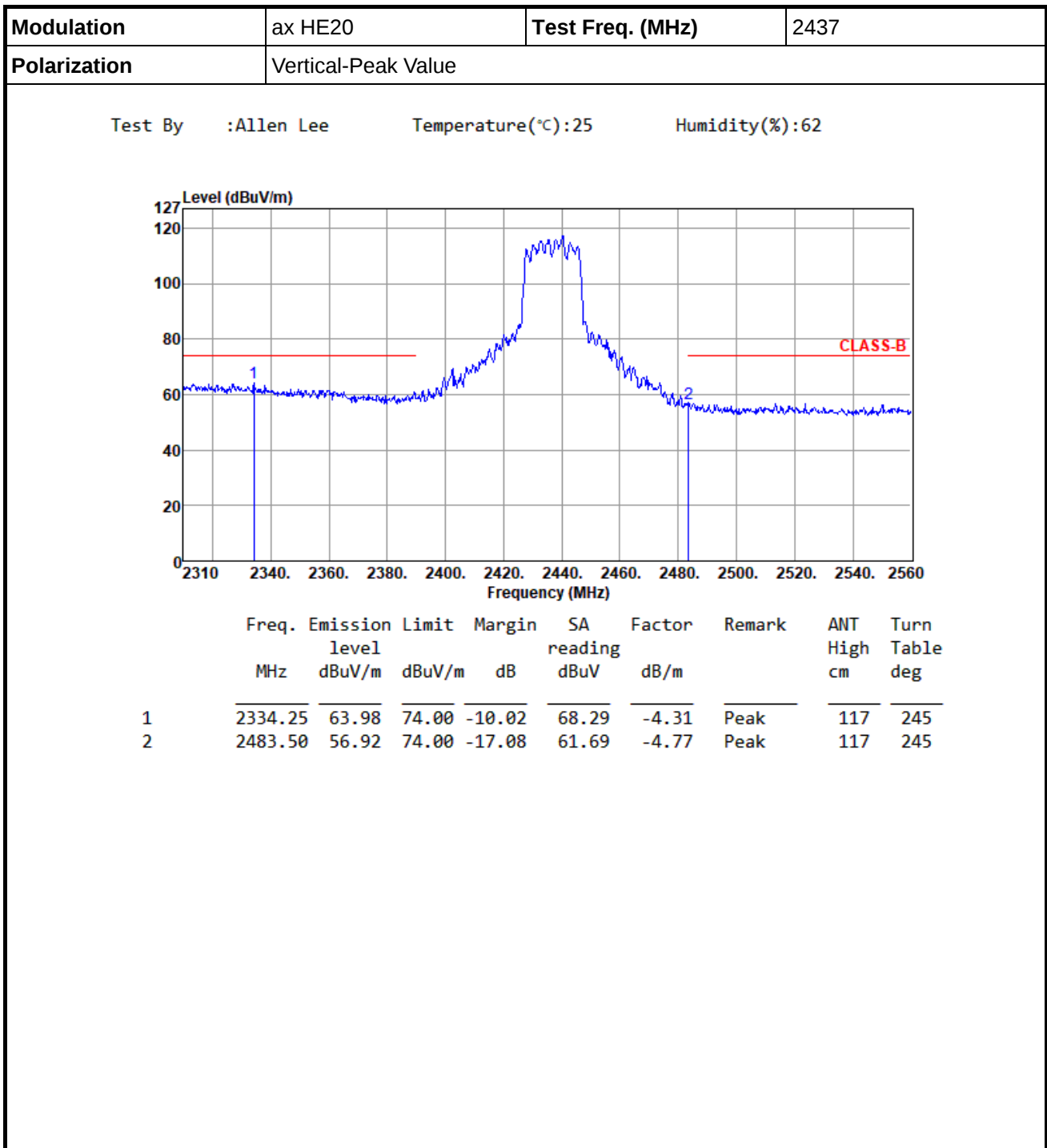


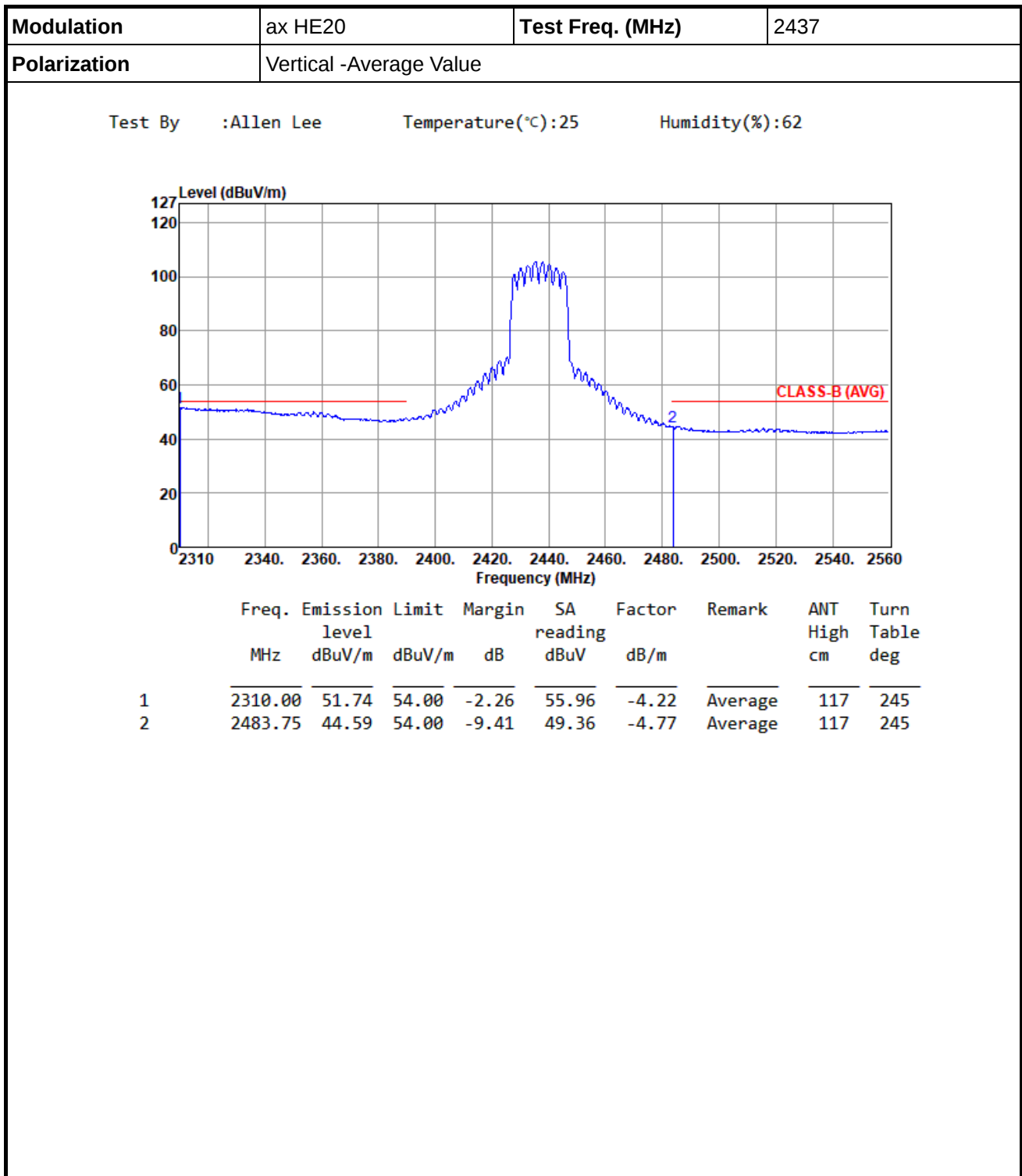


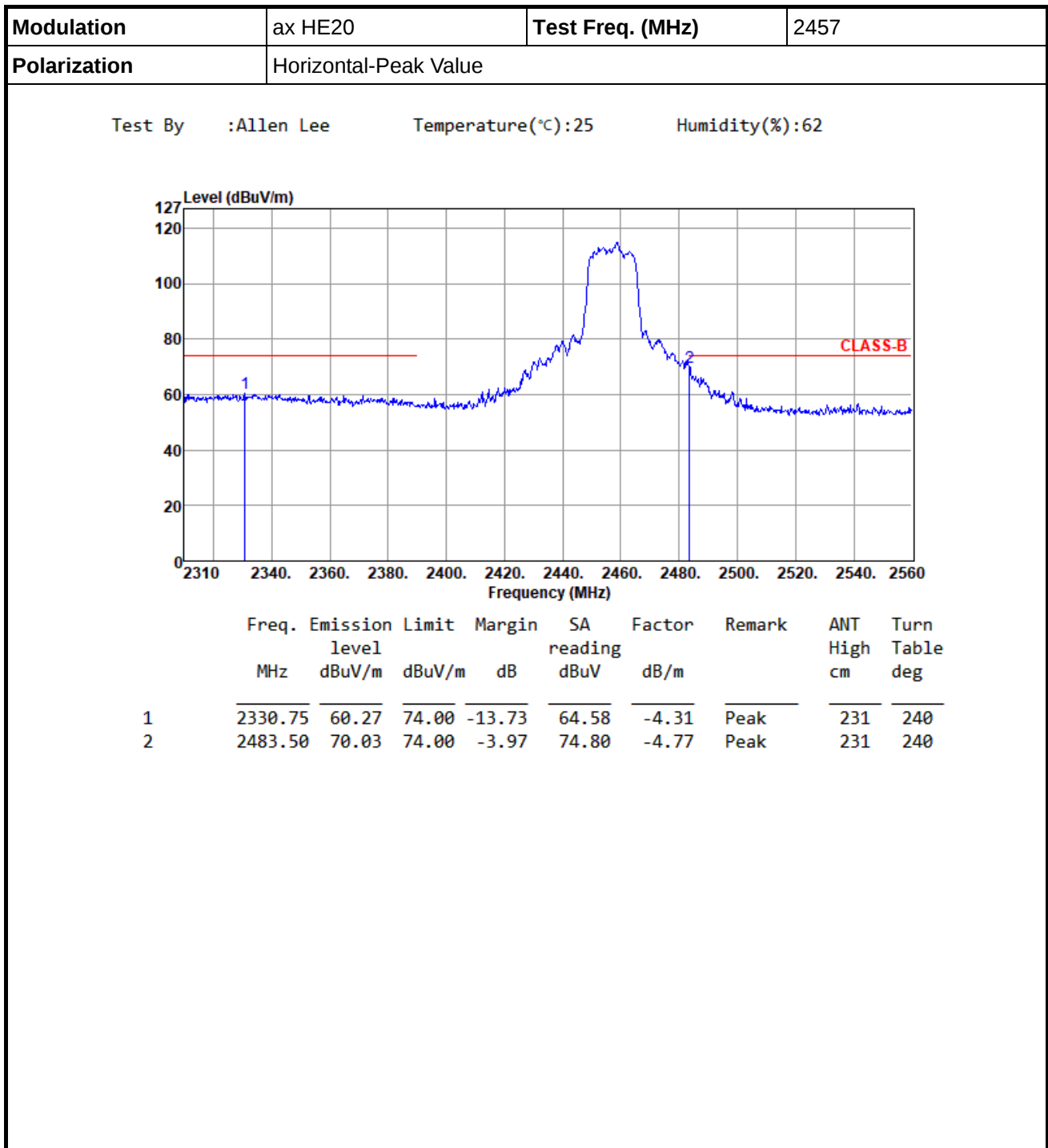


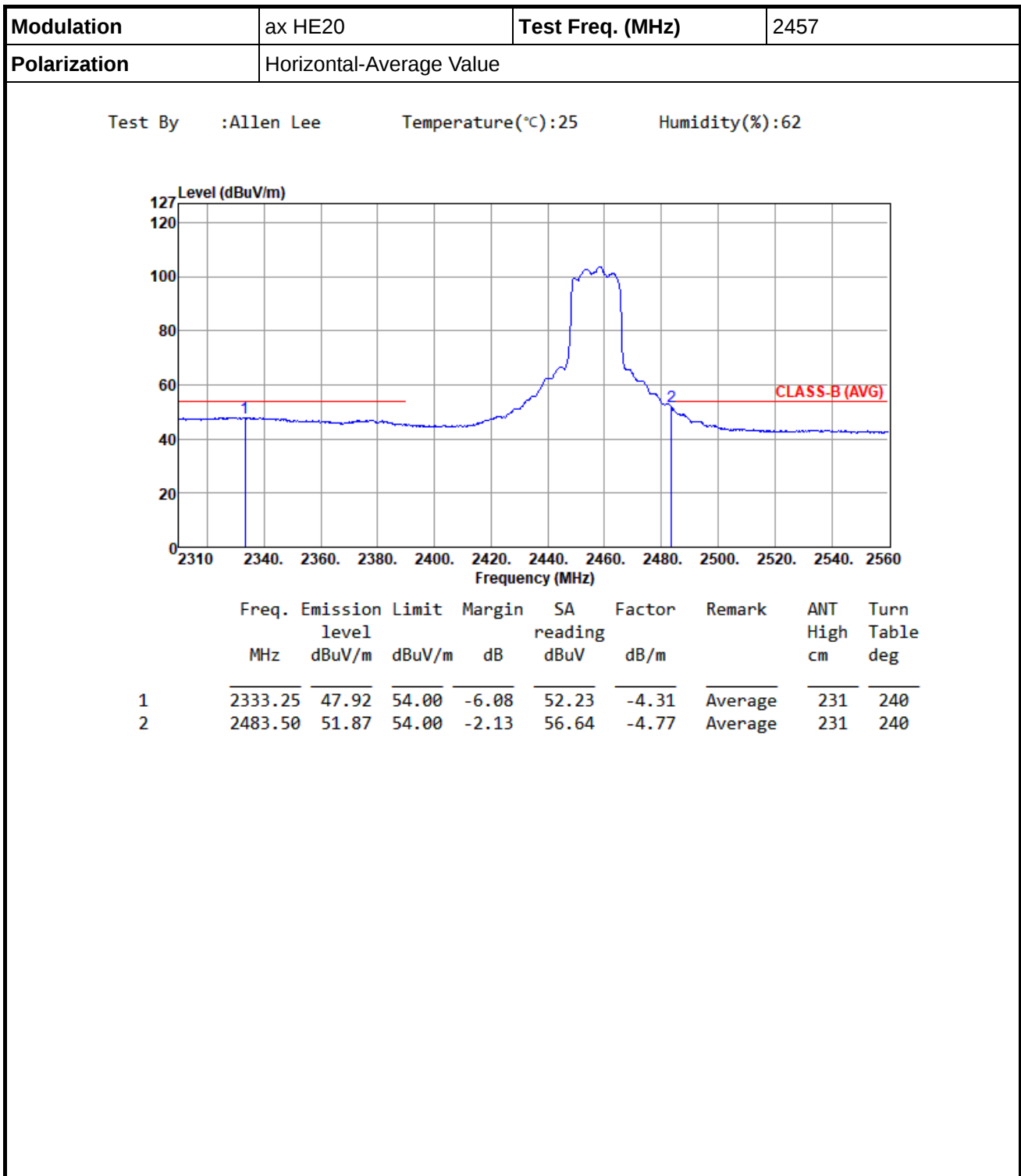


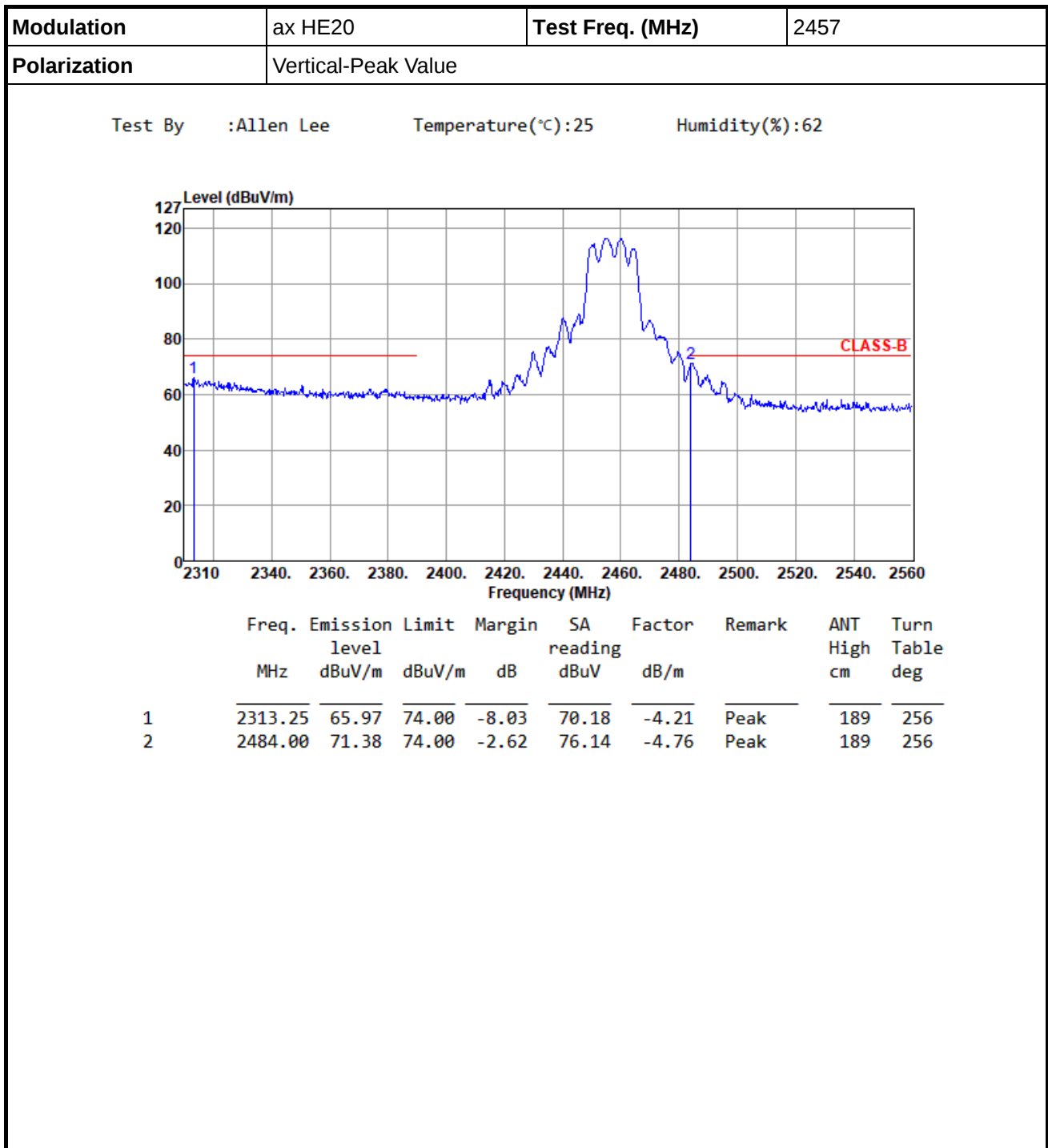


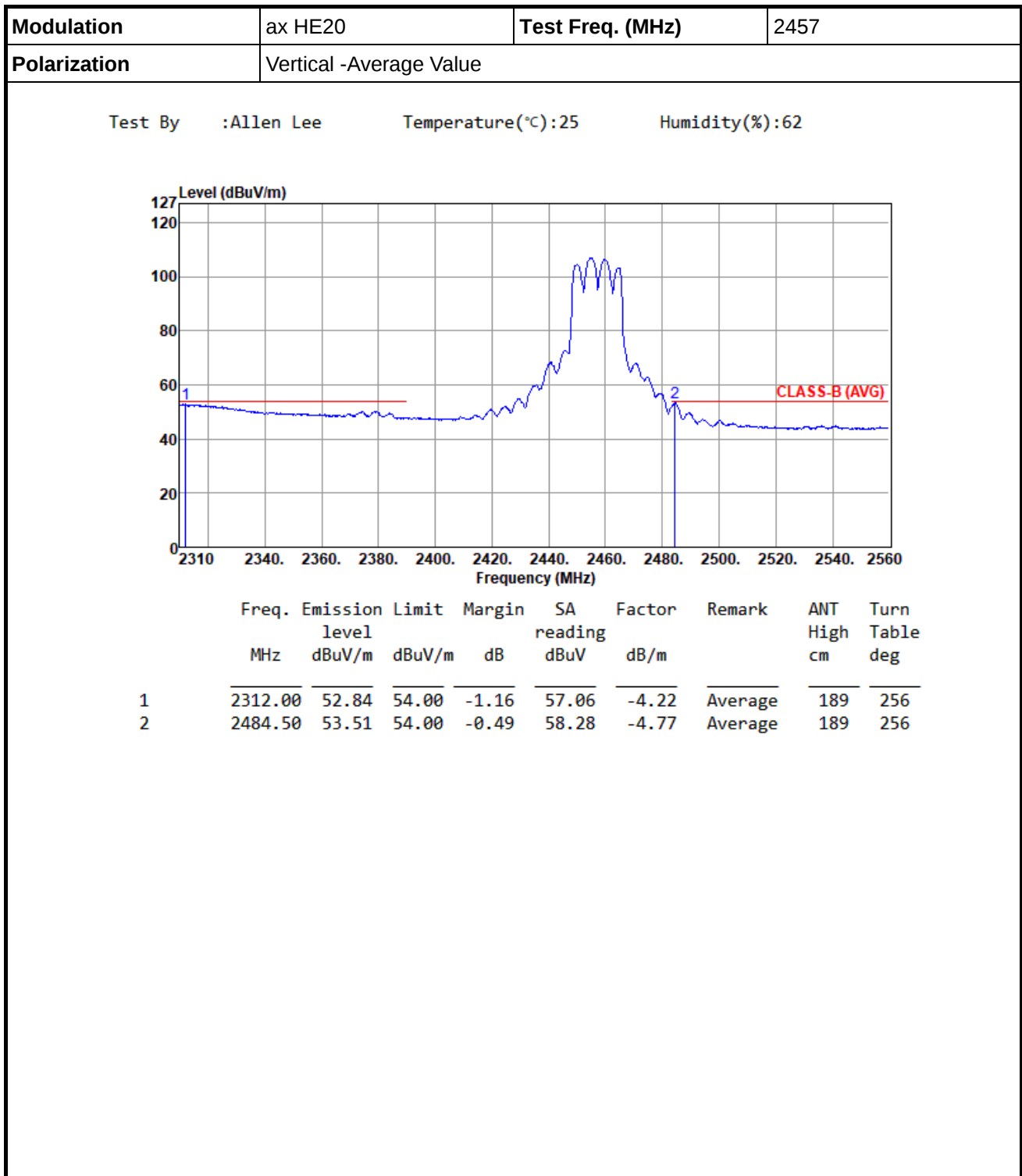


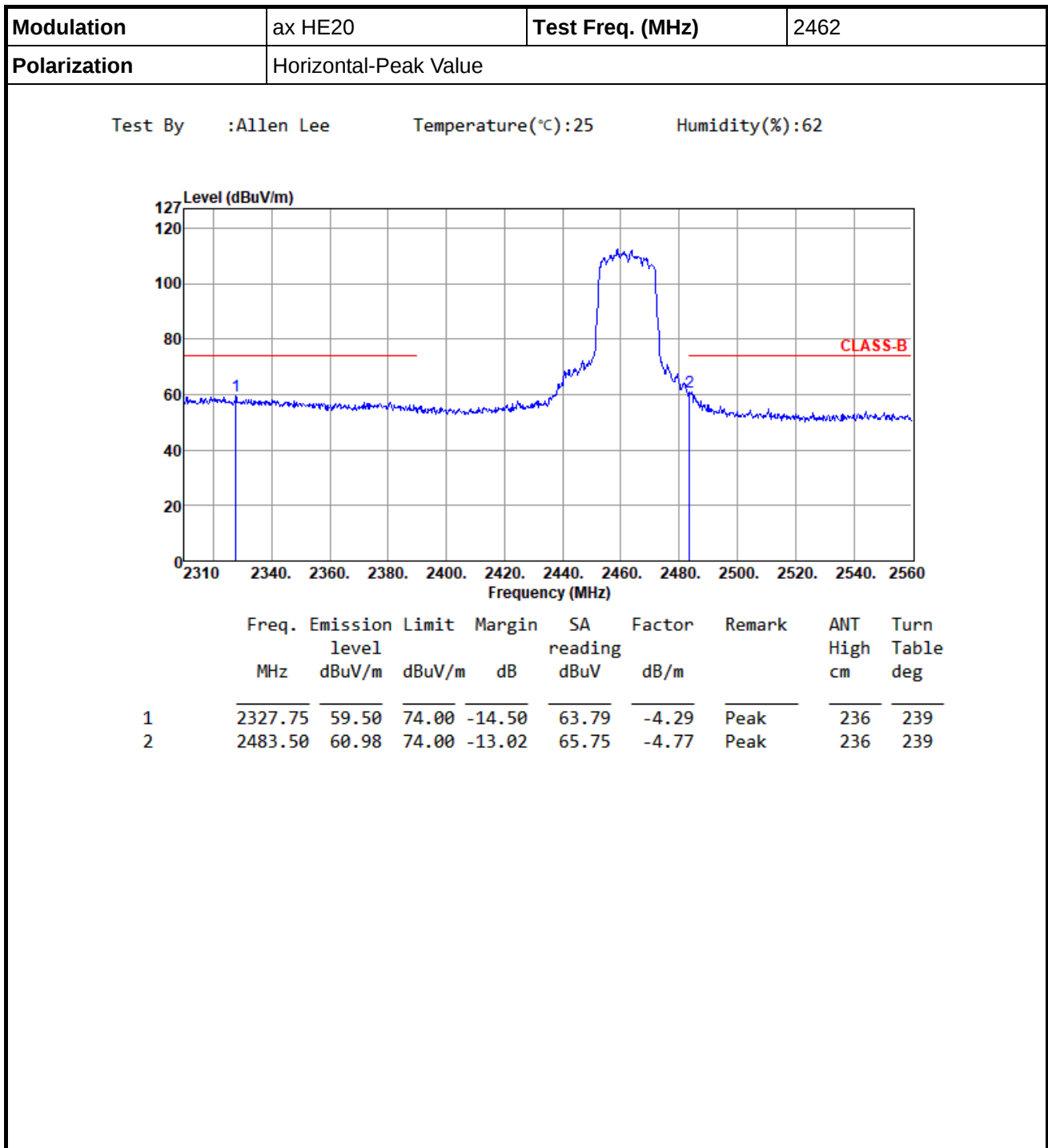


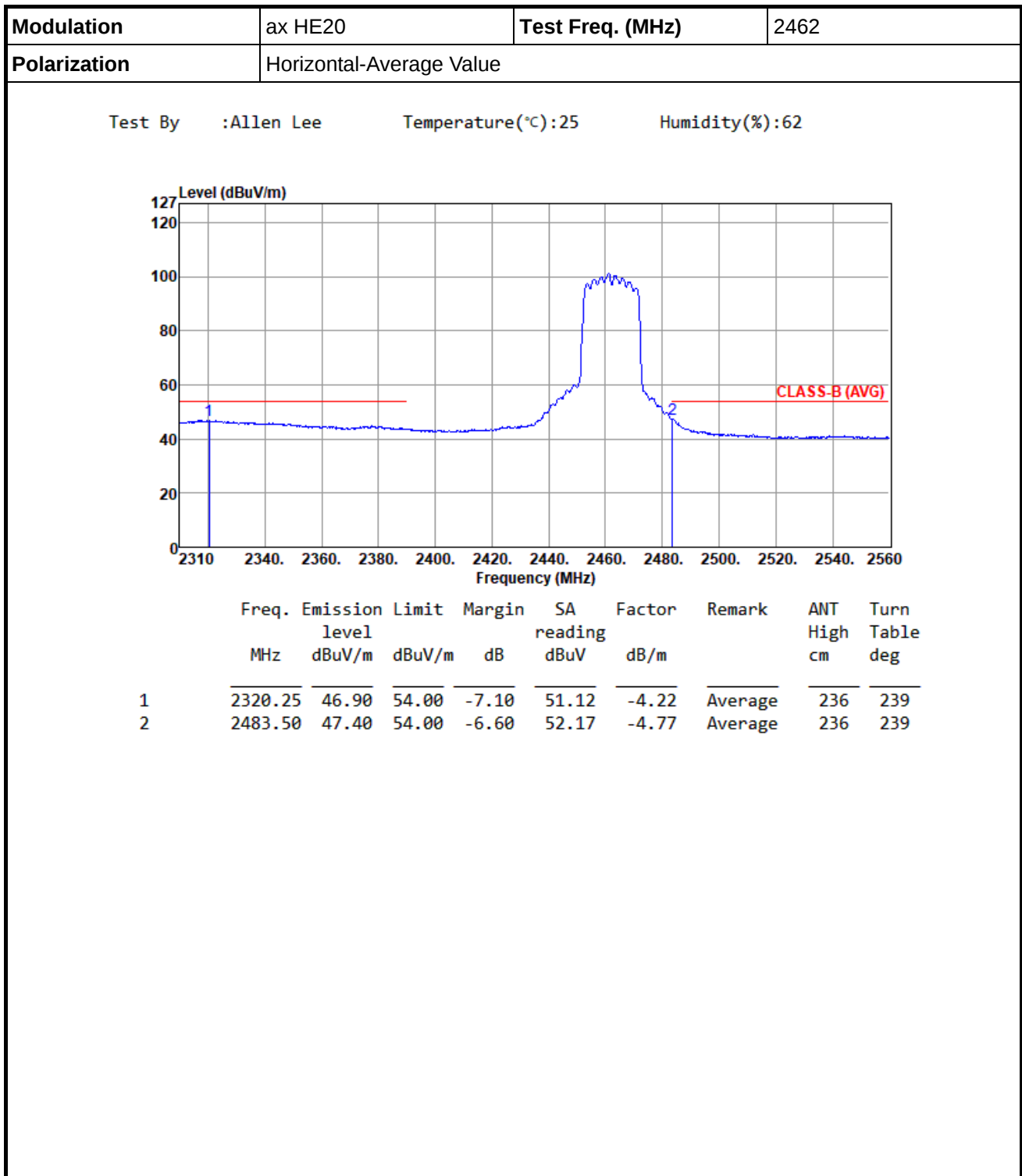


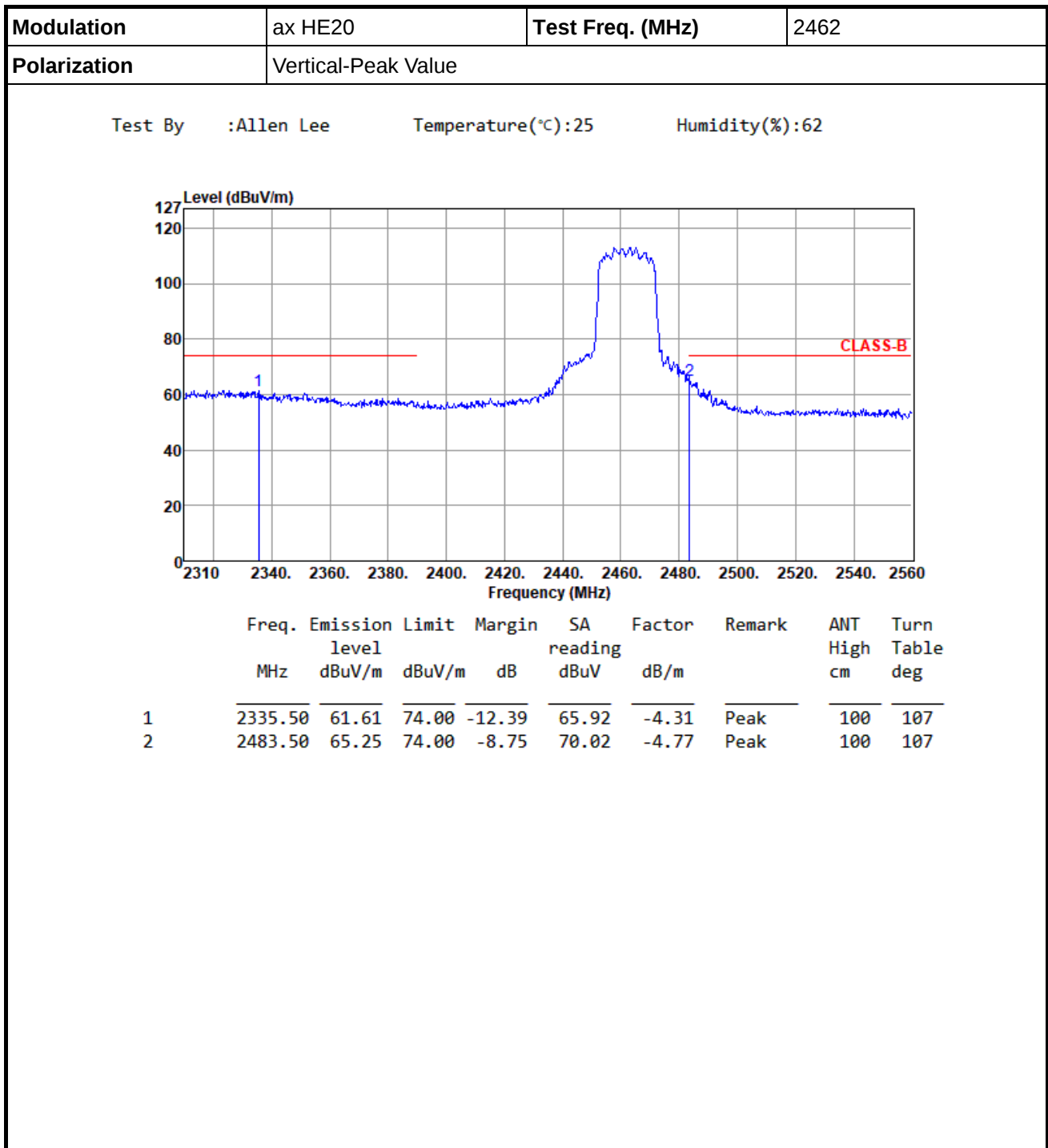


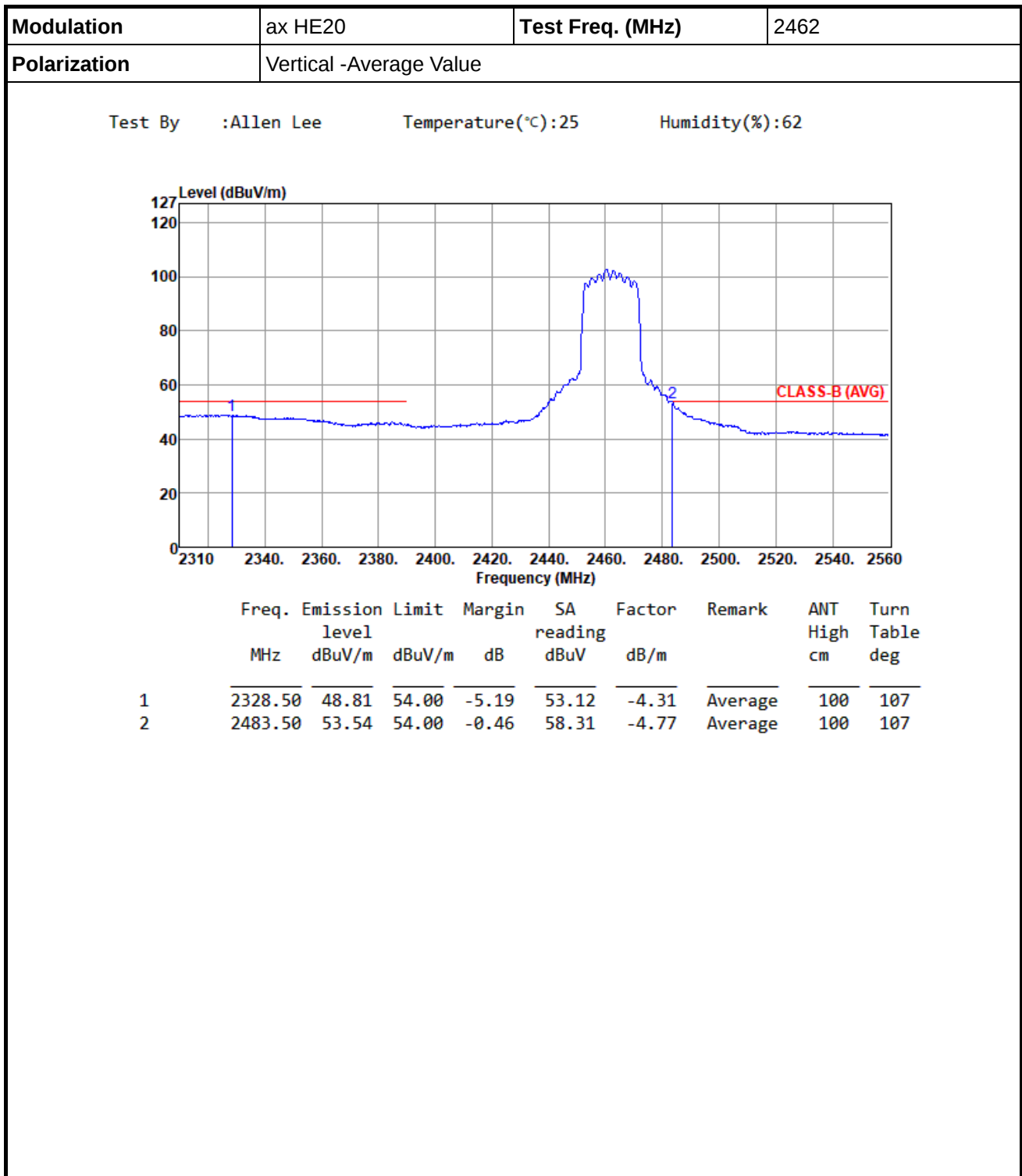


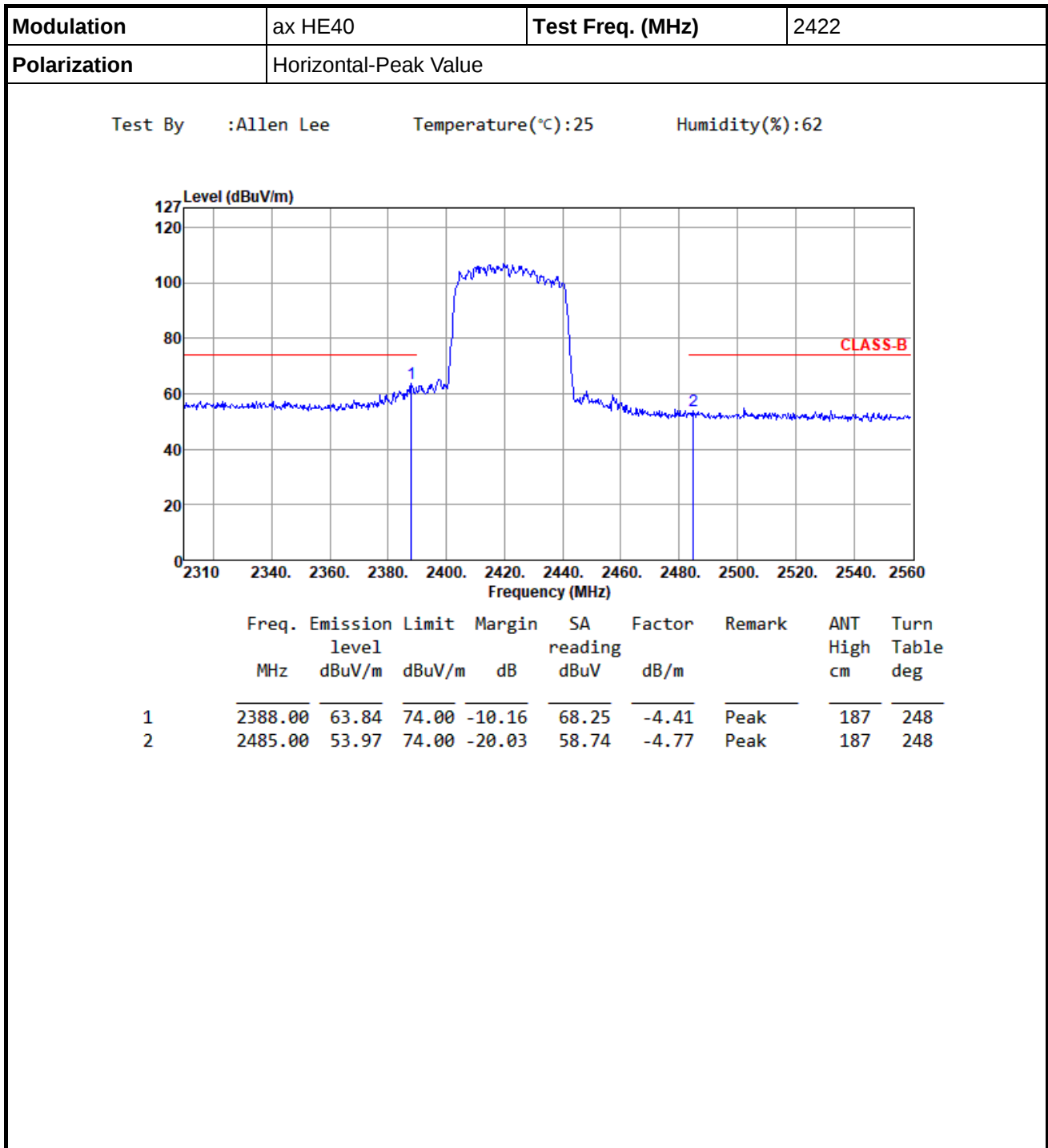


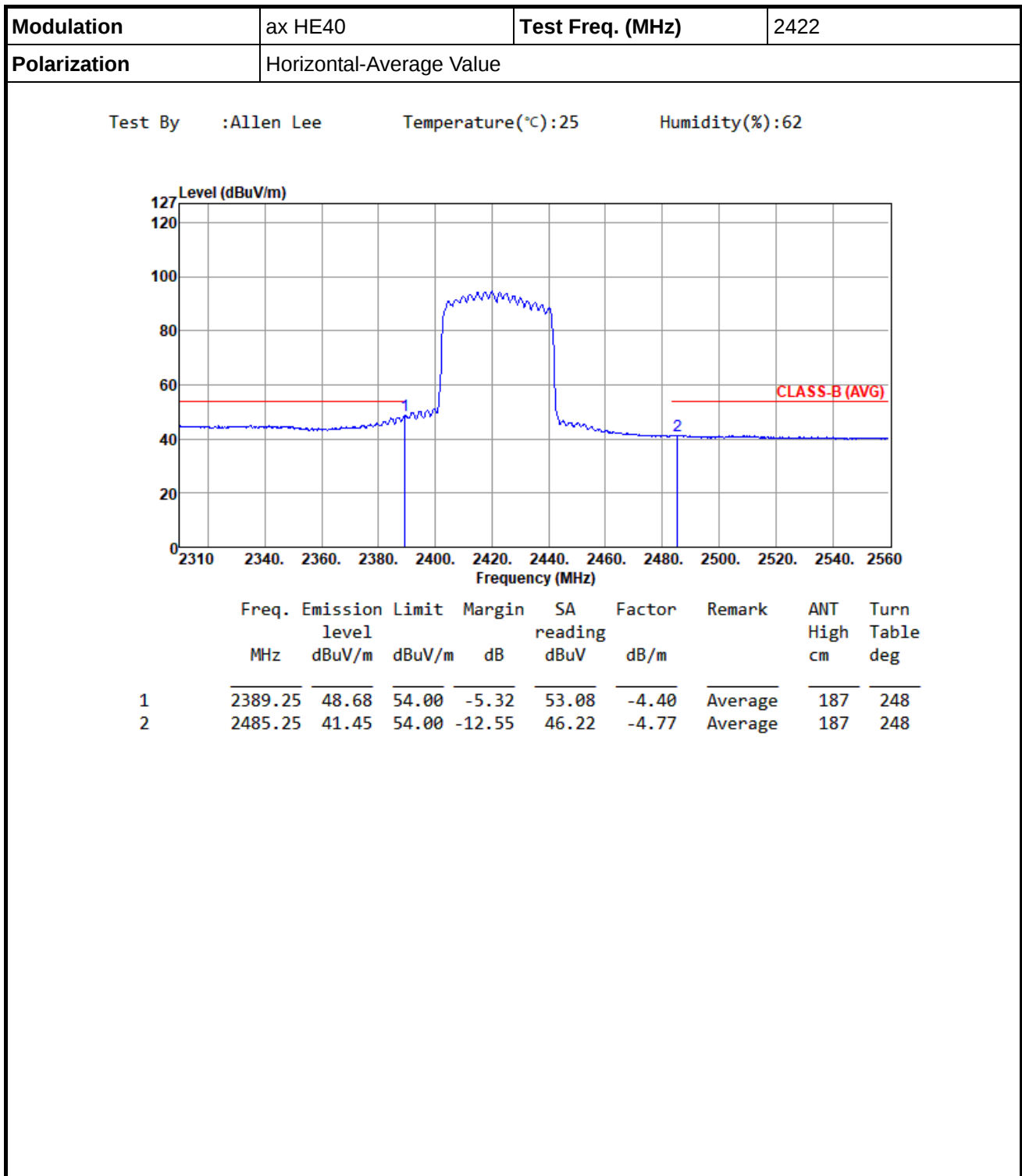


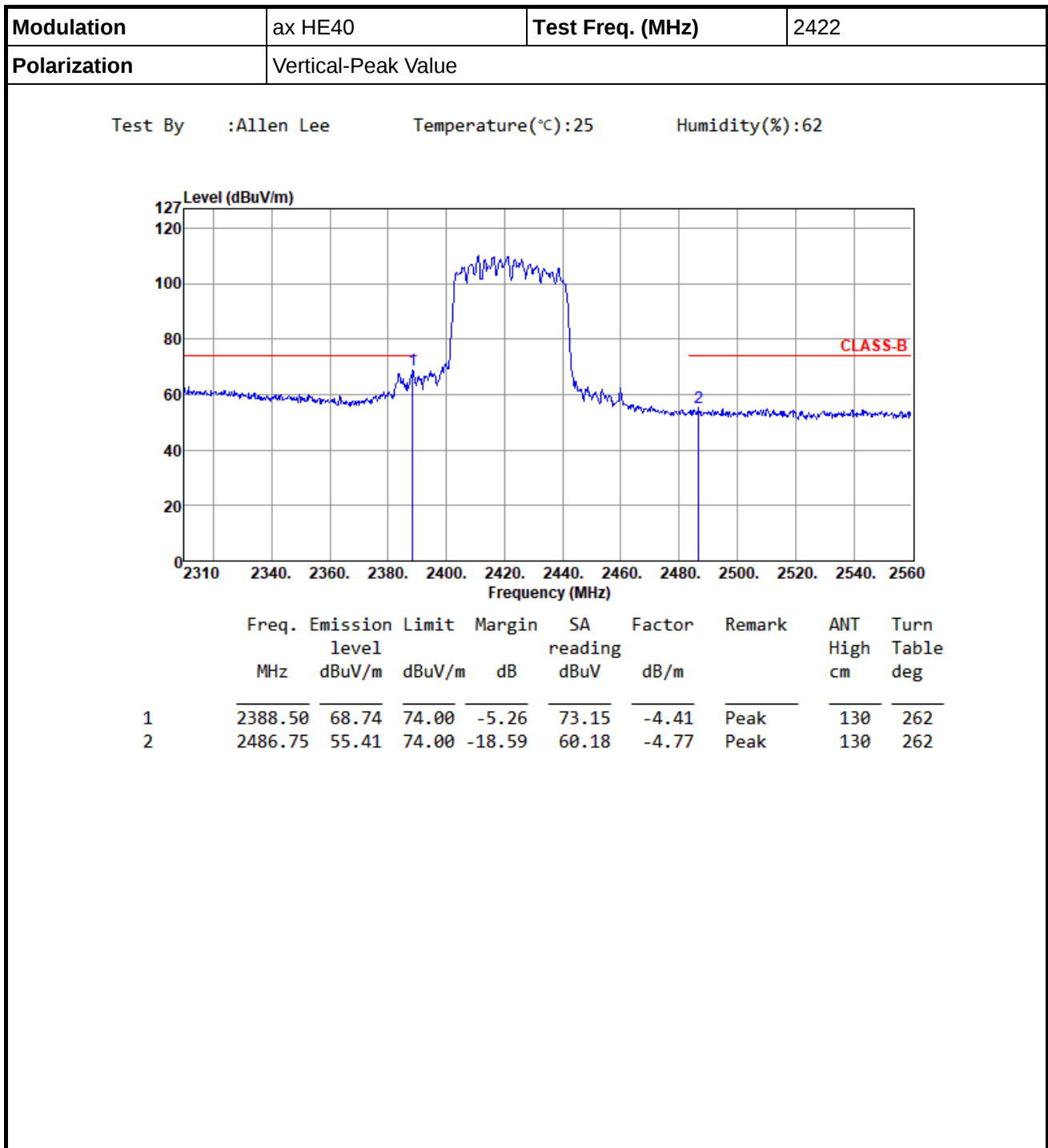


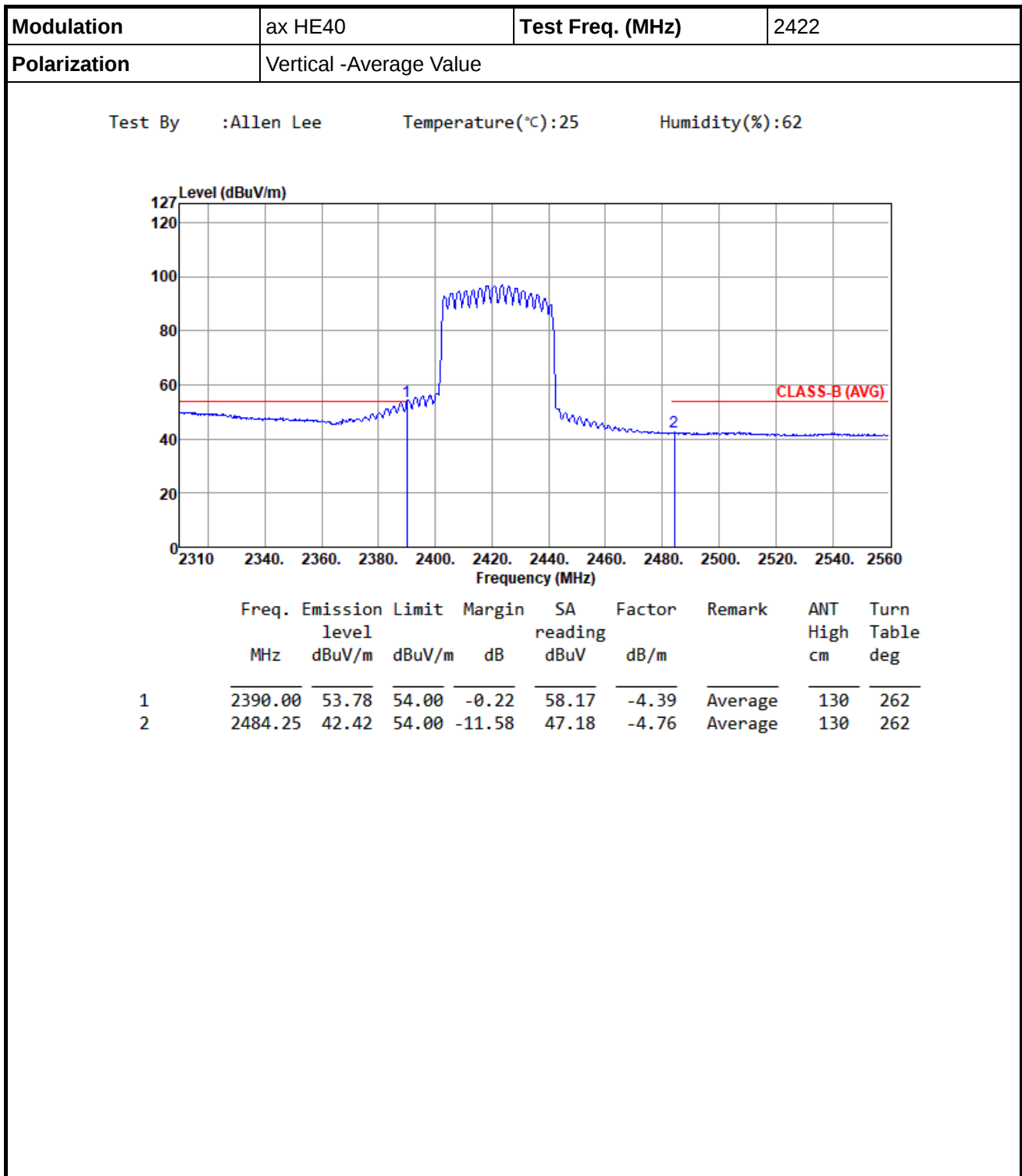


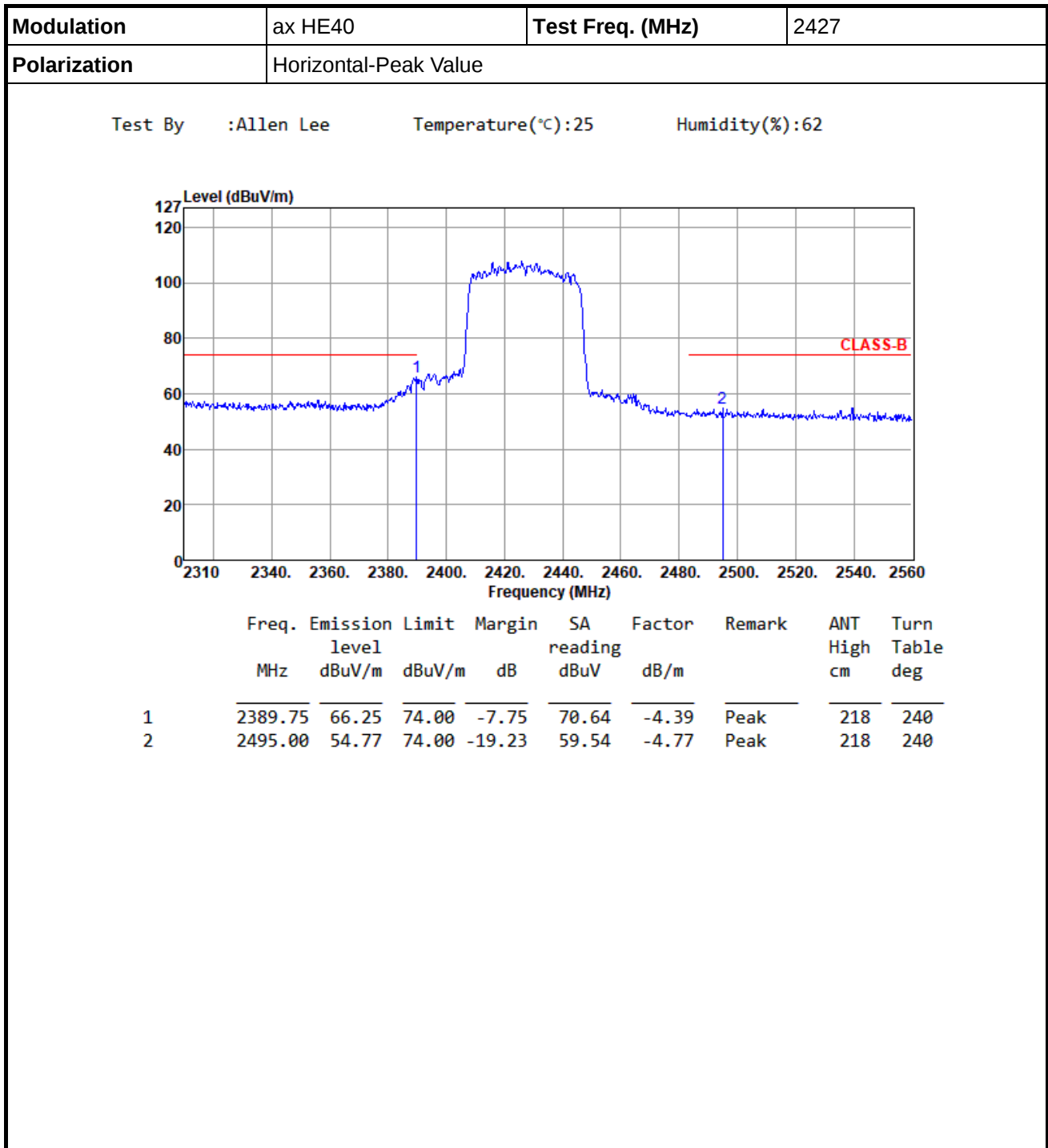


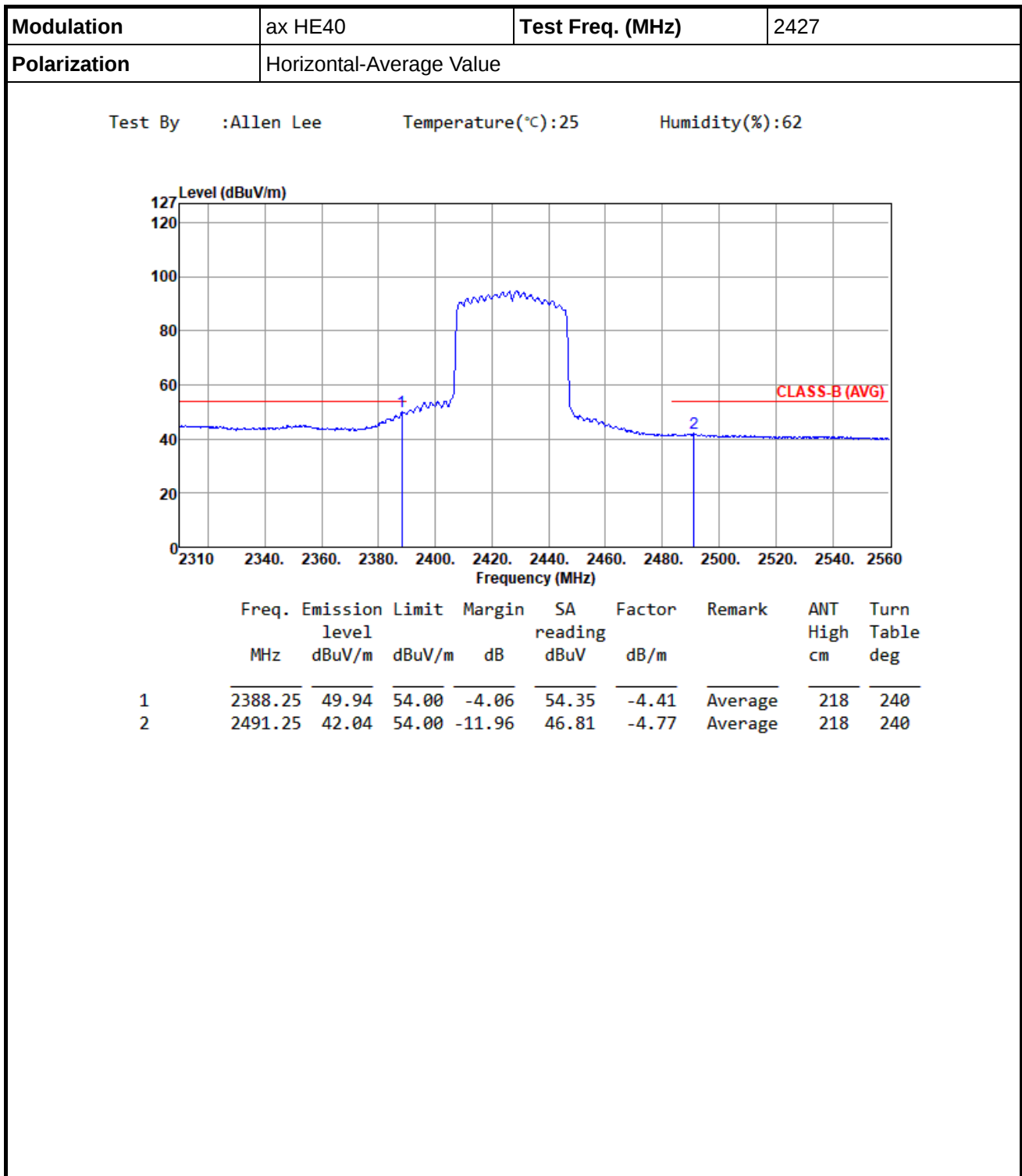


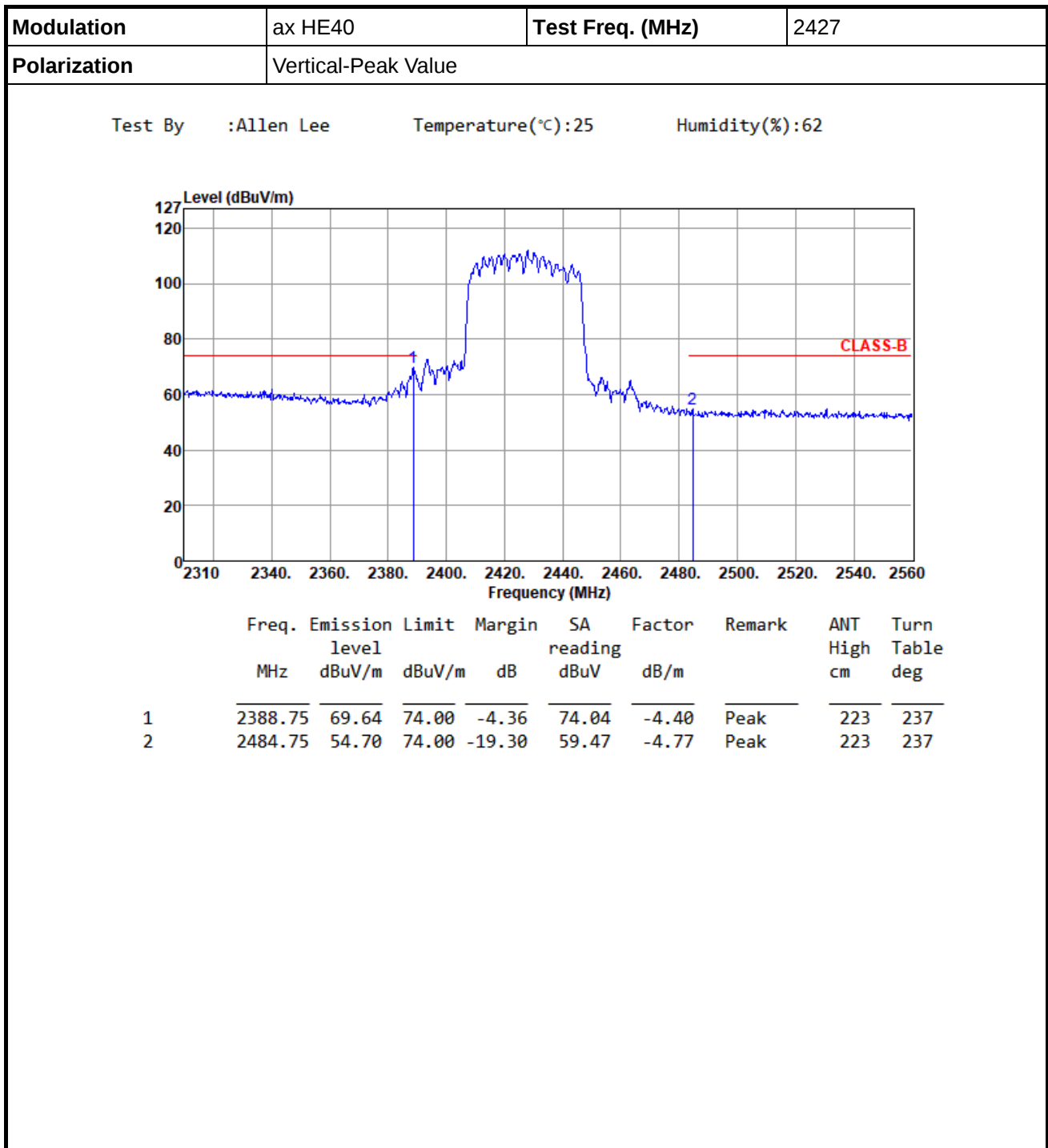


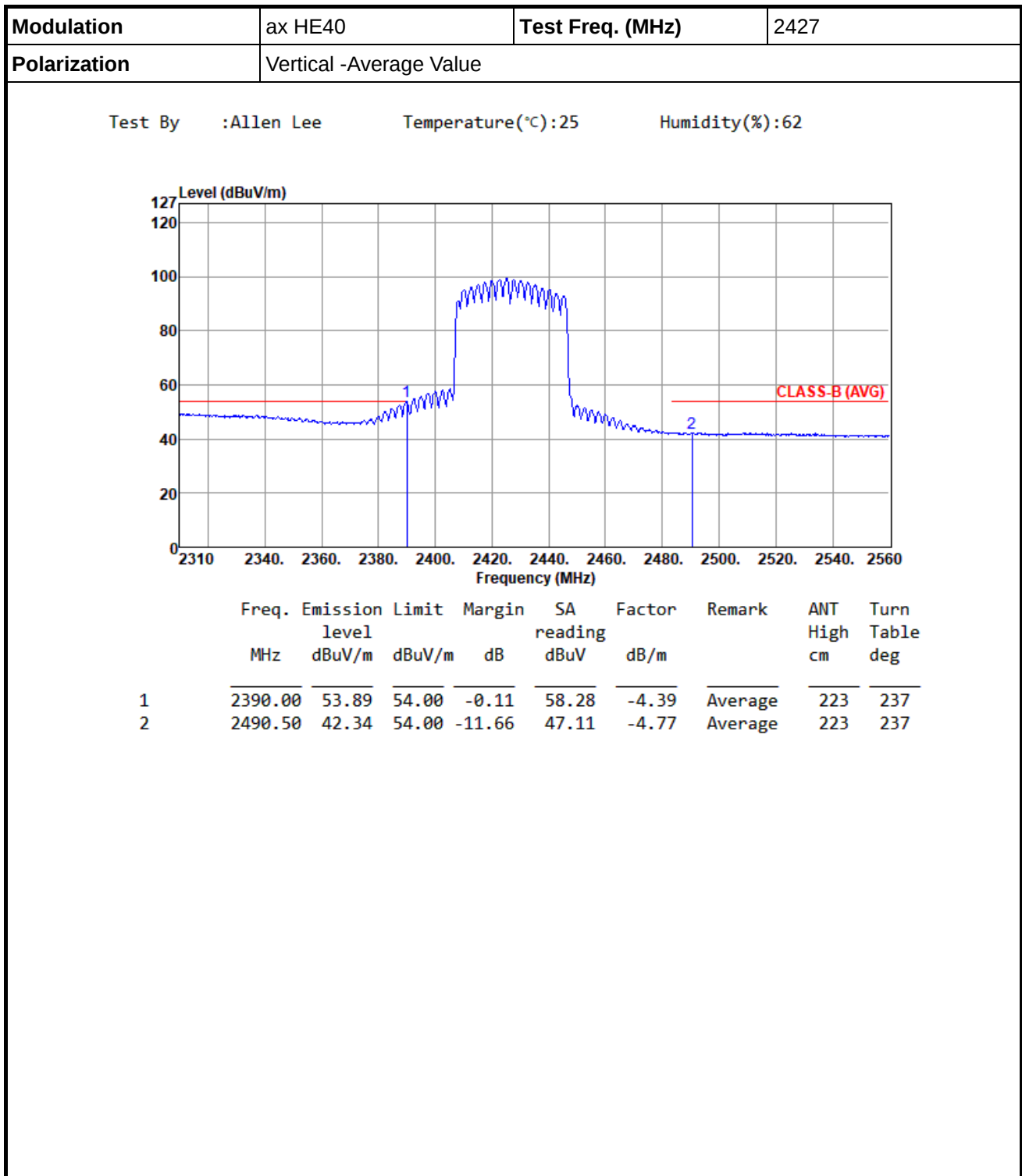


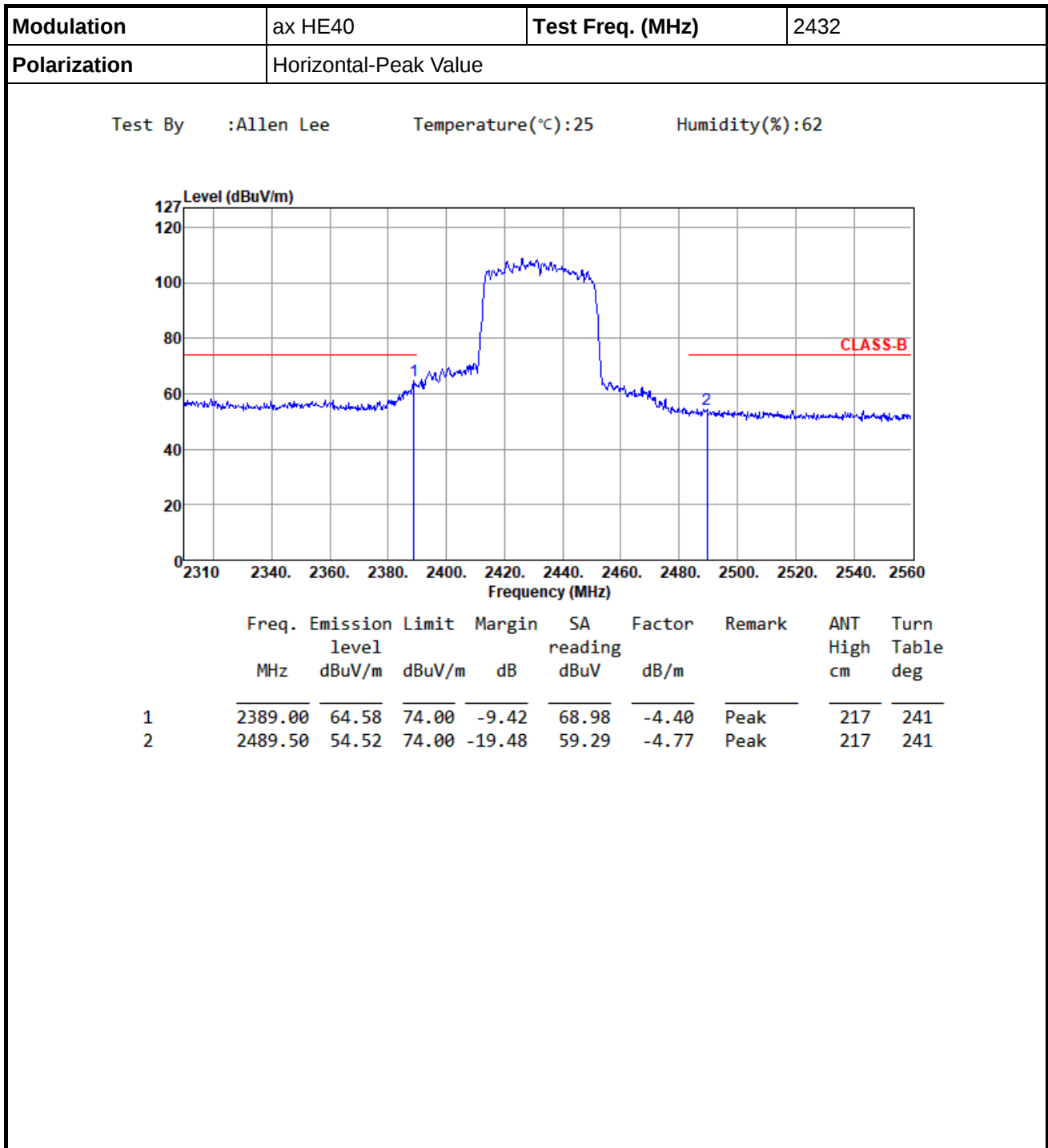


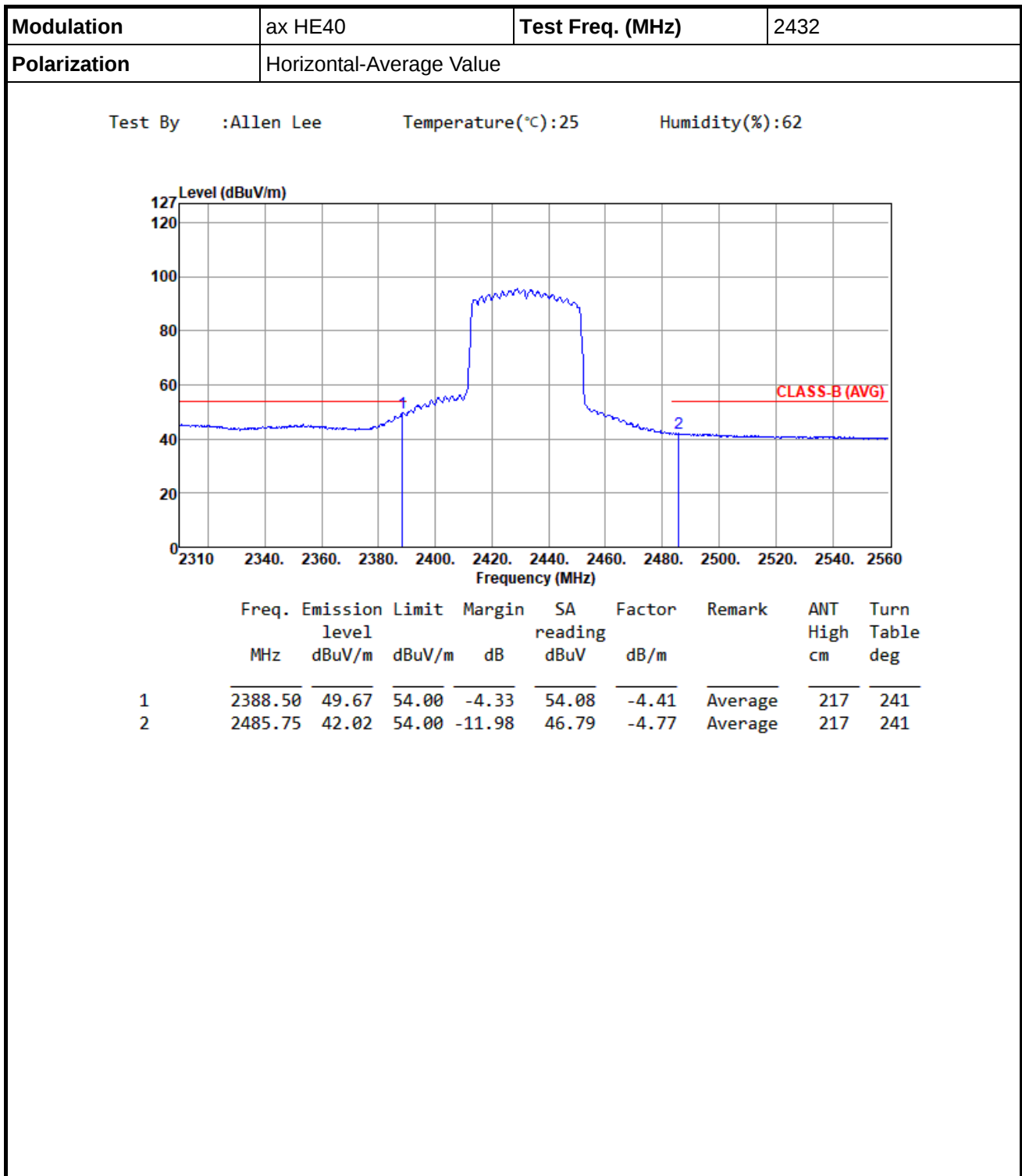


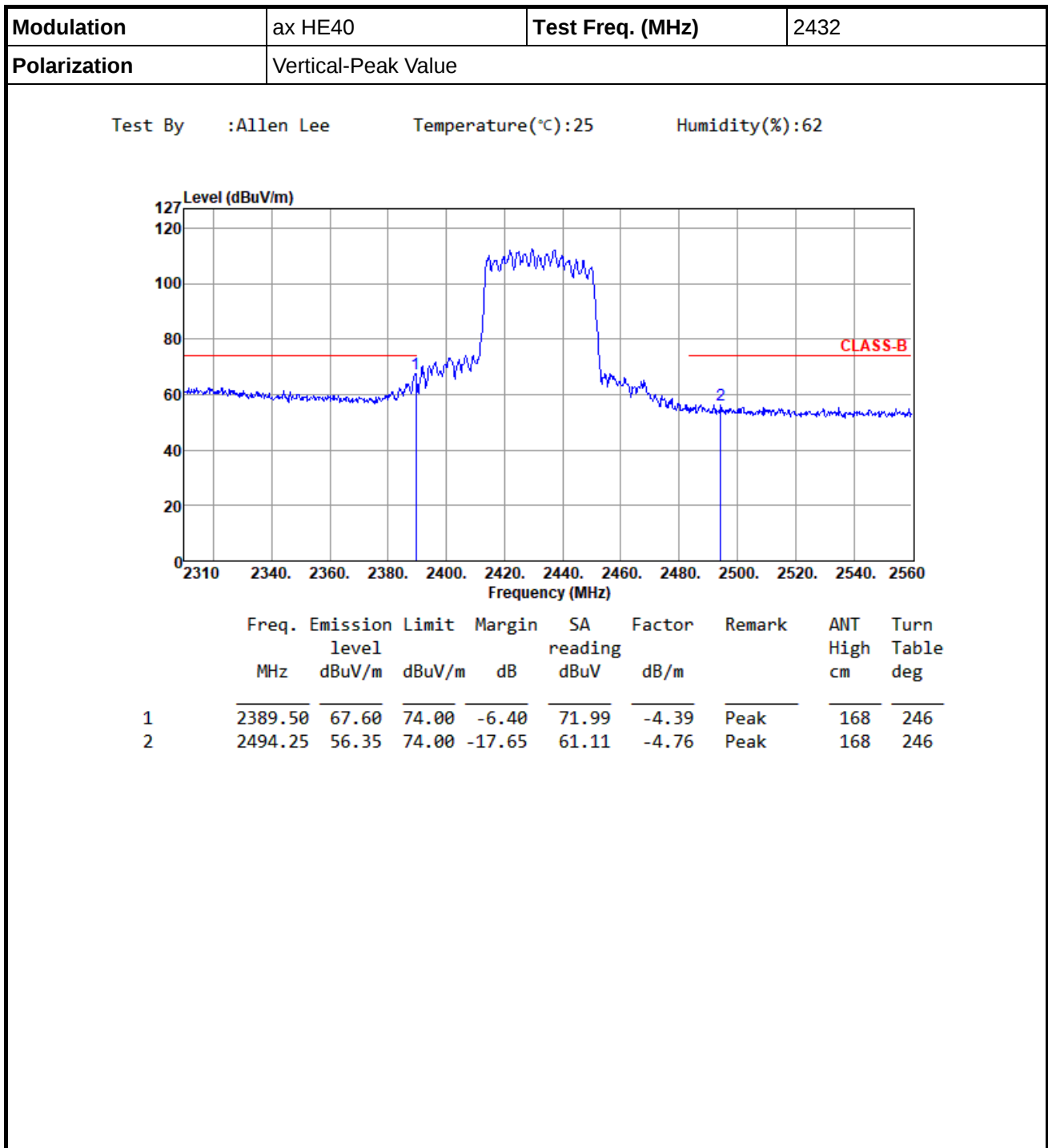


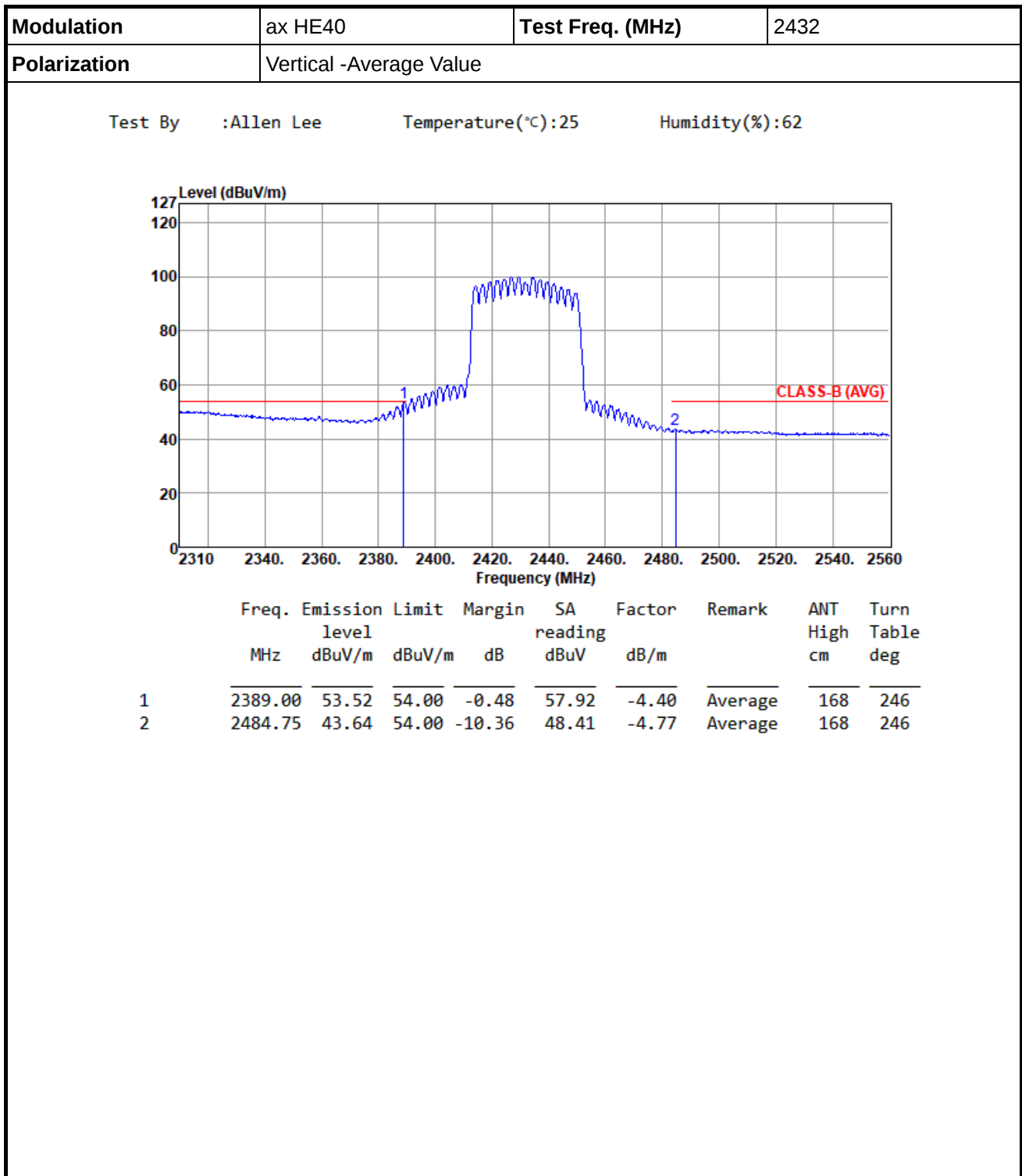


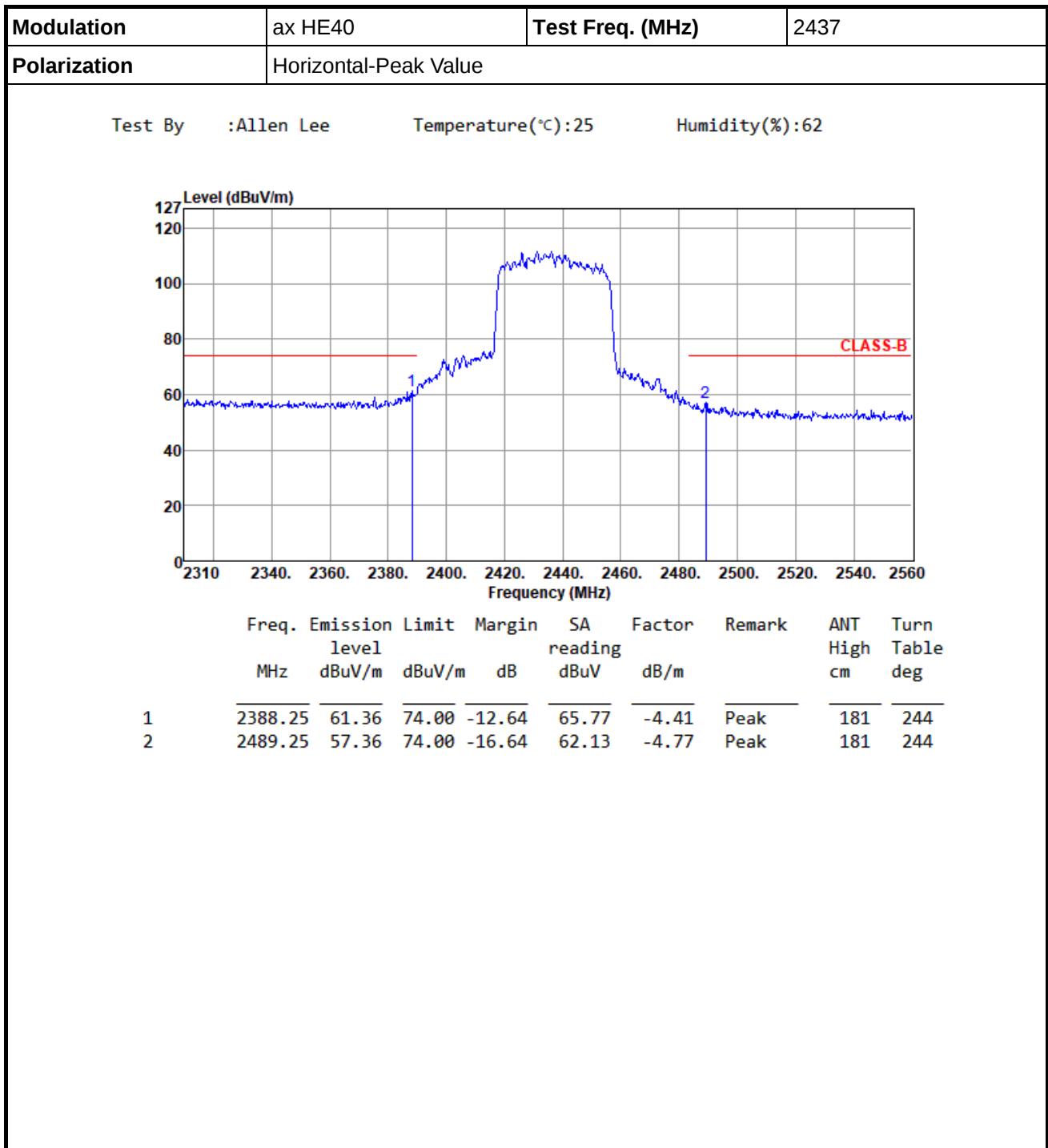


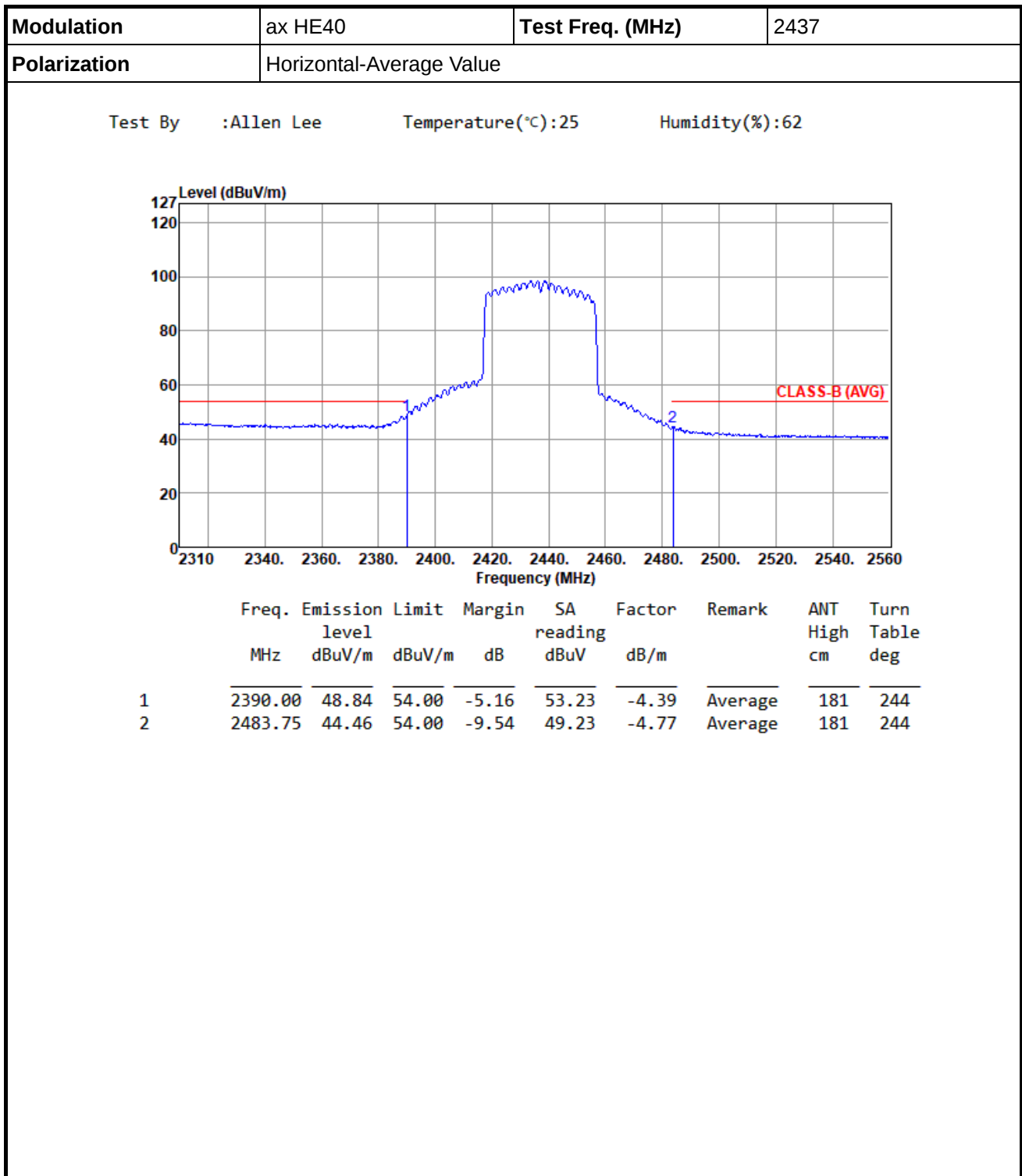


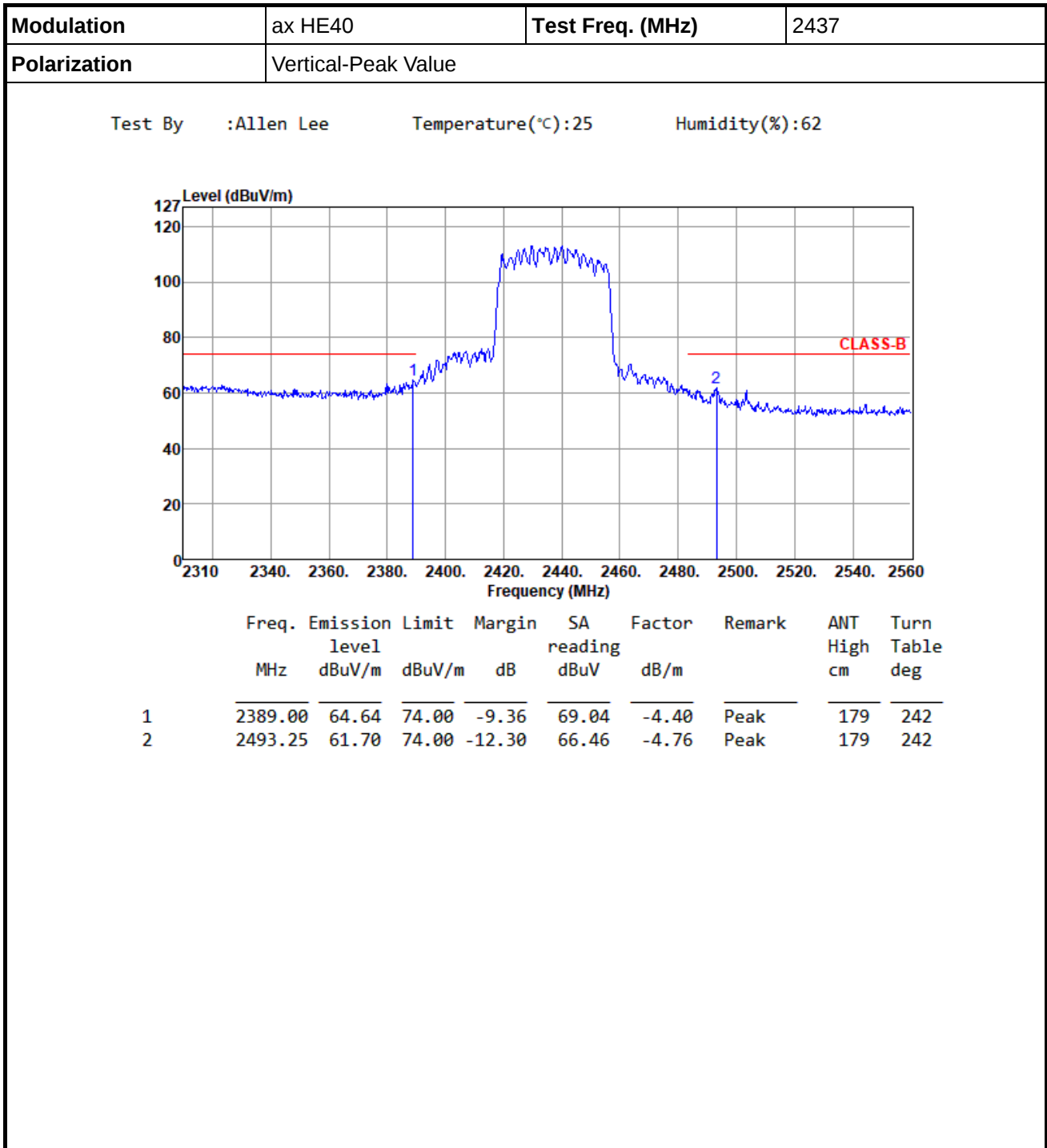


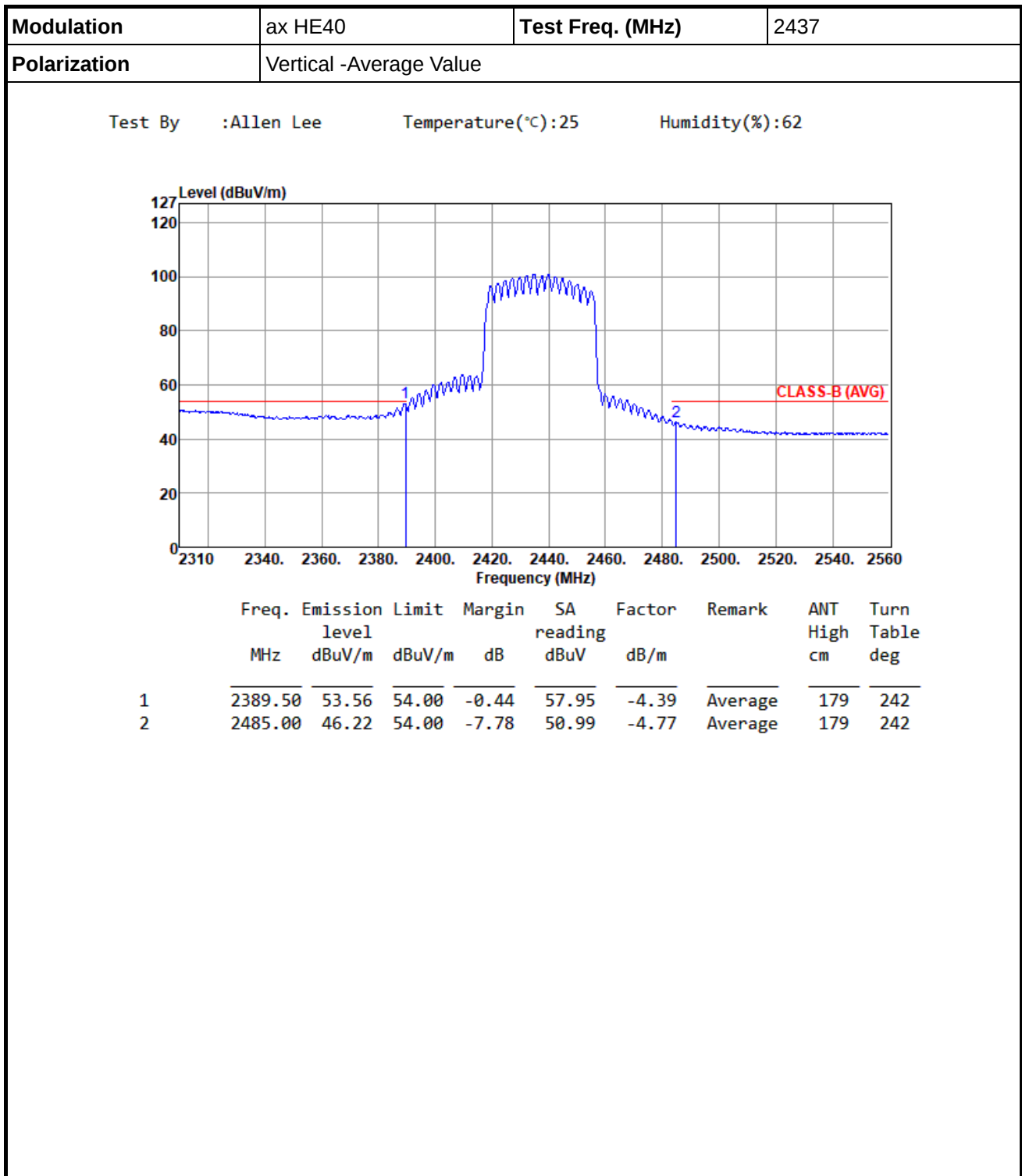


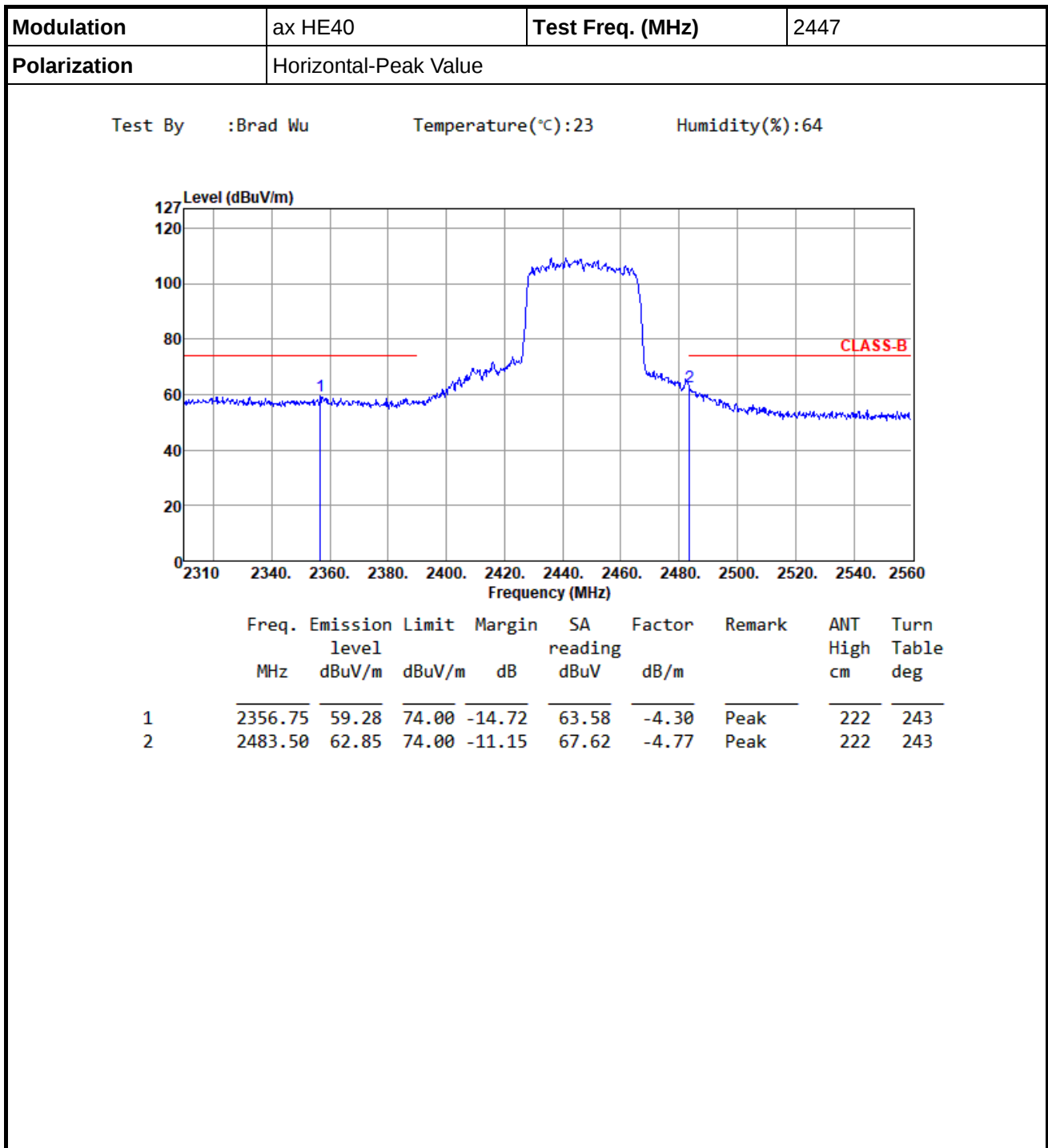


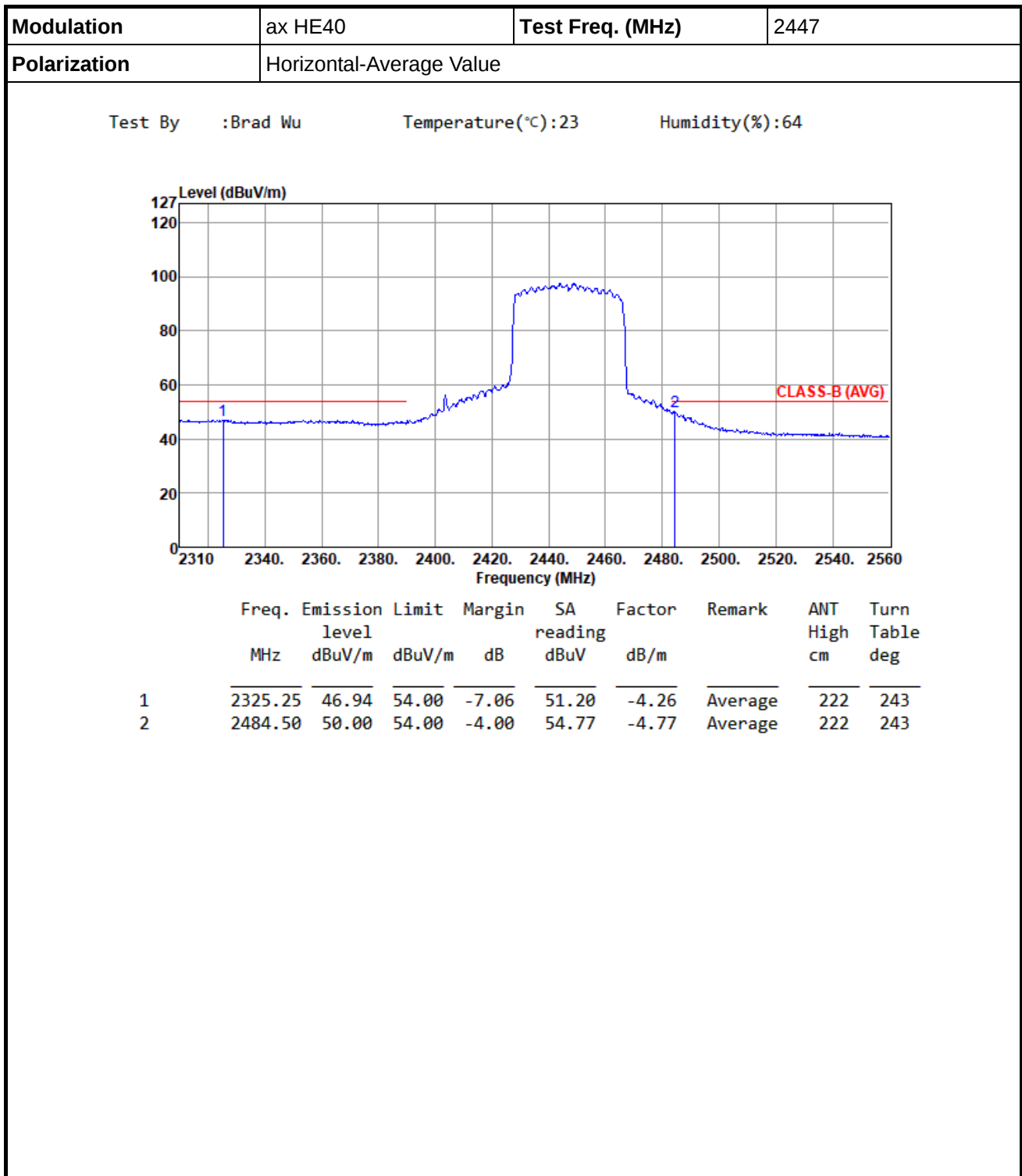


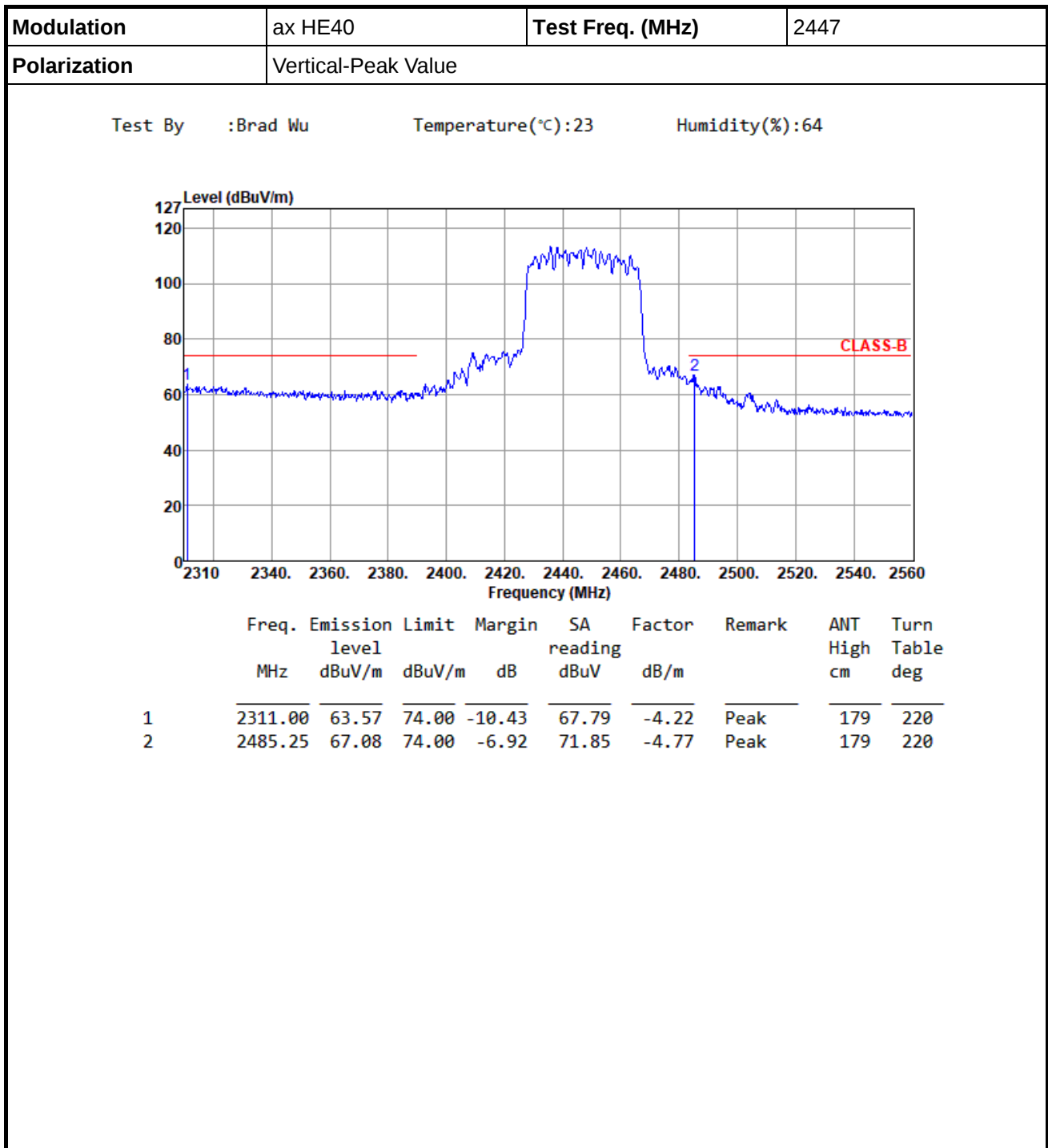


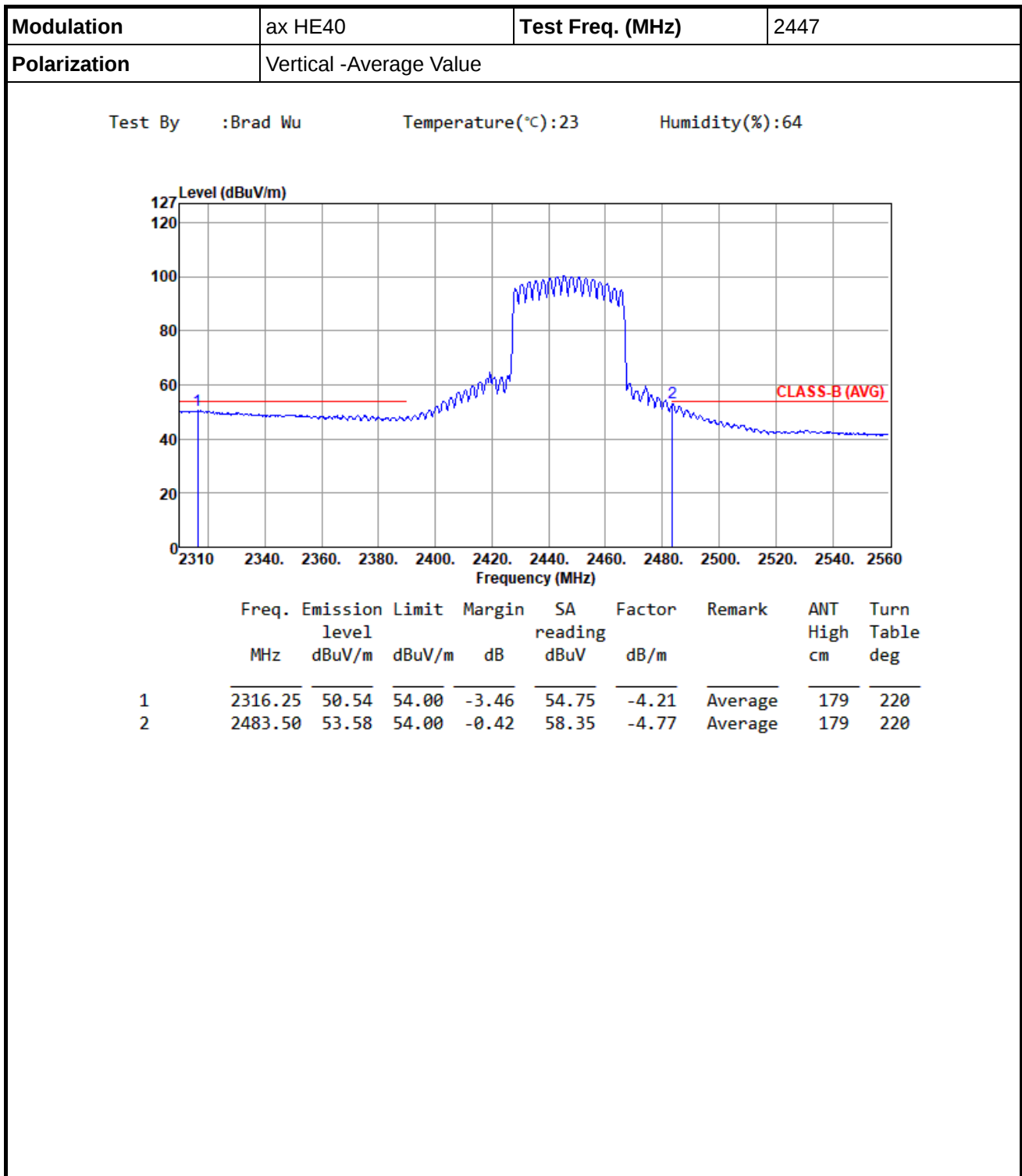


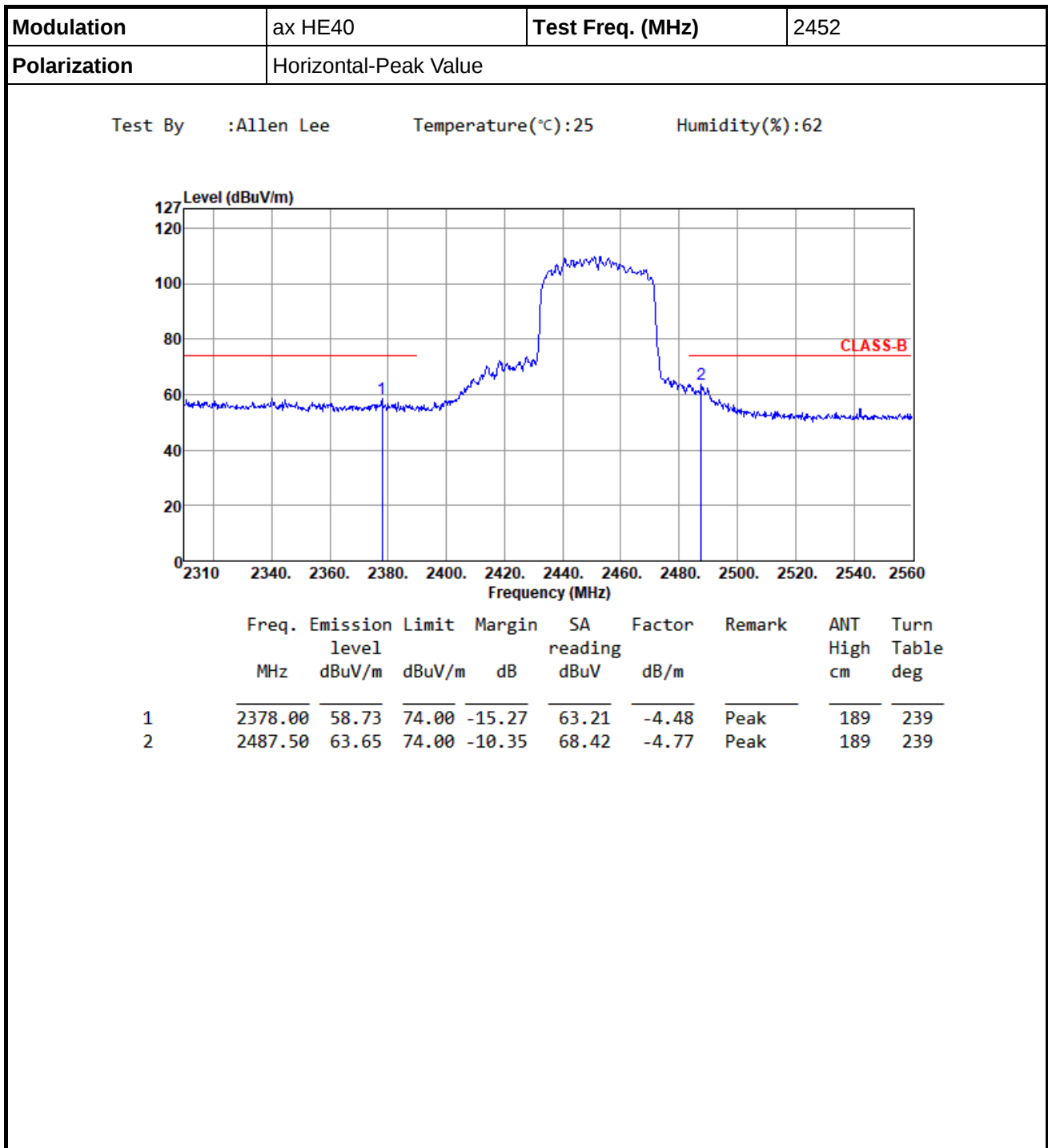


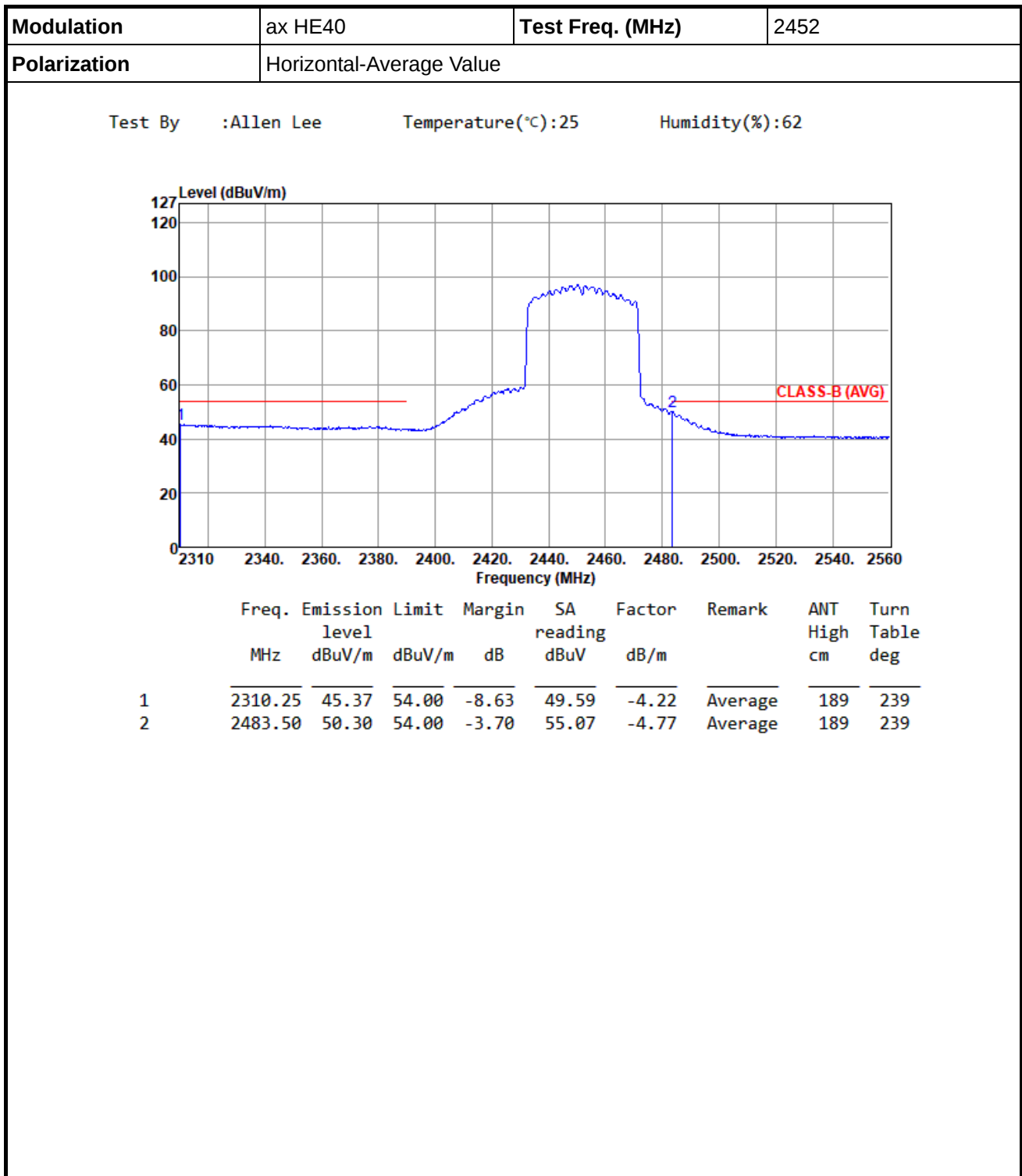


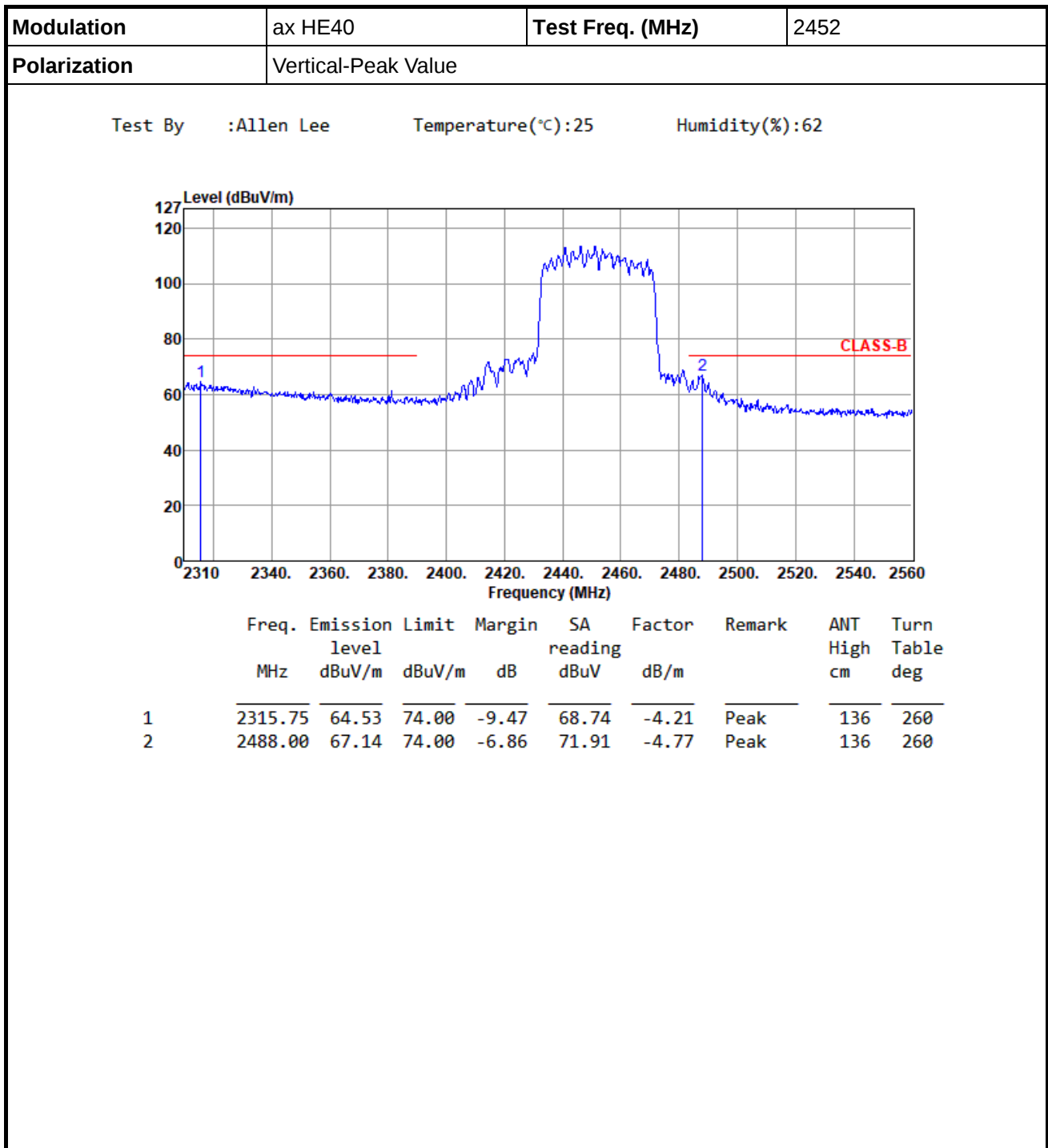


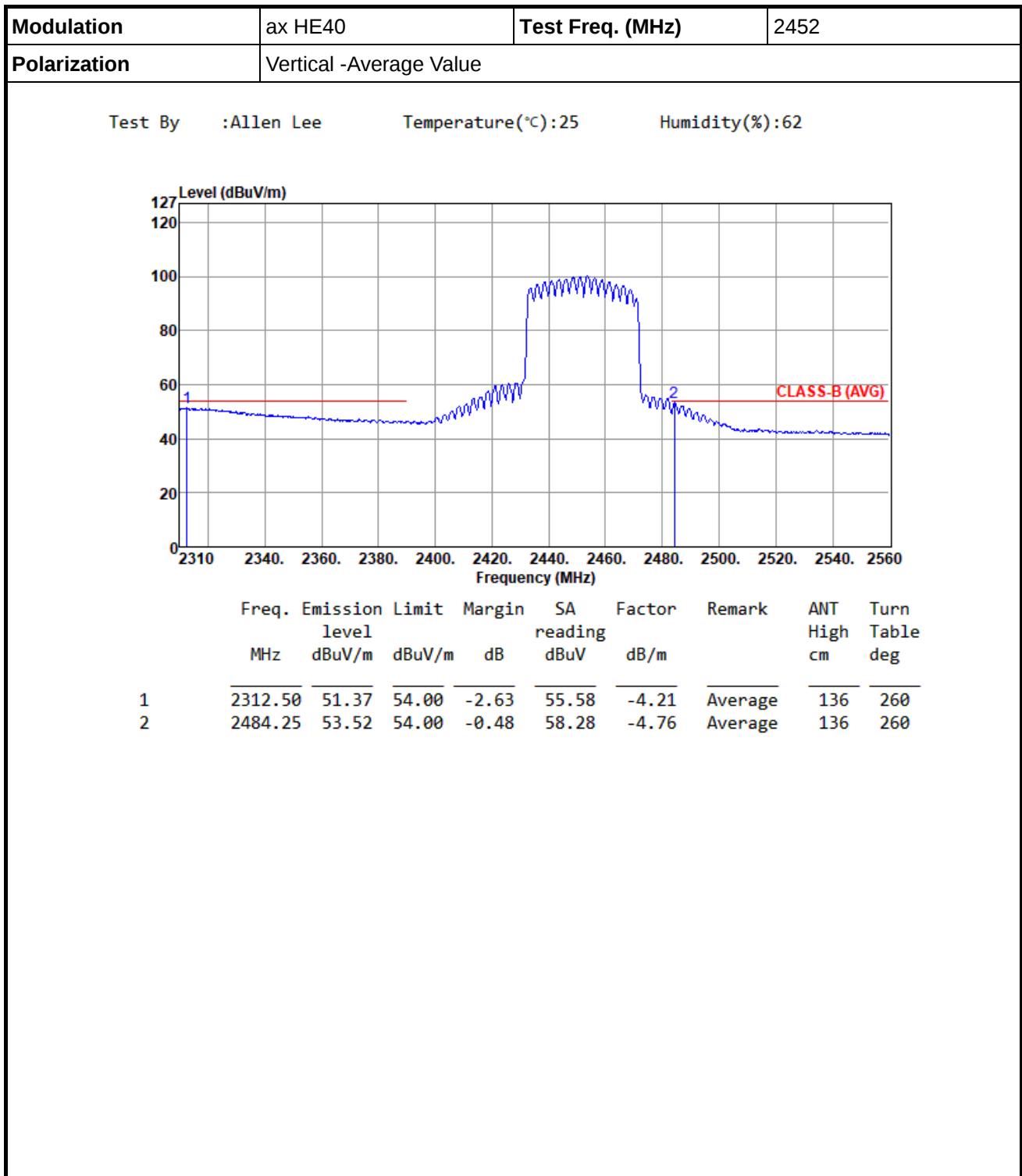












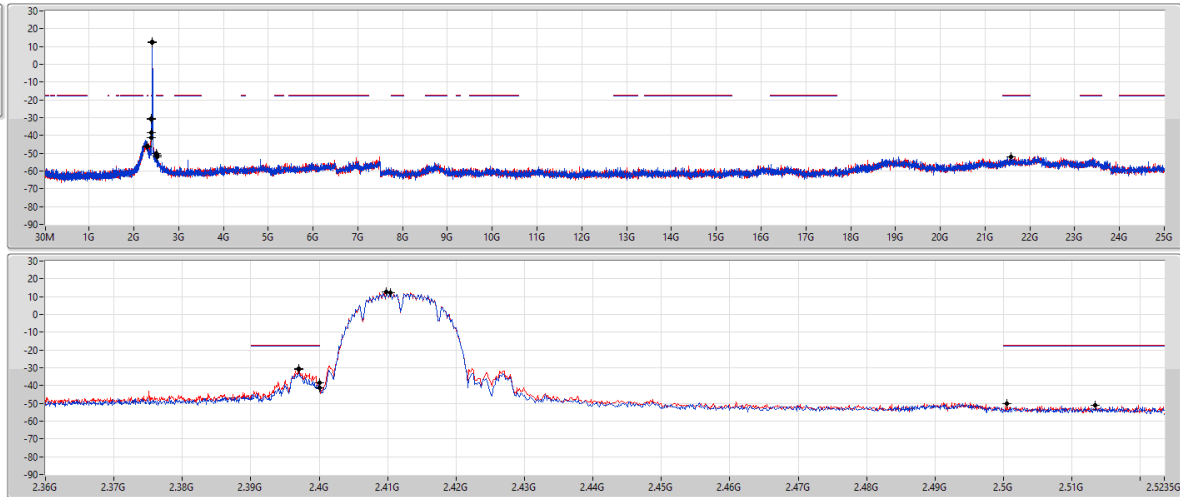


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2412MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



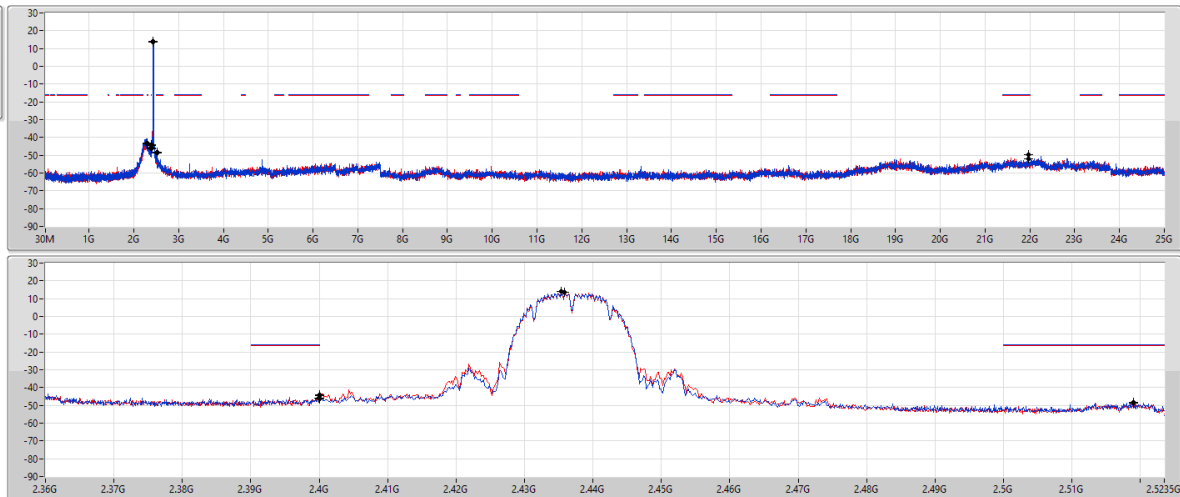
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41035G	12.30	-17.70	2.30641G	-46.39	2.39704G	-30.68	2.4G	-38.63	2.51342G	-51.16	21.98357G	-52.23	1
2.40985G	12.46	-17.54	2.30292G	-45.82	2.39696G	-31.03	2.4G	-41.15	2.50054G	-50.33	2.52631G	-52.21	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

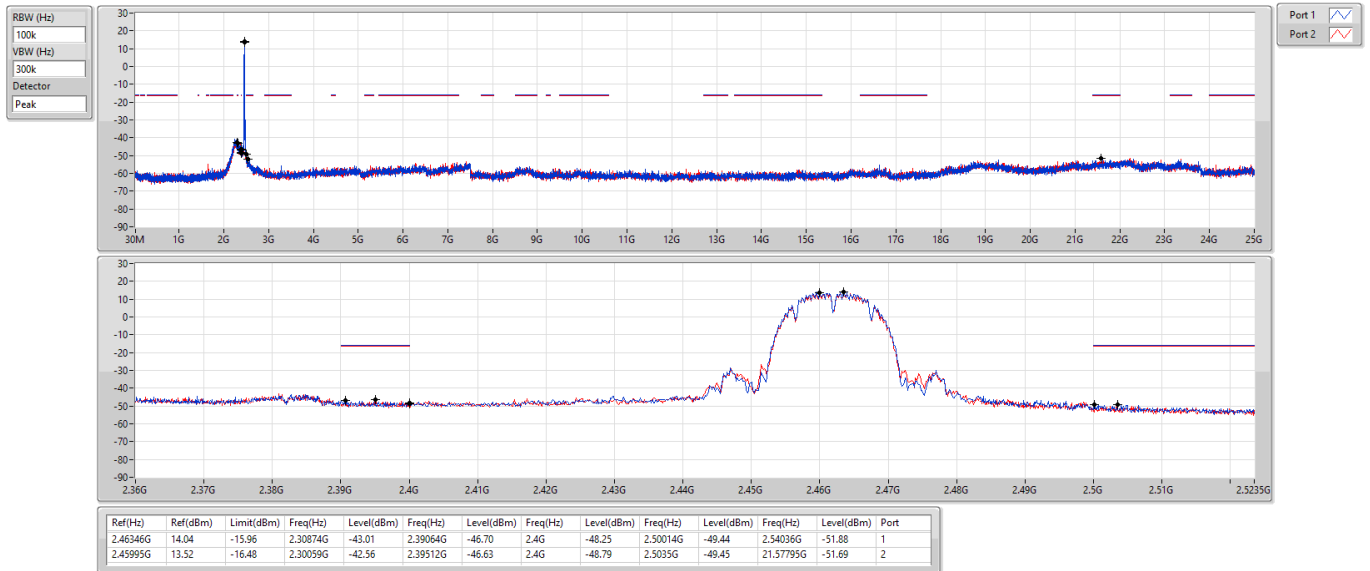


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4354G	13.83	-16.17	2.30408G	-42.99	2.39992G	-45.96	2.4G	-46.21	2.51894G	-48.51	21.96567G	-51.88	1
2.43591G	13.59	-16.41	2.30641G	-43.72	2.4G	-44.10	2.4G	-44.63	2.51902G	-48.91	21.9741G	-49.88	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

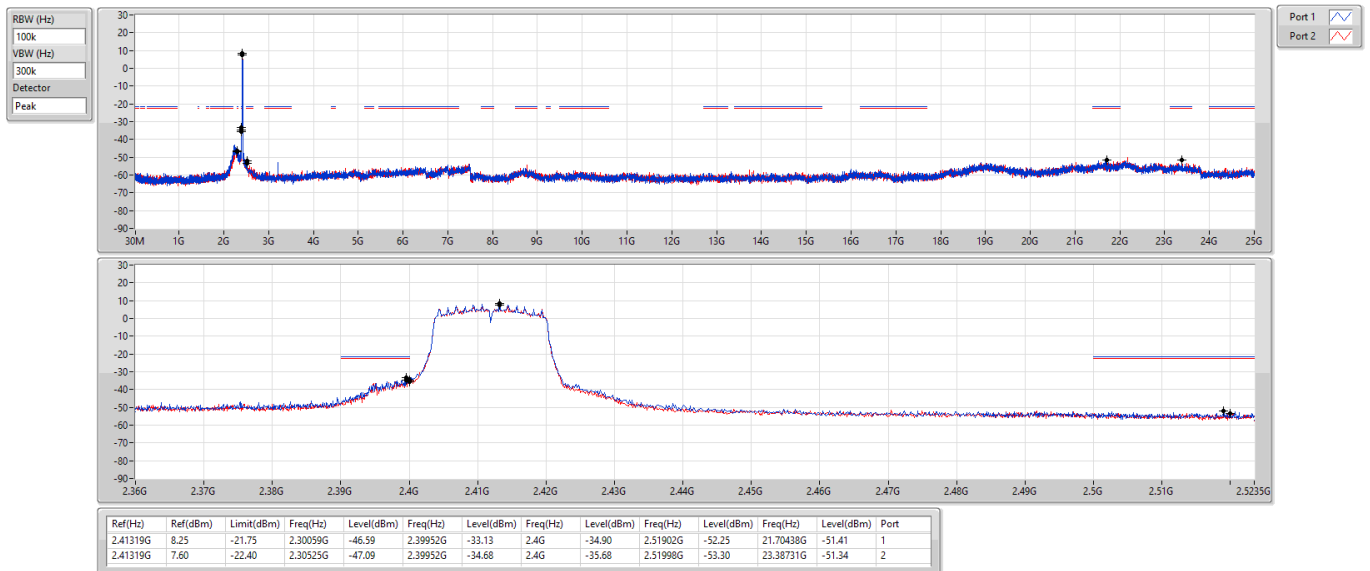
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

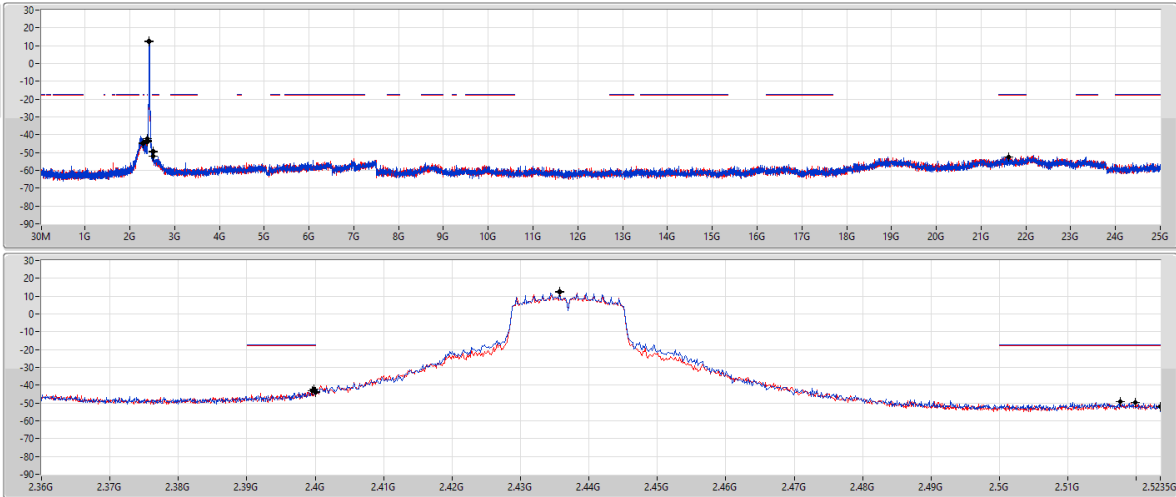


2.4-2.4835GHz_802.11g_(6Mbps)_2TX

CSEndB

2437MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



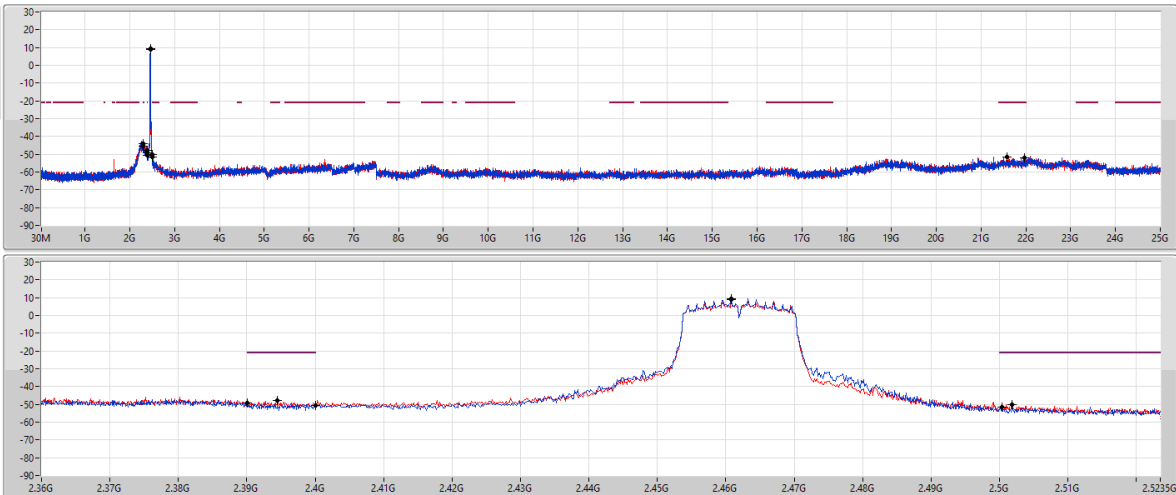
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	12.55	-17.45	2.30059G	-44.63	2.39984G	-42.40	2.4G	-43.82	2.51982G	-49.48	21.62291G	-52.41	1
2.43574G	12.00	-18.00	2.30641G	-45.17	2.39952G	-43.11	2.4G	-44.19	2.51766G	-49.41	2.5235G	-52.13	2

2.4-2.4835GHz_802.11g_(6Mbps)_2TX

CSEndB

2462MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



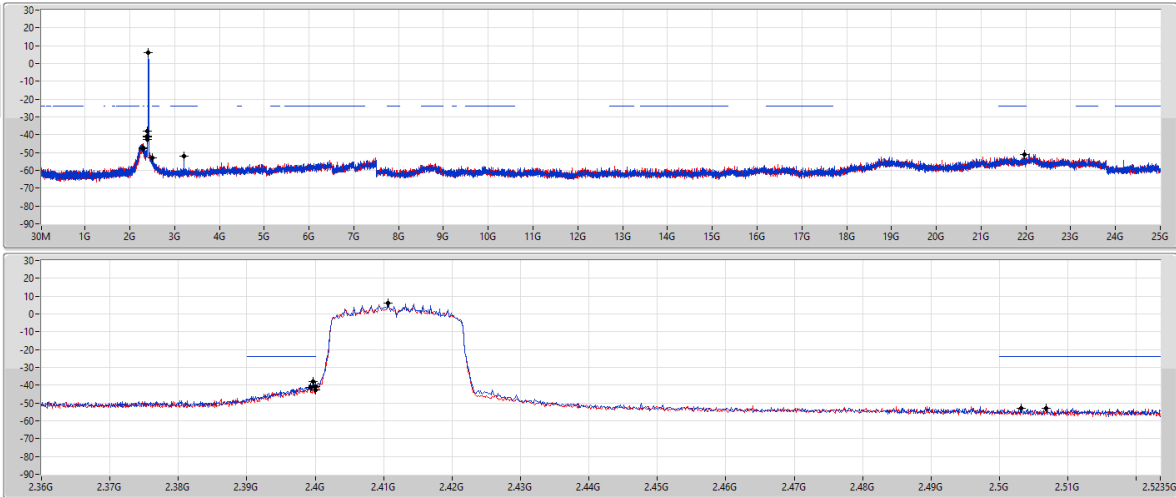
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46079G	9.47	-20.53	2.30175G	-45.29	2.39008G	-49.34	2.4G	-50.57	2.50038G	-51.75	21.58076G	-51.68	1
2.46079G	8.87	-21.13	2.30292G	-44.05	2.39448G	-48.04	2.4G	-50.52	2.50182G	-49.97	21.97129G	-51.84	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2412MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



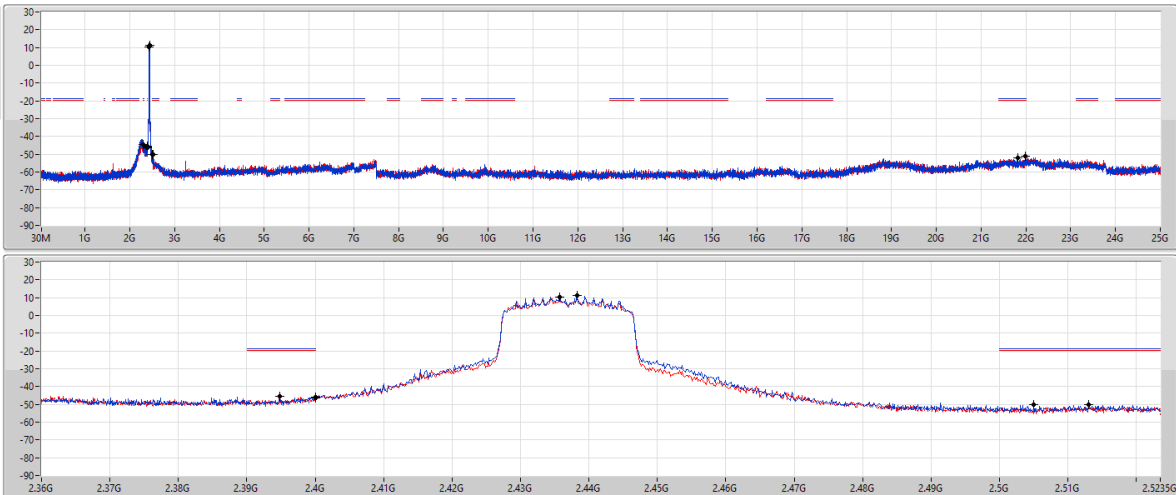
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41069G	5.90	-24.10	2.30641G	-47.70	2.39968G	-37.93	2.4G	-40.68	2.50318G	-53.15	3.21465G	-52.12	1
2.41069G	5.87	-24.13	2.30292G	-47.41	2.39928G	-41.27	2.4G	-42.66	2.50686G	-53.12	21.9741G	-51.24	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2437MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	11.14	-18.86	2.30525G	-44.56	2.4G	-45.76	2.4G	-46.12	2.50502G	-50.00	21.98253G	-51.18	1
2.43574G	10.28	-19.72	2.30758G	-44.38	2.3948G	-45.36	2.4G	-46.42	2.51302G	-50.07	21.82238G	-52.20	2

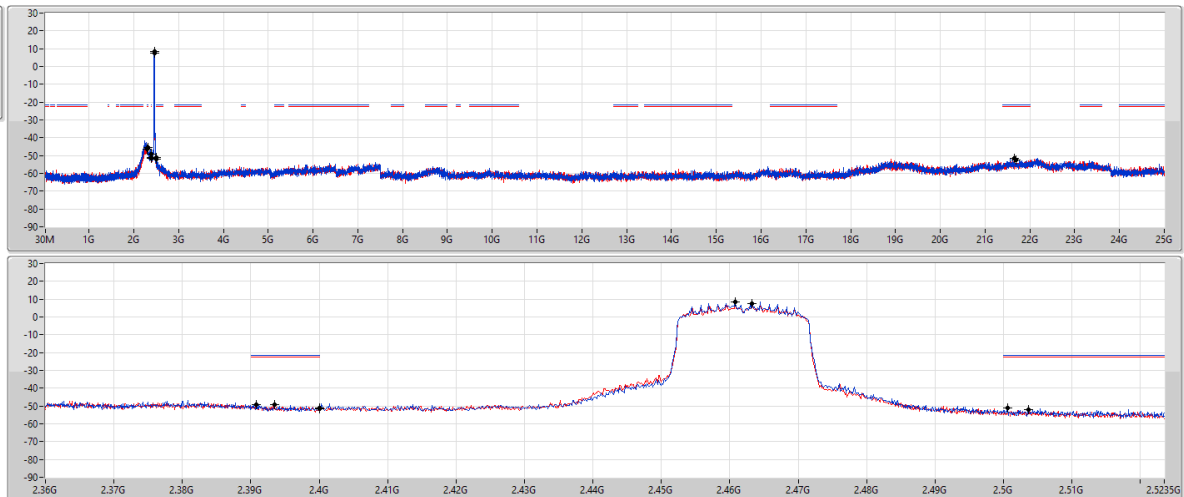


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2462MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

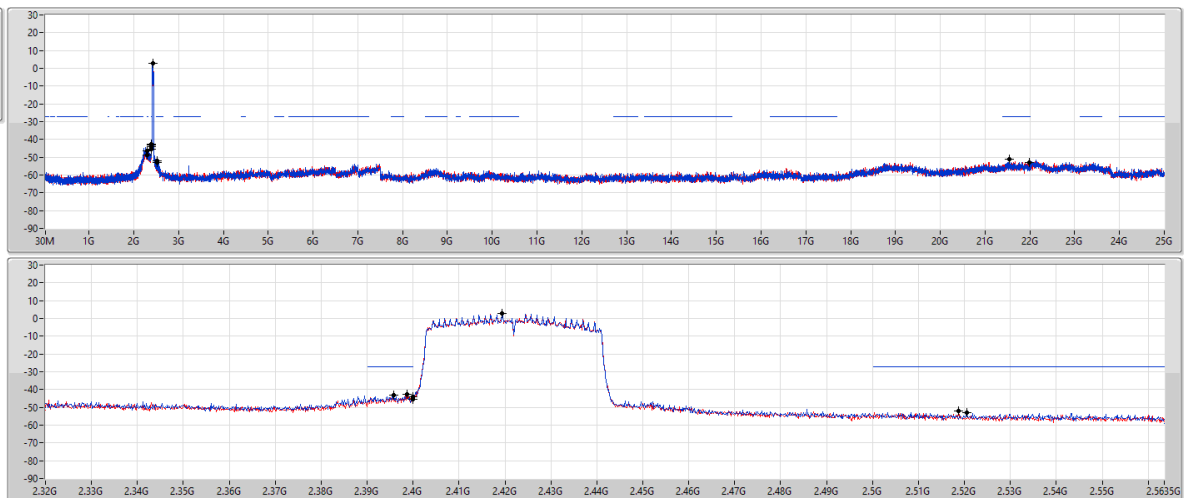


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSEndB

2422MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

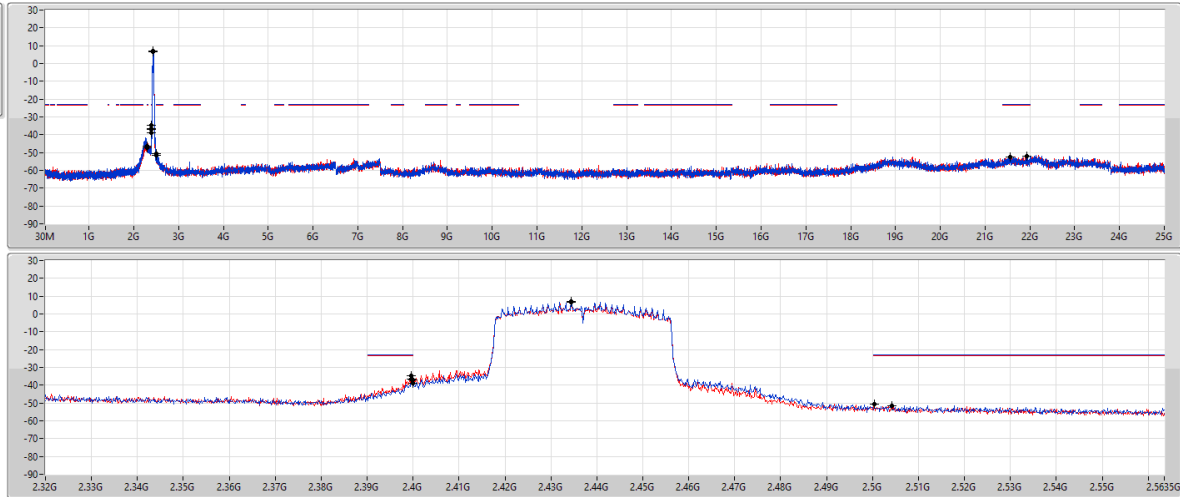


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

2437MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

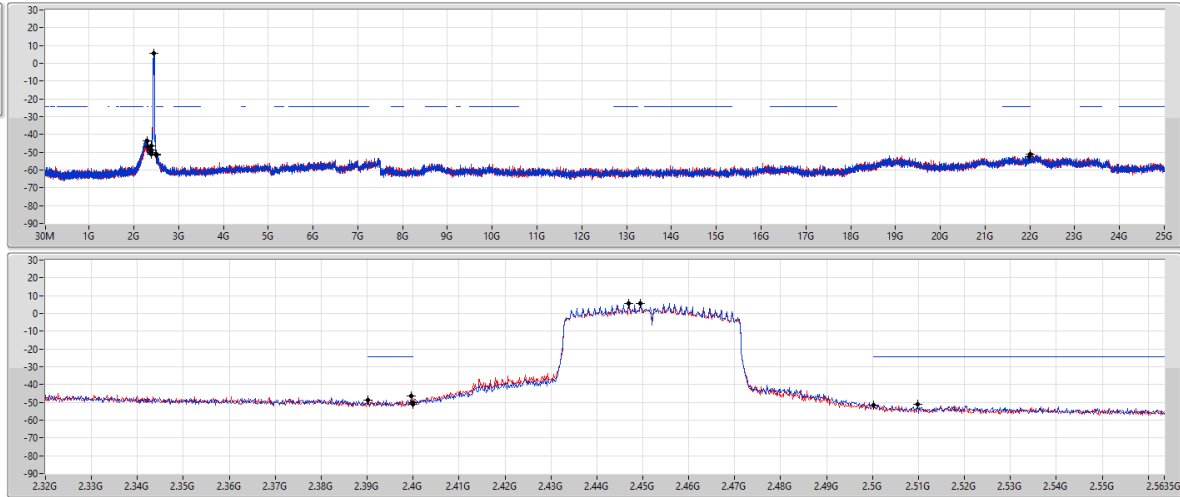


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

2452MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



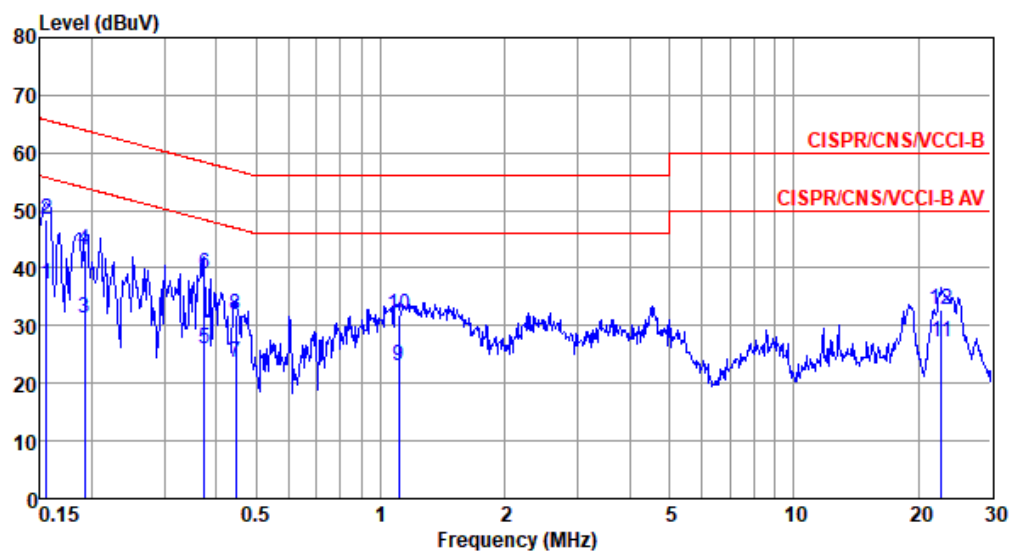


Modulation Mode	11b	Test Freq. (MHz)	2462
Power Phase	Line		

Test by : Brad Wu

Temperature: 23°C

Humidity: 64%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.156	37.05	55.69	-18.64	27.10	9.65	0.08	0.22	Average
2*	0.156	48.53	65.69	-17.16	38.58	9.65	0.08	0.22	QP
3	0.192	31.17	53.93	-22.76	21.20	9.64	0.08	0.25	Average
4	0.192	43.07	63.93	-20.86	33.10	9.64	0.08	0.25	QP
5	0.375	25.96	48.39	-22.43	15.92	9.64	0.09	0.31	Average
6	0.375	38.90	58.39	-19.49	28.86	9.64	0.09	0.31	QP
7	0.447	23.53	46.93	-23.40	13.47	9.64	0.09	0.33	Average
8	0.447	31.92	56.93	-25.01	21.86	9.64	0.09	0.33	QP
9	1.106	23.11	46.00	-22.89	12.95	9.65	0.11	0.40	Average
10	1.106	31.89	56.00	-24.11	21.73	9.65	0.11	0.40	QP
11	22.775	27.24	50.00	-22.76	16.27	9.67	0.60	0.70	Average
12	22.775	32.72	60.00	-27.28	21.75	9.67	0.60	0.70	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).



Modulation Mode	11b	Test Freq. (MHz)	2462																																																																																																																																												
Power Phase	Neutral																																																																																																																																														
Test by : Brad Wu Temperature: 23°C Humidity: 64%																																																																																																																																															
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th>Remark</th></tr><tr><td>1</td><td>0.159</td><td>35.70</td><td>55.52</td><td>-19.82</td><td>25.83</td><td>9.64</td><td>0.08</td><td>0.15</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>46.62</td><td>65.52</td><td>-18.90</td><td>36.75</td><td>9.64</td><td>0.08</td><td>0.15</td><td>QP</td></tr><tr><td>3</td><td>0.198</td><td>33.78</td><td>53.71</td><td>-19.93</td><td>23.86</td><td>9.64</td><td>0.08</td><td>0.20</td><td>Average</td></tr><tr><td>4</td><td>0.198</td><td>44.45</td><td>63.71</td><td>-19.26</td><td>34.53</td><td>9.64</td><td>0.08</td><td>0.20</td><td>QP</td></tr><tr><td>5</td><td>0.216</td><td>30.66</td><td>52.96</td><td>-22.30</td><td>20.73</td><td>9.64</td><td>0.08</td><td>0.21</td><td>Average</td></tr><tr><td>6</td><td>0.216</td><td>41.57</td><td>62.96</td><td>-21.39</td><td>31.64</td><td>9.64</td><td>0.08</td><td>0.21</td><td>QP</td></tr><tr><td>7*</td><td>0.369</td><td>34.30</td><td>48.52</td><td>-14.22</td><td>24.33</td><td>9.63</td><td>0.09</td><td>0.25</td><td>Average</td></tr><tr><td>8</td><td>0.369</td><td>42.40</td><td>58.52</td><td>-16.12</td><td>32.43</td><td>9.63</td><td>0.09</td><td>0.25</td><td>QP</td></tr><tr><td>9</td><td>1.077</td><td>24.63</td><td>46.00</td><td>-21.37</td><td>14.52</td><td>9.64</td><td>0.11</td><td>0.36</td><td>Average</td></tr><tr><td>10</td><td>1.077</td><td>32.46</td><td>56.00</td><td>-23.54</td><td>22.35</td><td>9.64</td><td>0.11</td><td>0.36</td><td>QP</td></tr><tr><td>11</td><td>22.655</td><td>27.48</td><td>50.00</td><td>-22.52</td><td>16.43</td><td>9.79</td><td>0.60</td><td>0.66</td><td>Average</td></tr><tr><td>12</td><td>22.655</td><td>33.18</td><td>60.00</td><td>-26.82</td><td>22.13</td><td>9.79</td><td>0.60</td><td>0.66</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux			MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark	1	0.159	35.70	55.52	-19.82	25.83	9.64	0.08	0.15	Average	2	0.159	46.62	65.52	-18.90	36.75	9.64	0.08	0.15	QP	3	0.198	33.78	53.71	-19.93	23.86	9.64	0.08	0.20	Average	4	0.198	44.45	63.71	-19.26	34.53	9.64	0.08	0.20	QP	5	0.216	30.66	52.96	-22.30	20.73	9.64	0.08	0.21	Average	6	0.216	41.57	62.96	-21.39	31.64	9.64	0.08	0.21	QP	7*	0.369	34.30	48.52	-14.22	24.33	9.63	0.09	0.25	Average	8	0.369	42.40	58.52	-16.12	32.43	9.63	0.09	0.25	QP	9	1.077	24.63	46.00	-21.37	14.52	9.64	0.11	0.36	Average	10	1.077	32.46	56.00	-23.54	22.35	9.64	0.11	0.36	QP	11	22.655	27.48	50.00	-22.52	16.43	9.79	0.60	0.66	Average	12	22.655	33.18	60.00	-26.82	22.13	9.79	0.60	0.66	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux																																																																																																																																							
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark																																																																																																																																						
1	0.159	35.70	55.52	-19.82	25.83	9.64	0.08	0.15	Average																																																																																																																																						
2	0.159	46.62	65.52	-18.90	36.75	9.64	0.08	0.15	QP																																																																																																																																						
3	0.198	33.78	53.71	-19.93	23.86	9.64	0.08	0.20	Average																																																																																																																																						
4	0.198	44.45	63.71	-19.26	34.53	9.64	0.08	0.20	QP																																																																																																																																						
5	0.216	30.66	52.96	-22.30	20.73	9.64	0.08	0.21	Average																																																																																																																																						
6	0.216	41.57	62.96	-21.39	31.64	9.64	0.08	0.21	QP																																																																																																																																						
7*	0.369	34.30	48.52	-14.22	24.33	9.63	0.09	0.25	Average																																																																																																																																						
8	0.369	42.40	58.52	-16.12	32.43	9.63	0.09	0.25	QP																																																																																																																																						
9	1.077	24.63	46.00	-21.37	14.52	9.64	0.11	0.36	Average																																																																																																																																						
10	1.077	32.46	56.00	-23.54	22.35	9.64	0.11	0.36	QP																																																																																																																																						
11	22.655	27.48	50.00	-22.52	16.43	9.79	0.60	0.66	Average																																																																																																																																						
12	22.655	33.18	60.00	-26.82	22.13	9.79	0.60	0.66	QP																																																																																																																																						
Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																															