



CTC Laboratories, Inc.

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TEST REPORT

Report No. : **CTC20231849E01**

FCC ID : **WNA-SK-R6215**

Applicant : **Shenzhen Skyworth Digital Technology Co.,LTD.**

Address : 14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China

Manufacturer : Shenzhen Skyworth Digital Technology Co.,LTD.

Address : 14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China

Product Name : **Wi-Fi 6 Mesh Router**

Trade Mark : SKYWORTH

Model/Type reference : SK-R6215

Listed Model(s) : SK-G6210, SK-G6215, SK-G6225, TZN20

Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample : Sep. 19, 2023

Date of testing : Sep. 19, 2023 ~ Nov. 23, 2023

Date of issue : Dec. 28, 2023

Result : **PASS**

Compiled by:

(Printed name+signature)

Lucy Lan

Supervised by:

(Printed name+signature)

Eric Zhang

Approved by:

(Printed name+signature)

Totti Zhao

Testing Laboratory Name : **CTC Laboratories, Inc.**

Address : 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Table of Contents

Page

1. TEST SUMMARY	3
1.1. TEST STANDARDS.....	3
1.2. REPORT VERSION	3
1.3. TEST DESCRIPTION.....	3
1.4. TEST FACILITY	4
1.5. MEASUREMENT UNCERTAINTY	5
1.6. ENVIRONMENTAL CONDITIONS.....	5
2. GENERAL INFORMATION	6
2.1. CLIENT INFORMATION	6
2.2. GENERAL DESCRIPTION OF EUT	6
2.3. ACCESSORY EQUIPMENT INFORMATION	7
2.4. OPERATION STATE	8
2.5. MEASUREMENT INSTRUMENTS LIST	11
3. TEST ITEM AND RESULTS	12
3.1. CONDUCTED EMISSION.....	12
3.2. RADIATED EMISSION.....	15
3.3. BAND EDGE EMISSIONS (RADIATED)	38
3.4. BAND EDGE AND SPURIOUS EMISSIONS (CONDUCTED)	91
3.5. DTS BANDWIDTH.....	125
3.6. PEAK OUTPUT POWER	154
3.7. POWER SPECTRAL DENSITY	157
3.8. DUTY CYCLE	172
3.9. ANTENNA REQUIREMENT.....	186



1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

[ANSI C63.10-2013](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Date of issue	Description
01	Dec. 28, 2023	Original

1.3. Test Description

FCC Part 15 Subpart C (15.247)			
Test Item	Standard Section	Result	Test Engineer
Antenna Requirement	15.203	Pass	Curry
Conducted Emission	15.207	Pass	Curry
Conducted Band Edge and Spurious Emissions	15.247(d)	Pass	Curry
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	Pass	Curry
6dB Bandwidth	15.247(a)(2)	Pass	Curry
Conducted Max Output Power	15.247(b)(3)	Pass	Curry
Power Spectral Density	15.247(e)	Pass	Curry
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	Curry

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.



1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
DTS Bandwidth	$\pm 0.0196\%$	(1)
Maximum Conducted Output Power	± 0.686 dB	(1)
Maximum Power Spectral Density Level	± 0.743 dB	(1)
Band-edge Compliance	± 1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB	(1)
Conducted Emissions 9kHz~30MHz	± 3.08 dB	(1)
Radiated Emissions 30~1000MHz	± 4.51 dB	(1)
Radiated Emissions 1~18GHz	± 5.84 dB	(1)
Radiated Emissions 18~40GHz	± 6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Skyworth Digital Technology Co.,LTD.
Address:	14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Skyworth Digital Technology Co.,LTD.
Address:	14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Factory:	Shenzhen Skyworth Digital Technology Co.,LTD. Baoan Branch Factory
Address:	2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyuan Street, Baoan District, Shenzhen city, China.

2.2. General Description of EUT

Product Name:	Wi-Fi 6 Mesh Router
Trade Mark:	SKYWORTH
Model/Type reference:	SK-R6215
Listed Model(s):	SK-G6210, SK-G6215, SK-G6225, TZN20
Model Difference:	All these models have the same product appearance, PCB, layout, material, RF circuit, and software and hardware, and will not affect the RF characteristics. The difference lies in the product model.
Power Supply:	DC12V 1.5A from AC/DC Adapter
Adapter Model	YS-SKY120150U01P Input: 100-240V~ 50/60Hz 0.6A Output: 12Vdc/1.5A
Hardware Version:	/
Software Version:	/
2.4G Wi-Fi	
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operation Frequency:	802.11b/ g/ n(HT20)/ ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/ ax(HE40): 2422MHz~2452MHz
Channel Number:	802.11b/ g/ n(HT20)/ ax(HE20): 11 channels 802.11n(HT40)/ ax(HE40): 7 channels
Channel Separation:	5MHz
Antenna Type:	Internal Antenna
Antenna Gain:	3.37dBi



2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14 G3 ACL	/	Lenovo
Cable Information			
Name	Shielded Type	Ferrite Core	Length
LAN Cable	Unshielded	NO	150cm
Test Software Information			
Name	Version	/	/
QATool	UIv2.78_DLLv6.83	/	/



2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20)/ax(HE20), CH 03~CH 09 for 802.11n(HT40)/ax(HE40).

Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	NA	NA	Internal Antenna	IPEX	3.37
2	NA	NA	Internal Antenna	IPEX	3.37

For 2.4G, this EUT supports MIMO 2X2 with the same antenna gain, and any transmit signals are correlated with each other.

According to KDB 662911 D01, Directional Gain = $G_{Ant} + 10\log(N)$ dBi, that is Directional Gain = $3.37 + 10\log(2)$ dBi = 6.38 dBi. So output power limit is $30 - 6.38 + 6 = 29.62$ dBm, and the power spectral density limit is $8 - 6.38 + 6 = 7.62$ dBm/3kHz.

Data Rated:

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Test Mode	Data Rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS8
802.11ax(HE20)/ (HE40)	HE-MCS0

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Test Mode:

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

RU Configuration:

Operating Mode	Resource Unit	26 Tone (2M)
802.11ax(HE20)	Specific Resource Unit	0
		⋮
		4
		⋮
		8
	Resource Unit	52 Tone (4M)
	Specific Resource Unit	37
		38
		39
		40
	Resource Unit	106 Tone (8M)
	Specific Resource Unit	53
		54
	Resource Unit	242 Tone (20M)
	Specific Resource Unit	61
Operating Mode	Resource Unit	26 Tone (2M)
802.11ax(HE40)	Specific Resource Unit	0
		⋮
		8
		⋮
		17
	Resource Unit	52 Tone (4M)
	Specific Resource Unit	37
		38
		39
		40
		41
		42
		43
		44
	Resource Unit	106 Tone (8M)
	Specific Resource Unit	53

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		54
		55
		56
	Resource Unit	242 Tone (20M)
	Specific Resource Unit	61
		62
	Resource Unit	484 Tone (40M)
	Specific Resource Unit	65



2.5. Measurement Instruments List

RF Test System					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024
2	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2024
3	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 14, 2024
4	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 14, 2024
5	Test Software	WCS	WCS-WCN	2023.08.04	/

Radiated Emission (3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 16, 2023
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 16, 2023
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 16, 2023
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	LISN	R&S	ENV216	101112	Dec. 16, 2023
2	LISN	R&S	ENV216	101113	Dec. 16, 2023
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 16, 2023
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 16, 2023
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 16, 2023
6	Test Software	R&S	EMC32	6.10.10	/

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

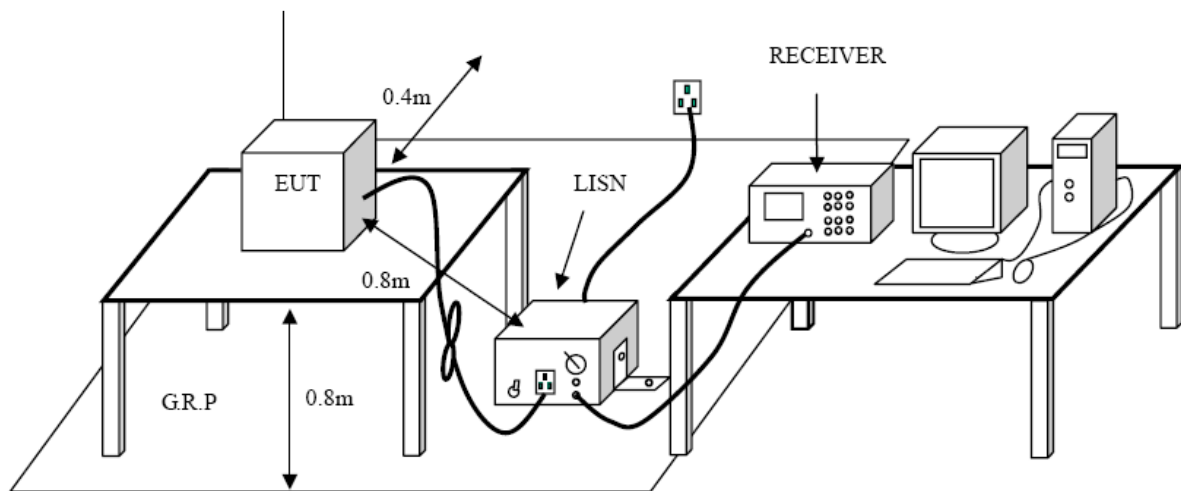
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

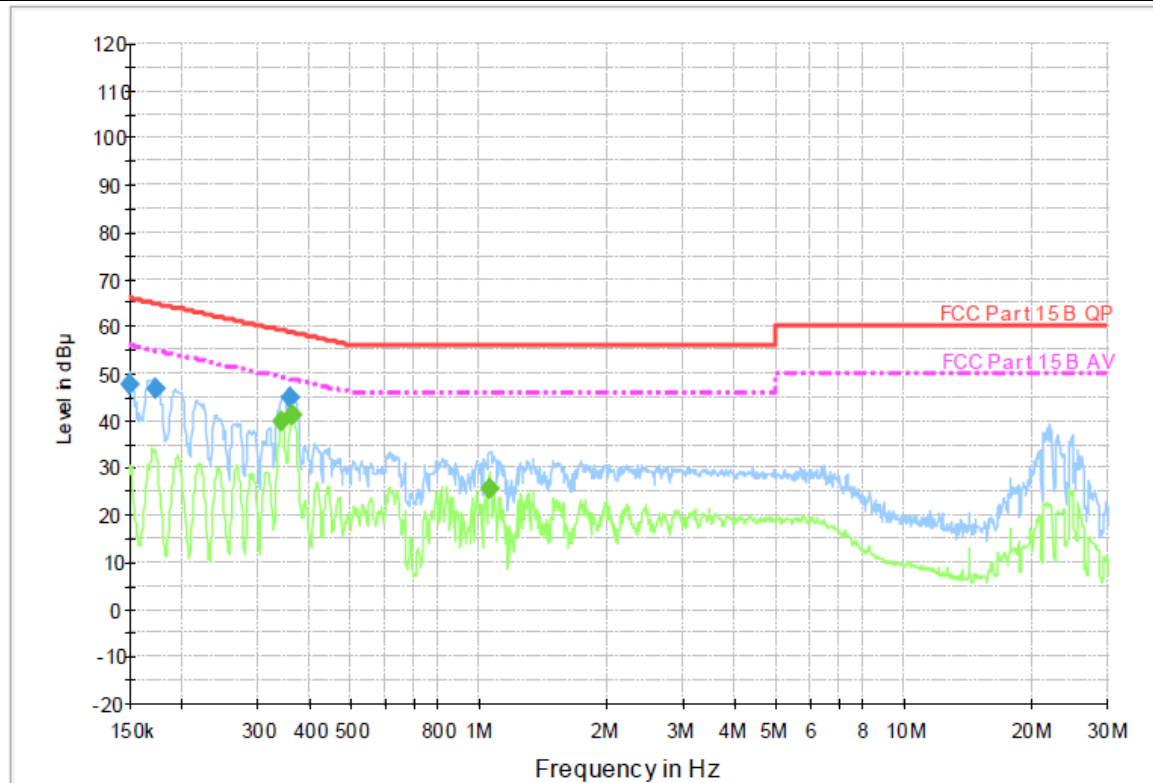
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Remark:	Only worse case is reported

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.150000	47.6	1000.00	9.000	On	L1	9.4	18.4	66.0	
0.171810	46.8	1000.00	9.000	On	L1	9.4	18.1	64.9	
0.356700	45.1	1000.00	9.000	On	L1	9.5	13.7	58.8	

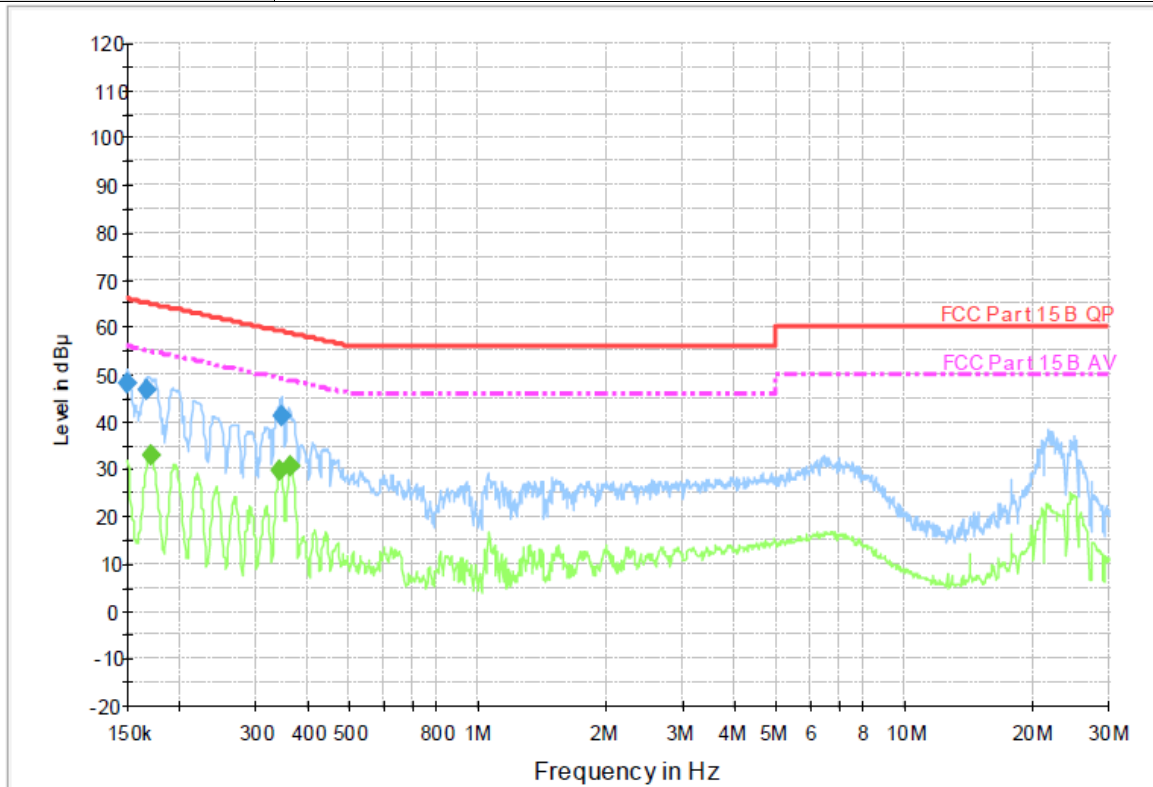
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.341380	39.9	1000.00	9.000	On	L1	9.5	9.3	49.2	
0.363890	41.5	1000.00	9.000	On	L1	9.5	7.1	48.6	
1.052310	25.8	1000.00	9.000	On	L1	9.5	20.2	46.0	

Emission Level = Read Level + Correct Factor



Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Remark:	Only worse case is reported



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.150000	48.2	1000.00	9.000	On	N	9.3	17.8	66.0	
0.167070	46.9	1000.00	9.000	On	N	9.3	18.2	65.1	
0.345490	41.4	1000.00	9.000	On	N	9.4	17.7	59.1	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.170440	33.1	1000.00	9.000	On	N	9.3	21.8	54.9	
0.341380	29.8	1000.00	9.000	On	N	9.4	19.4	49.2	
0.363890	30.5	1000.00	9.000	On	N	9.4	18.1	48.6	

Emission Level = Read Level + Correct Factor

3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

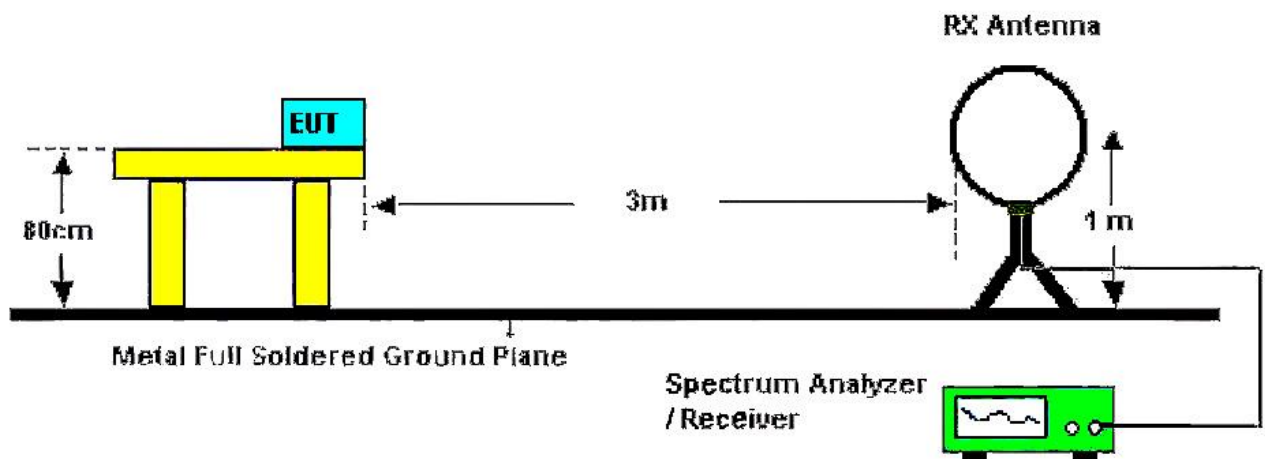
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dBμV/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

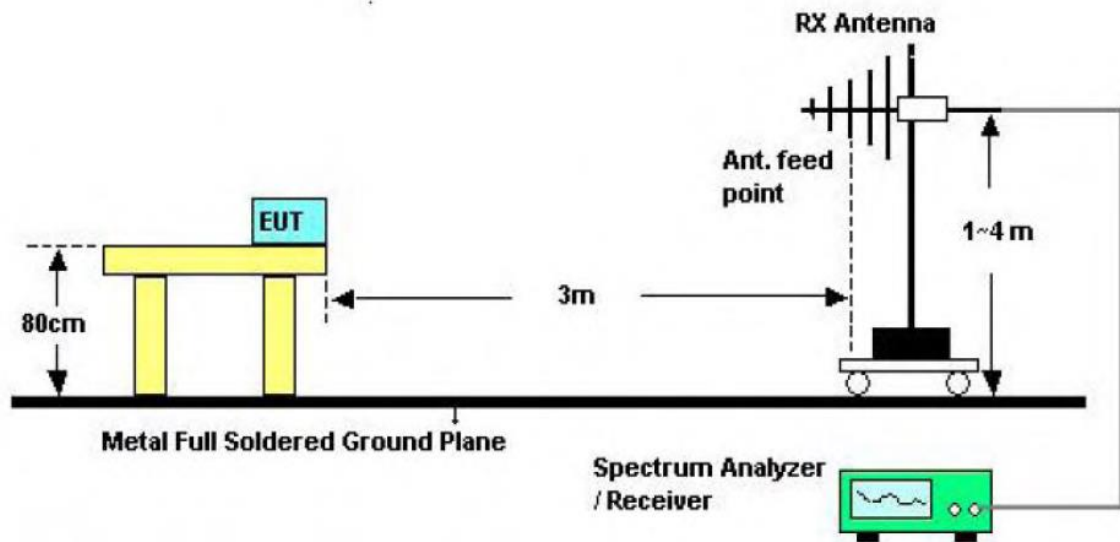
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

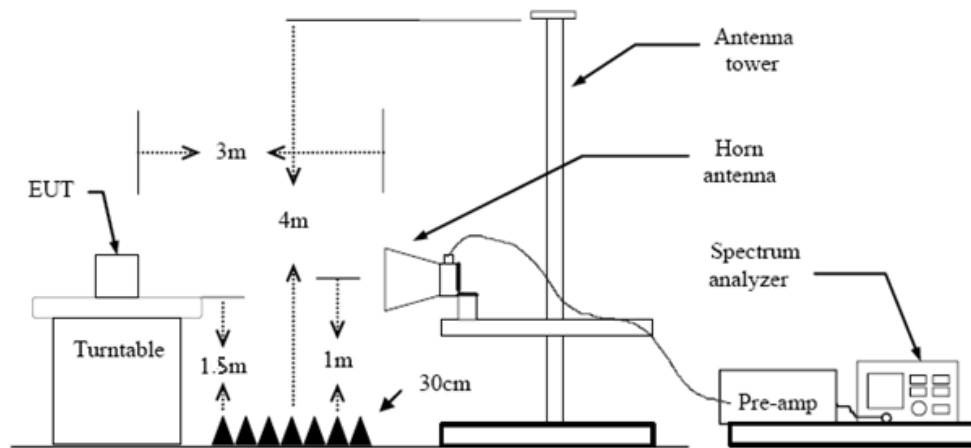
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013.
 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
 5. Set to the maximum power setting and enable the EUT transmit continuously.
 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold
- If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the



peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(5) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

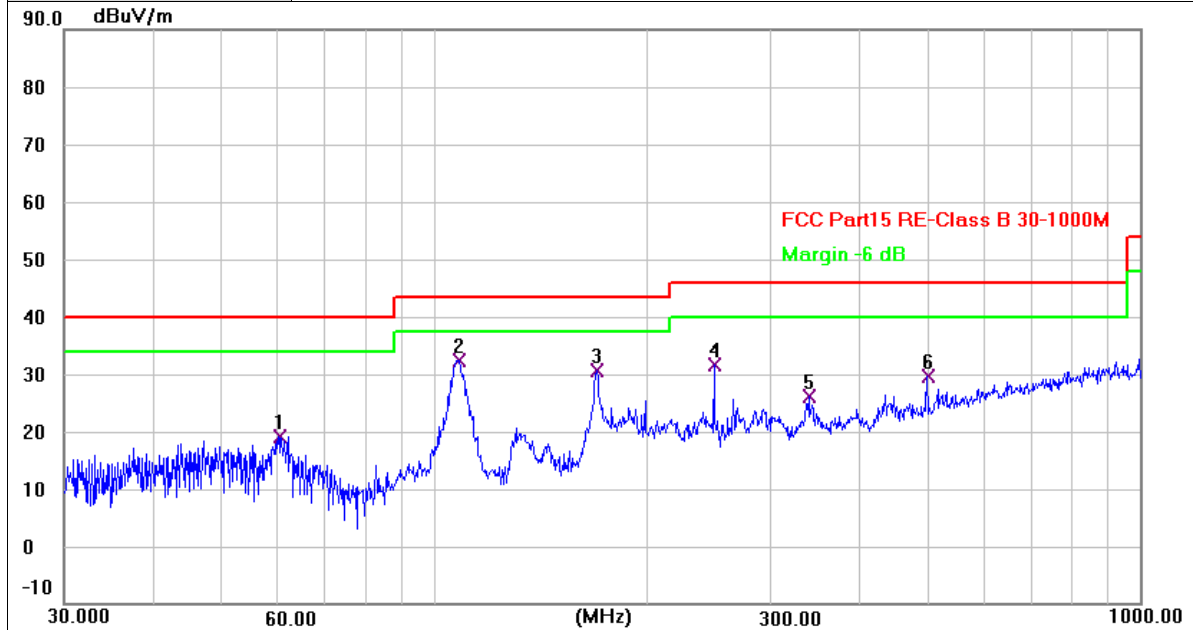
From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1GHz

Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	Only worse case is reported.



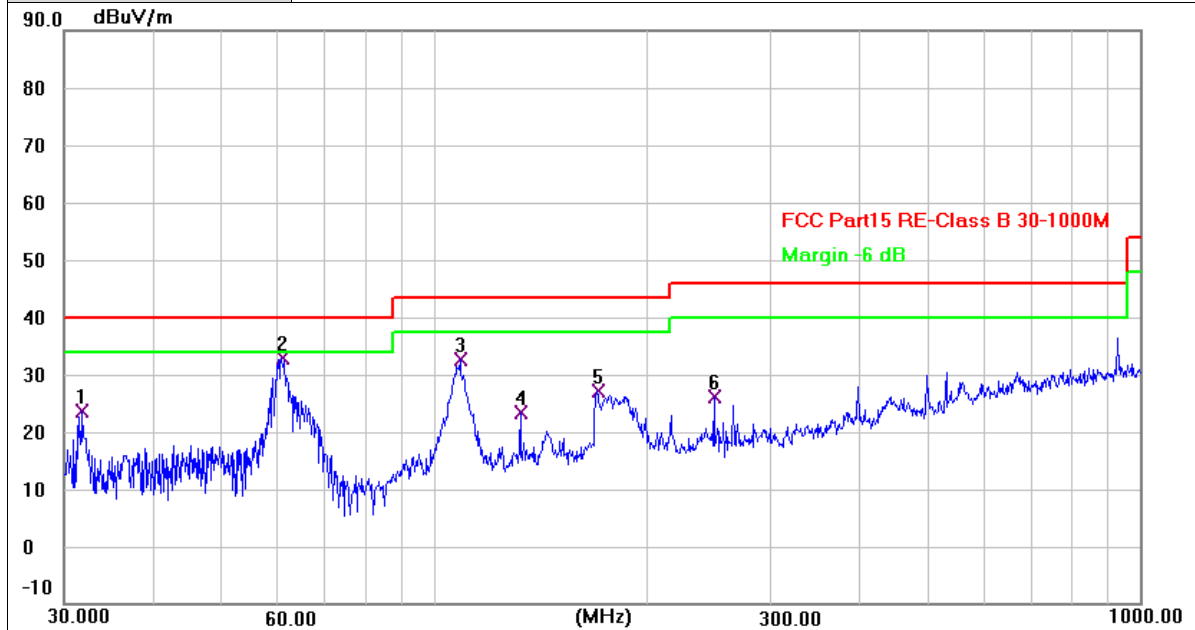
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	60.2801	34.57	-15.42	19.15	40.00	-20.85	QP
2 *	108.2666	48.23	-15.92	32.31	43.50	-11.19	QP
3	170.1947	49.17	-18.50	30.67	43.50	-12.83	QP
4	249.4250	46.19	-14.53	31.66	46.00	-14.34	QP
5	339.5887	38.25	-12.19	26.06	46.00	-19.94	QP
6	499.4246	38.96	-9.30	29.66	46.00	-16.34	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
2. Margin value = Level - Limit value



Ant. No.	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8427	39.28	-15.62	23.66	40.00	-16.34	QP
2 *	60.9176	48.39	-15.51	32.88	40.00	-7.12	QP
3	109.0286	48.63	-15.96	32.67	43.50	-10.83	QP
4	132.6850	42.79	-19.36	23.43	43.50	-20.07	QP
5	170.1948	45.63	-18.50	27.13	43.50	-16.37	QP
6	249.4250	40.76	-14.53	26.23	46.00	-19.77	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Above 1GHz

Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11b Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11b Mode 2412MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>4823.961</td><td>49.93</td><td>2.11</td><td>52.04</td><td>54.00</td><td>-1.96</td><td>AVG</td></tr><tr><td>2</td><td>4824.039</td><td>52.72</td><td>2.11</td><td>54.83</td><td>74.00</td><td>-19.17</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4823.961	49.93	2.11	52.04	54.00	-1.96	AVG	2	4824.039	52.72	2.11	54.83	74.00	-19.17	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4823.961	49.93	2.11	52.04	54.00	-1.96	AVG																								
2	4824.039	52.72	2.11	54.83	74.00	-19.17	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11b Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.945	49.37	2.18	51.55	74.00	-22.45	peak
2 *	4873.973	46.44	2.18	48.62	54.00	-5.38	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11b Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4873.951	51.87	2.18	54.05	74.00	-19.95	peak
2 *	4874.013	49.66	2.18	51.84	54.00	-2.16	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11b Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	4923.985	46.93	2.26	49.19	54.00	-4.81	AVG
2	4924.059	49.77	2.26	52.03	74.00	-21.97	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11b Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11g Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11g Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11g Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11g Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.774	61.45	2.18	63.63	74.00	-10.37	peak
2 *	4873.960	49.28	2.18	51.46	54.00	-2.54	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11g Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4923.113	60.19	2.25	62.44	74.00	-11.56	peak
2 *	4924.892	47.53	2.26	49.79	54.00	-4.21	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11g Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	4924.039	48.84	2.26	51.10	54.00	-2.90	AVG
2	4924.915	60.99	2.26	63.25	74.00	-10.75	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT20) Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4823.553	62.86	2.11	64.97	74.00	-9.03	peak
2 *	4823.858	49.42	2.11	51.53	54.00	-2.47	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.210	61.73	2.10	63.83	74.00	-10.17	peak
2 *	4824.319	49.54	2.11	51.65	54.00	-2.35	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT20) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.325	46.98	2.18	49.16	54.00	-4.84	AVG
2	4874.070	59.86	2.18	62.04	74.00	-11.96	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4873.511	61.52	2.18	63.70	74.00	-10.30	peak
2 *	4874.500	49.31	2.18	51.49	54.00	-2.51	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.874	46.38	2.26	48.64	54.00	-5.36	AVG
2	4924.853	59.23	2.26	61.49	74.00	-12.51	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4924.058	49.17	2.26	51.43	54.00	-2.57	AVG
2	4924.520	61.19	2.26	63.45	74.00	-10.55	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT40) Mode 2422MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4843.019	52.01	2.12	54.13	74.00	-19.87	peak
2 *	4843.984	39.50	2.13	41.63	54.00	-12.37	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 2422MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4844.425	62.24	2.13	64.37	74.00	-9.63	peak
2 *	4844.485	49.47	2.13	51.60	54.00	-2.40	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT40) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.856	51.22	2.18	53.40	74.00	-20.60	peak
2 *	4874.033	37.97	2.18	40.15	54.00	-13.85	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4873.890	62.49	2.18	64.67	74.00	-9.33	peak
2 *	4874.496	49.27	2.18	51.45	54.00	-2.55	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2452MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4903.909	37.28	2.22	39.50	54.00	-14.50	AVG
2	4904.573	50.01	2.22	52.23	74.00	-21.77	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 2452MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4903.547	59.55	2.22	61.77	74.00	-12.23	peak
2 *	4904.851	47.42	2.22	49.64	54.00	-4.36	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz 242/61						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.240	53.96	2.10	56.06	74.00	-17.94	peak
2 *	4823.489	41.06	2.11	43.17	54.00	-10.83	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz 242/61						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4823.103	63.70	2.10	65.80	74.00	-8.20	peak
2 *	4824.009	50.28	2.11	52.39	54.00	-1.61	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE20) Mode 2437MHz 242/61						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.553	36.98	2.18	39.16	54.00	-14.84	AVG
2	4874.046	50.82	2.18	53.00	74.00	-21.00	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE20) Mode 2437MHz 242/61						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4874.433	61.58	2.18	63.76	74.00	-10.24	peak
2 *	4874.881	48.80	2.18	50.98	54.00	-3.02	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE20) Mode 2462MHz 242/61																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>4923.847</td><td>35.83</td><td>2.26</td><td>38.09</td><td>54.00</td><td>-15.91</td><td>AVG</td></tr><tr><td>2</td><td>4923.895</td><td>49.30</td><td>2.26</td><td>51.56</td><td>74.00</td><td>-22.44</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4923.847	35.83	2.26	38.09	54.00	-15.91	AVG	2	4923.895	49.30	2.26	51.56	74.00	-22.44	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4923.847	35.83	2.26	38.09	54.00	-15.91	AVG																								
2	4923.895	49.30	2.26	51.56	74.00	-22.44	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE20) Mode 2462MHz 242/61						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE40) Mode 2422MHz 484/65						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4843.377	50.81	2.13	52.94	74.00	-21.06	peak
2 *	4843.871	35.98	2.13	38.11	54.00	-15.89	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE40) Mode 2422MHz 484/65						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4843.108	60.46	2.12	62.58	74.00	-11.42	peak
2 *	4844.400	45.45	2.13	47.58	54.00	-6.42	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE40) Mode 2437MHz 484/65						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4873.235	49.22	2.18	51.40	74.00	-22.60	peak
2 *	4873.751	34.07	2.18	36.25	54.00	-17.75	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	Ant 1 + Ant 2						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE40) Mode 2437MHz 484/65						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	4874.023	59.07	2.18	61.25	74.00	-12.75	peak
2 *	4874.807	45.46	2.18	47.64	54.00	-6.36	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2452MHz 484/65
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4903.193	48.56	2.21	50.77	74.00	-23.23	peak
2 *	4903.205	33.90	2.21	36.11	54.00	-17.89	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE40) Mode 2452MHz 484/65
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4903.333	58.46	2.21	60.67	74.00	-13.33	peak
2 *	4903.857	43.43	2.22	45.65	54.00	-8.35	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

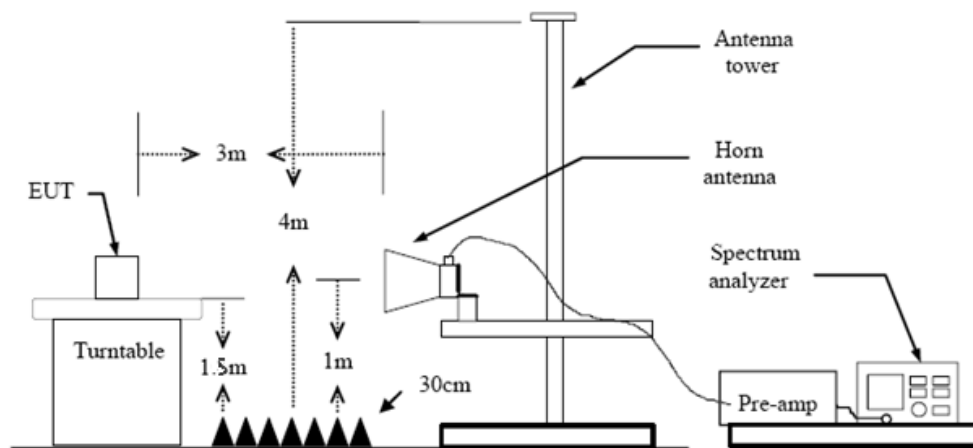
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

Restricted Frequency Band (MHz)	(dBμV/m) (at 3m)	
	Peak	Average
2310 ~ 2390	74	54
2483.5 ~ 2500	74	54

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:

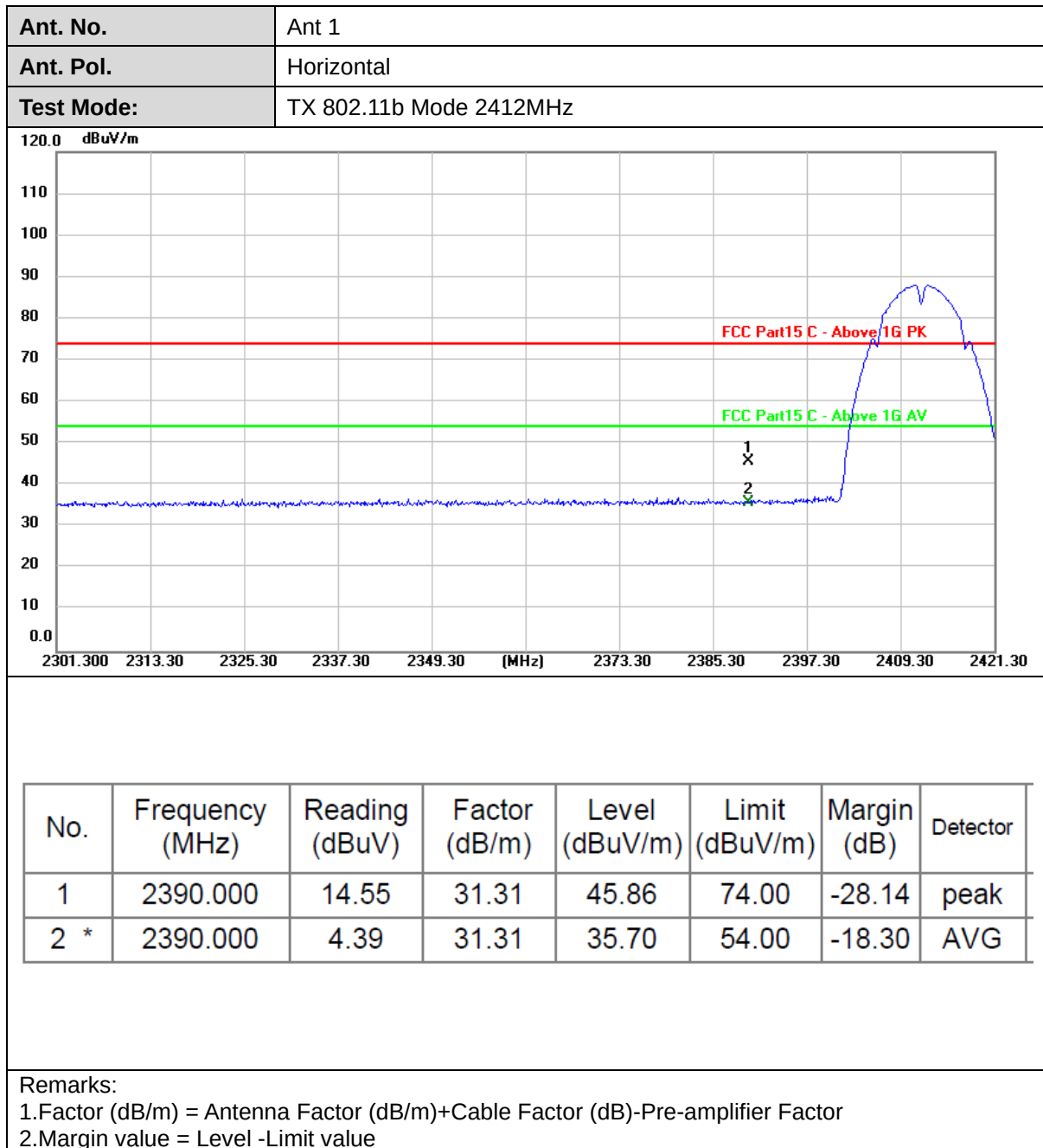
RBW=1MHz, VBW=3MHz Peak detector for Peak value.

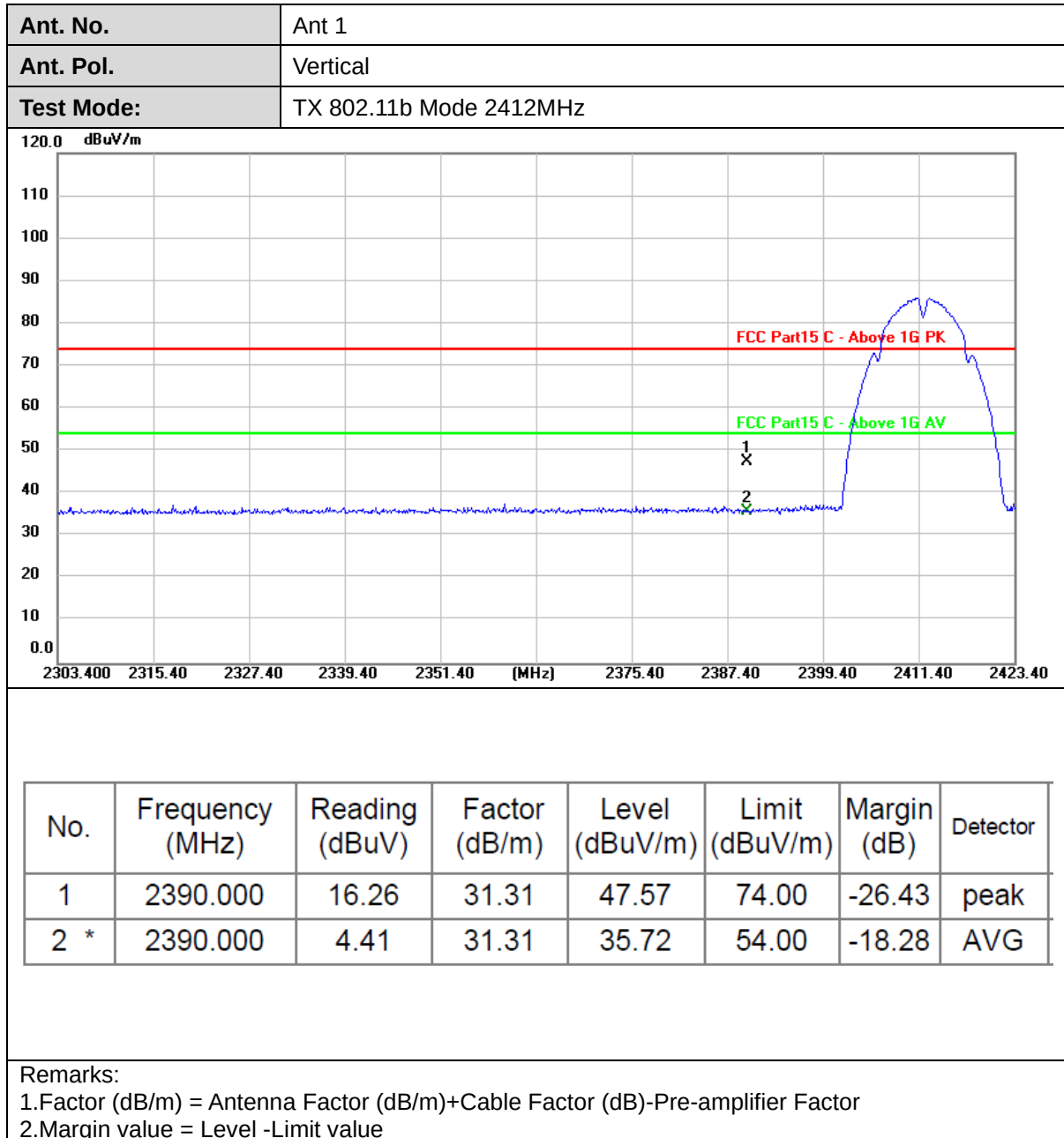
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

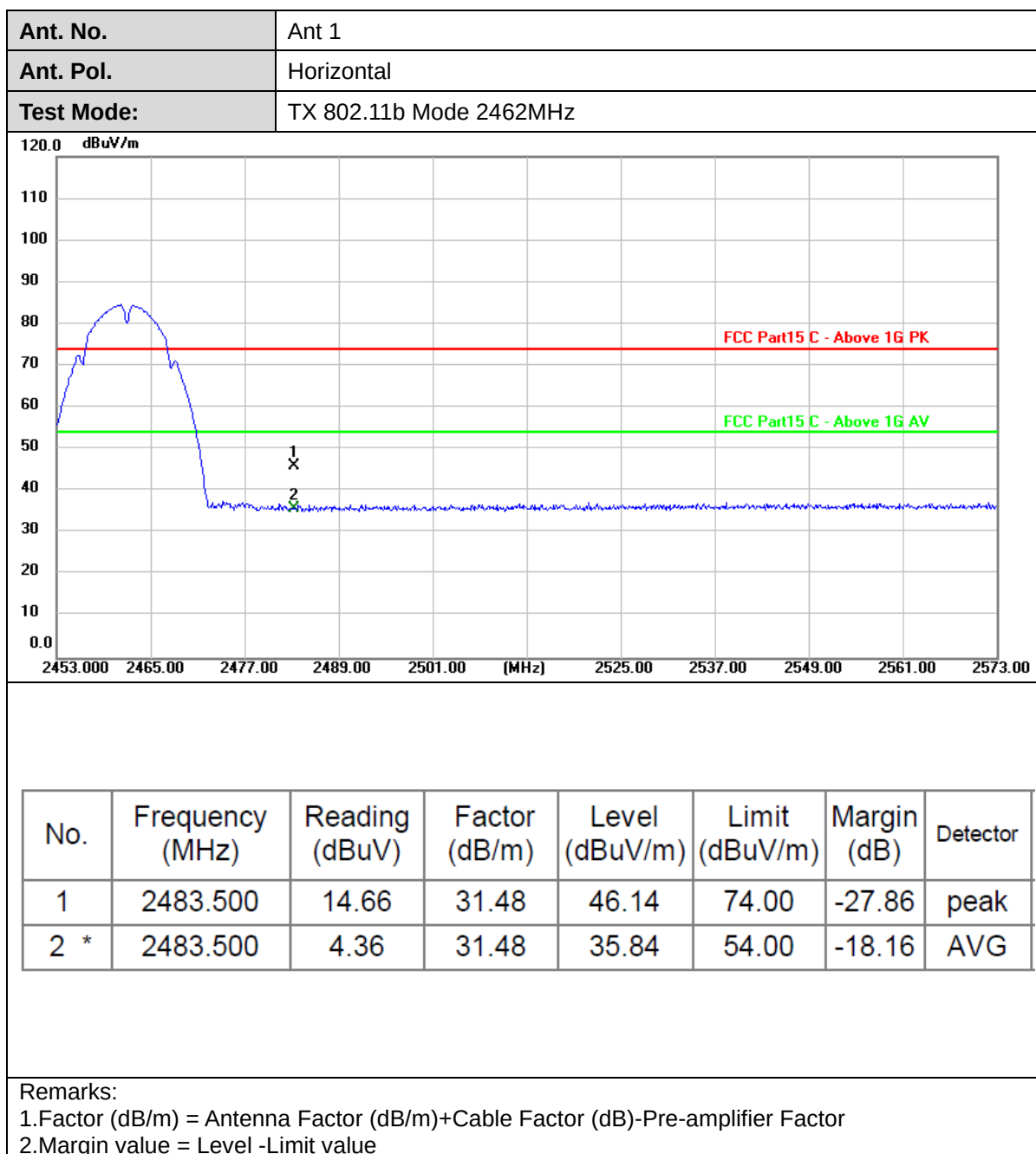
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

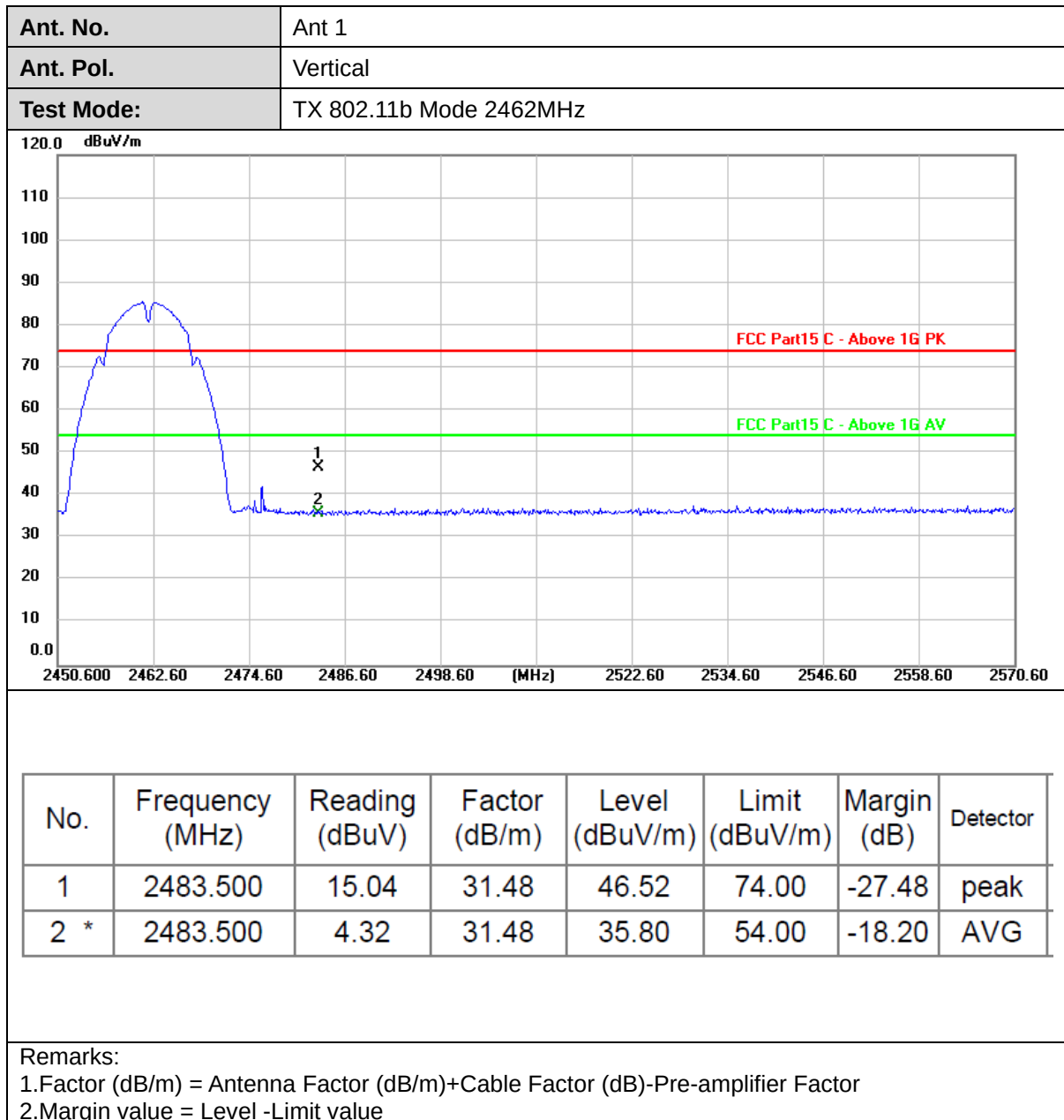
Test Mode

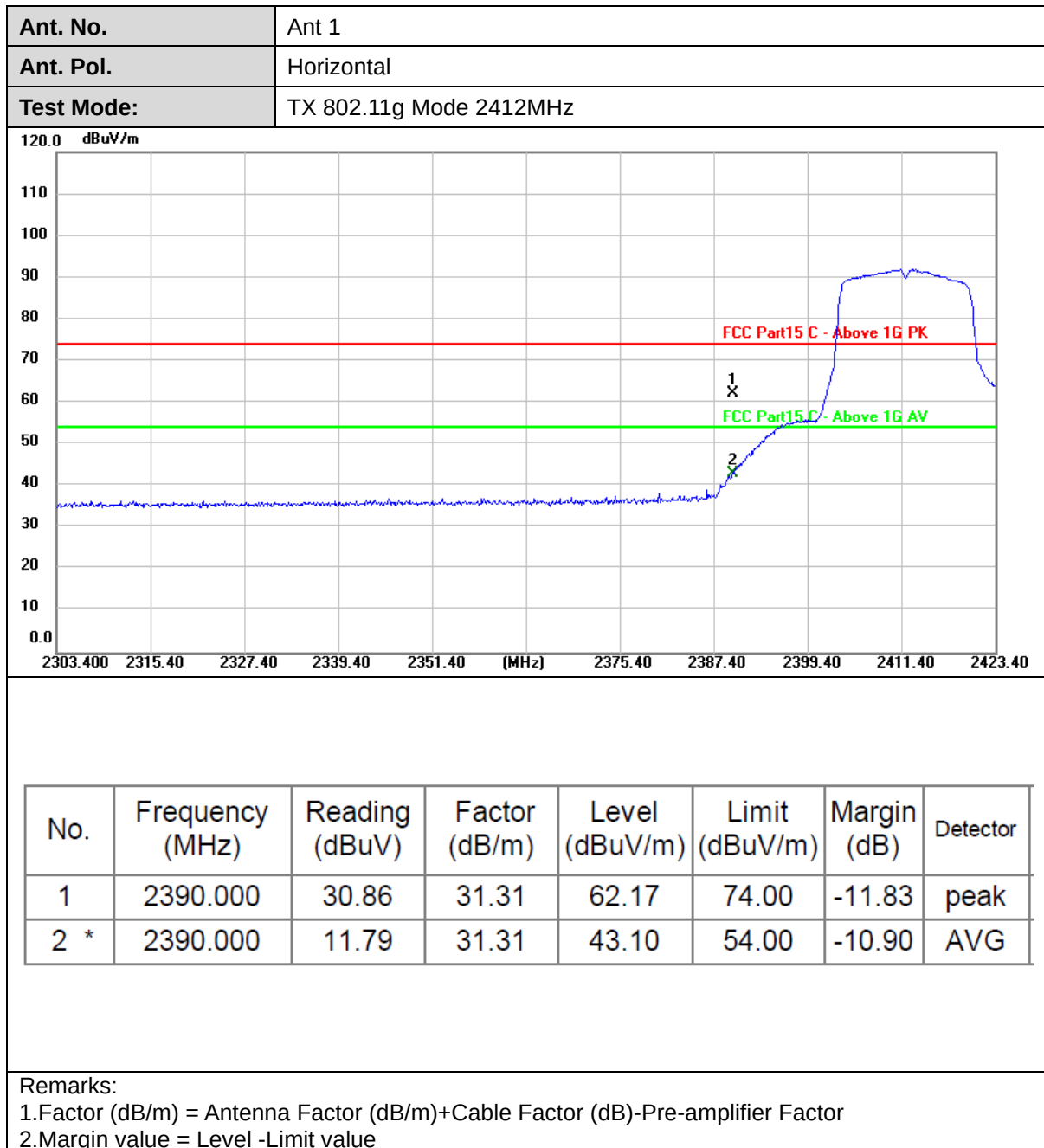
Please refer to the clause 2.4.

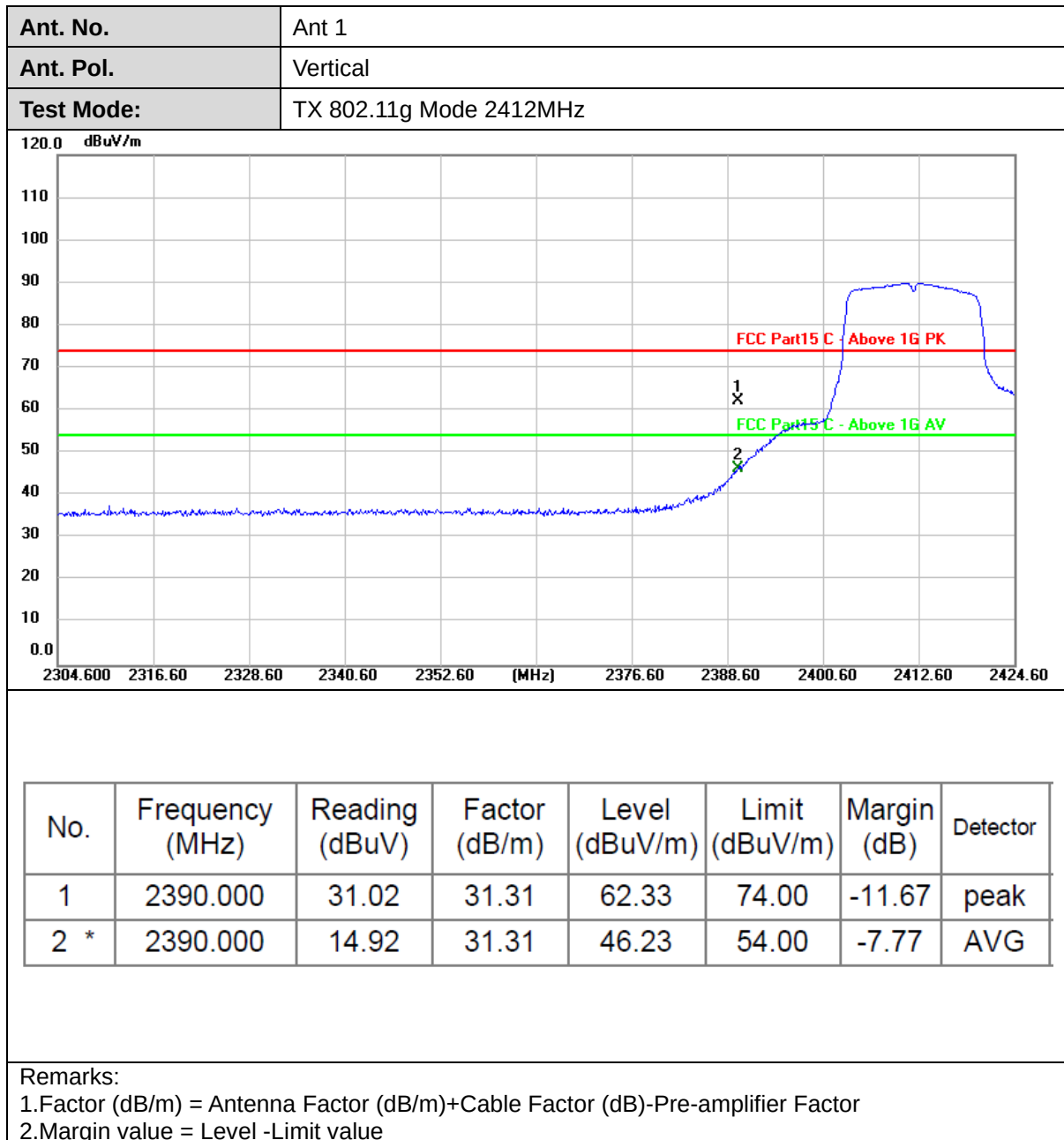
**Test Result**

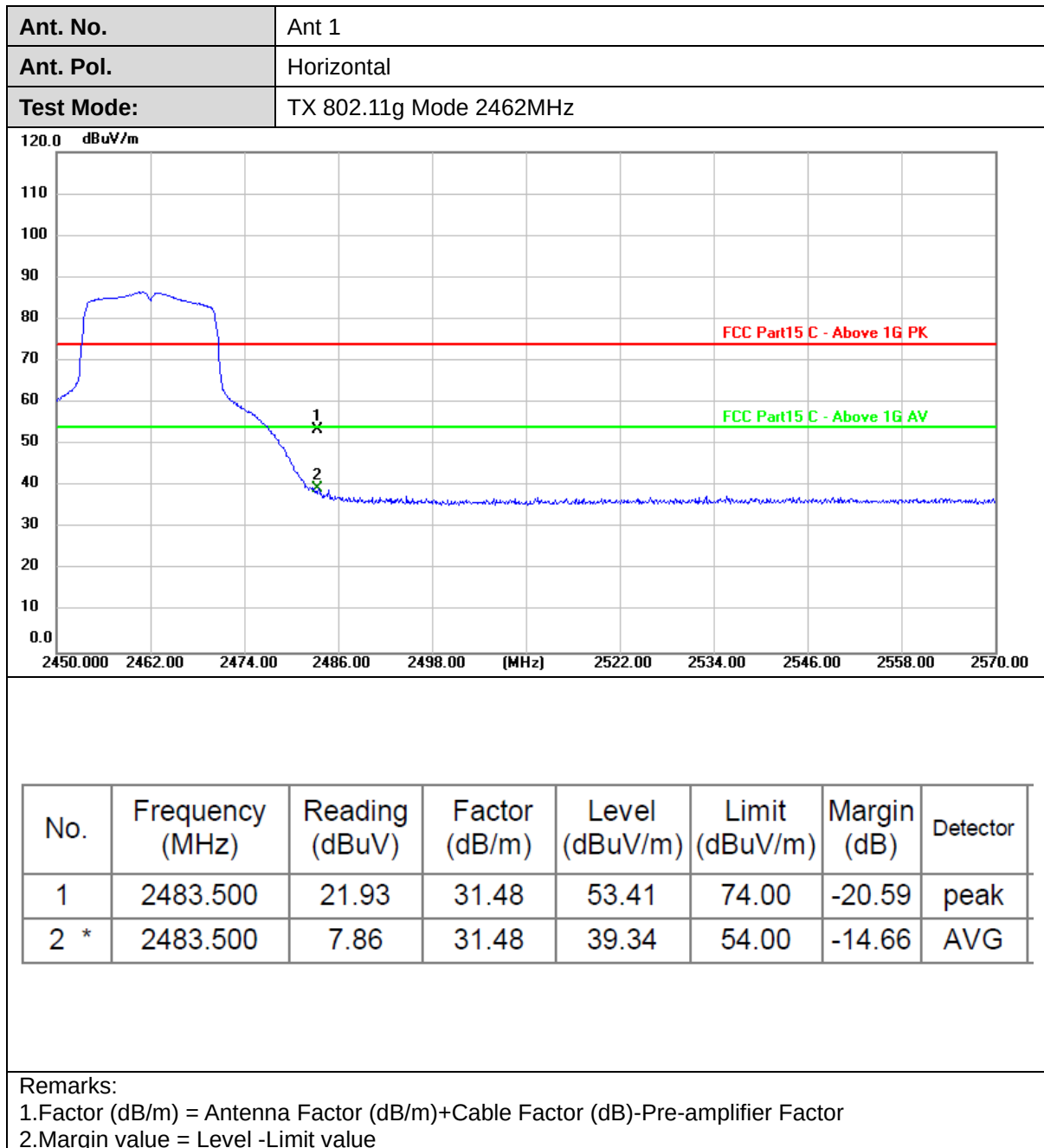


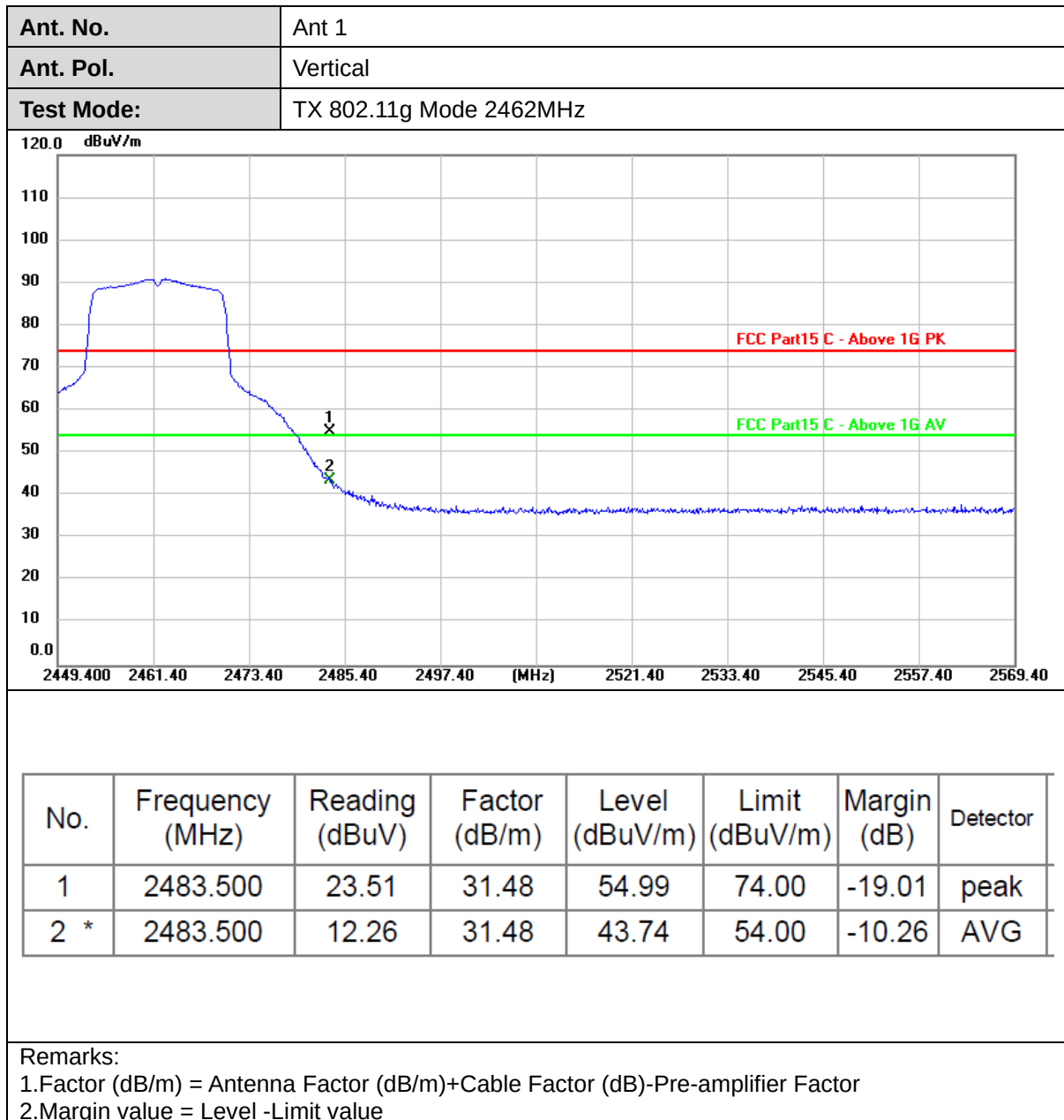


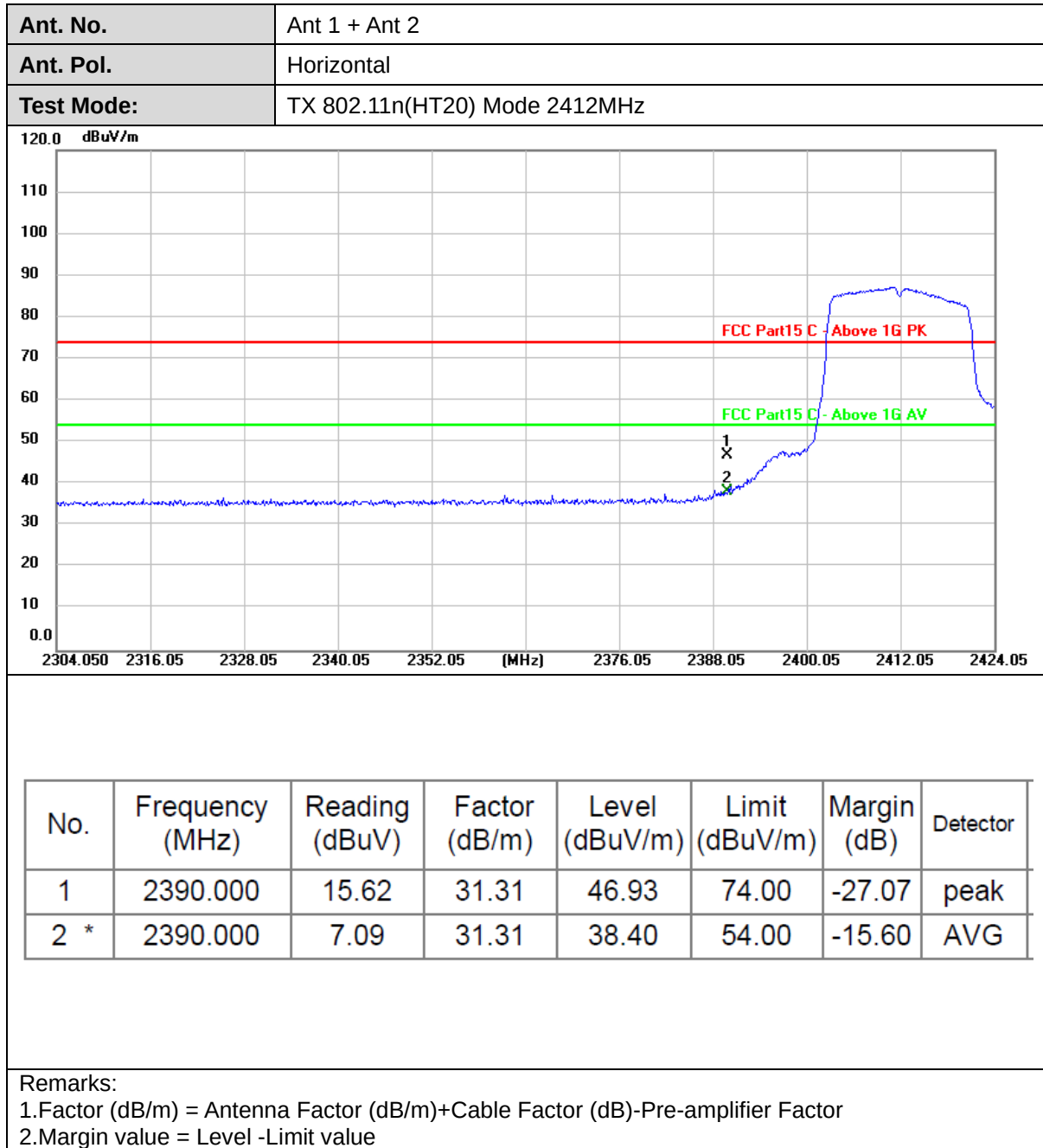


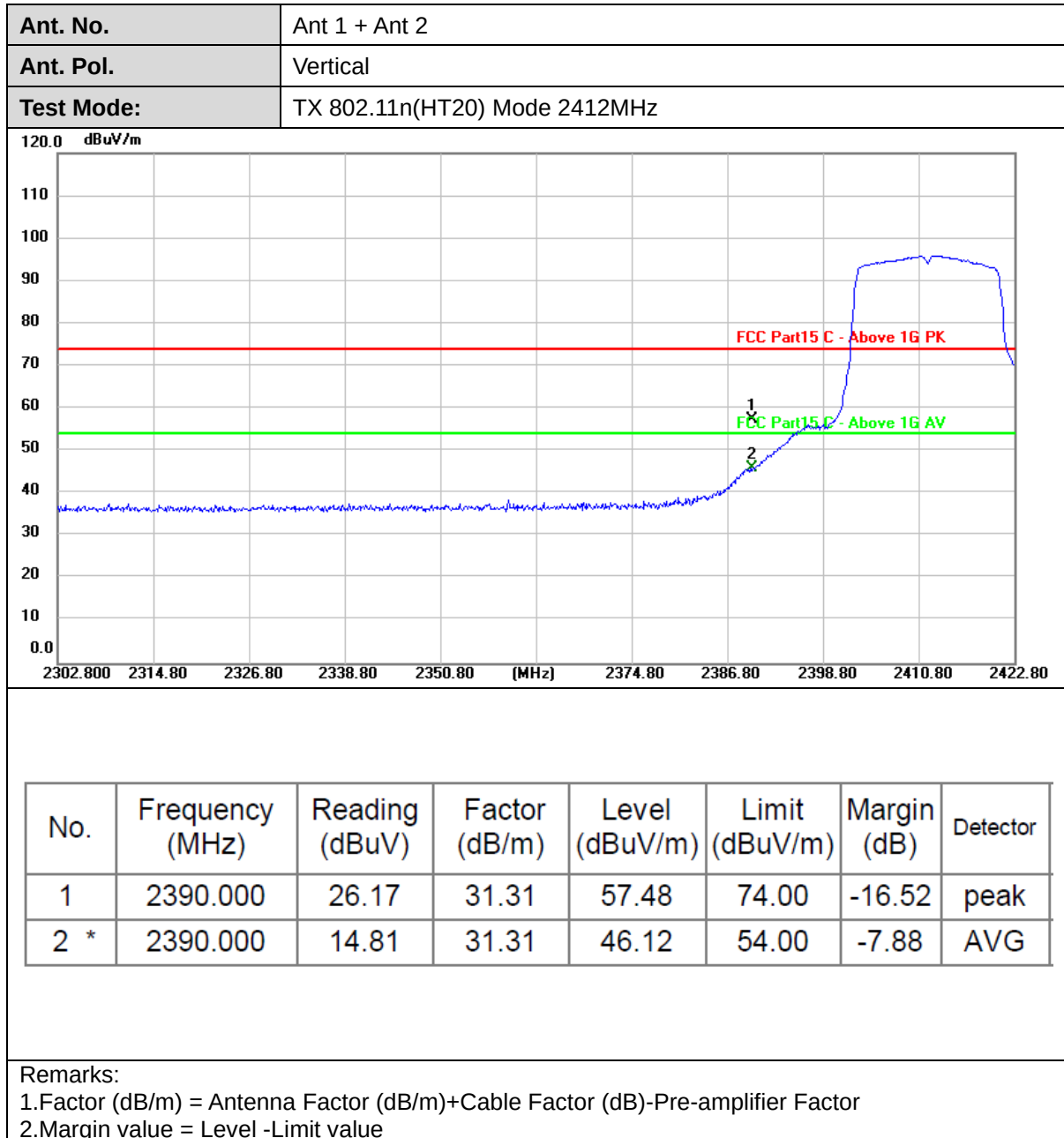


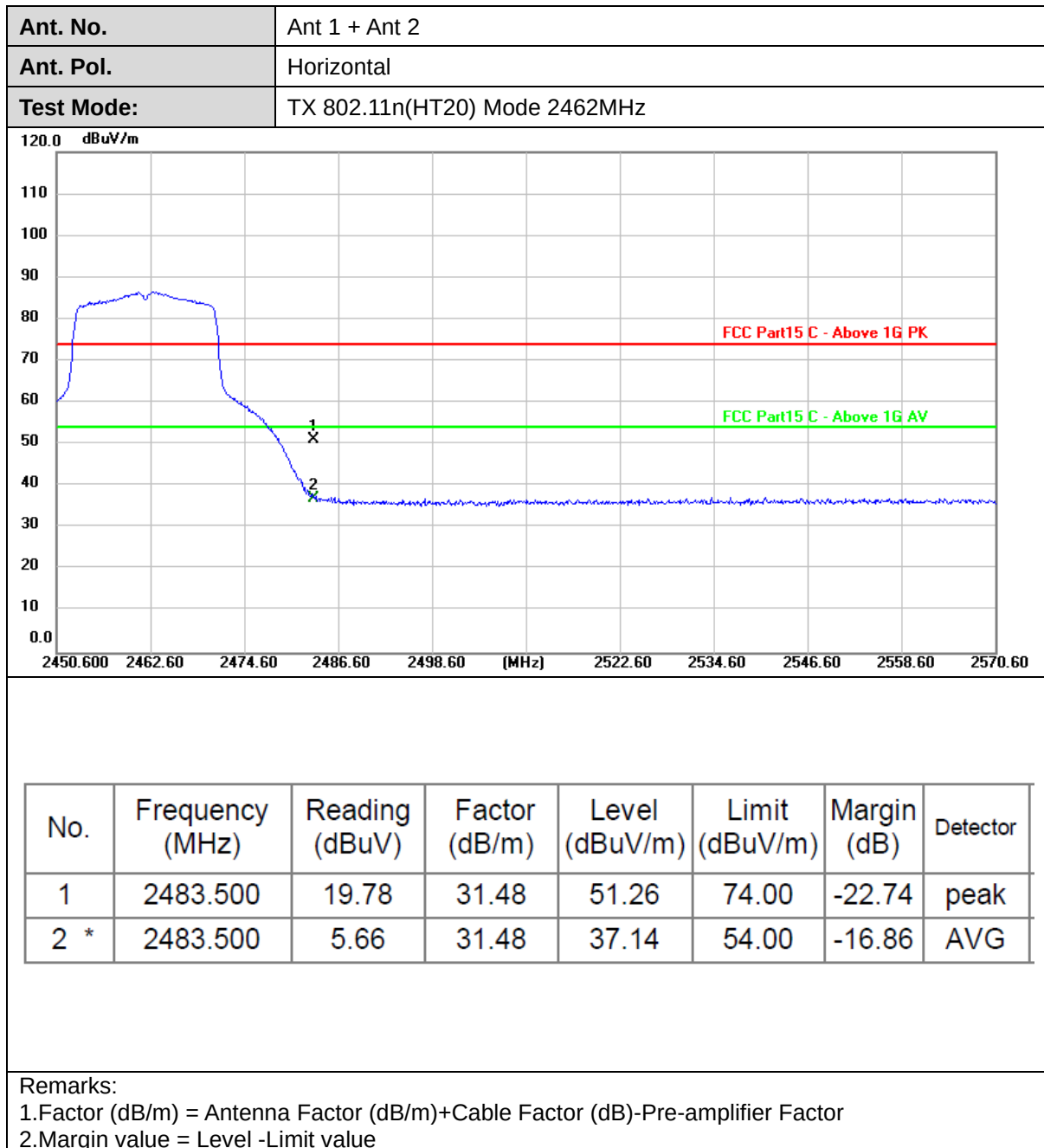


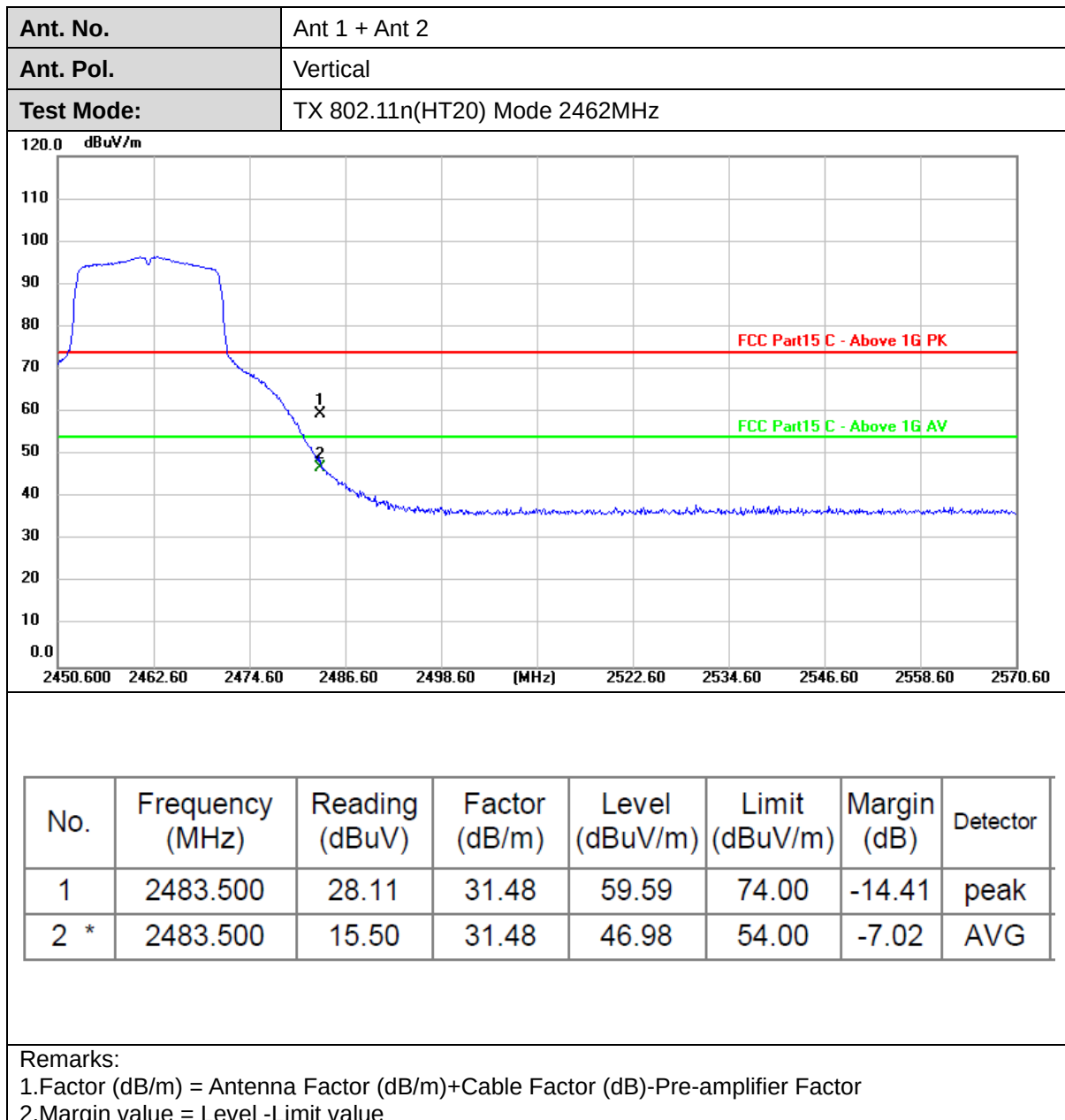


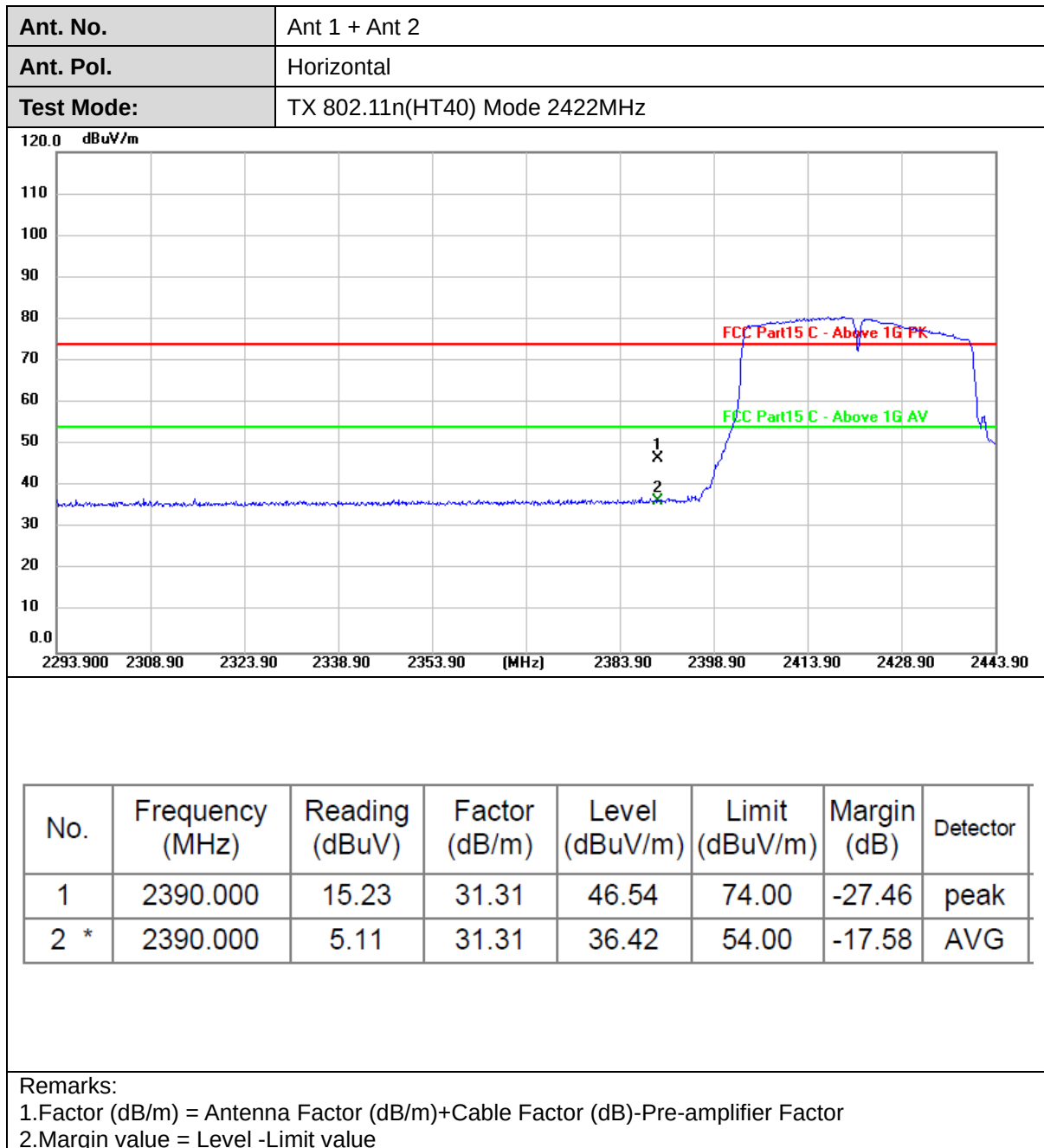


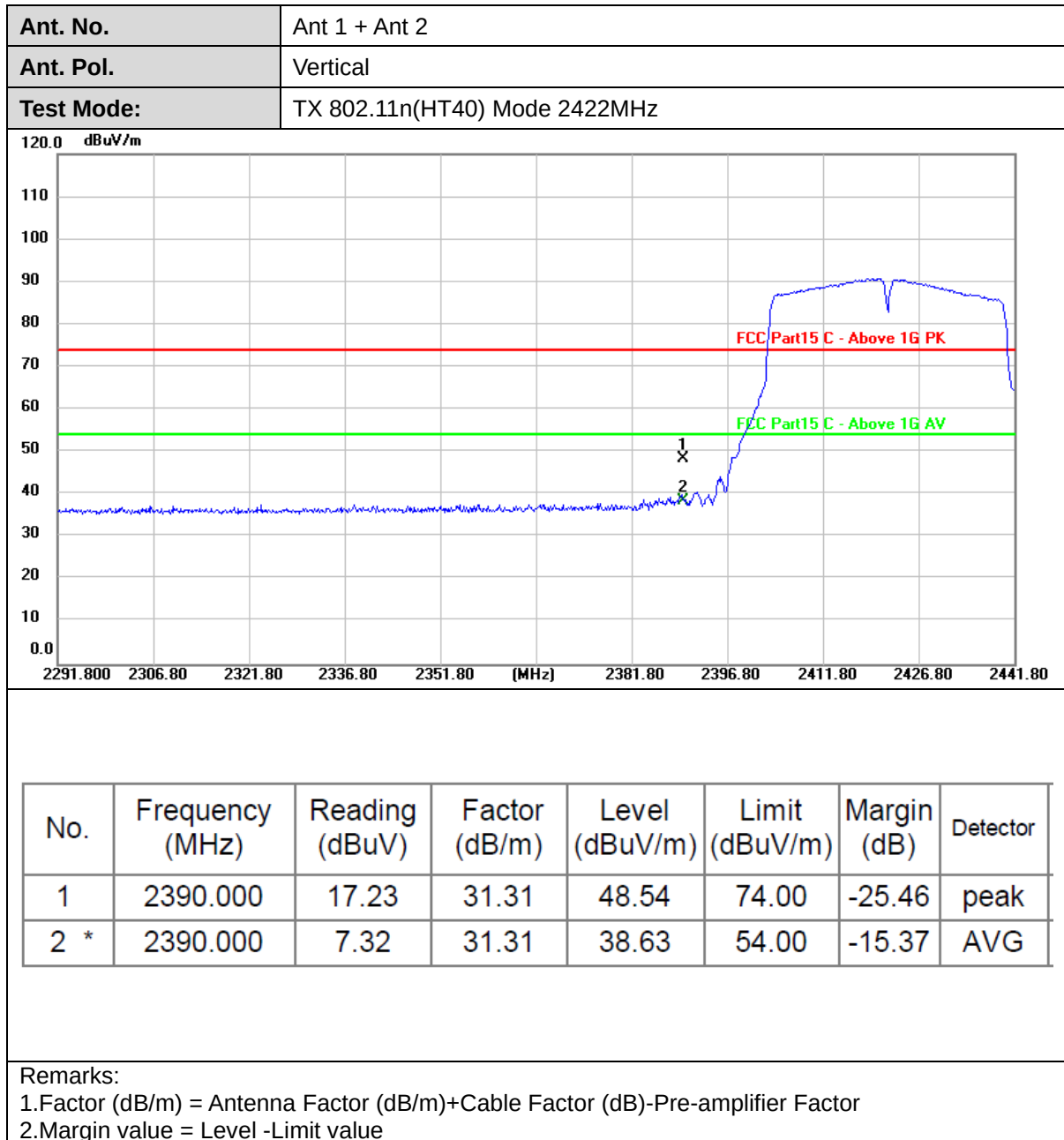


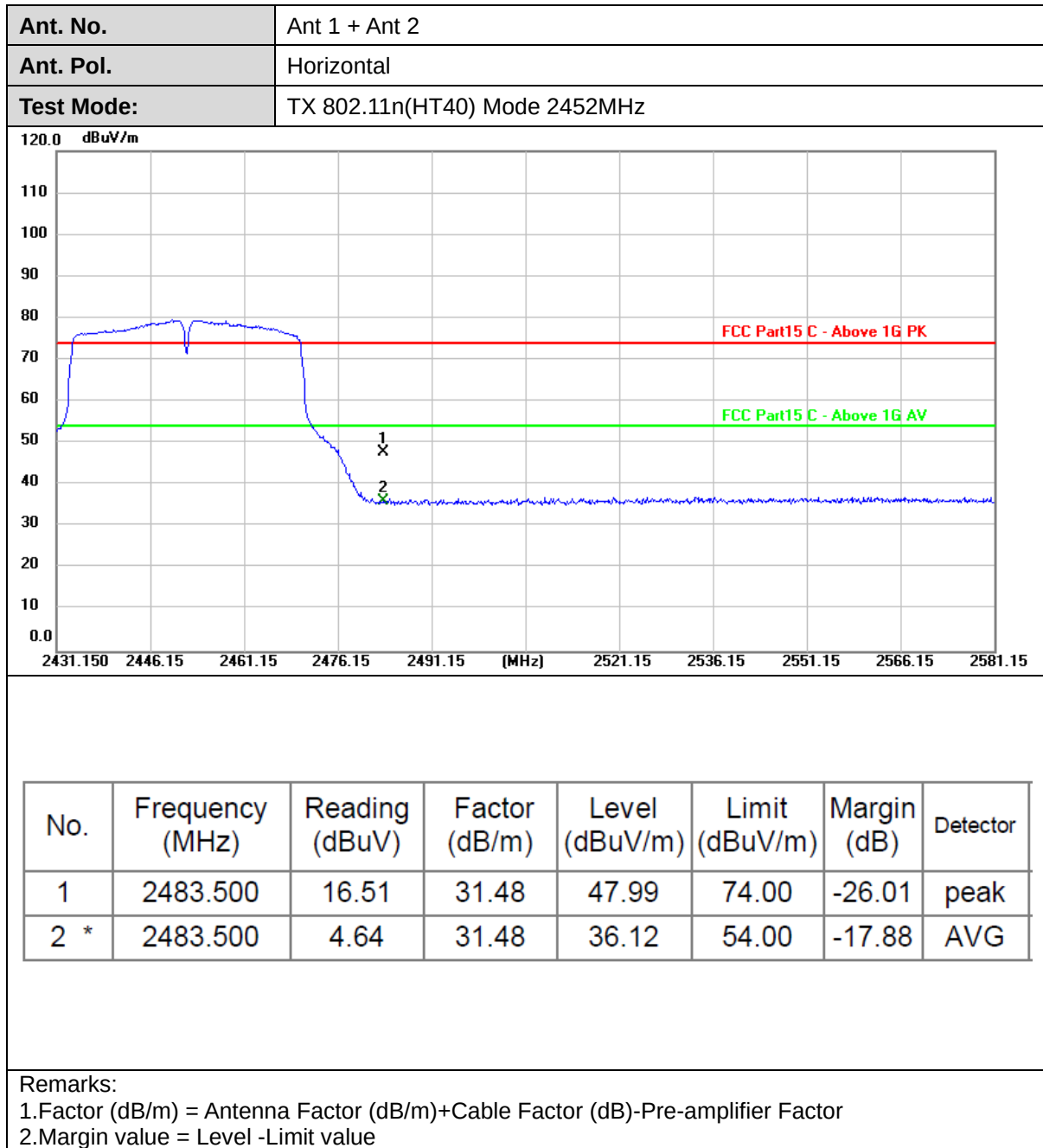


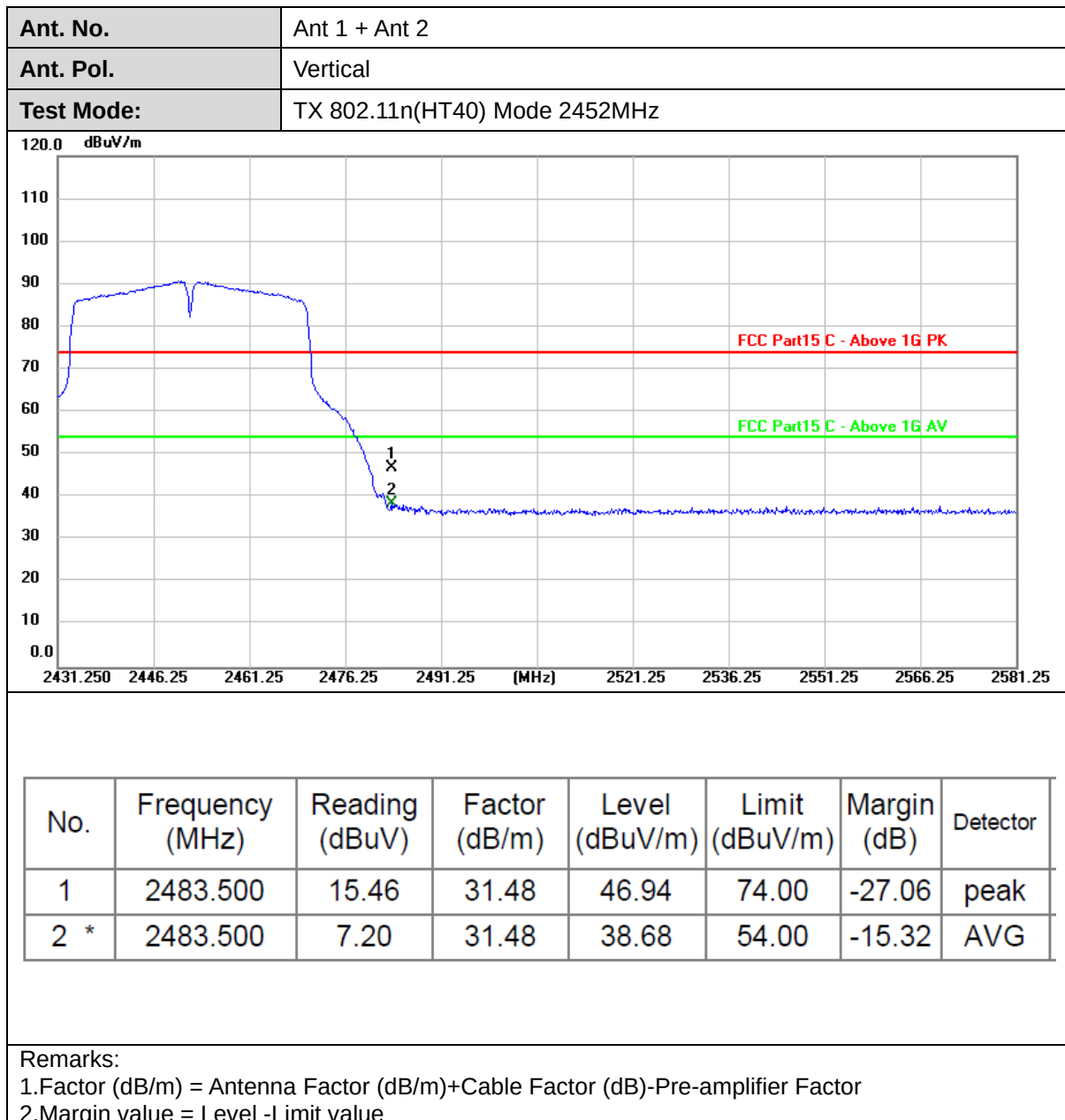






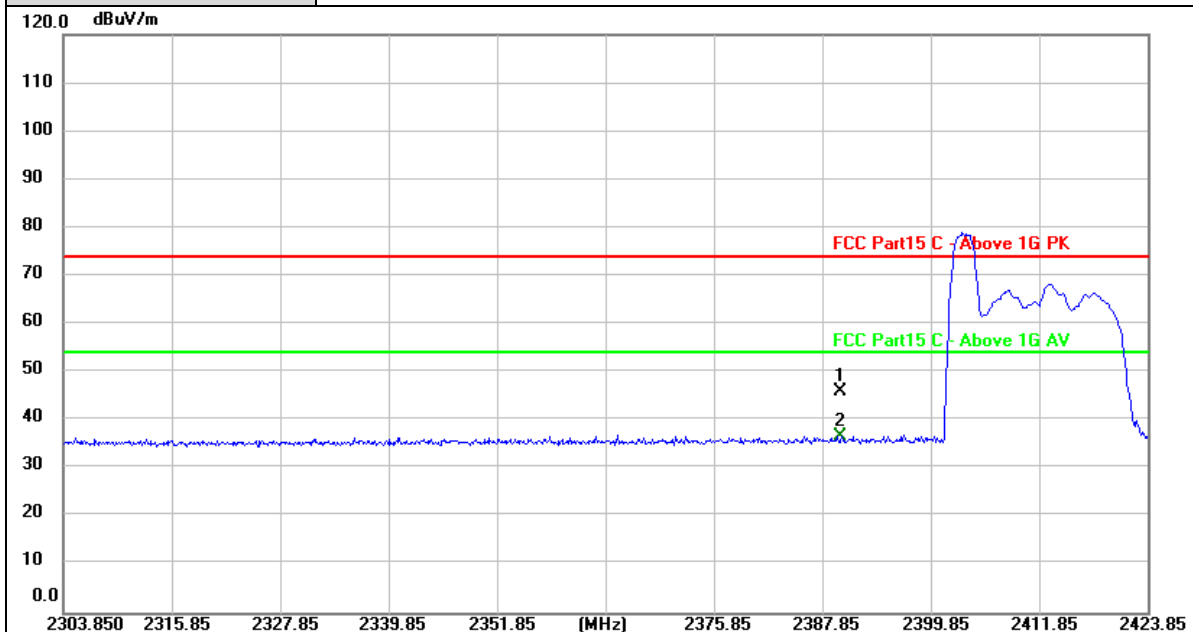








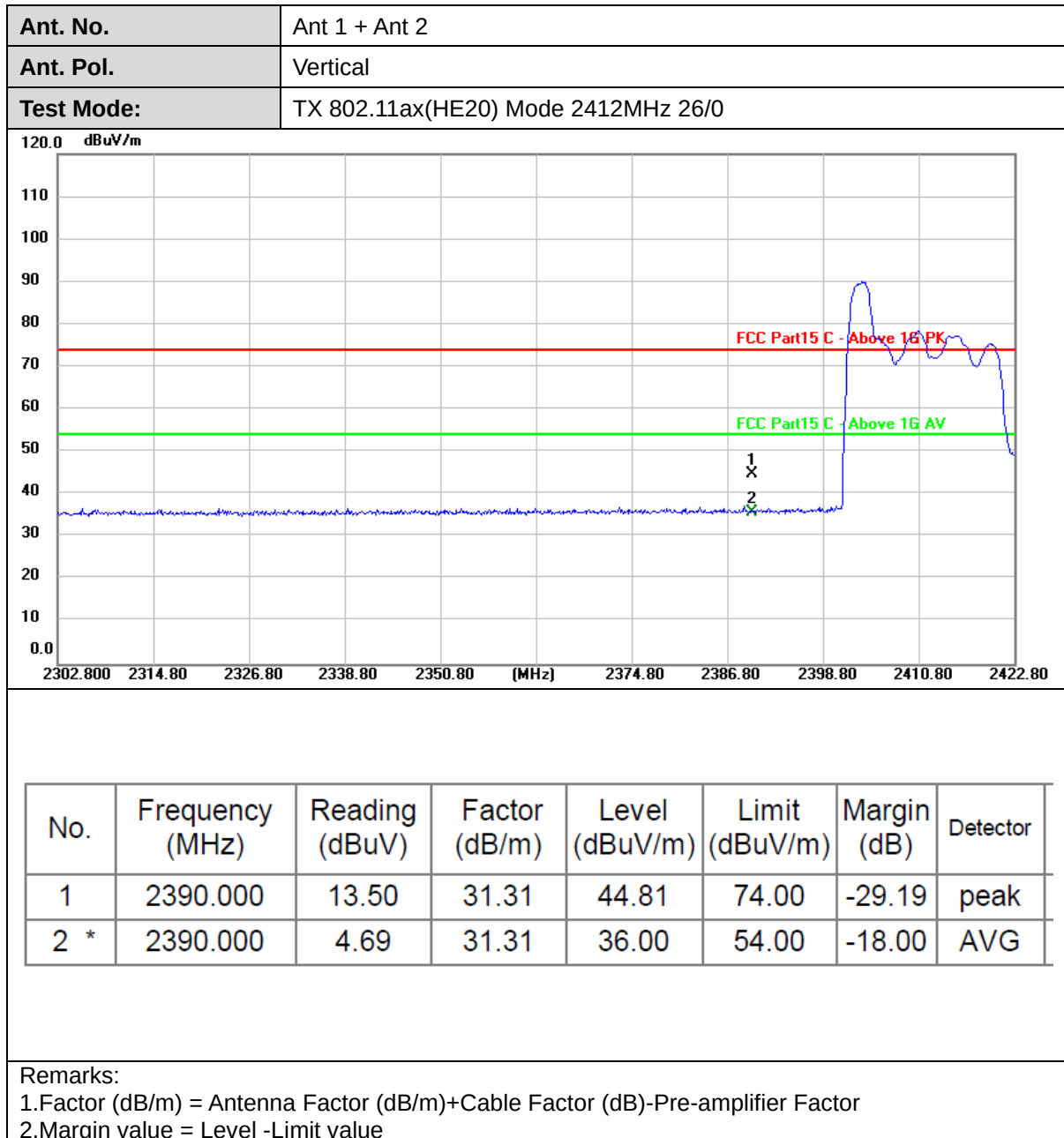
Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz 26/0

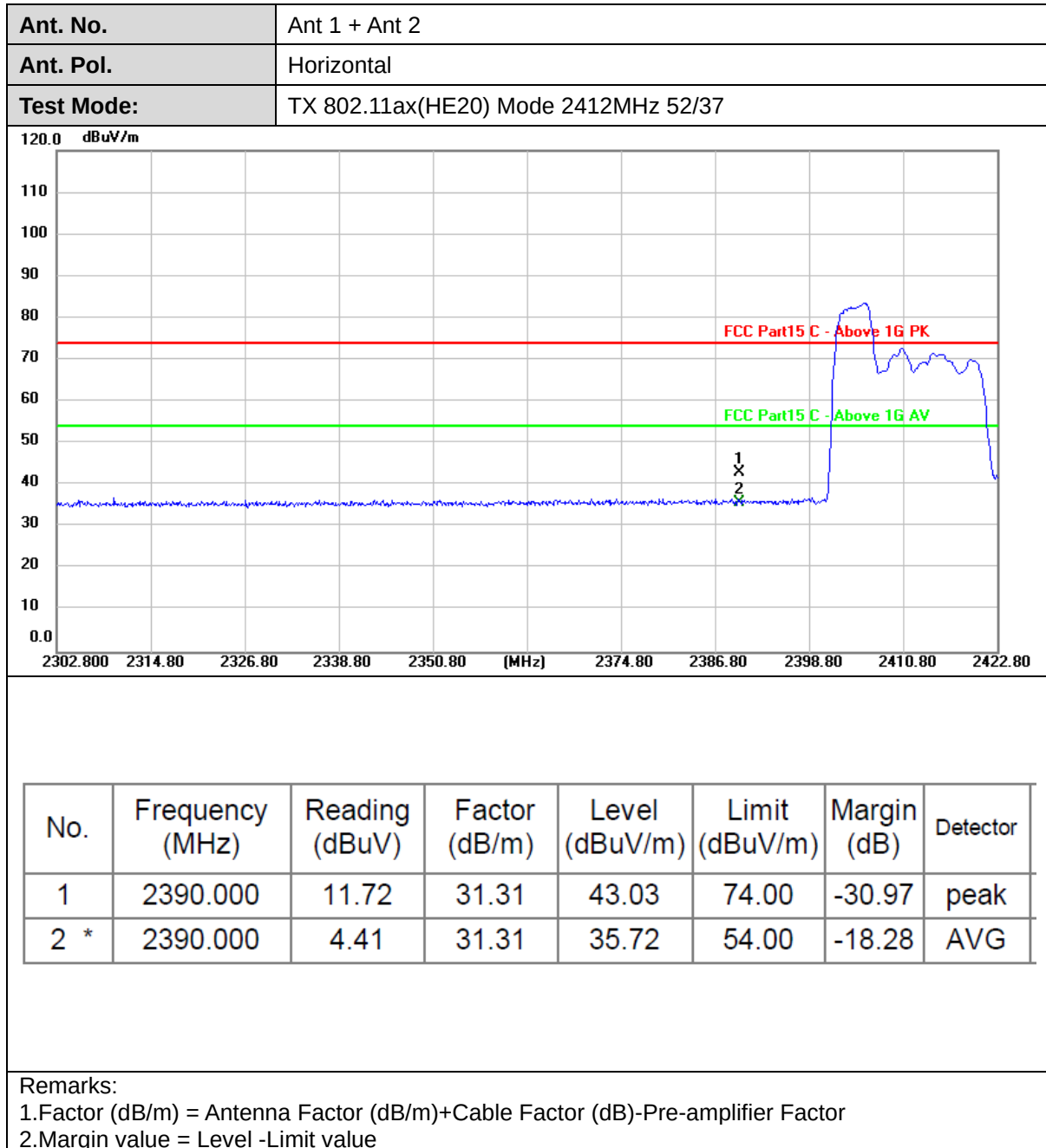


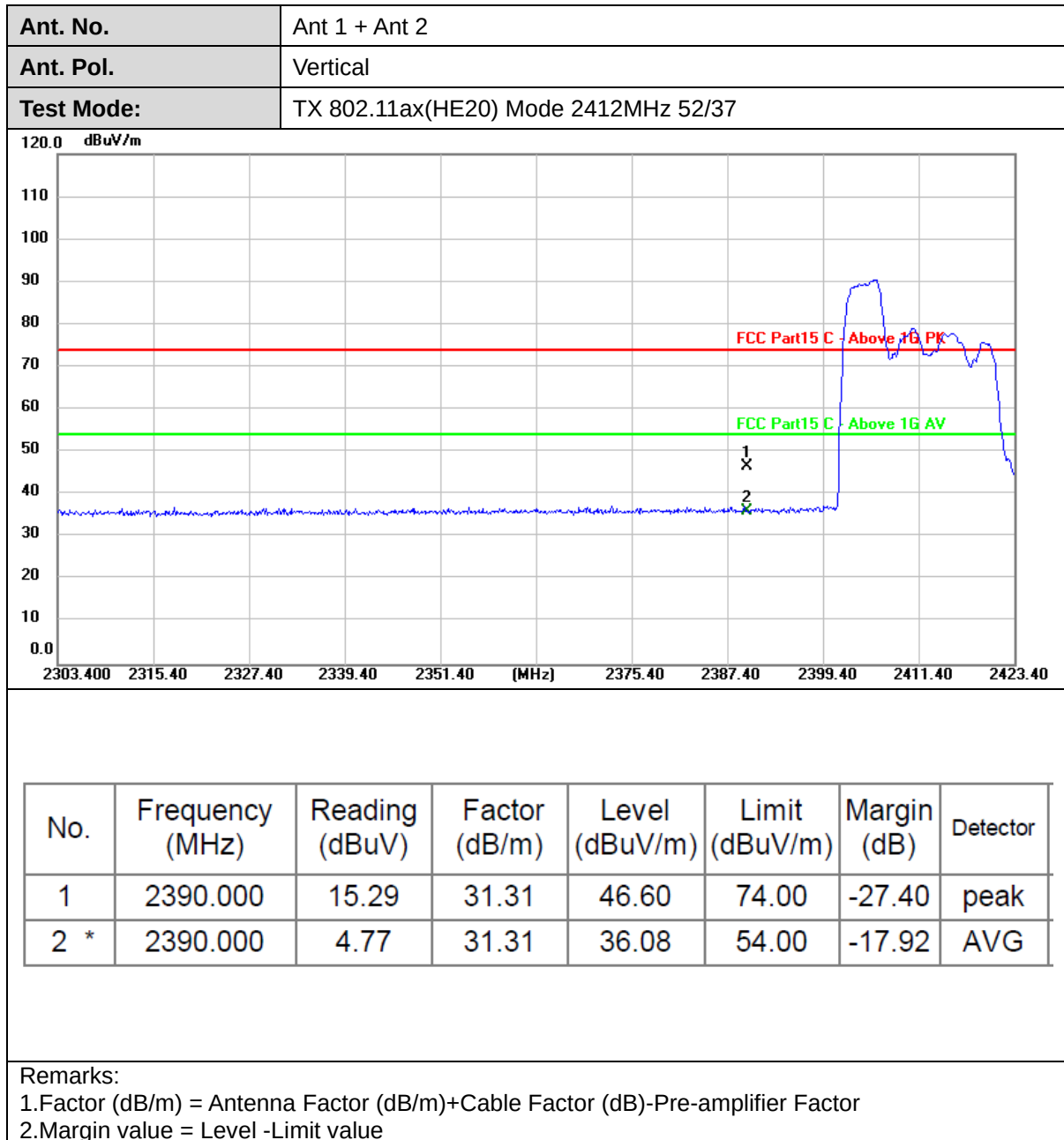
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	14.68	31.31	45.99	74.00	-28.01	peak
2 *	2390.000	5.48	31.31	36.79	54.00	-17.21	AVG

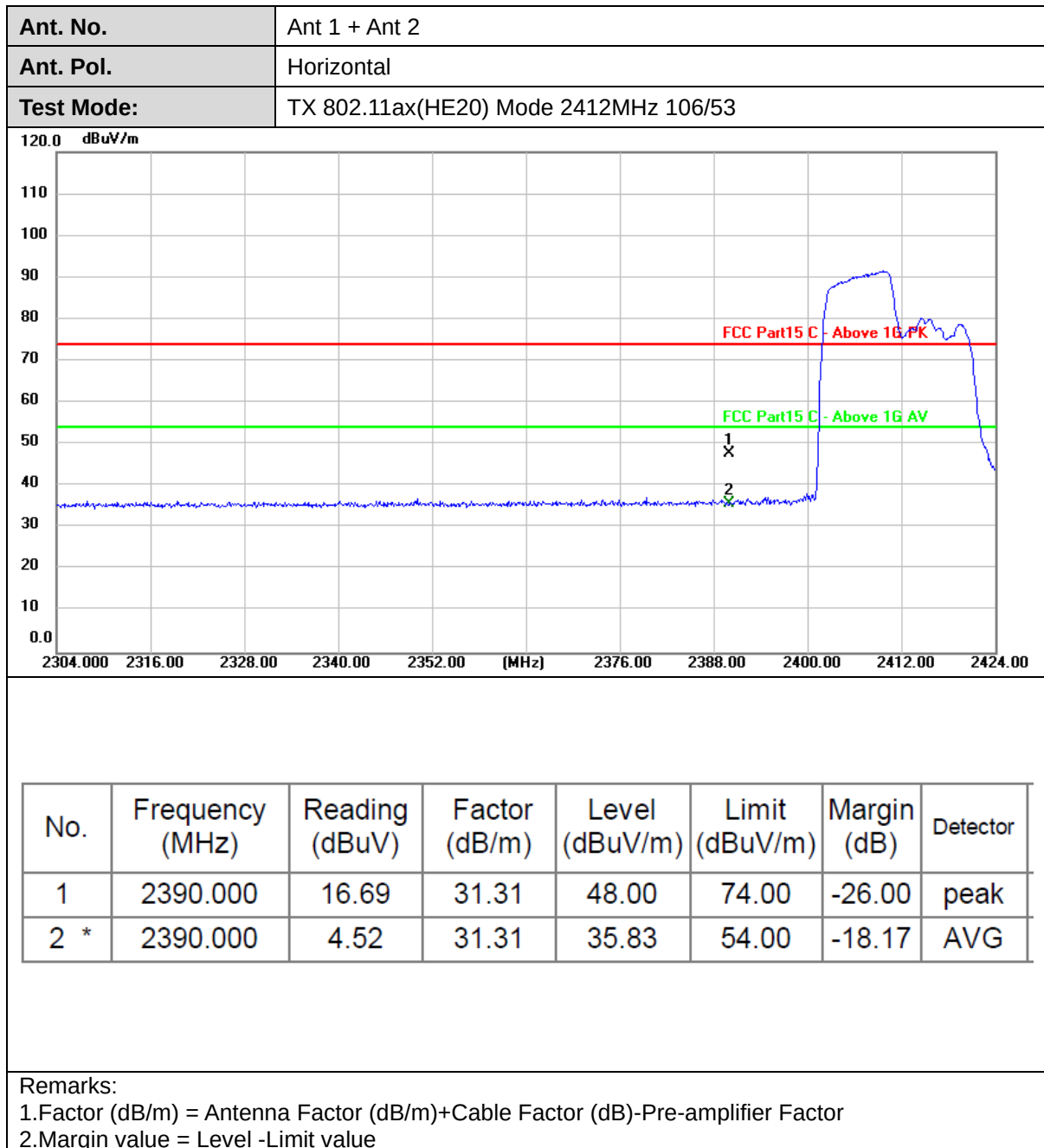
Remarks:

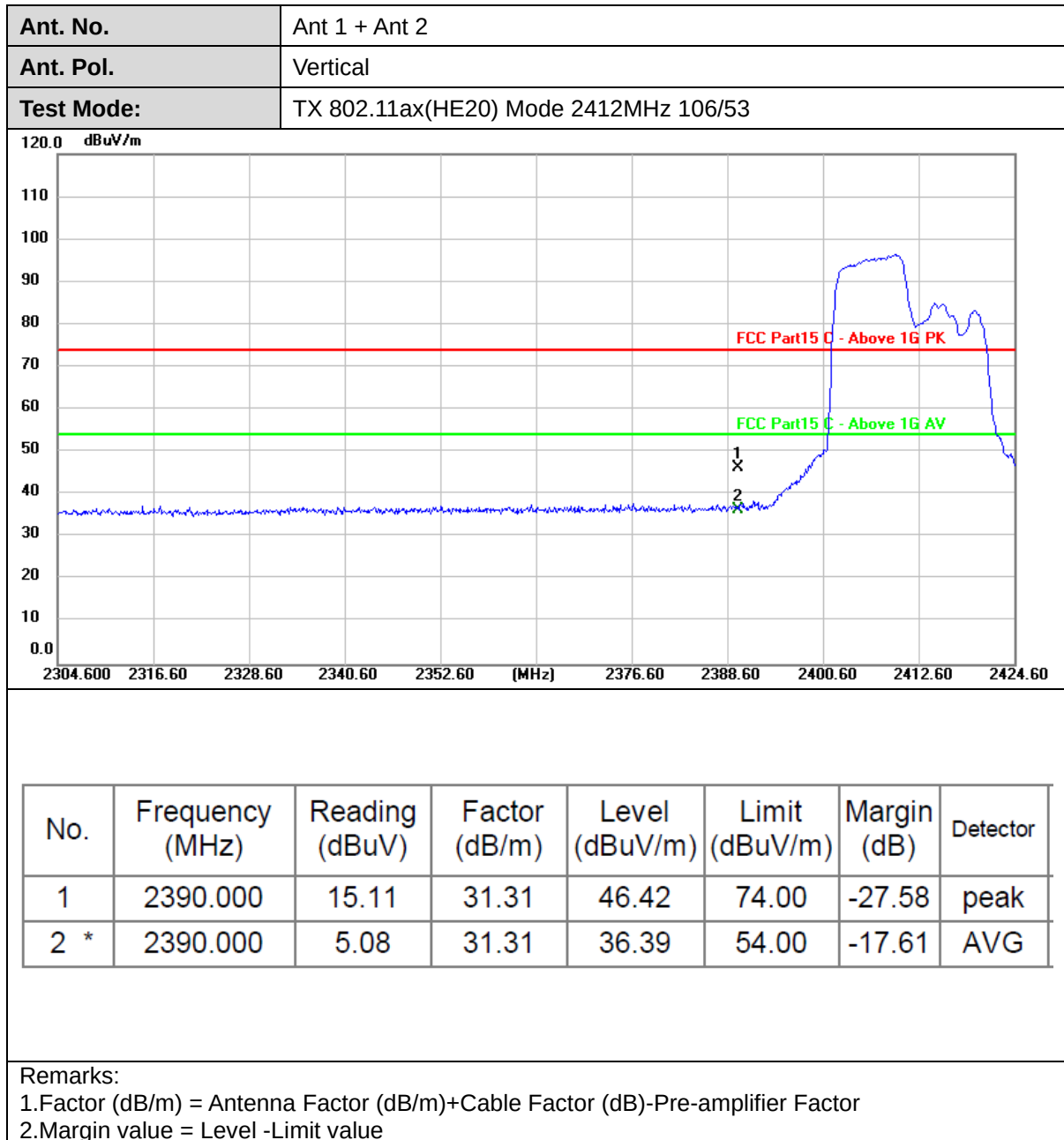
- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value

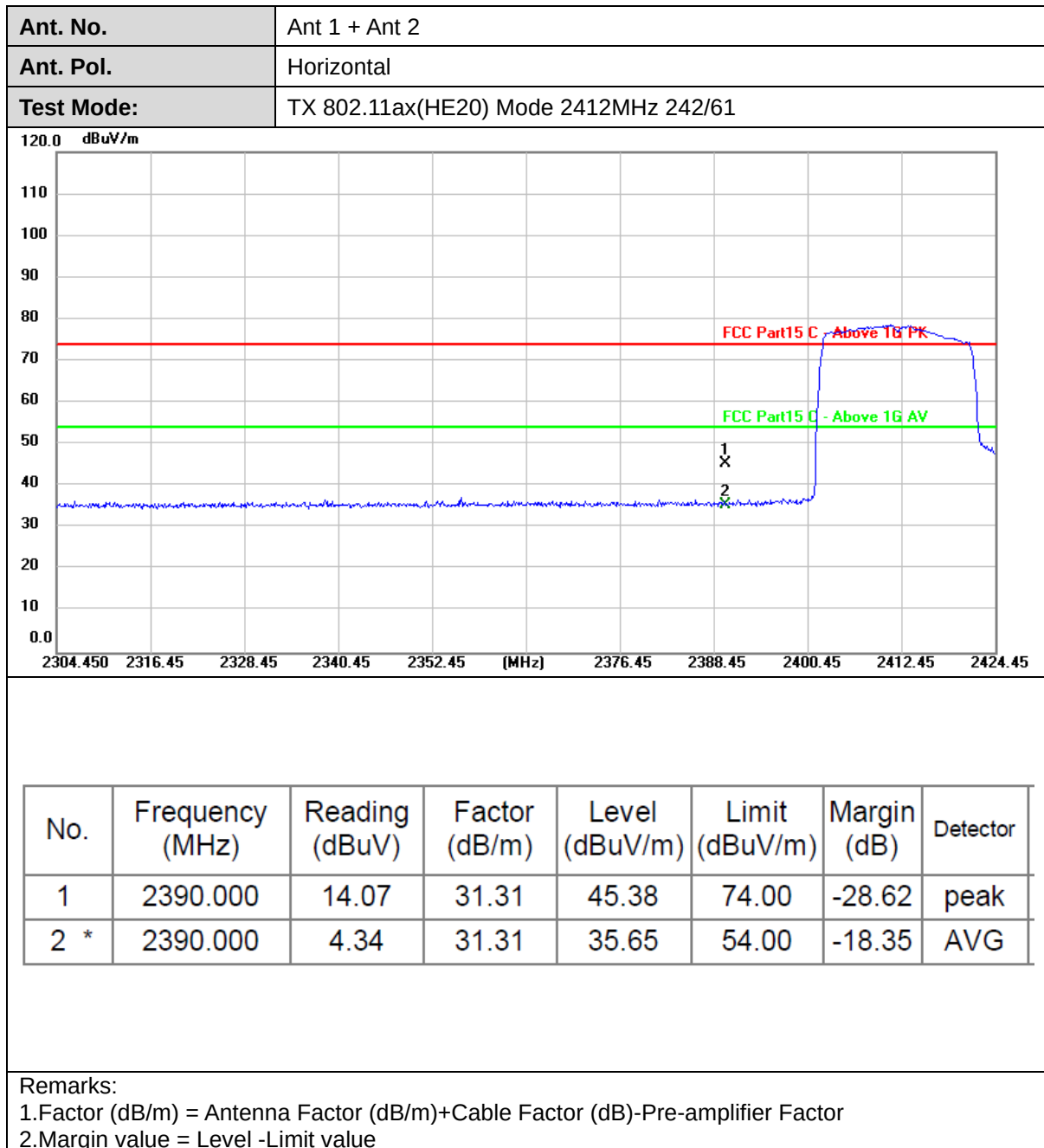


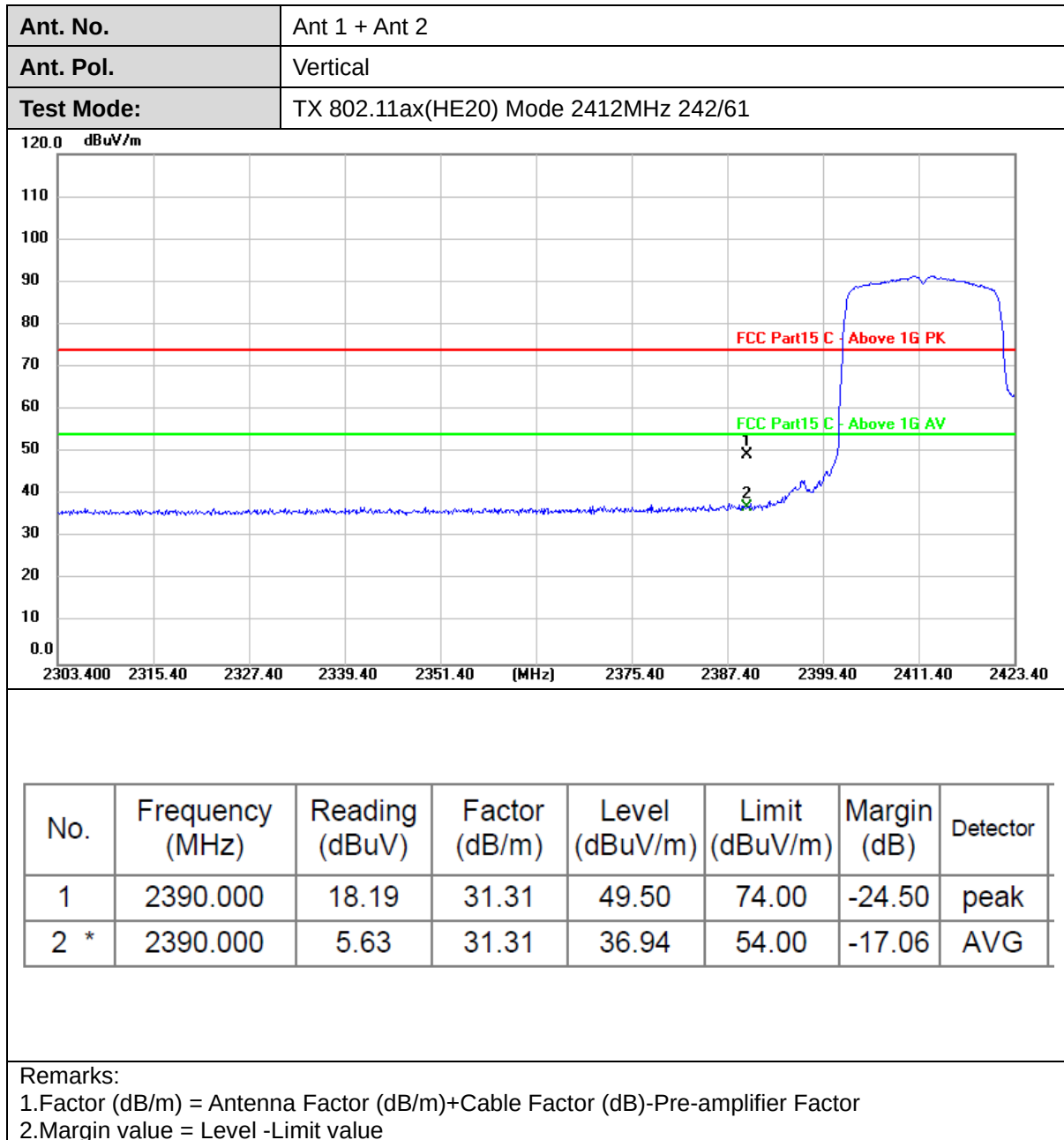


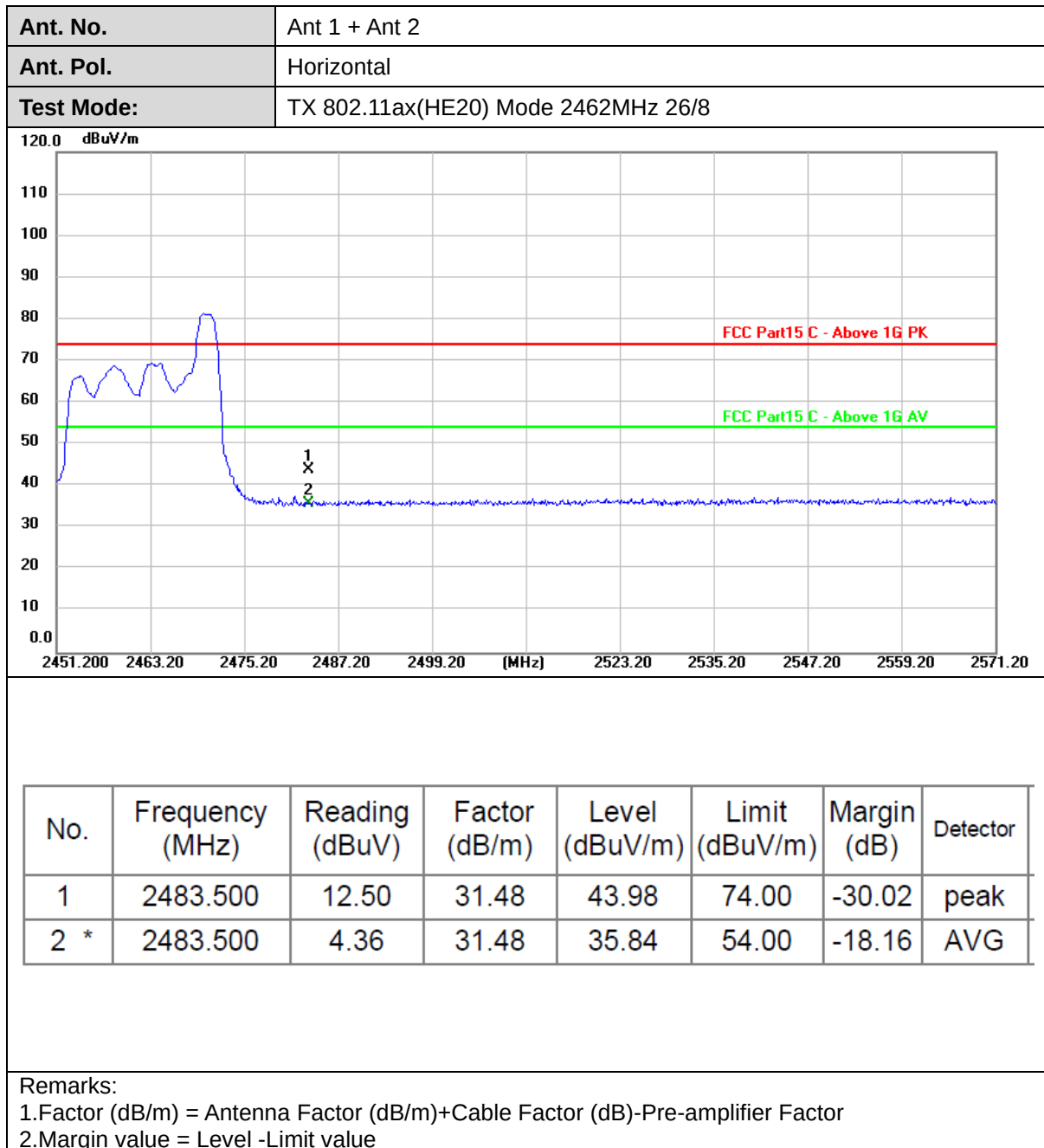


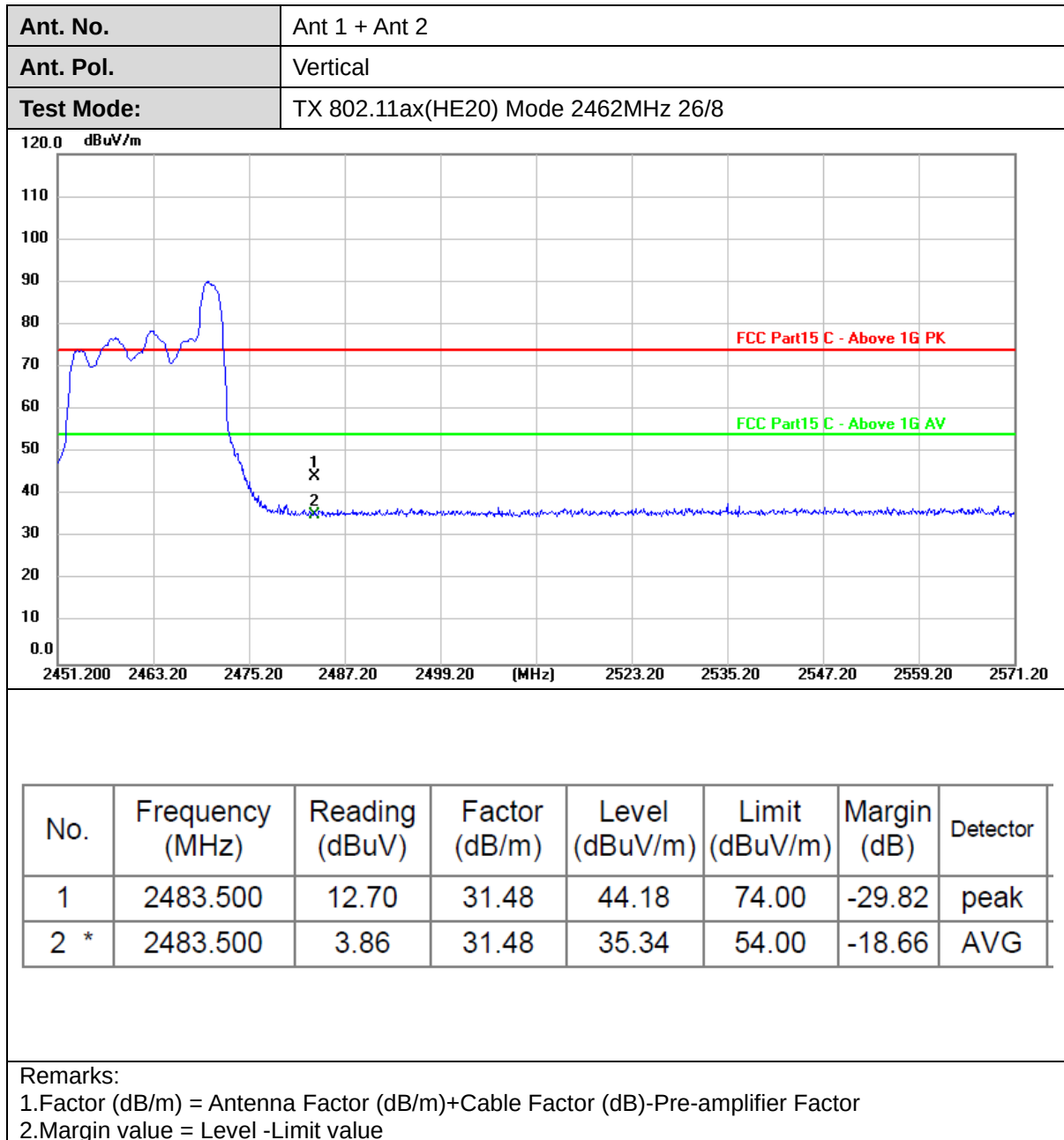


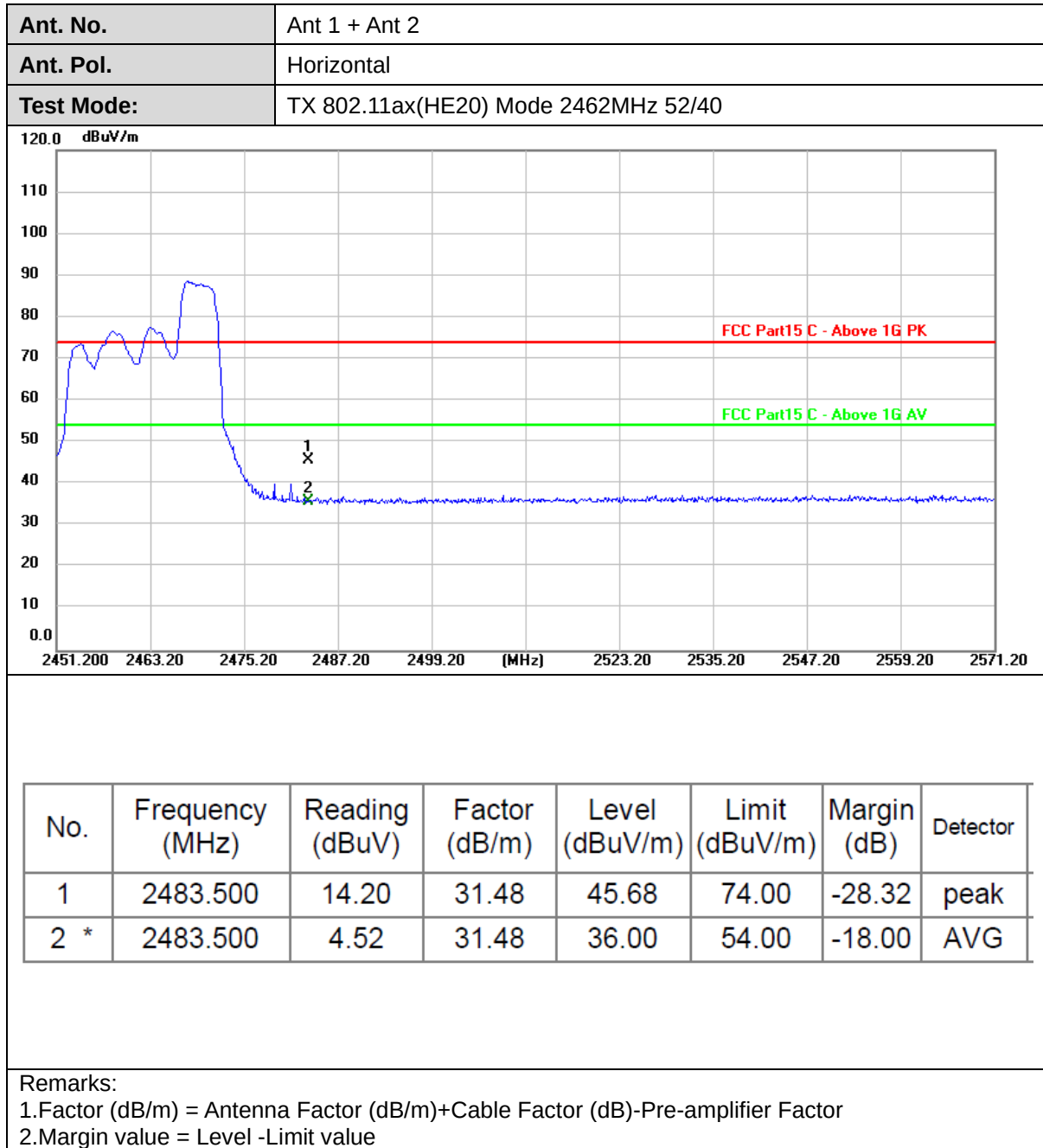


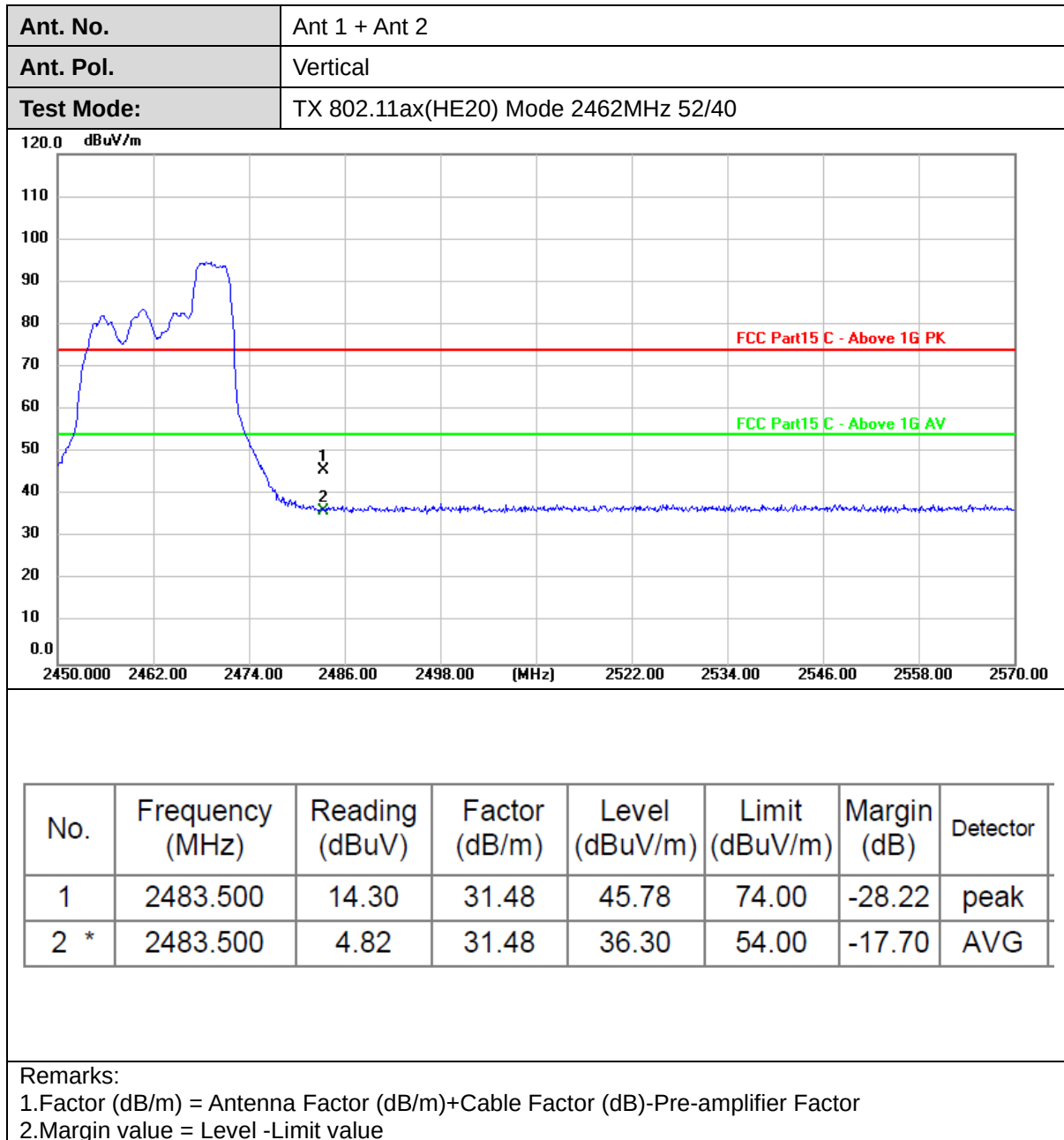


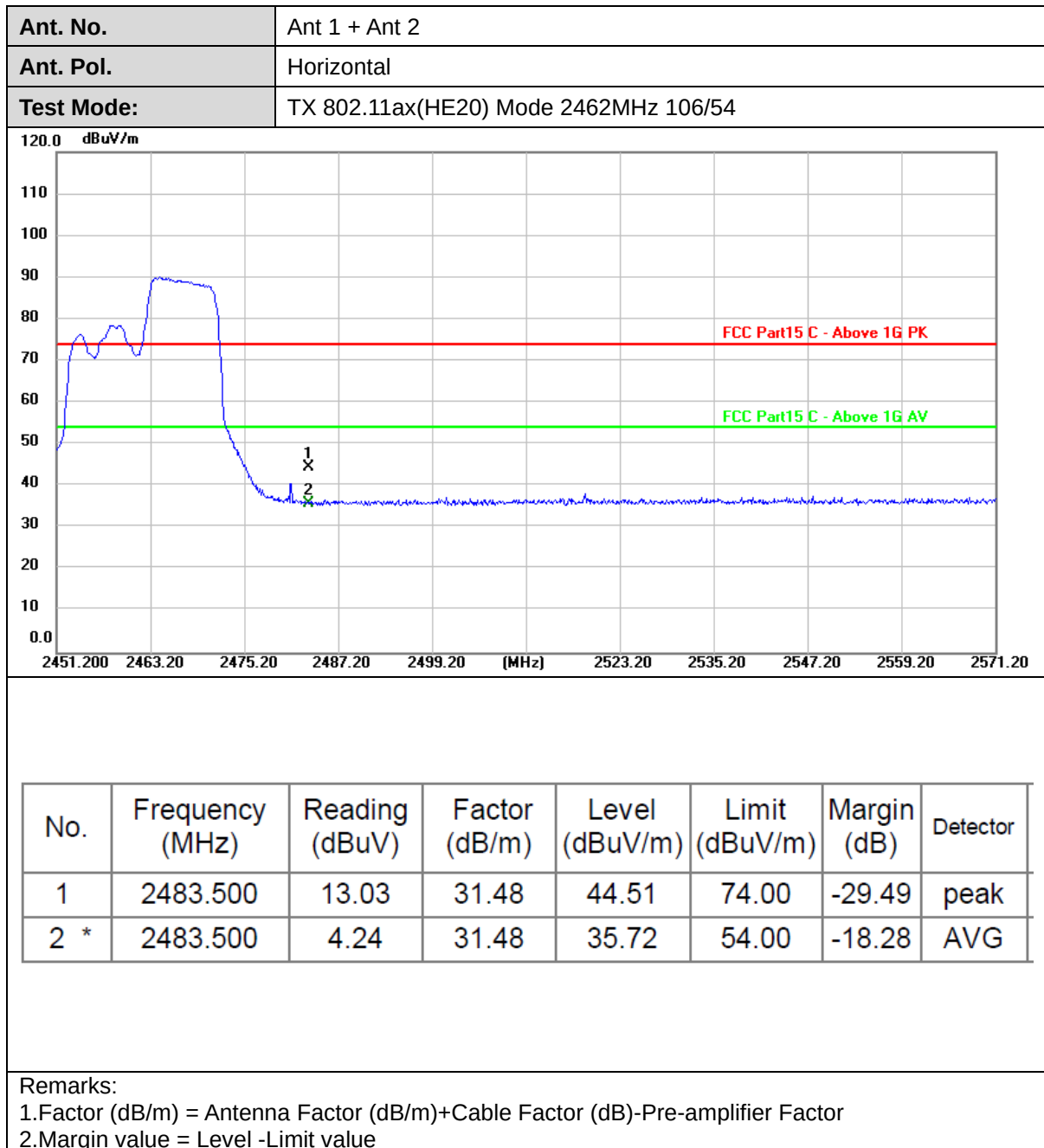


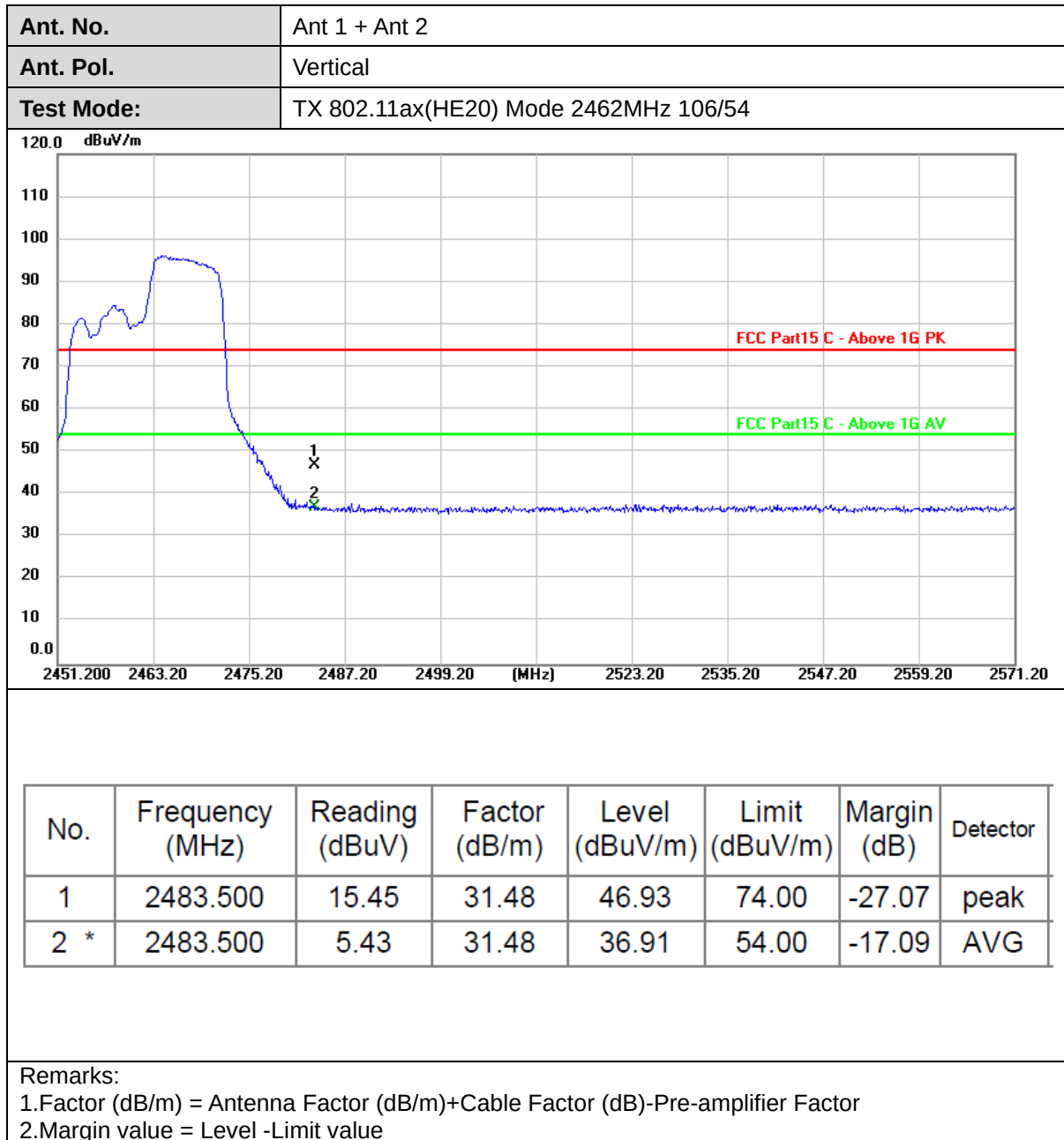


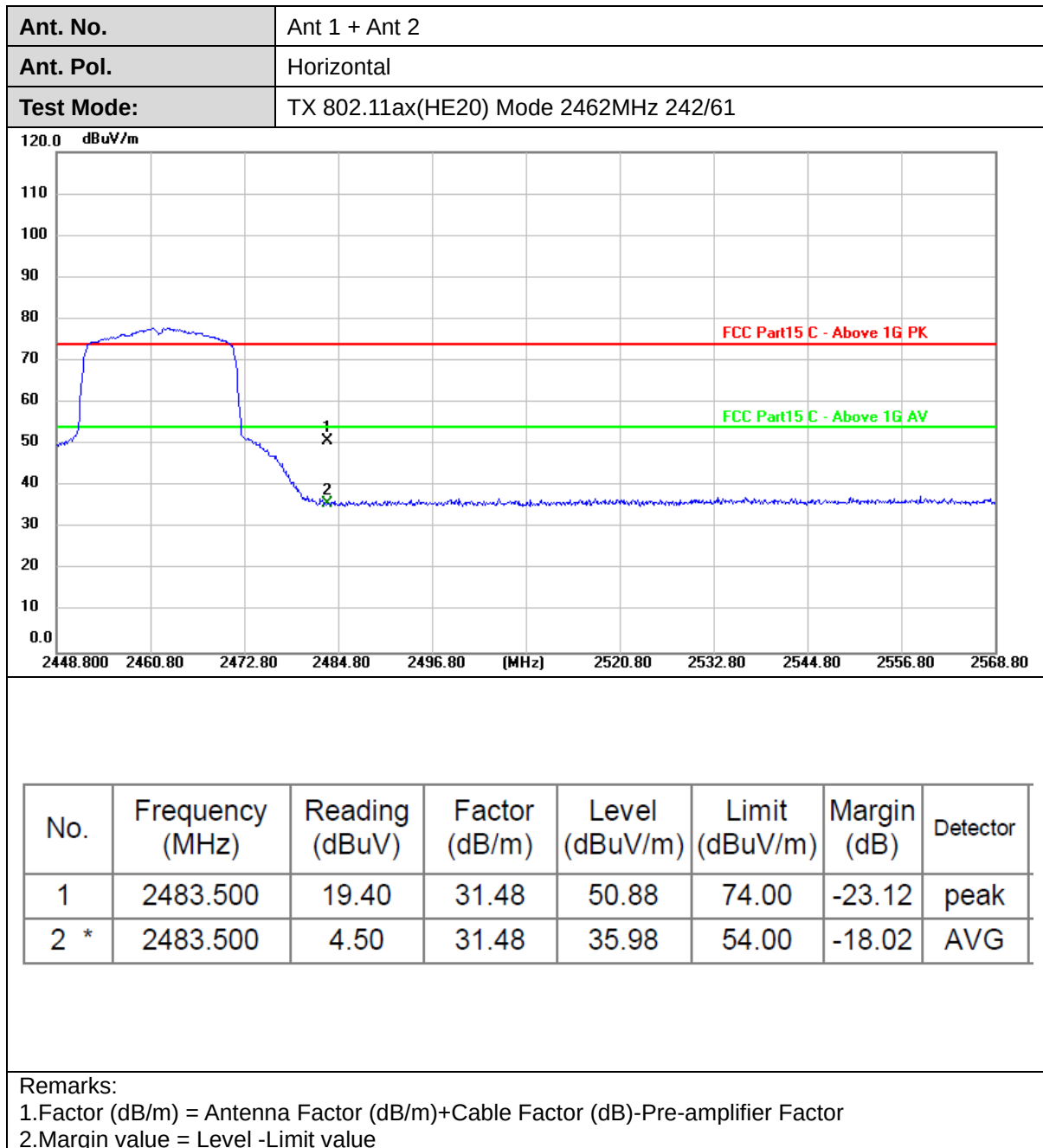


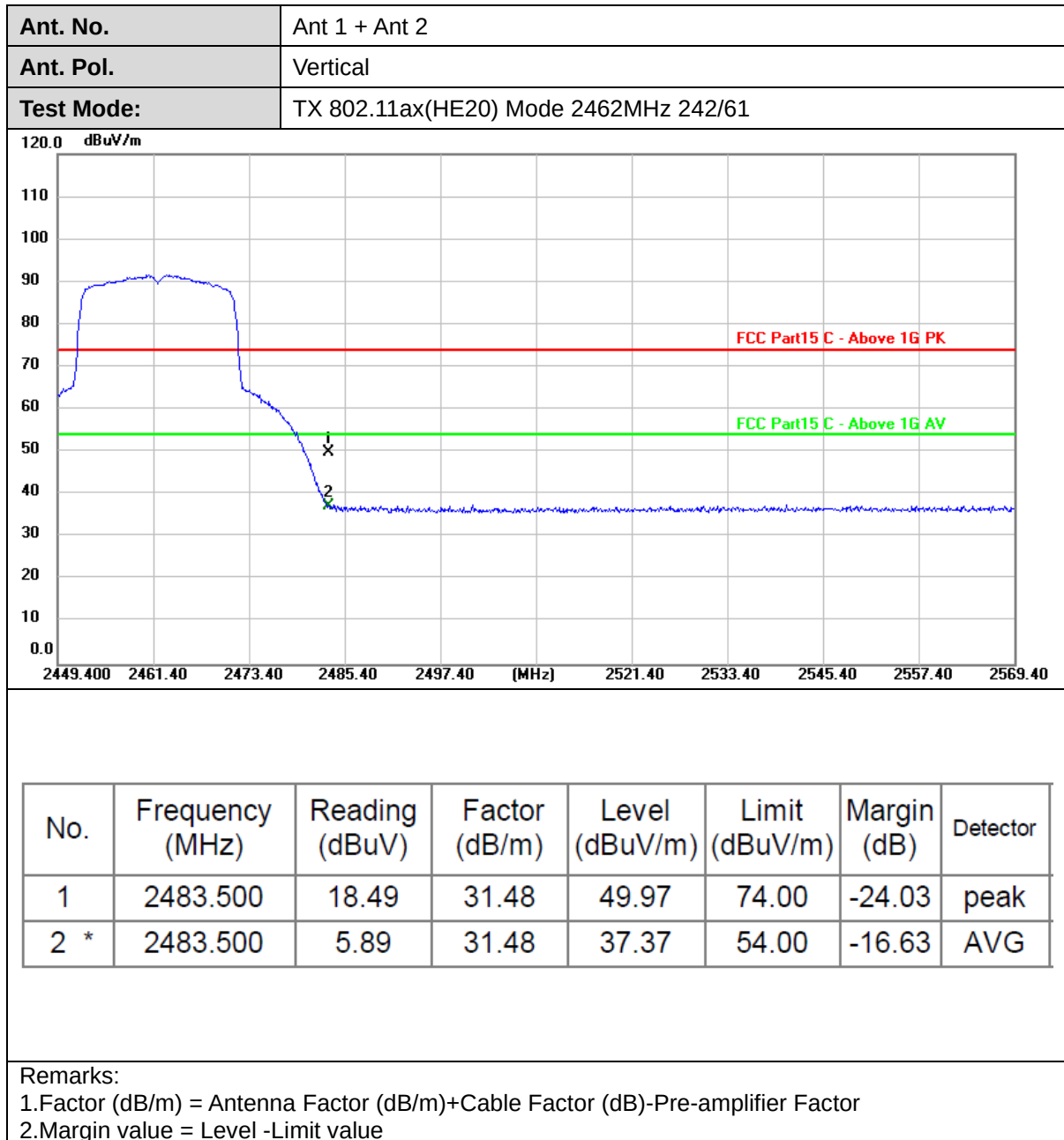


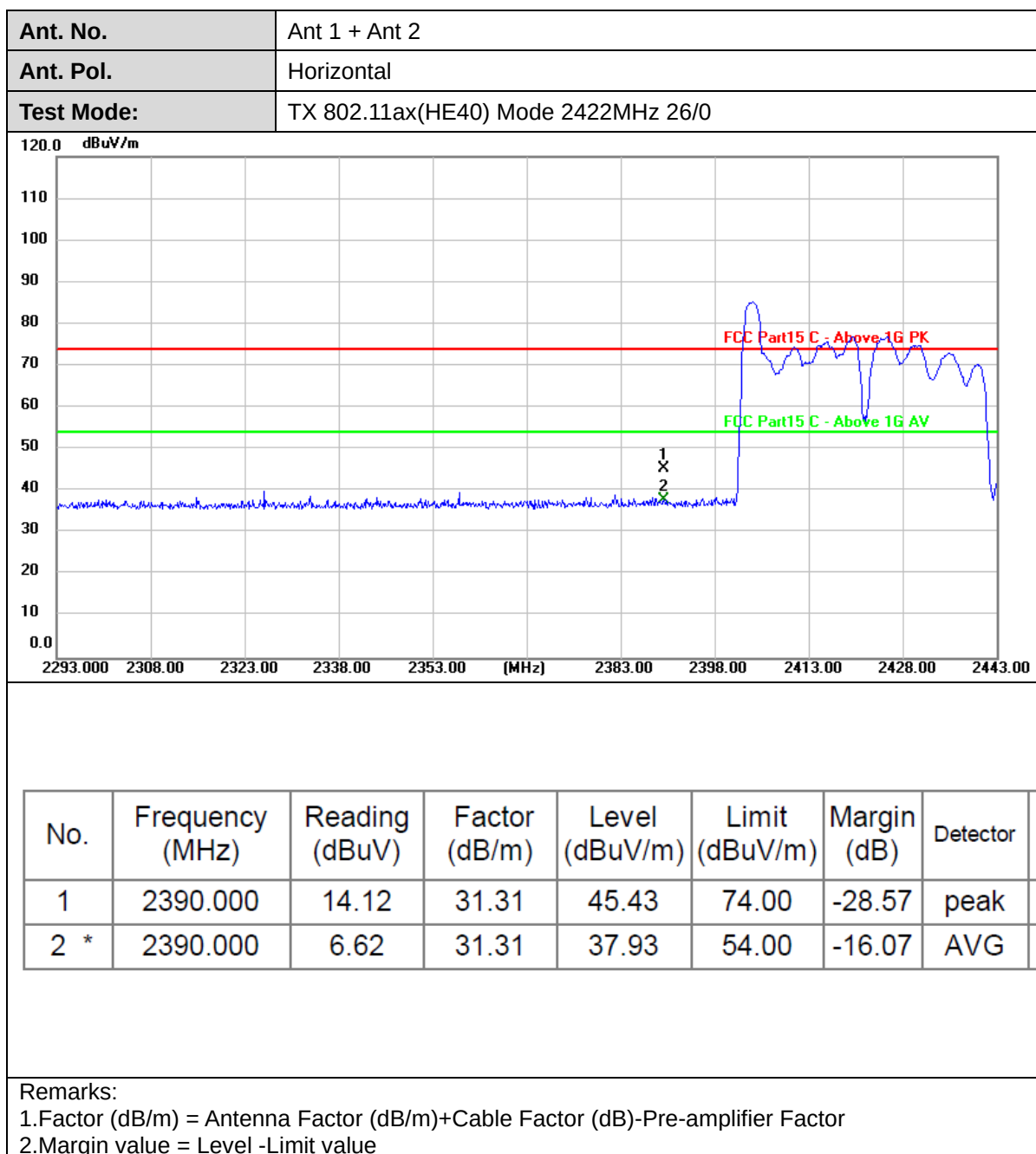


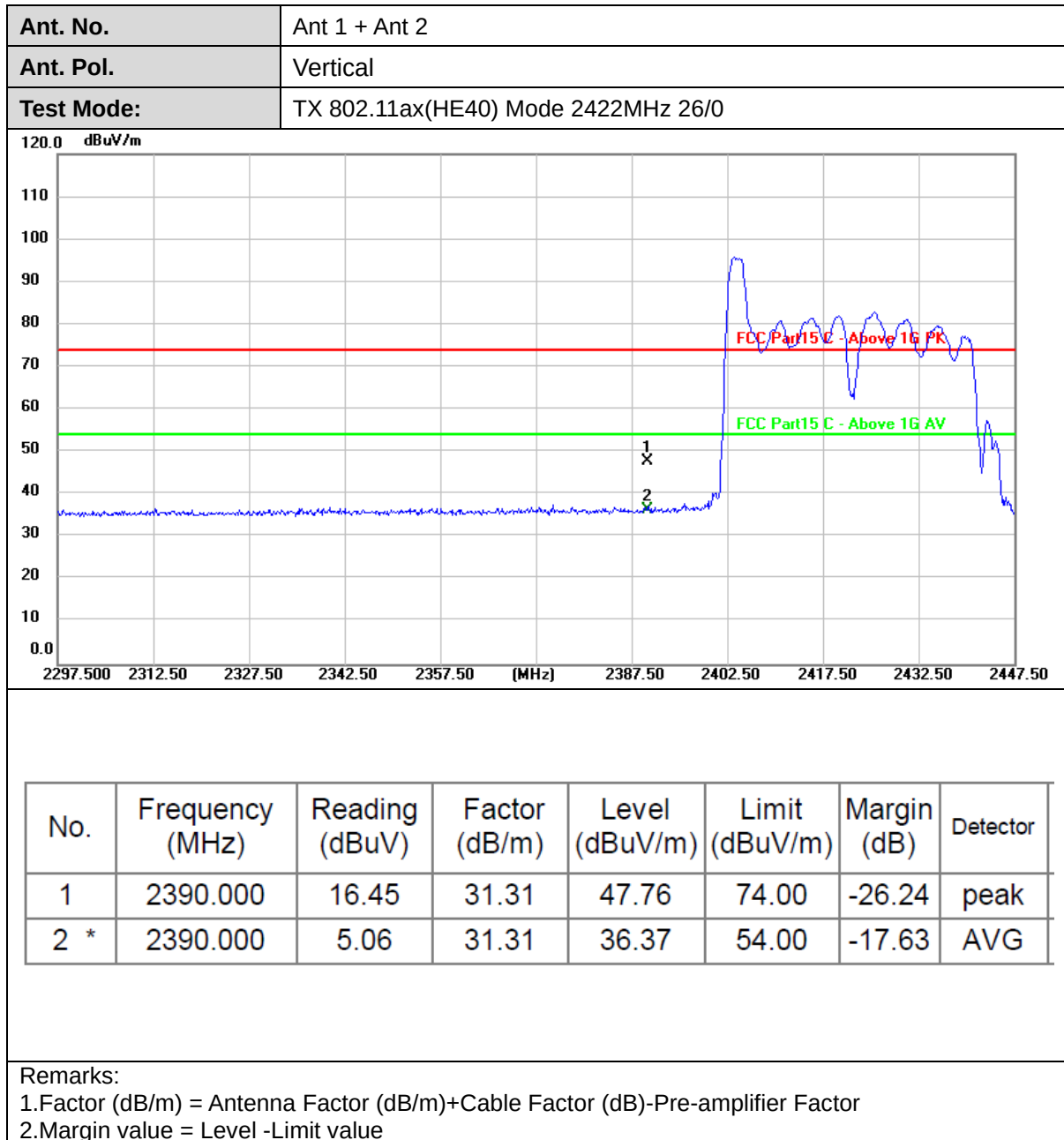


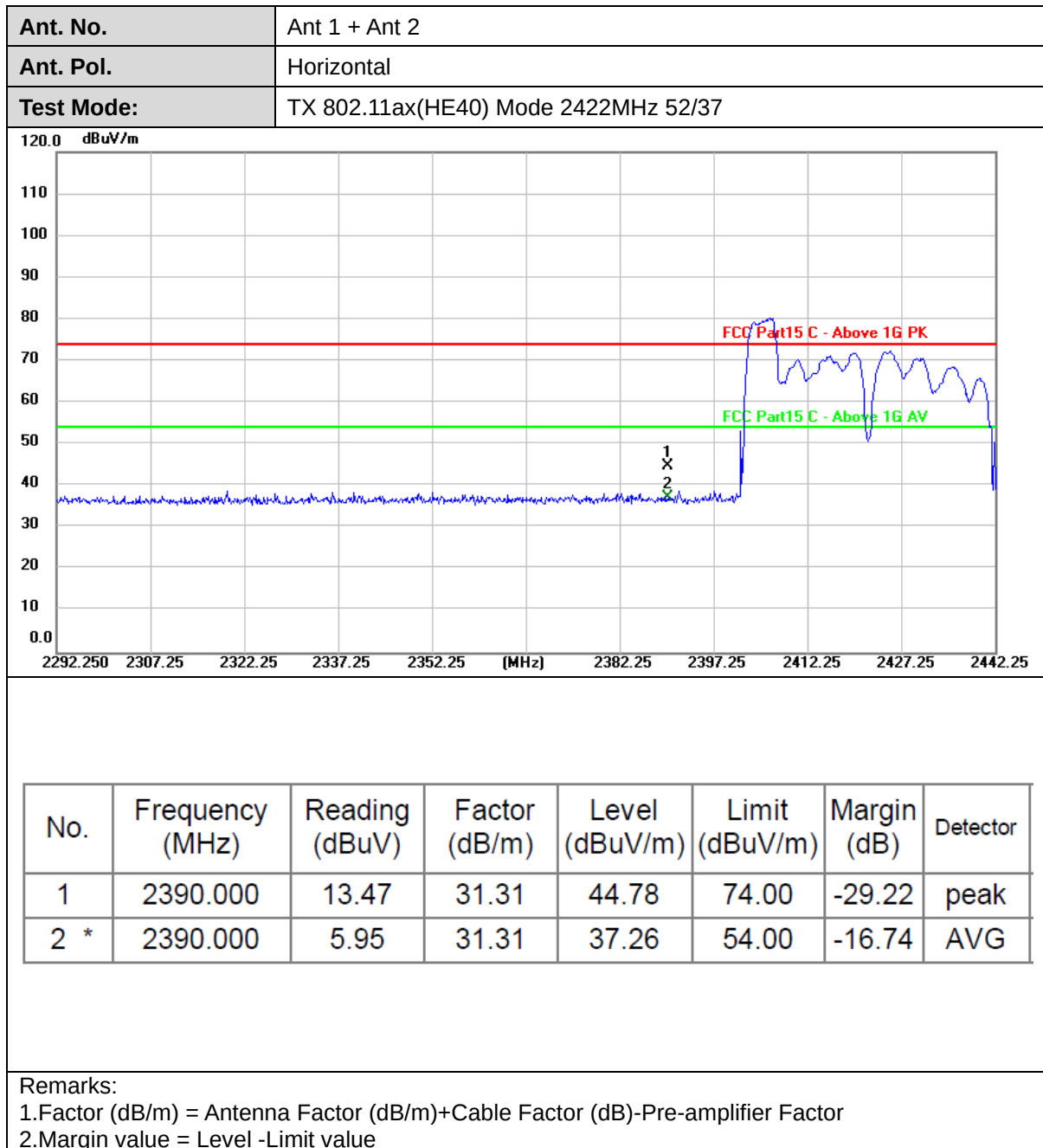


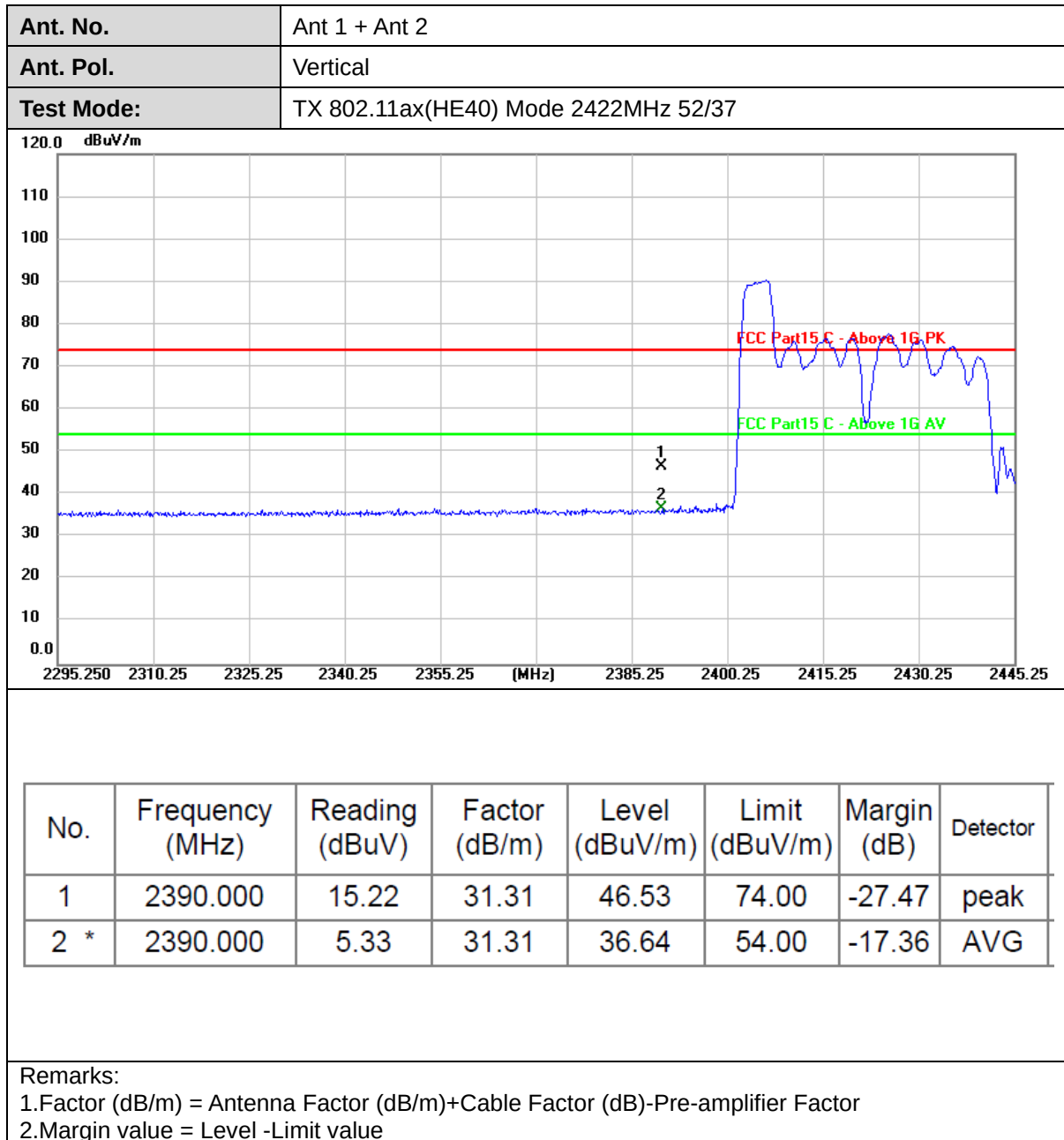


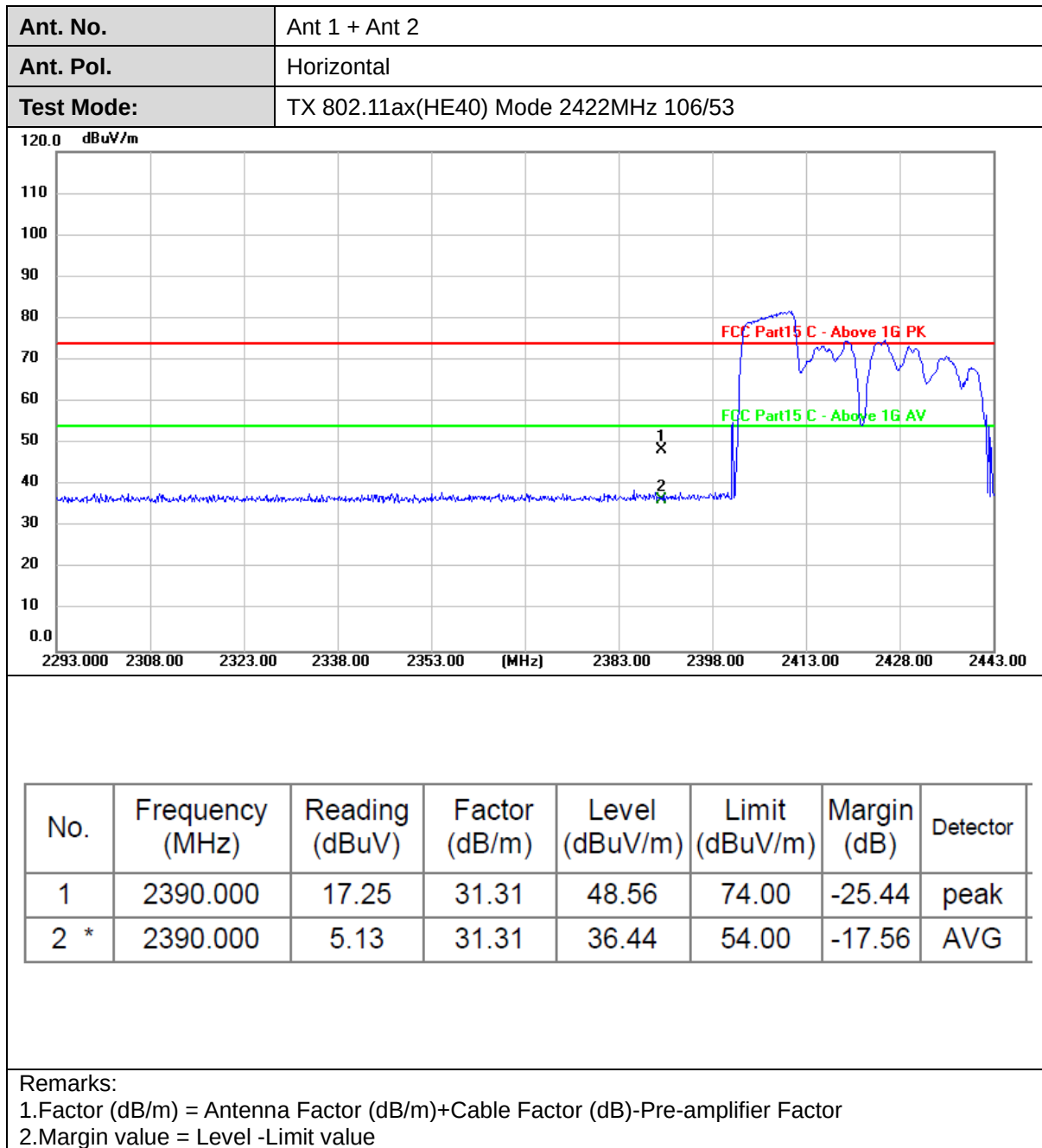


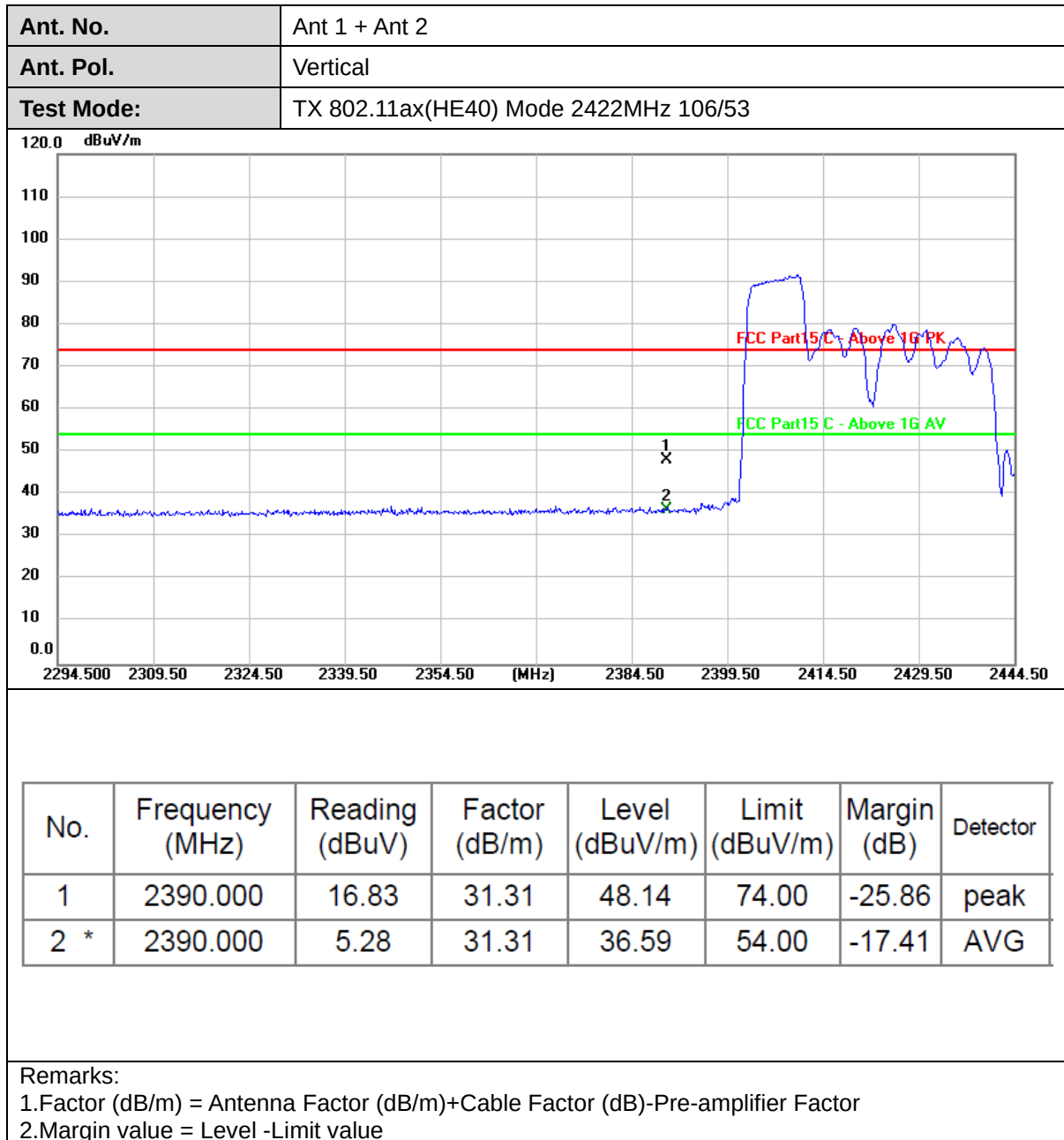


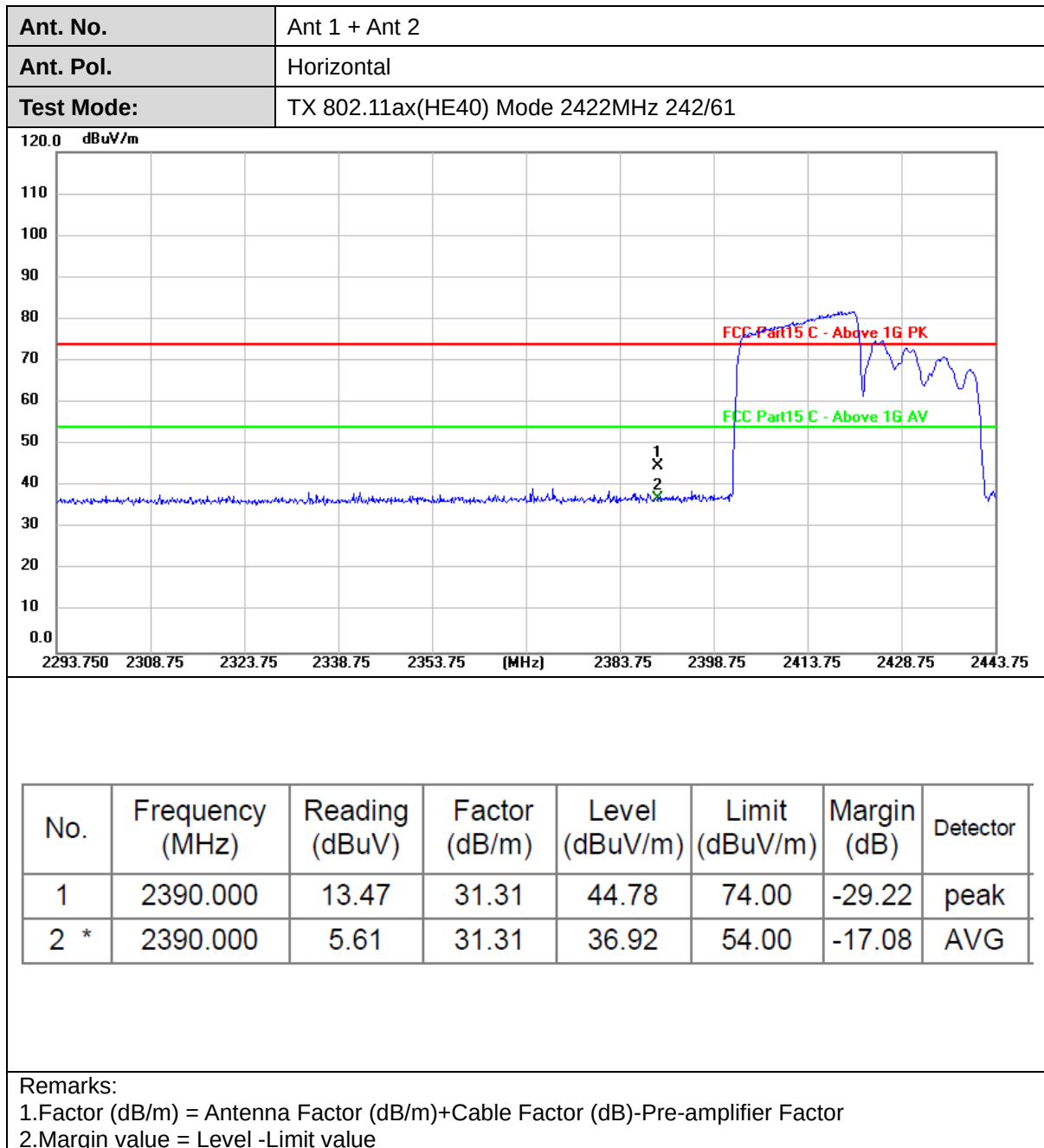


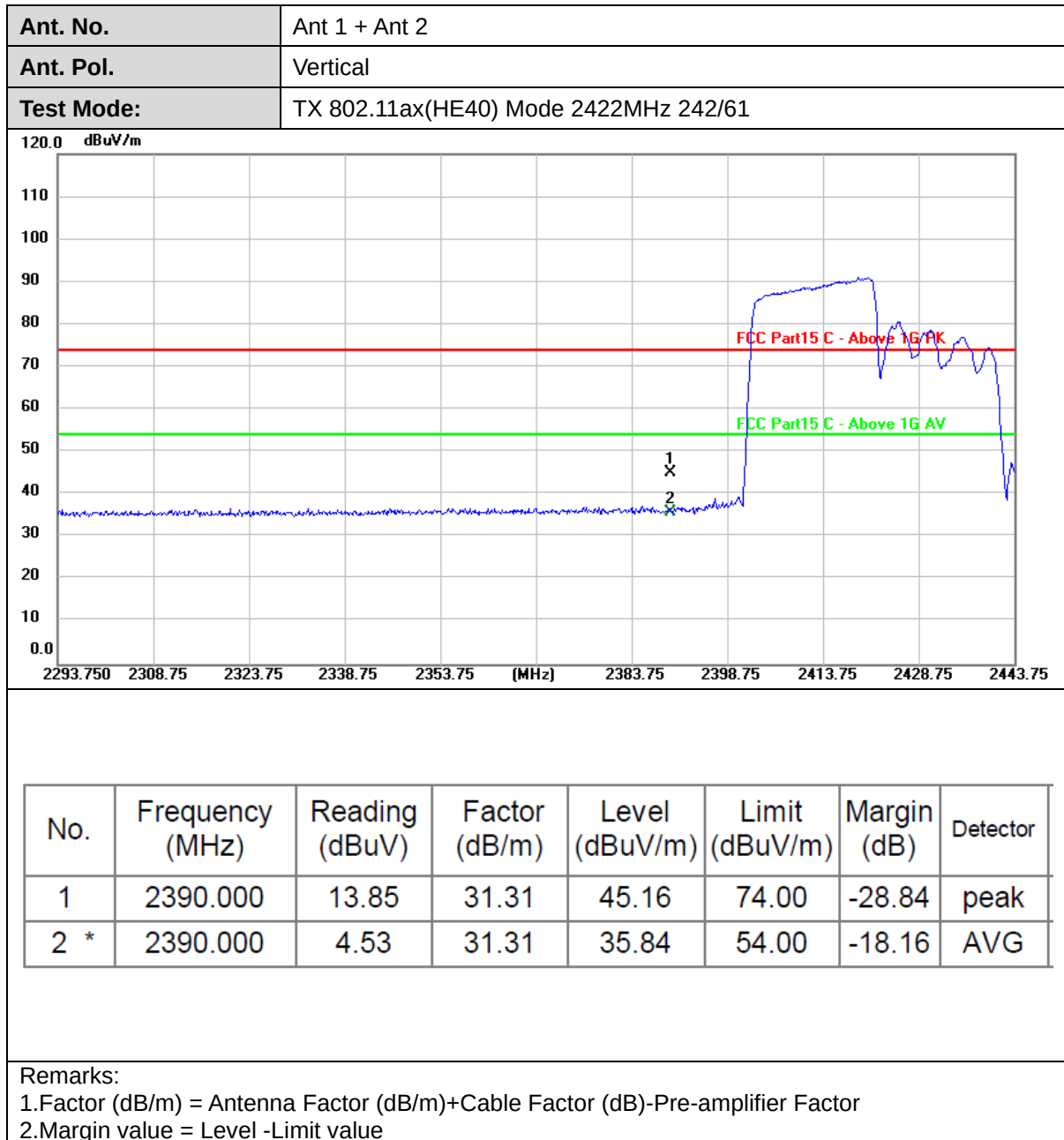


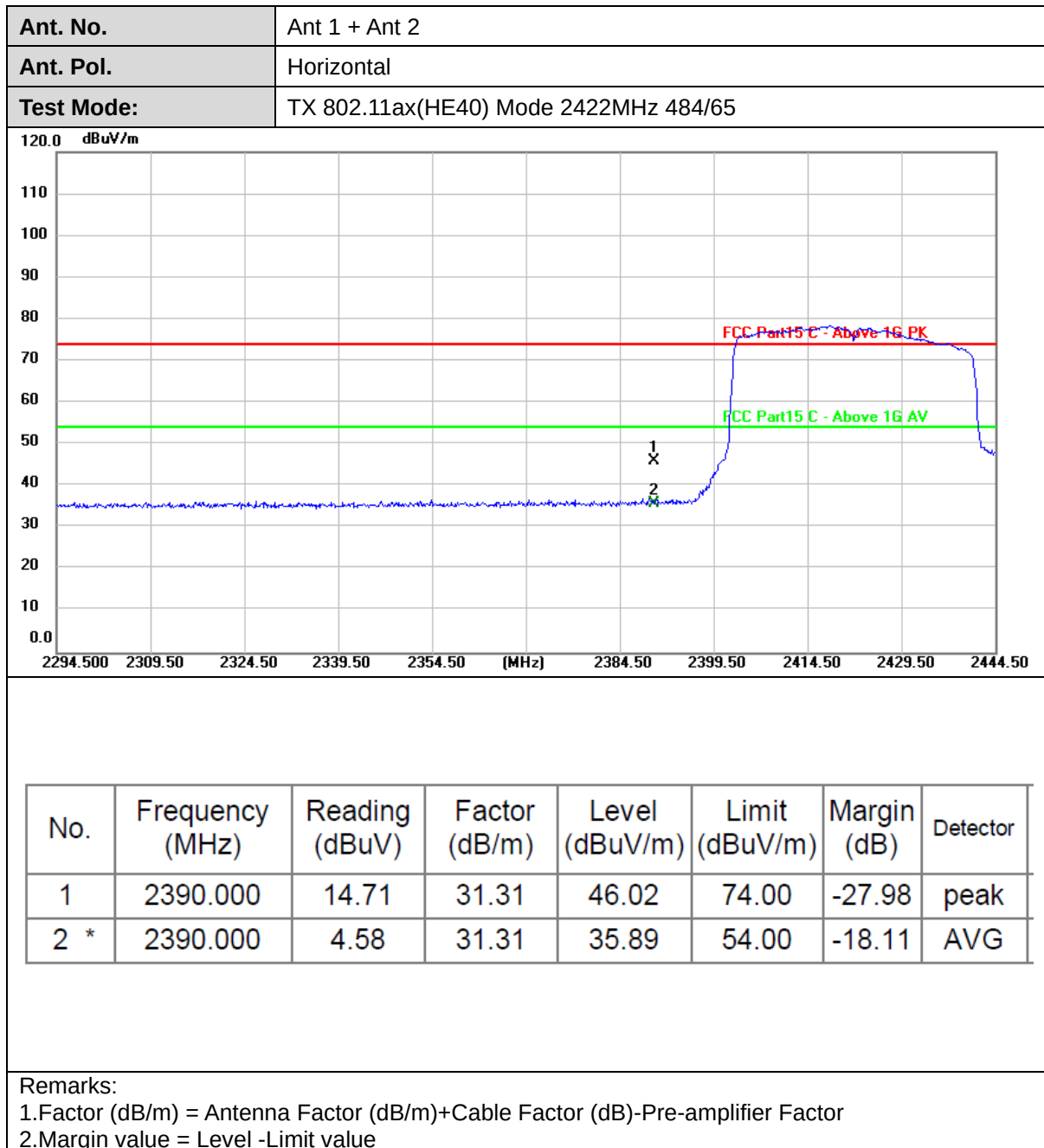


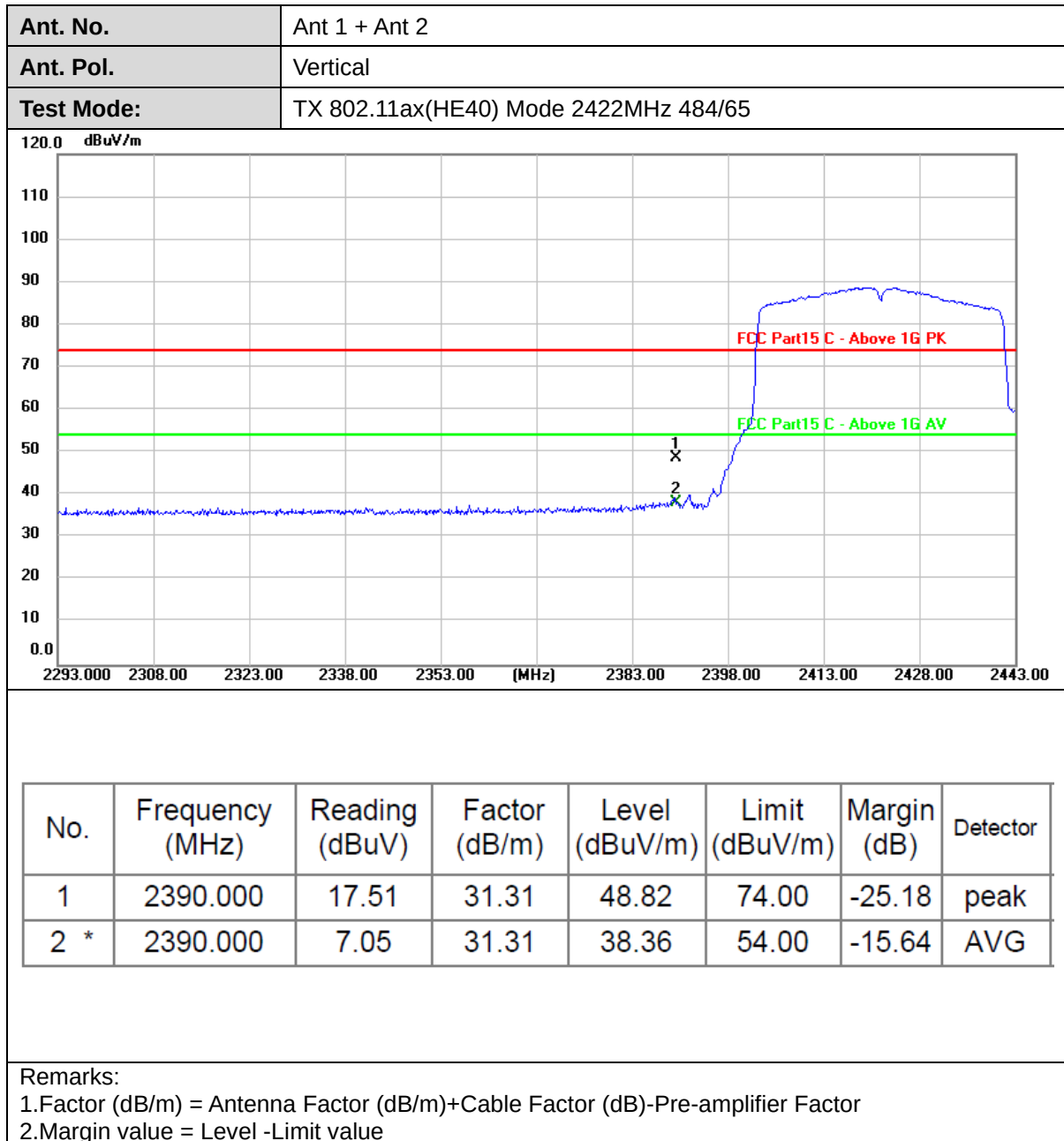


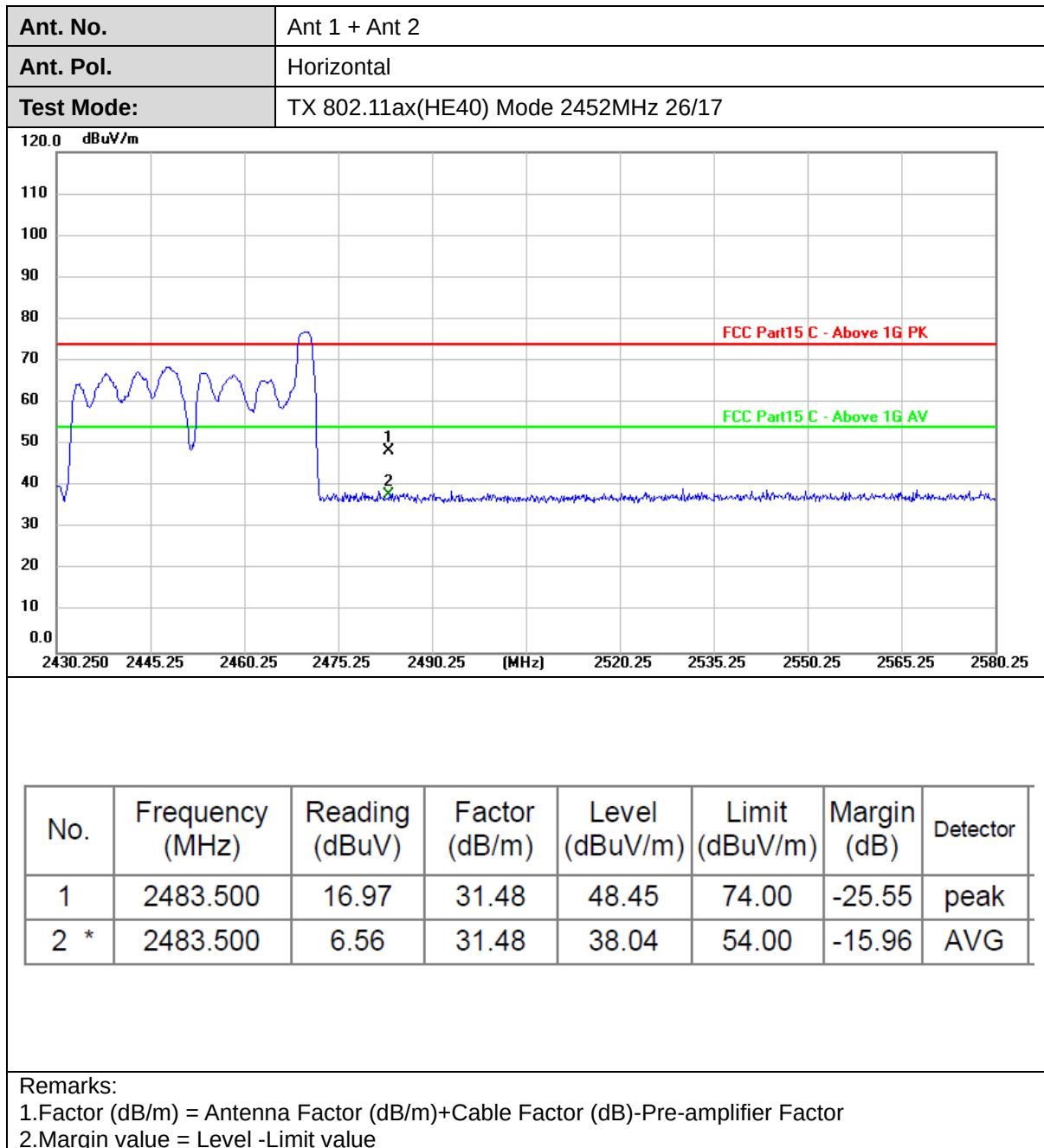


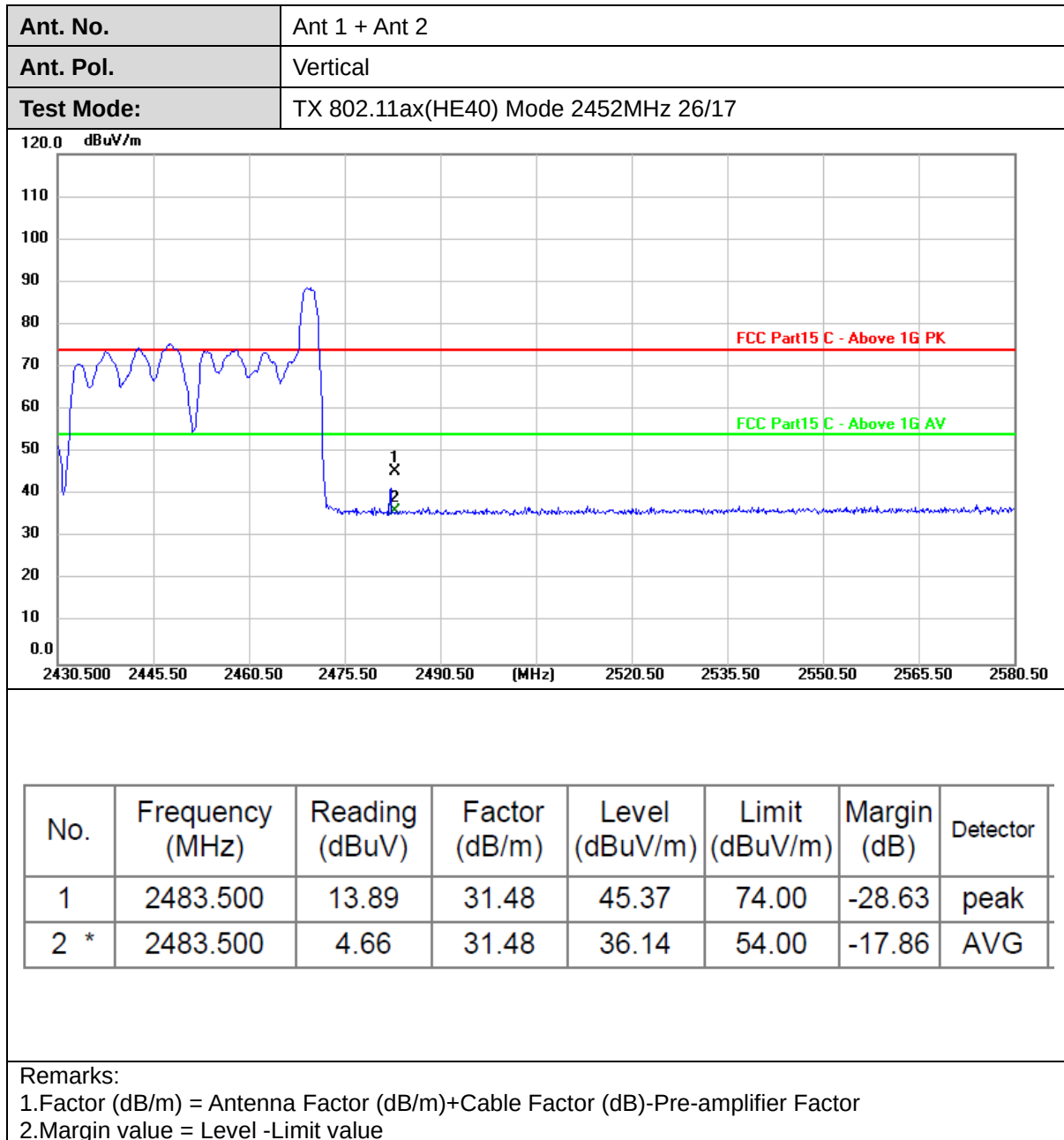


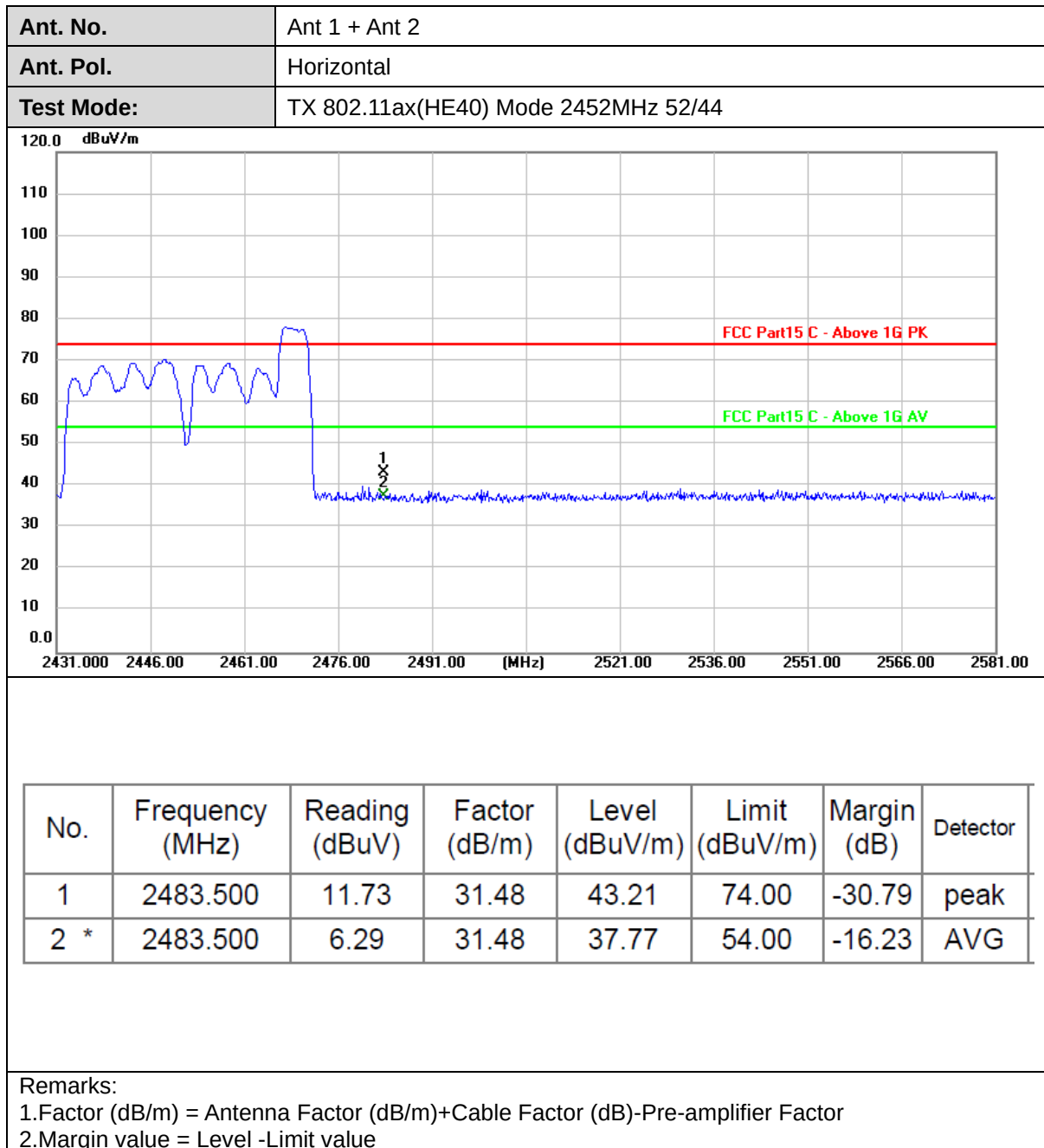


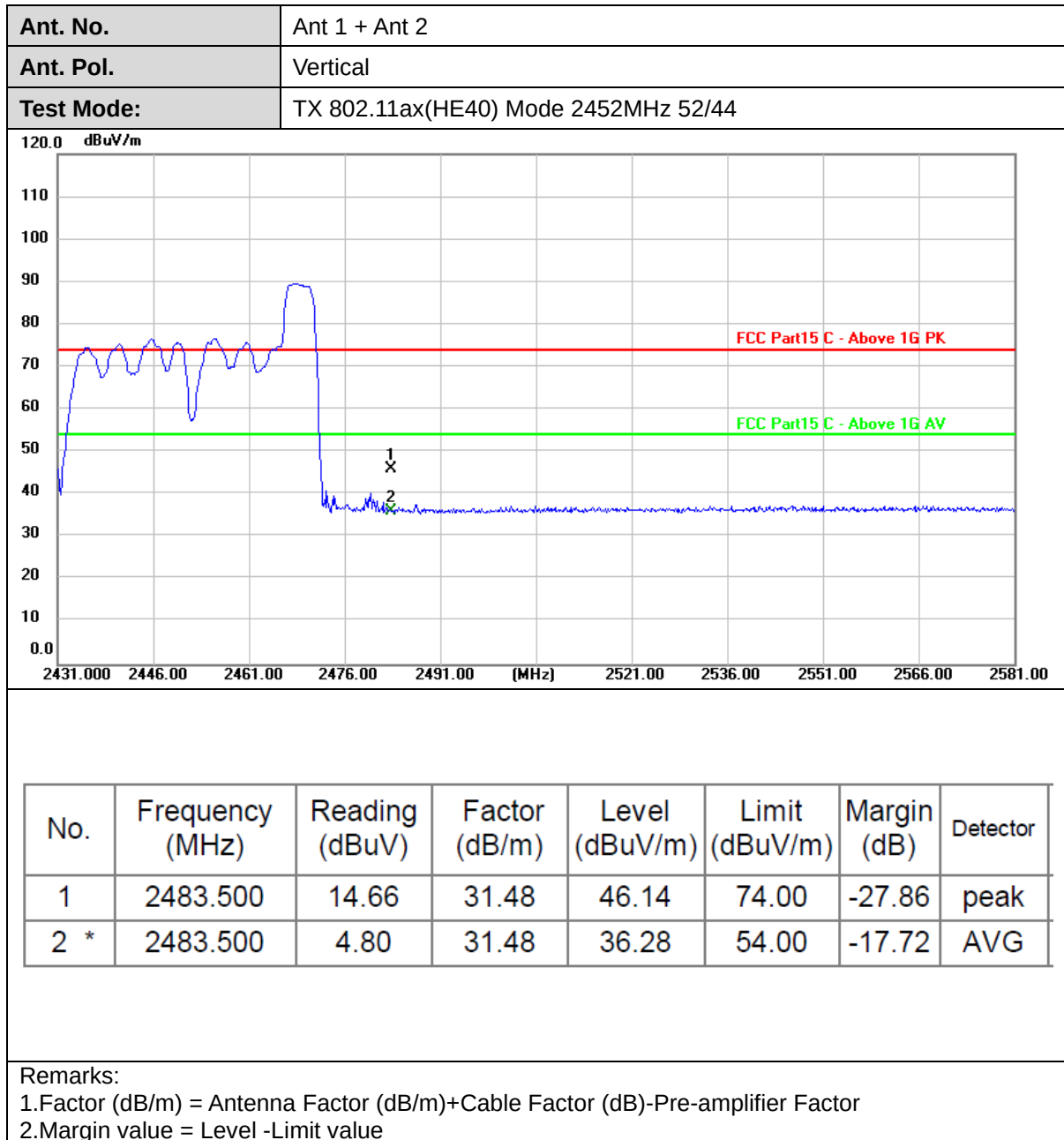


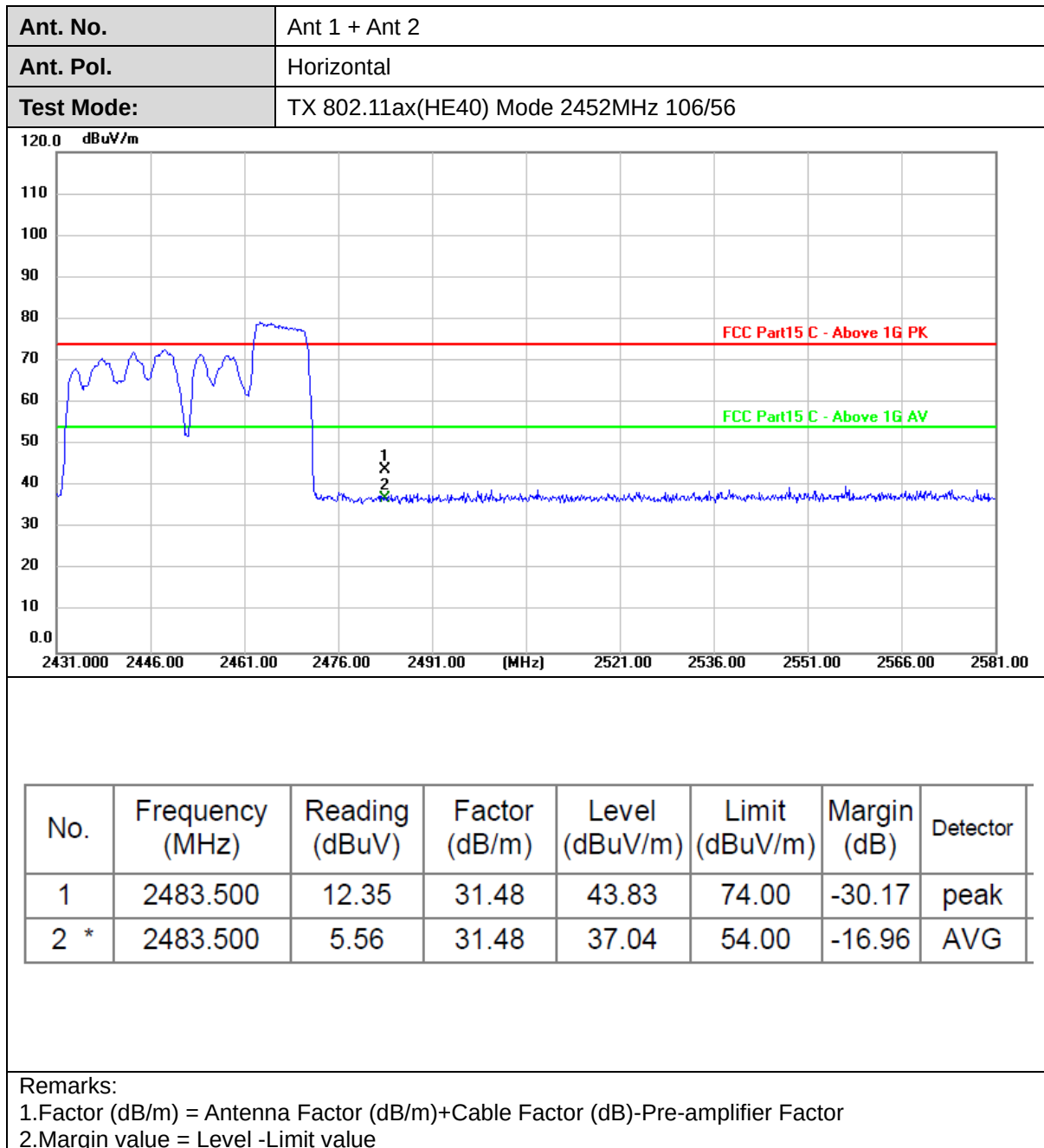


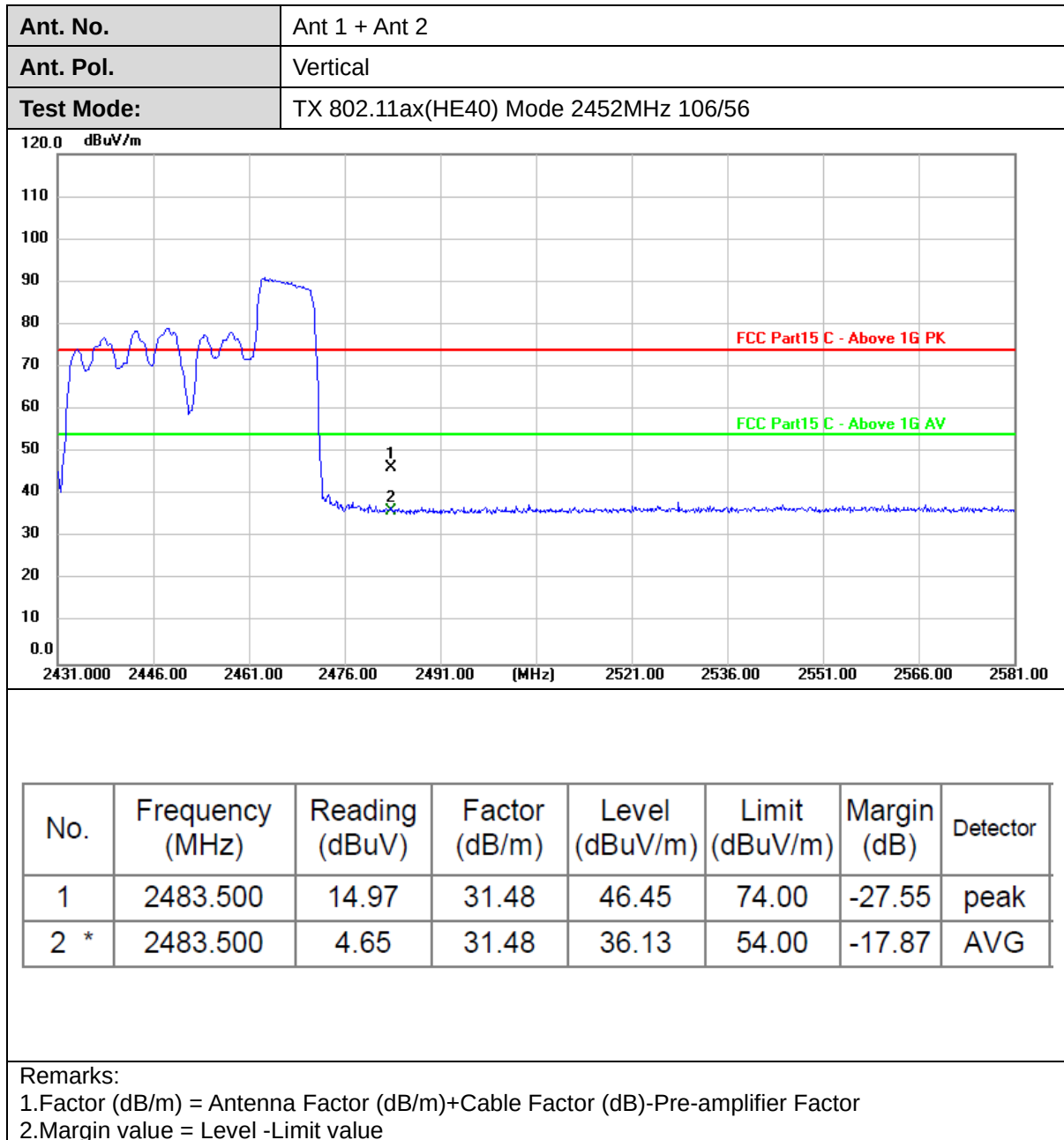


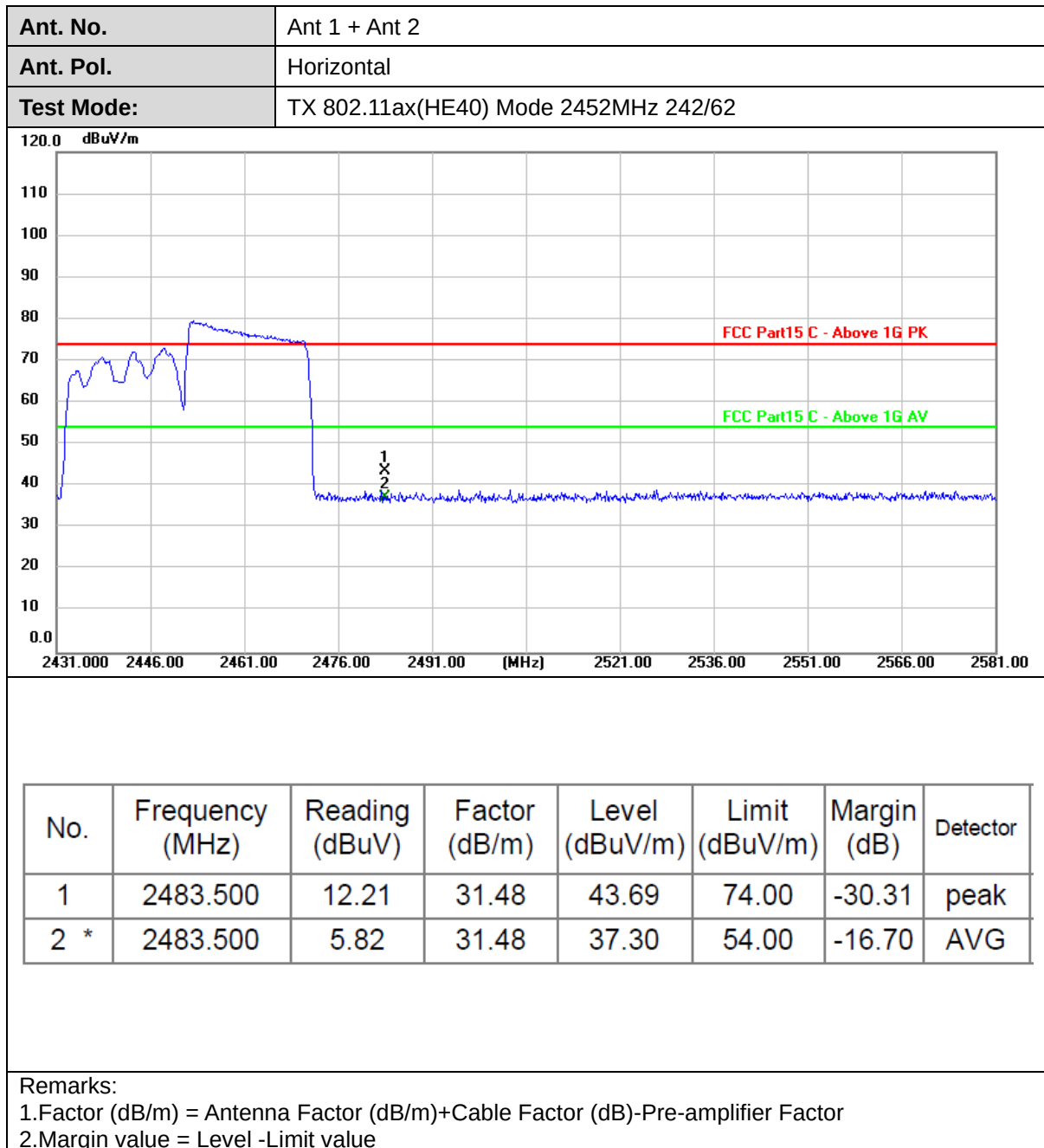


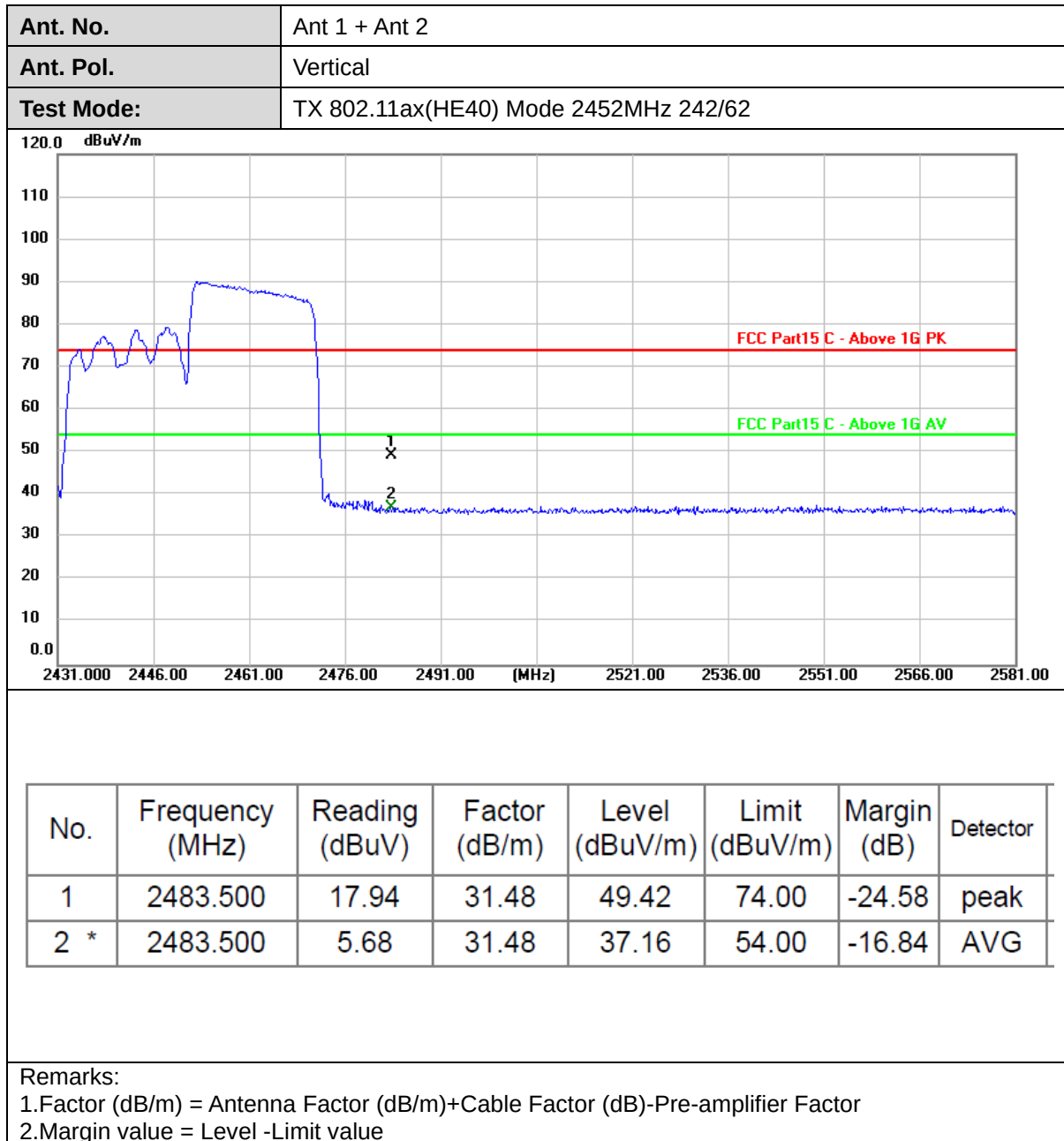


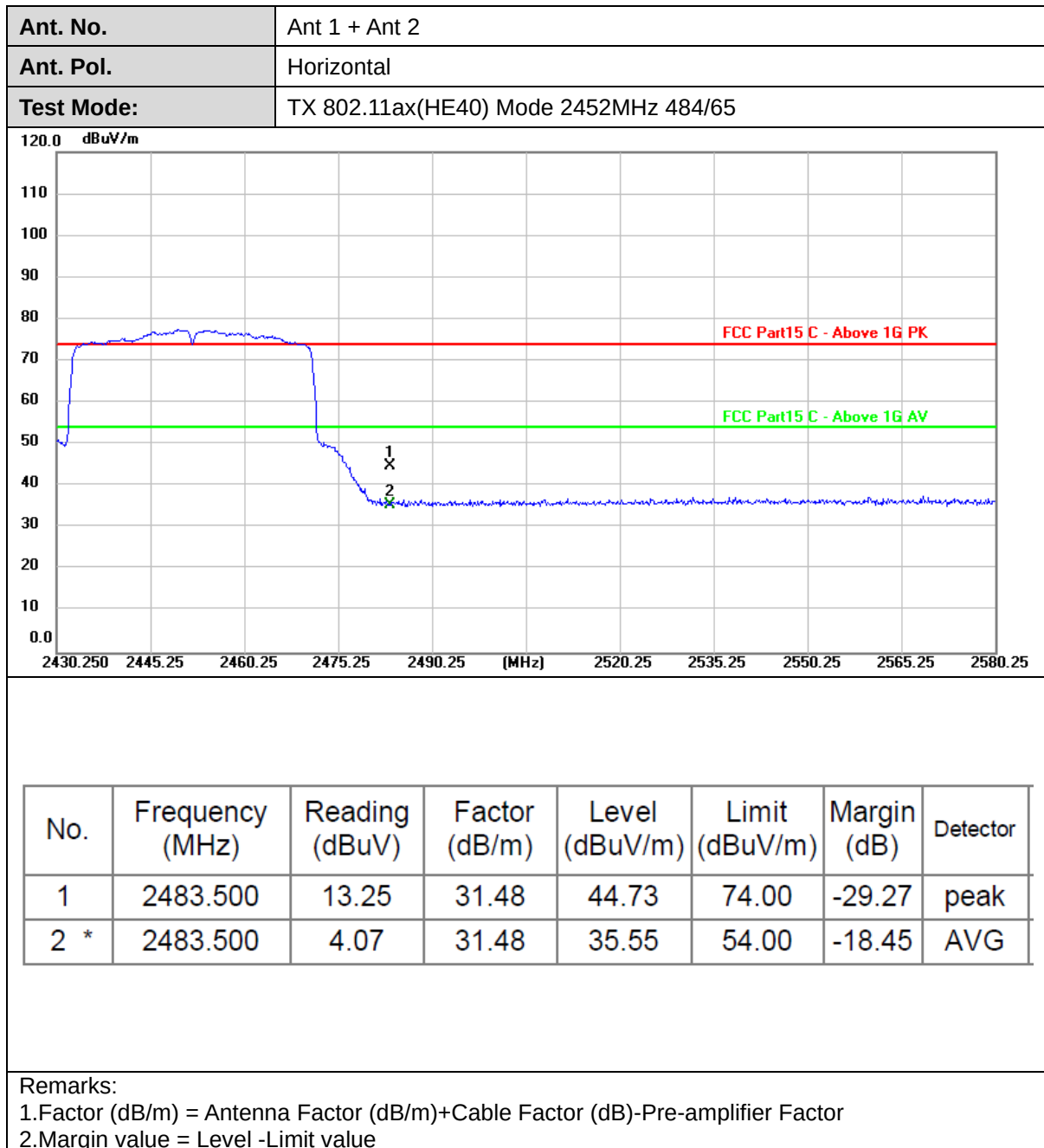


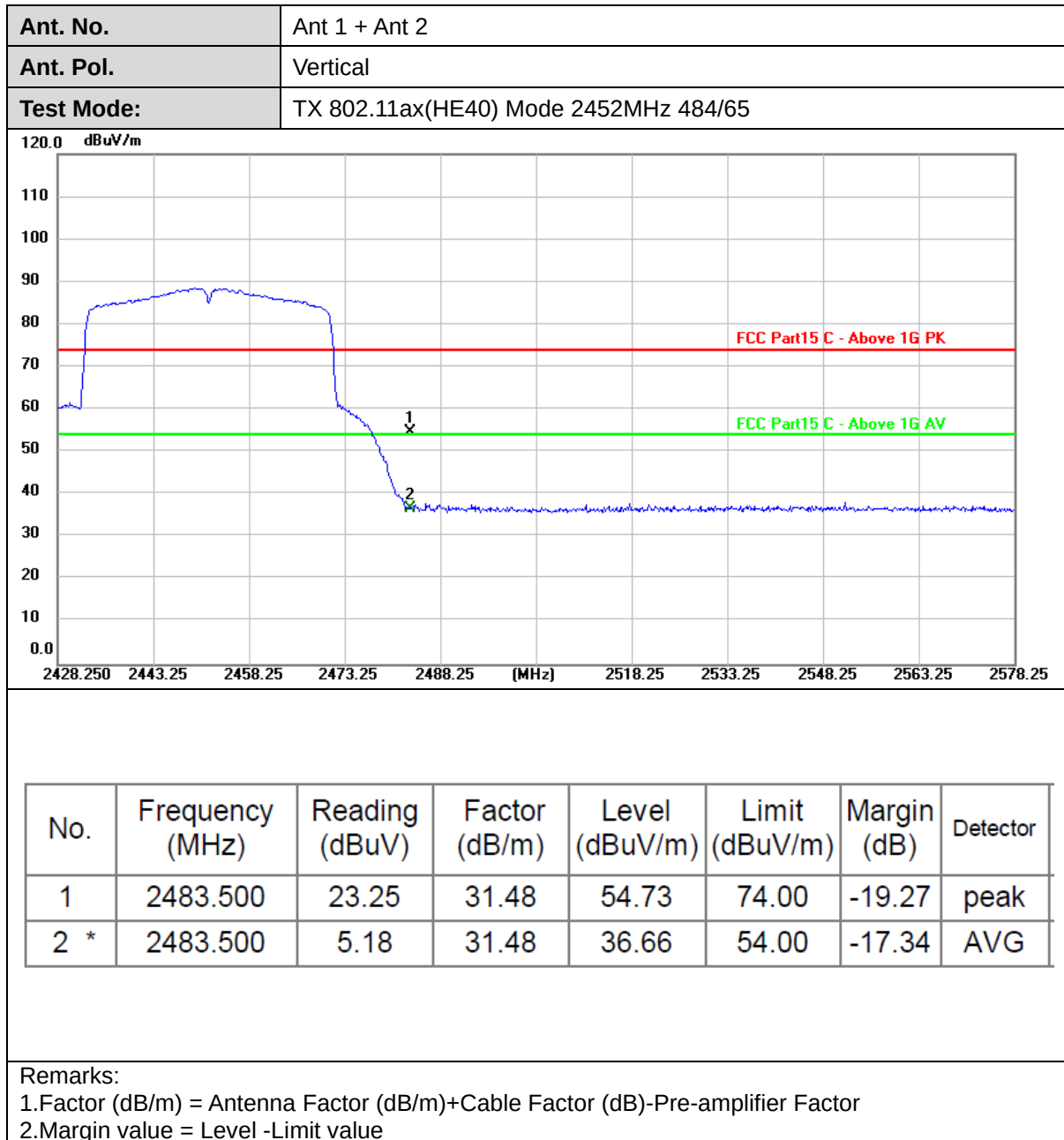














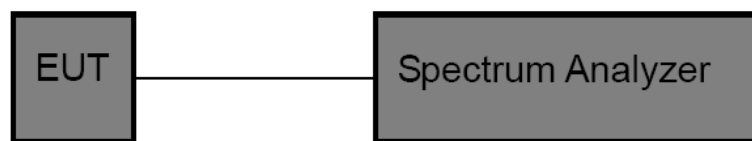
3.4. Band Edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW = 100 kHz, VBW $\geq$ RBW, scan up through 10th harmonic.
Sweep = auto, Detector function = peak, Trace = max hold.
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

**Test Result****(1) Band Edge Conducted Test & Conducted Spurious Emissions Test**

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	0	2400.00	-53.066	-35.78	PASS
			2393.98	-50.367	-35.78	PASS
			4823.70	-42.152	-35.78	PASS
		1	2400.00	-50.446	-35.76	PASS
			4823.74	-41.859	-35.76	PASS
			4874.30	-40.107	-34.93	PASS
	6	0	4874.30	-39.695	-35.21	PASS
		1	2483.50	-54.469	-33.07	PASS
	11	0	4924.24	-35.997	-33.07	PASS
			2483.50	-53.705	-33.45	PASS
		1	4924.24	-35.819	-33.45	PASS
			2400.00	-46.584	-31.93	PASS
IEEE 802.11g	1	0	2398.92	-45.426	-31.93	PASS
			4823.70	-42.297	-31.93	PASS
			2400.00	-45.567	-31.77	PASS
		1	2396.97	-45.368	-31.77	PASS
			4823.70	-40.724	-31.77	PASS
			4873.68	-39.784	-31.33	PASS
	6	0	4873.05	-37.425	-31.59	PASS
		1	2483.50	-50.192	-29.49	PASS
	11	0	4922.99	-35.314	-29.49	PASS
			2483.50	-48.929	-29.7	PASS
		1	4924.87	-36.944	-29.7	PASS
			2400.00	-46.947	-32.45	PASS
IEEE 802.11n_20	1	0	2398.79	-46.671	-32.45	PASS
			23591.0	-42.971	-32.45	PASS
			2400.00	-46.152	-32.42	PASS
		1	2396.97	-45.486	-32.42	PASS
			4819.40	-42.192	-32.42	PASS
			4876.17	-39.424	-31.4	PASS
	6	0	4873.05	-38.357	-31.09	PASS
		1	2483.50	-39.706	-30.03	PASS
	11	0	4921.75	-36.447	-30.03	PASS
			2483.50	-39.881	-29.88	PASS
		1	4921.75	-34.269	-29.88	PASS
			2400.00	-45.401	-31.88	PASS
IEEE 802.11n_40	3	0	2395.80	-36.447	-31.88	PASS
			4845.60	-38.611	-31.88	PASS
			2400.00	-40.721	-31.51	PASS
		1	4845.58	-38.184	-31.51	PASS
			4875.55	-36.420	-31.75	PASS
			4874.30	-40.263	-31.63	PASS
	6	0	2483.50	-43.222	-31.75	PASS
		1	4903.02	-36.597	-31.75	PASS
	9	0	2483.50	-52.900	-31.74	PASS
			4897.40	-40.745	-31.74	PASS
		1	2483.50	-52.900	-31.74	PASS
			4897.40	-40.745	-31.74	PASS



Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Result
IEEE 802.11ax_20	1	26RU0	0	2400.00	-52.907	-35.72	PASS
				2349.26	-51.424	-35.72	PASS
				24917.0	-43.222	-35.72	PASS
			1	2400.00	-52.217	-35.76	PASS
				2379.68	-51.204	-35.76	PASS
				24860.2	-42.881	-35.76	PASS
		52RU37	0	2400.00	-51.590	-35.99	PASS
				2340.94	-51.333	-35.99	PASS
				24907.0	-43.277	-35.99	PASS
			1	2400.00	-52.168	-34.56	PASS
				2314.16	-51.024	-34.56	PASS
				24849.6	-43.367	-34.56	PASS
		106RU53	0	2400.00	-44.573	-29.89	PASS
				4813.75	-36.841	-29.89	PASS
				2400.00	-42.313	-29.04	PASS
			1	4824.98	-37.483	-29.04	PASS
				2400.00	-34.937	-29.81	PASS
				4820.61	-40.057	-29.81	PASS
		242RU61	0	2400.00	-47.570	-30.45	PASS
				2396.97	-47.046	-30.45	PASS
				4820.60	-41.510	-30.45	PASS
			1	4874.93	-36.903	-30.15	PASS
				4877.42	-39.330	-30.35	PASS
				2483.50	-52.370	-35.34	PASS
	6	26RU8	0	23575.4	-43.064	-35.34	PASS
				2483.50	-53.765	-34.59	PASS
				24891.4	-42.938	-34.59	PASS
			1	2483.50	-52.877	-30.39	PASS
				4922.99	-41.704	-30.39	PASS
				2483.50	-53.160	-28.98	PASS
		52RU40	0	4937.98	-38.825	-28.98	PASS
				2483.50	-53.172	-27.69	PASS
				4925.49	-37.053	-27.69	PASS
			1	2483.50	-52.125	-28.32	PASS
				4935.48	-35.102	-28.32	PASS
				2483.50	-44.032	-29.57	PASS
		106RU54	0	4925.49	-36.891	-29.57	PASS
				2483.50	-51.815	-30.13	PASS
				4921.12	-40.207	-30.13	PASS
		242RU61	0	2400.00	-43.898	-31.1	PASS
				2398.01	-38.901	-31.1	PASS
				23732.1	-43.440	-31.1	PASS
	11	26RU0	0	2400.00	-52.393	-30.18	PASS
				2396.97	-50.331	-30.18	PASS
				4808.10	-41.965	-30.18	PASS
			1	2400.00	-53.544	-35.23	PASS
				2359.92	-51.480	-35.23	PASS
				23759.0	-43.062	-35.23	PASS
		52RU37	0	2400.00	-53.789	-34.89	PASS
				2397.62	-51.550	-34.89	PASS
				23205.2	-42.528	-34.89	PASS
			1	2400.00	-48.961	-34.91	PASS
				2396.45	-43.867	-34.91	PASS
				23723.4	-42.240	-34.91	PASS
		106RU53	0	2400.00	-53.340	-34.14	PASS
				2395.67	-49.012	-34.14	PASS
				24700.4	-43.212	-34.14	PASS
			1	2400.00	-42.349	-33.93	PASS
				2395.54	-41.503	-33.93	PASS
				23768.3	-42.859	-33.93	PASS
IEEE 802.11ax_40	3	26RU0	0	2400.00	-53.334	-32.44	PASS
			1				
		52RU37	0				
			1				
		106RU53	0				
			1				
		242RU61	0				
			1				

CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

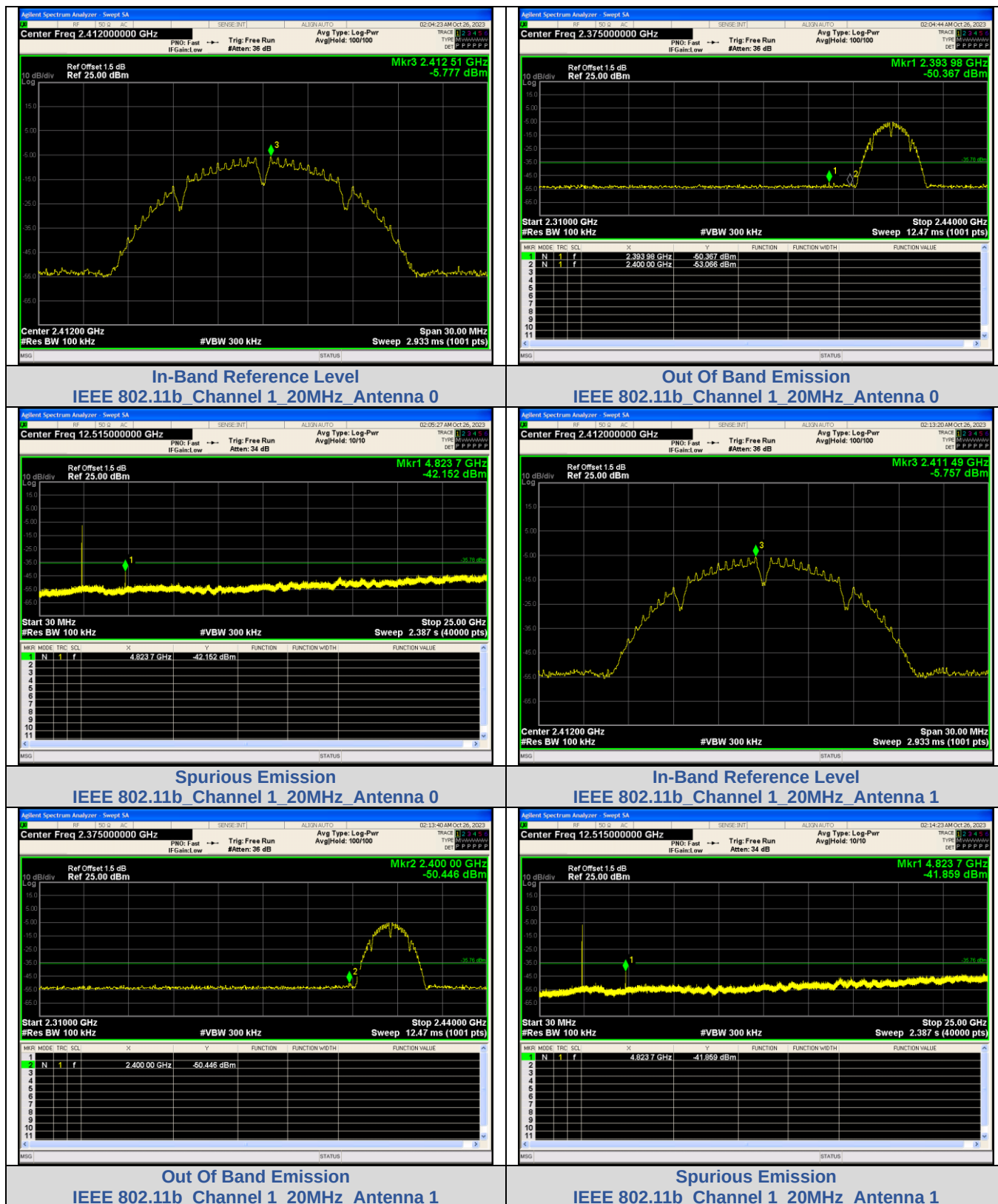
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



		484RU65	0	2395.80	-49.895	-32.44	PASS
				21869.9	-42.717	-32.44	PASS
				2400.00	-44.359	-32.96	PASS
				2395.02	-42.256	-32.96	PASS
				4845.60	-40.979	-32.96	PASS
				2400.00	-41.231	-32.96	PASS
	6	484RU65	1	4842.46	-40.118	-32.96	PASS
				4886.16	-41.458	-33.04	PASS
				4872.43	-38.391	-33.0	PASS
				2483.50	-54.313	-34.02	PASS
	9	26RU17	0	24855.2	-43.017	-34.02	PASS
				2483.50	-53.157	-35.03	PASS
				22817.6	-43.283	-35.03	PASS
		52RU44	0	2483.50	-53.281	-35.14	PASS
				24873.3	-42.876	-35.14	PASS
				2483.50	-53.800	-33.74	PASS
		106RU56	1	23614.1	-43.167	-33.74	PASS
				2483.50	-50.962	-34.2	PASS
				23737.7	-43.622	-34.2	PASS
			0	2483.50	-51.707	-32.64	PASS
				24879.5	-43.431	-32.64	PASS
				2483.50	-49.046	-32.9	PASS
		242RU62	0	24790.9	-42.160	-32.9	PASS
				2483.50	-54.088	-33.53	PASS
			1	24812.1	-42.636	-33.53	PASS
				2483.50	-45.512	-33.18	PASS
		484RU65	0	4903.02	-37.933	-33.18	PASS
				2483.50	-53.331	-33.2	PASS
			1	4903.02	-38.467	-33.2	PASS



Test plot as follows:



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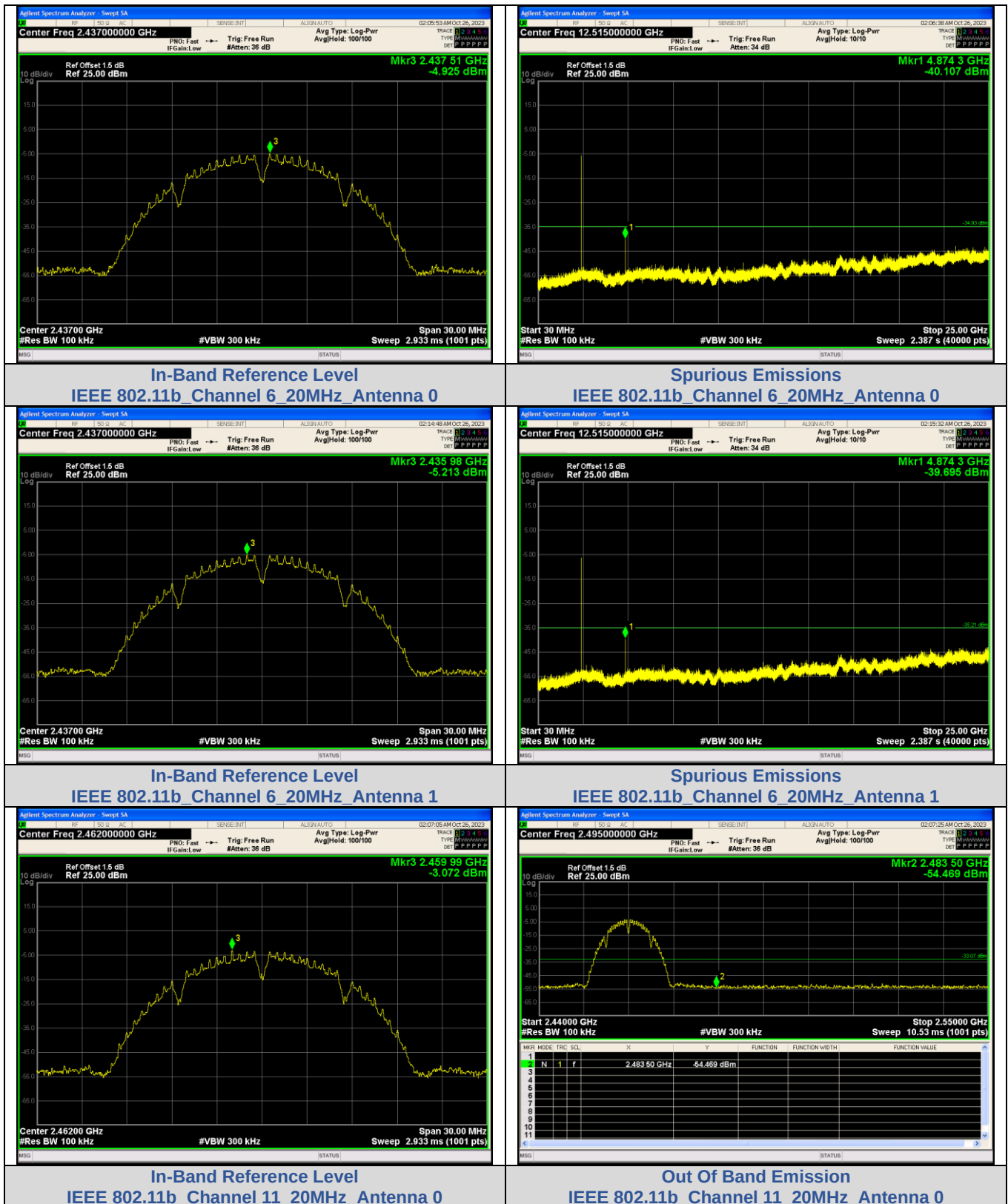
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