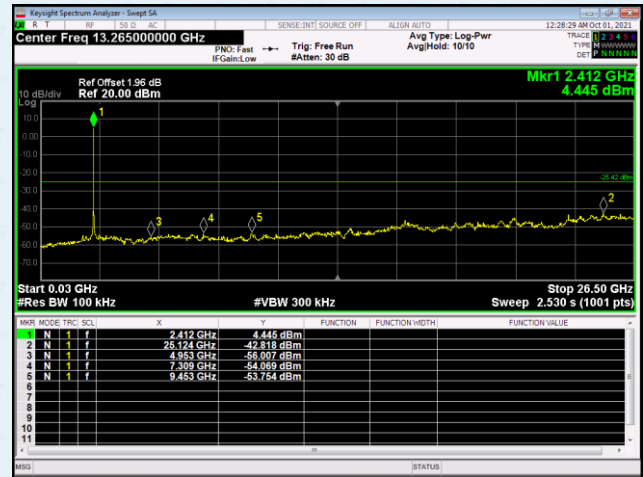
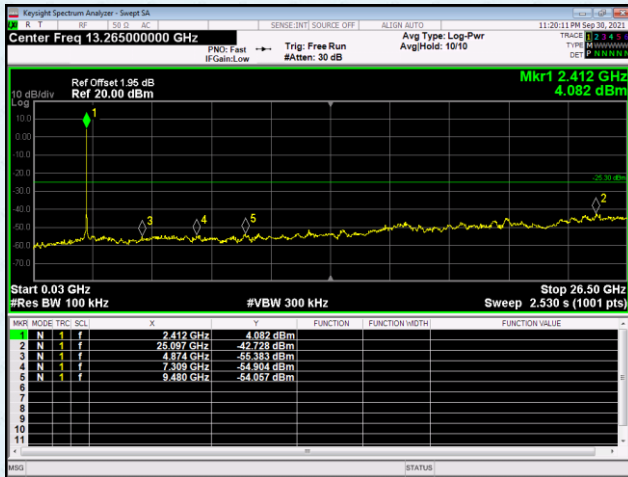
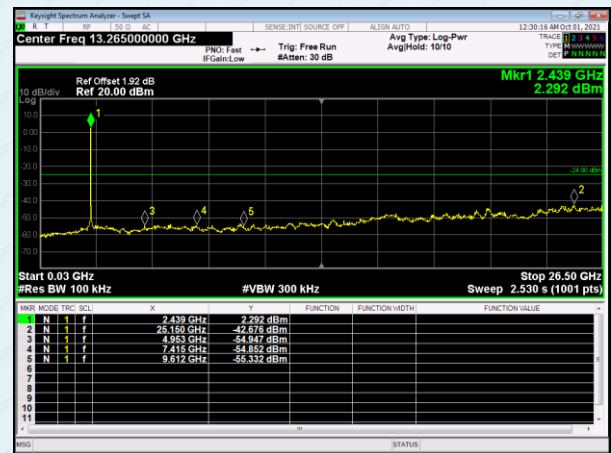
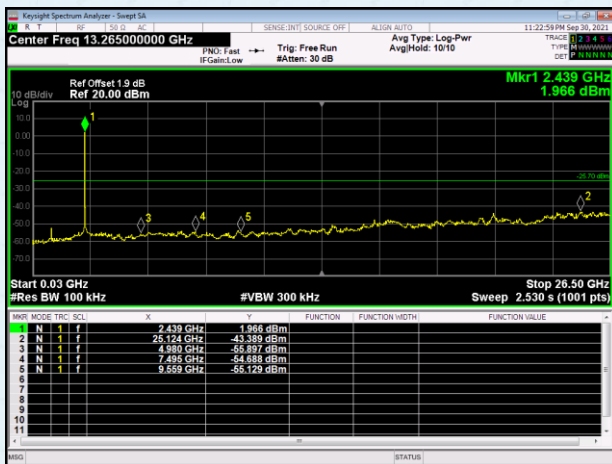


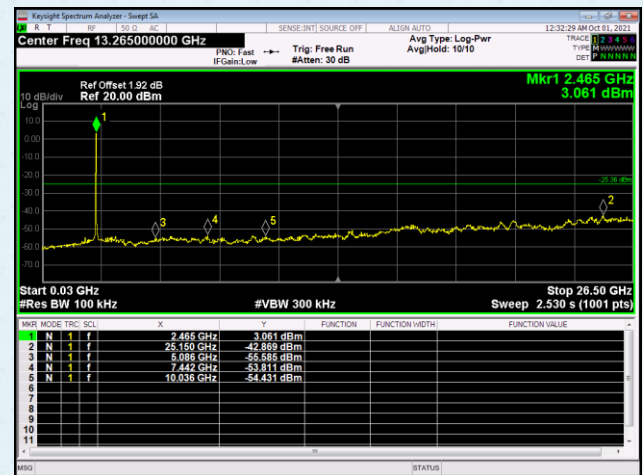
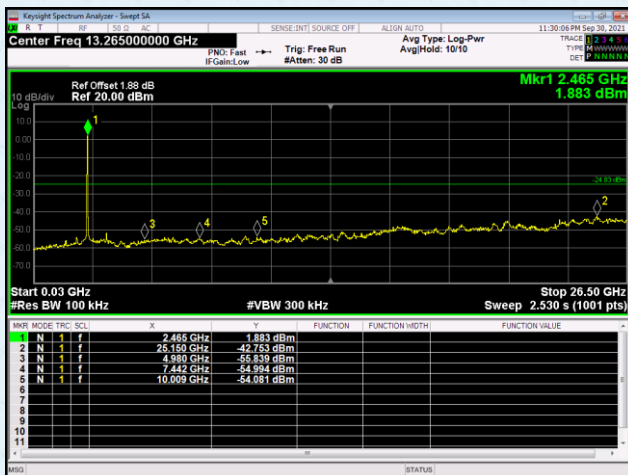
Test mode:	802.11n (HT20) Ant A	Test mode:	802.11n (HT20) (Ant B)
------------	----------------------	------------	------------------------



Lowest channel

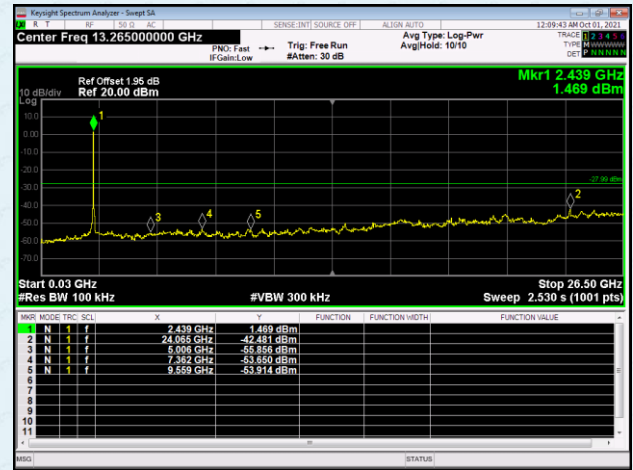
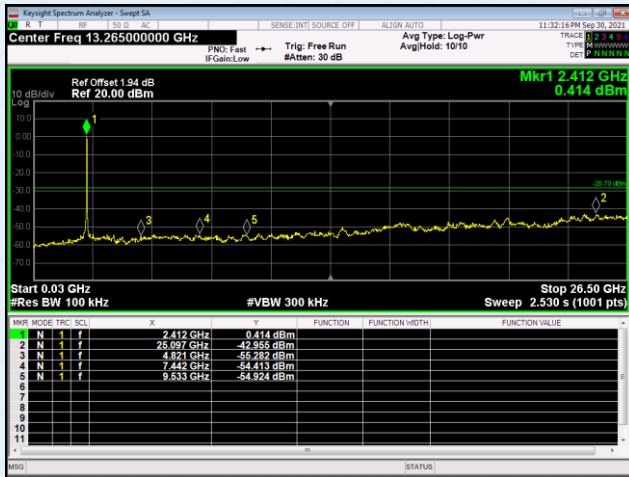


Middle channel

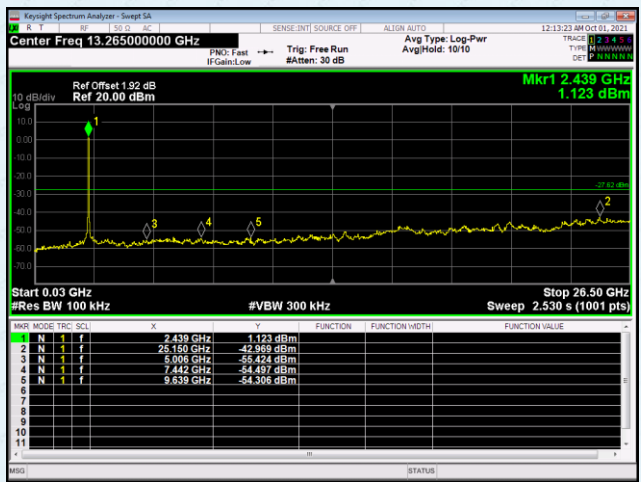
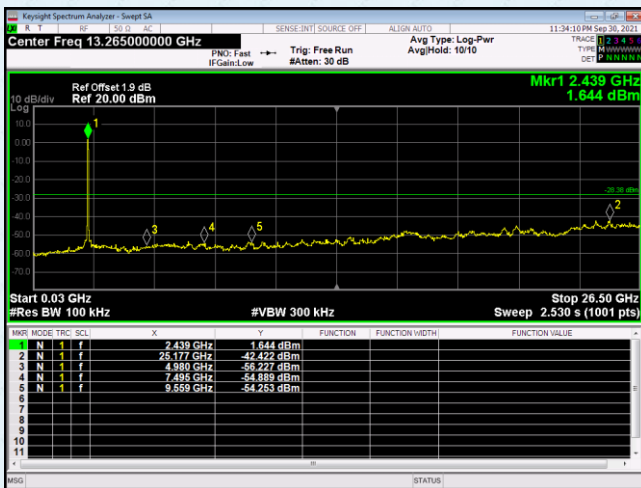


Highest channel

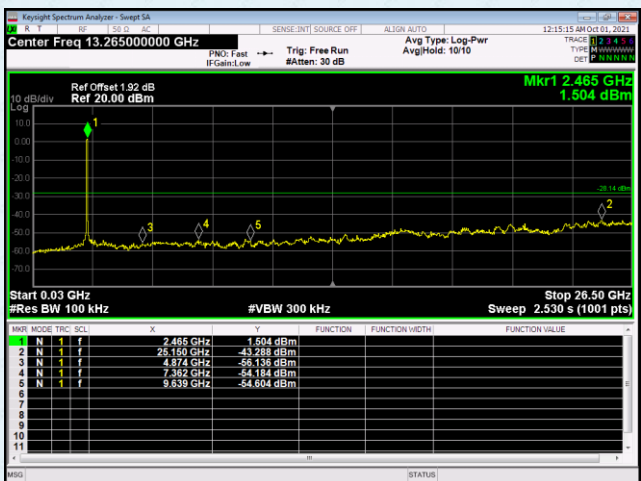
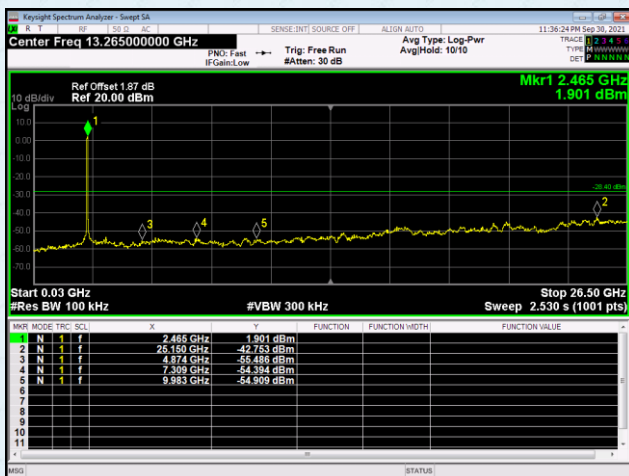
Test mode:	802.11n (HT40) Ant A	Test mode:	802.11n (HT40) (Ant B)
------------	----------------------	------------	------------------------



Lowest channel

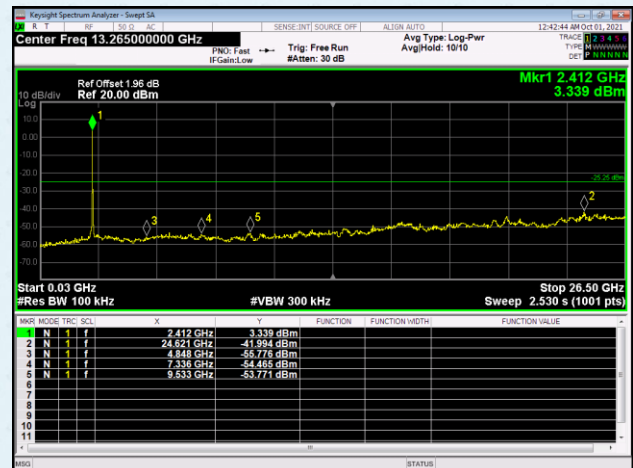
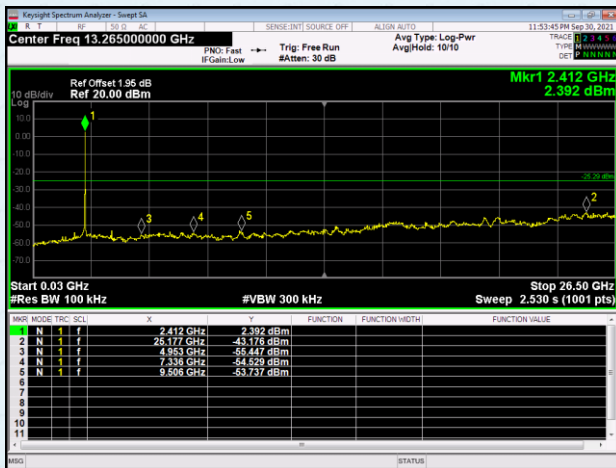


Middle channel

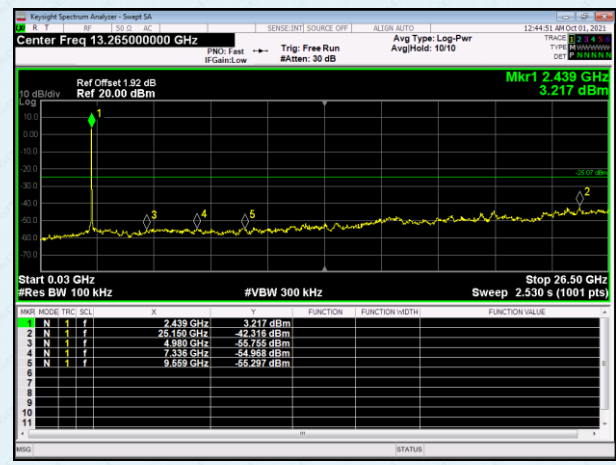
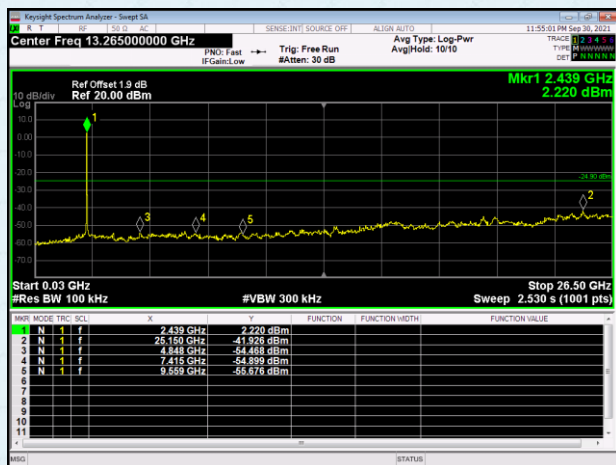


Highest channel

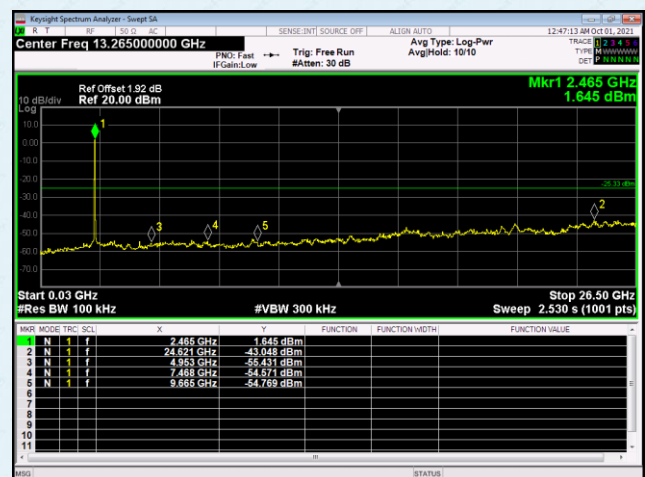
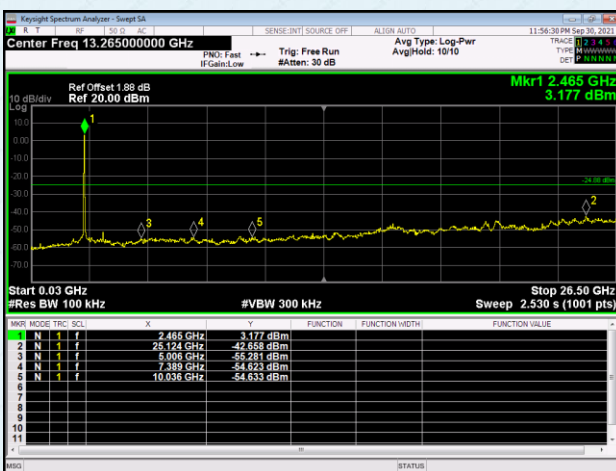
Test mode:	802.11ax (HE20) Ant A	Test mode:	802.11ax (HE20) (Ant B)
------------	-----------------------	------------	-------------------------



Lowest channel

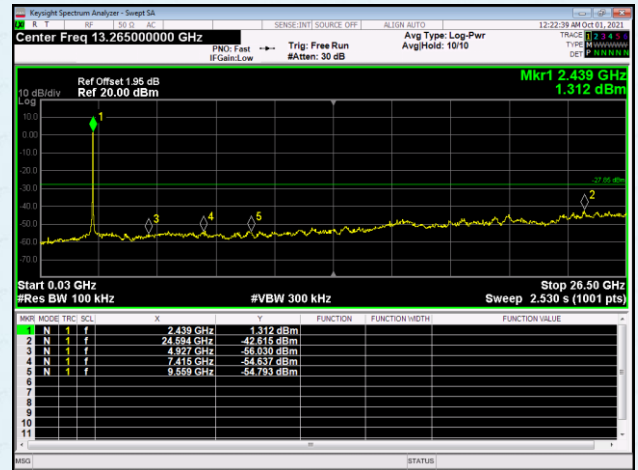
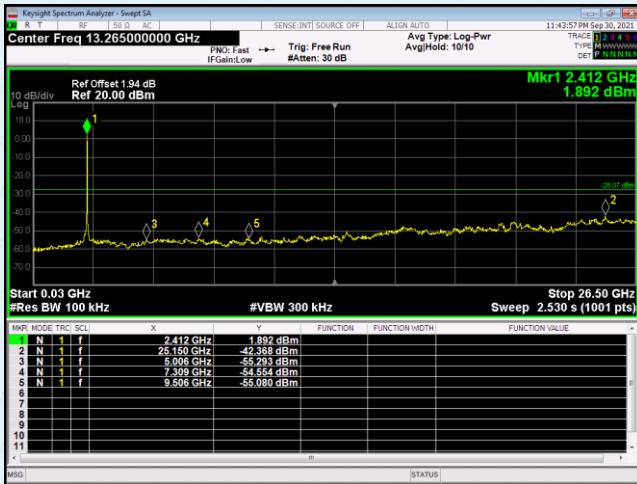


Middle channel

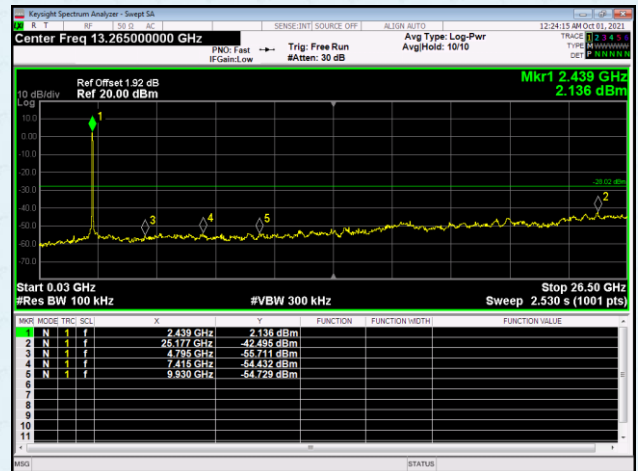
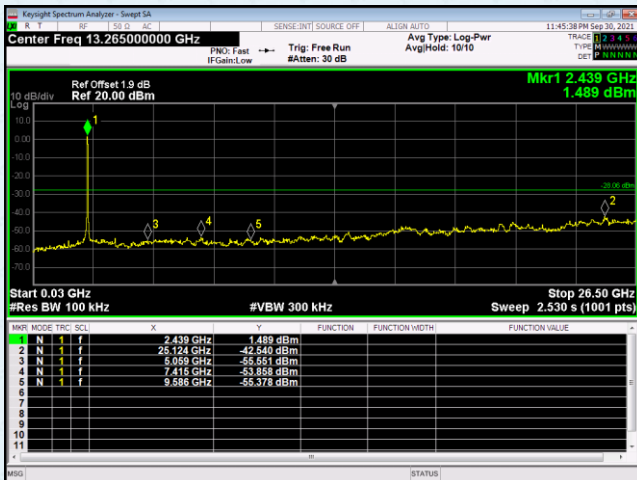


Highest channel

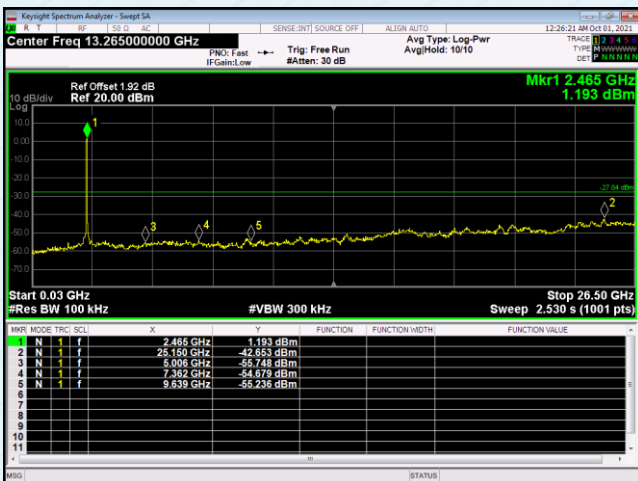
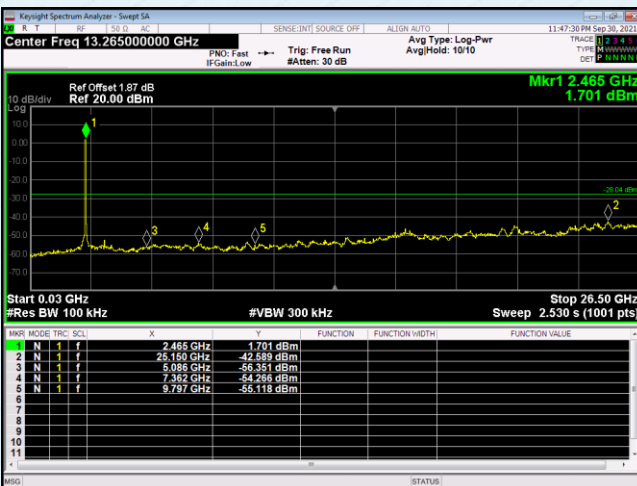
Test mode:	802.11ax (HE40) Ant A	Test mode:	802.11ax (HE40) (Ant B)
------------	-----------------------	------------	-------------------------



Lowest channel

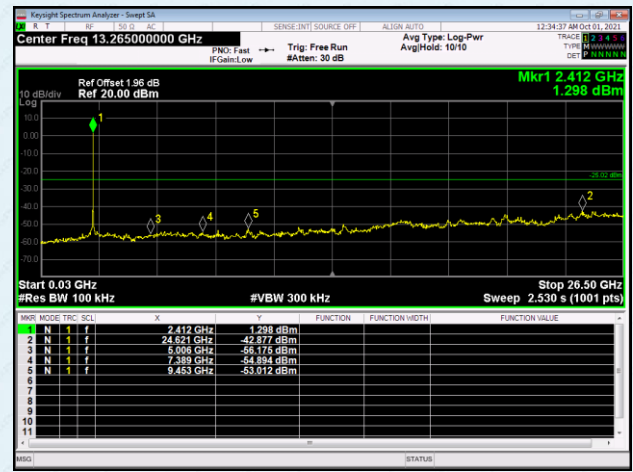
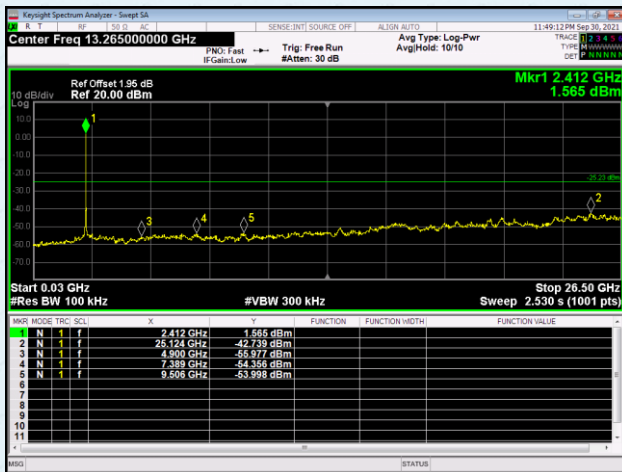


Middle channel

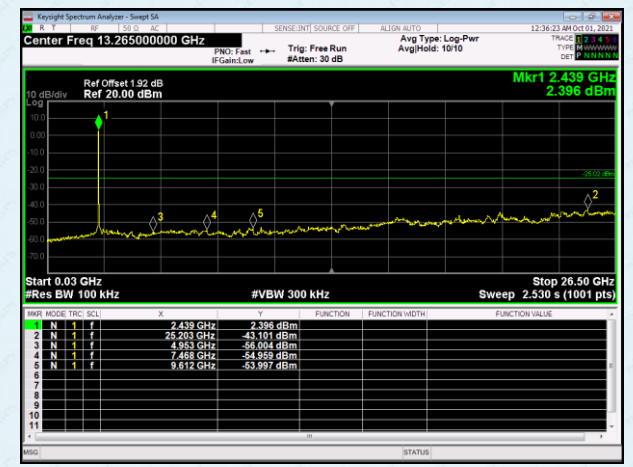
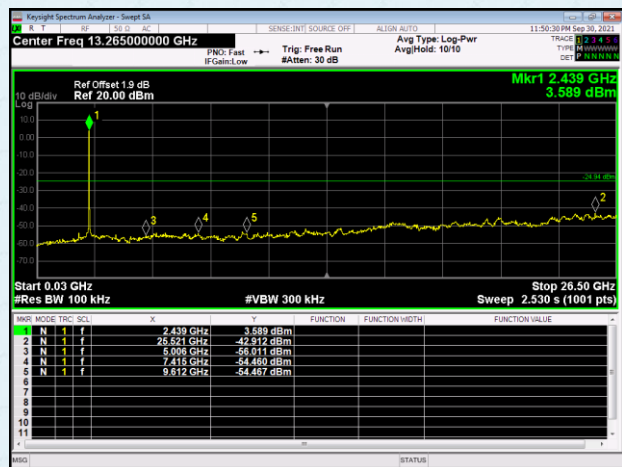


Highest channel

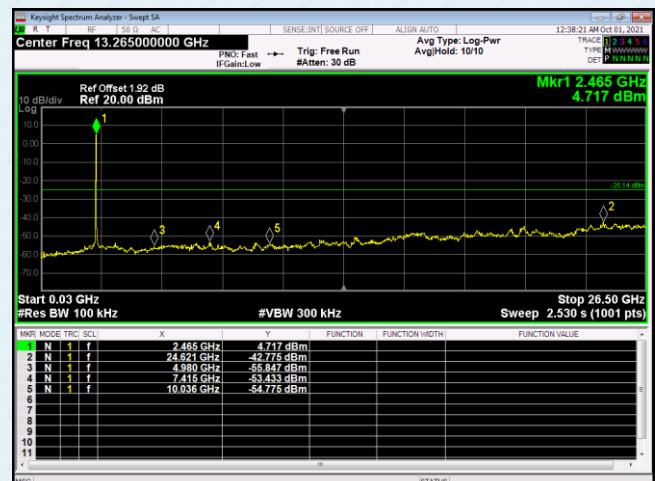
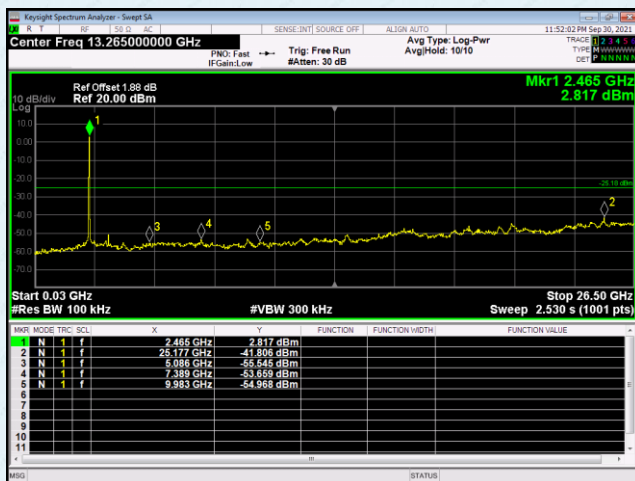
Test mode:	IEEE VHT20 Ant A	Test mode:	IEEE VHT20 (Ant B)
------------	------------------	------------	--------------------



Lowest channel

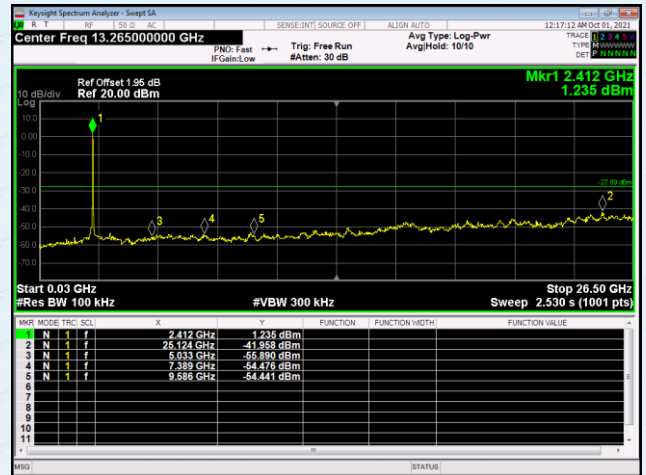
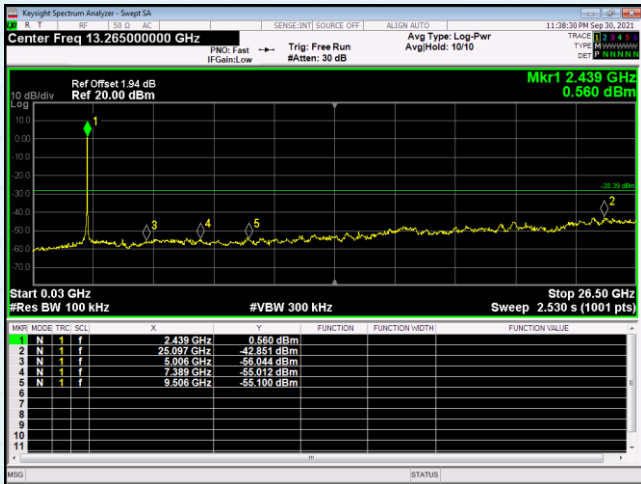


Middle channel

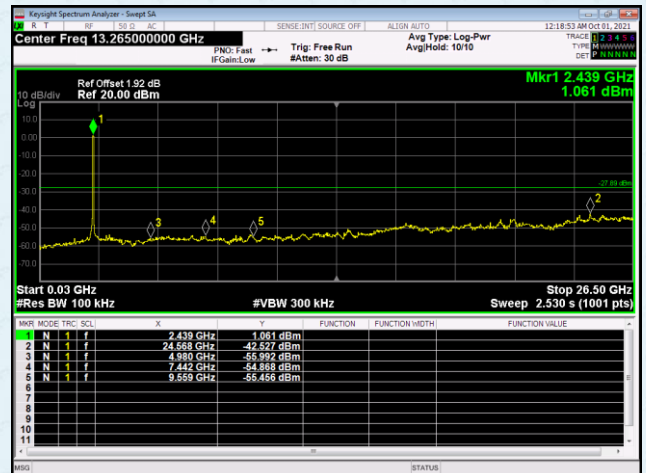
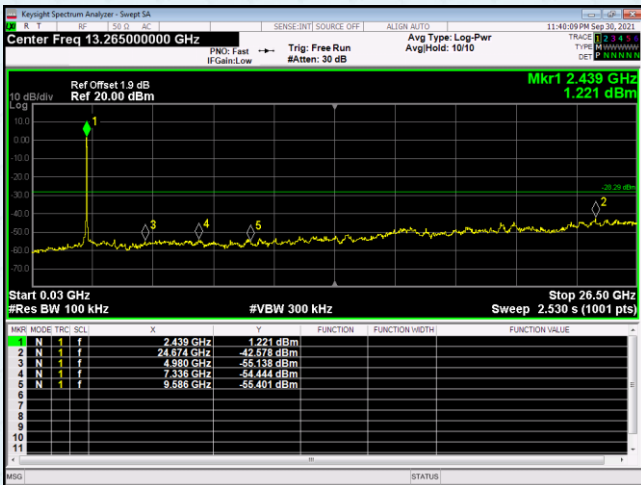


Highest channel

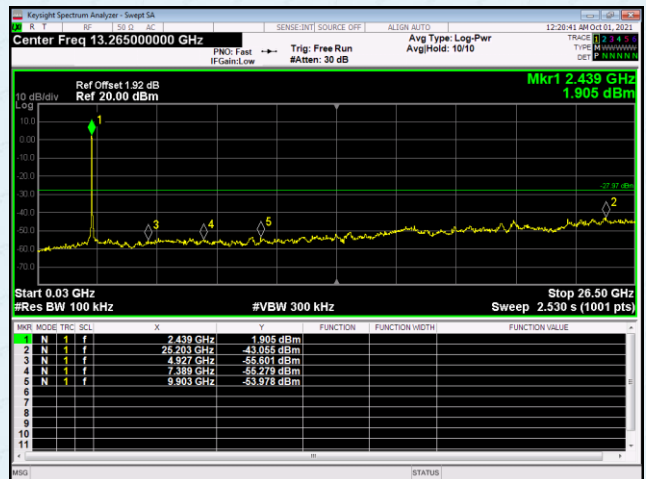
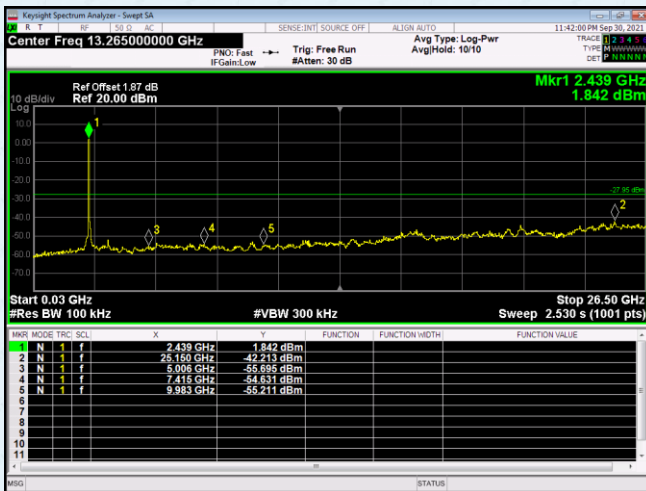
Test mode:	IEEE VHT40 Ant A	Test mode:	IEEE VHT40 (Ant B)
------------	------------------	------------	--------------------



Lowest channel

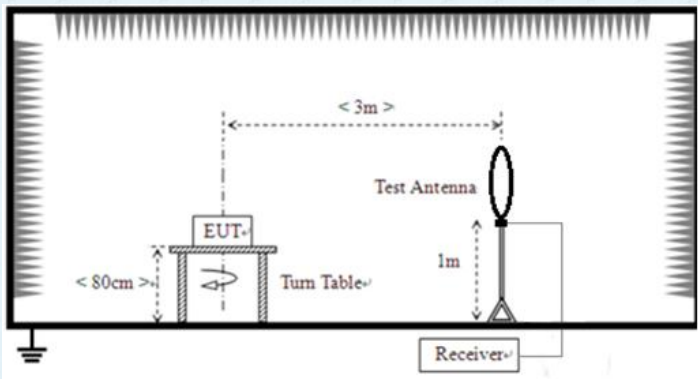


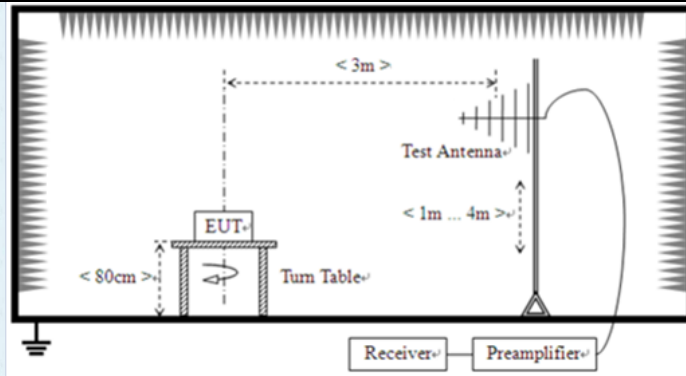
Middle channel



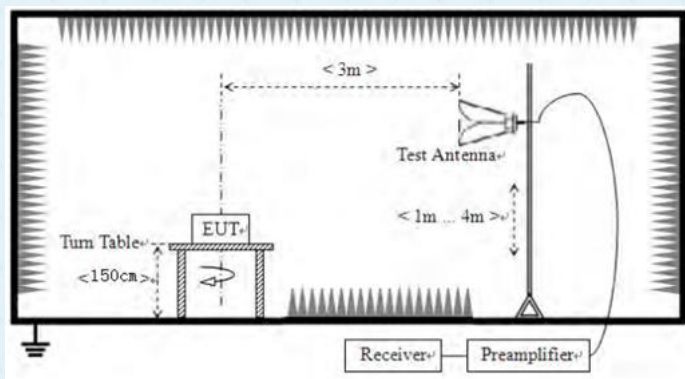
Highest channel

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
For radiated emissions from 30MHz to1GHz					



For radiated emissions above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details

Test mode:	Refer to section 5.2 for details					
Test voltage:	AC120V 60Hz					
Test environment:	Temp.:	25 °C	Humid.:	56%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

1. Only the worst case Main Antenna test data.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

30MHz~1GHz

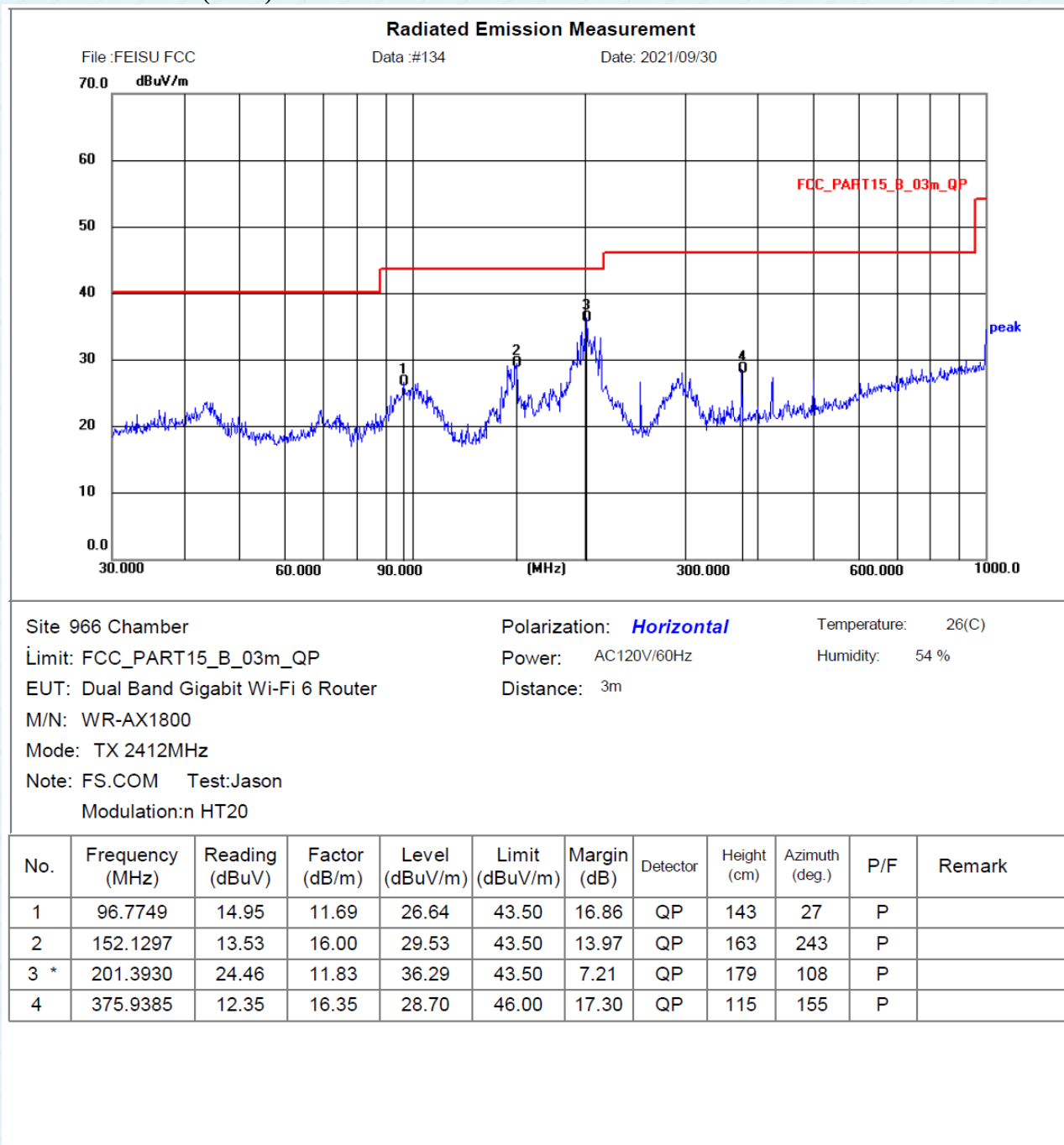
Pre-scan all test modes, found worst case at 802.11n(HT20), and so only show the test result of 802.11(HT20)

Above 1GHz

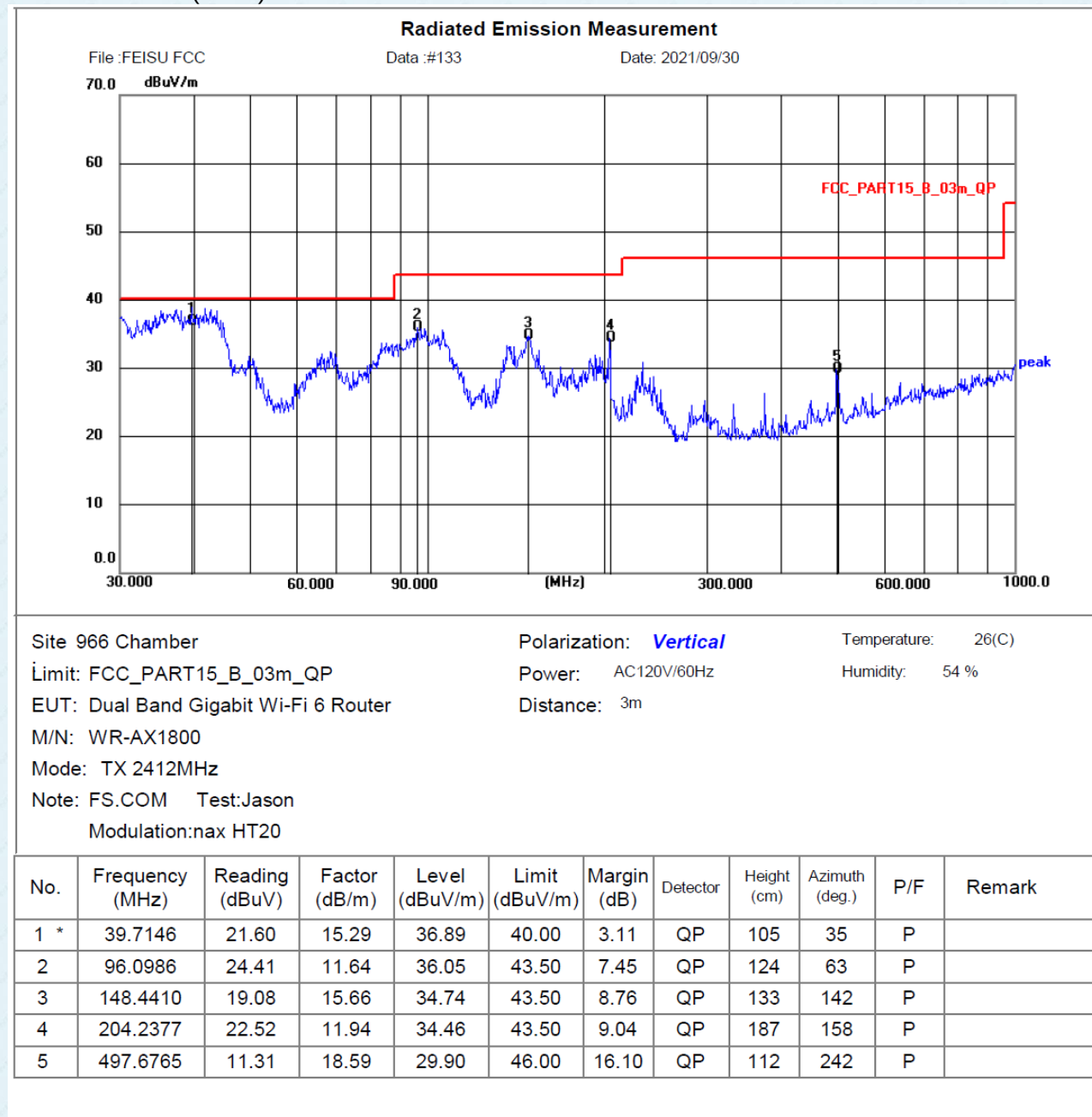
Pre-scan all test modes, found worst case at 802.11g, 802.11ax(HE40), and so only show the test result of 802.11g, 802.11ax(HE40).

■ Below 1GHz

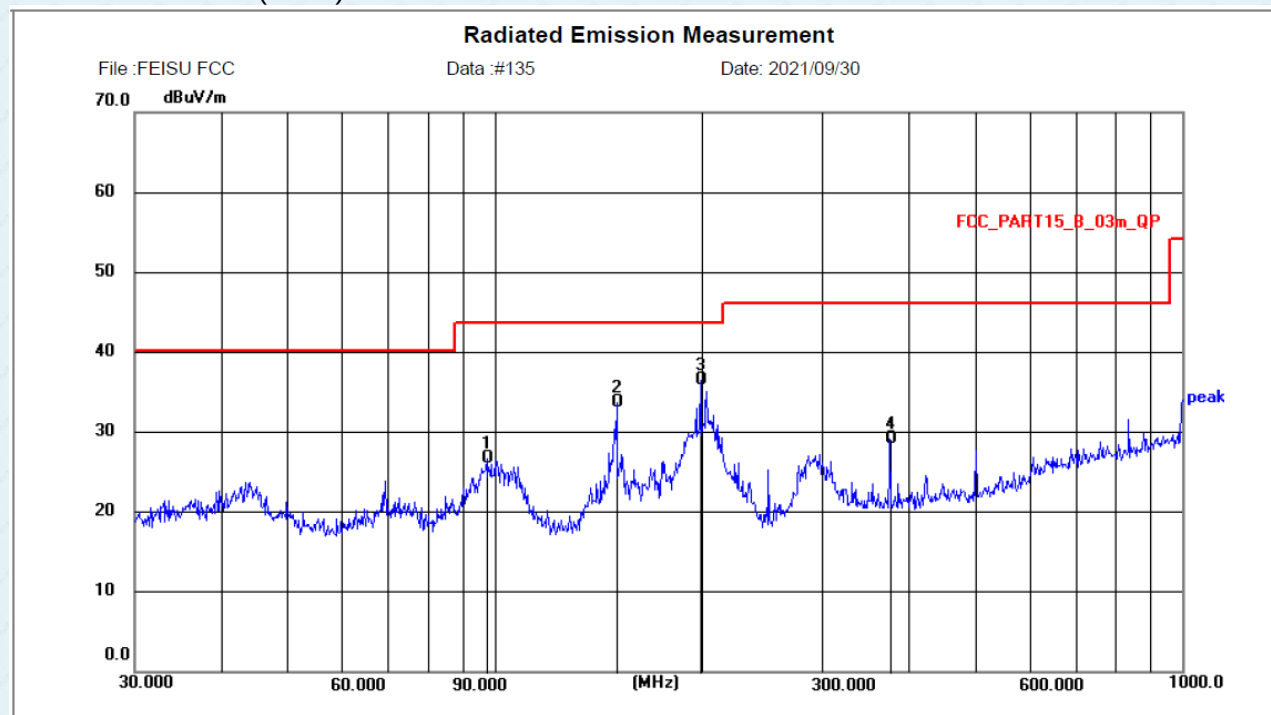
Horizontal: 802.11n(HT20) TX 2412MHz



Vertical: 802.11n(HT20) TX 2412MHz



Horizontal: 802.11n(HT20) TX 2437MHz



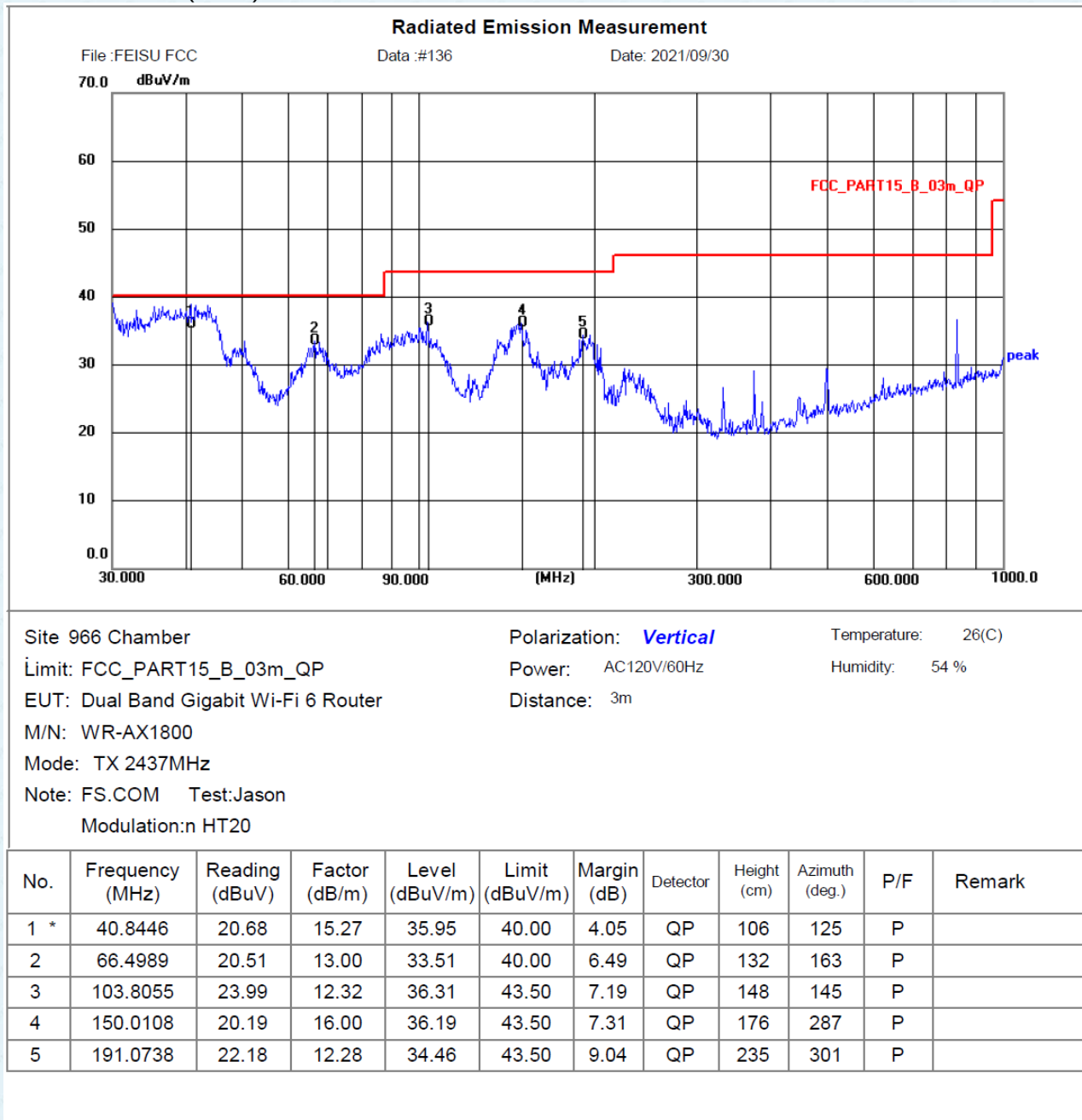
Site 966 Chamber
 Limit: FCC_PART15_B_03m_QP
 EUT: Dual Band Gigabit Wi-Fi 6 Router
 M/N: WR-AX1800
 Mode: TX 2437MHz
 Note: FS.COM Test:Jason
 Modulation:n HT20

Polarization: **Horizontal**
 Power: AC120V/60Hz
 Distance: 3m

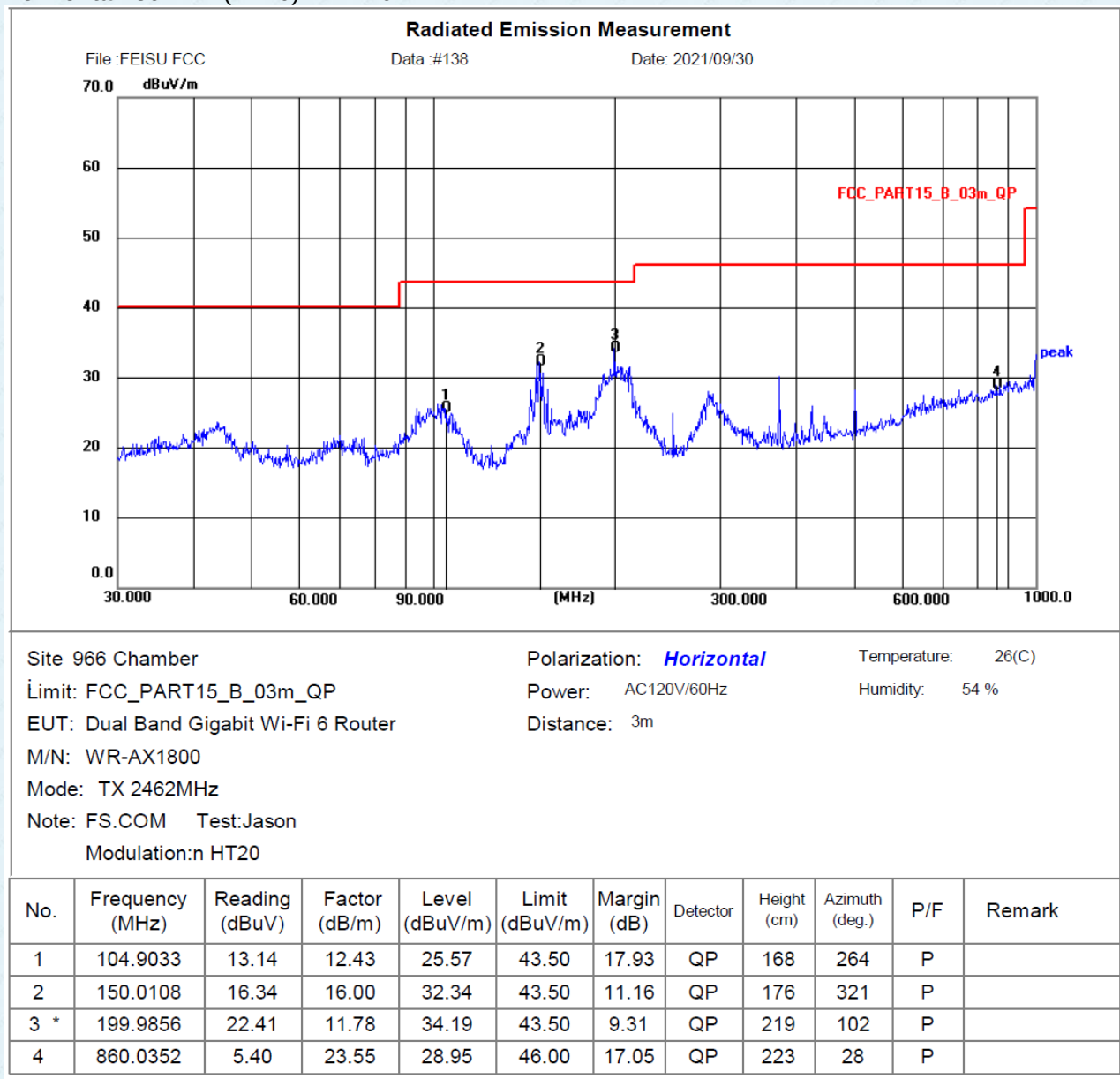
Temperature: 26(C)
 Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	97.4560	14.91	11.75	26.66	43.50	16.84	QP	161	214	P	
2	150.5378	17.70	16.00	33.70	43.50	9.80	QP	177	105	P	
3 *	199.2855	24.72	11.82	36.54	43.50	6.96	QP	201	188	P	
4	375.9385	12.84	16.35	29.19	46.00	16.81	QP	124	196	P	

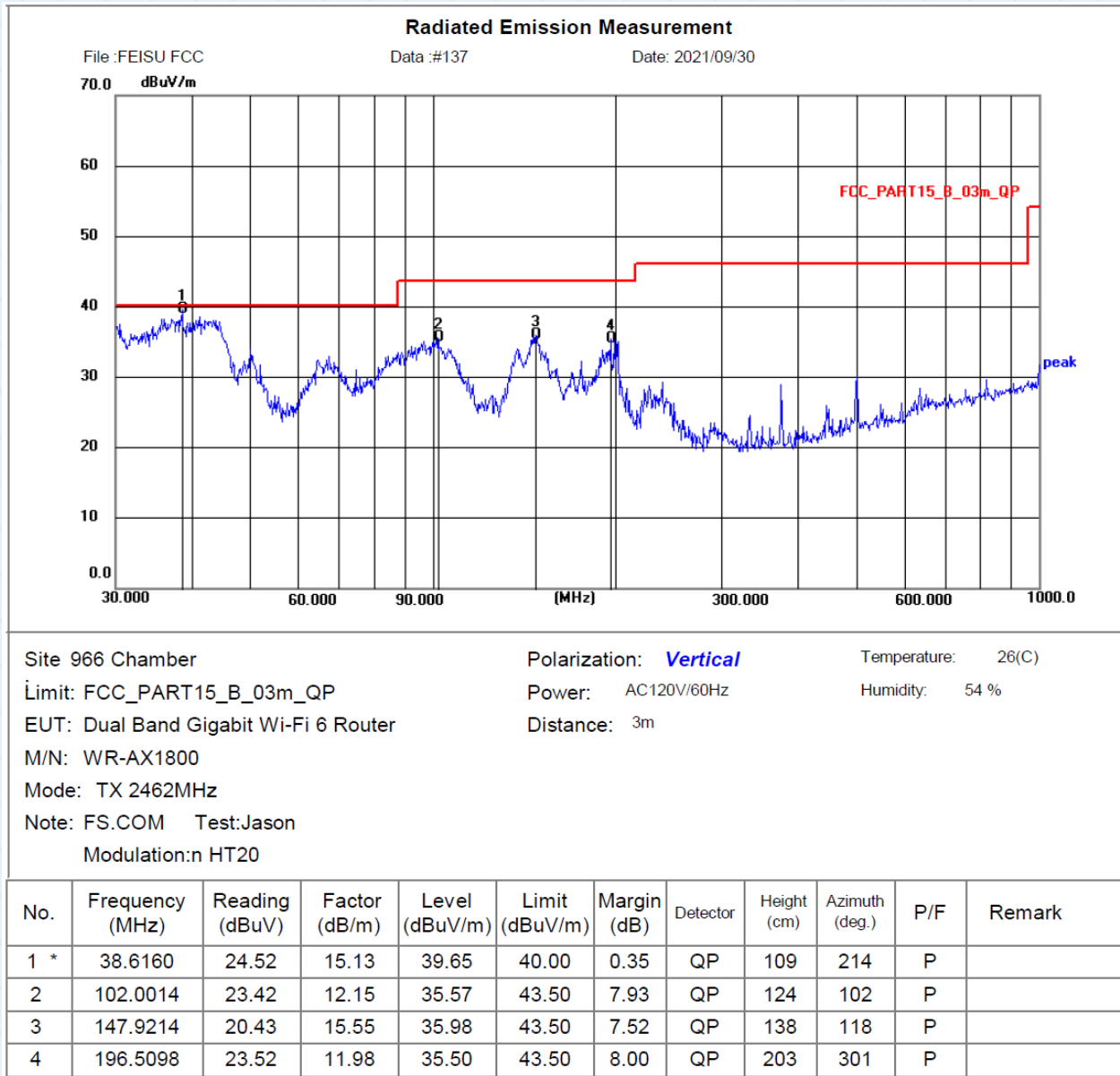
Vertical: 802.11n(HT20) TX 2437MHz



Horizontal: 802.11n(HT20) TX 2462MHz

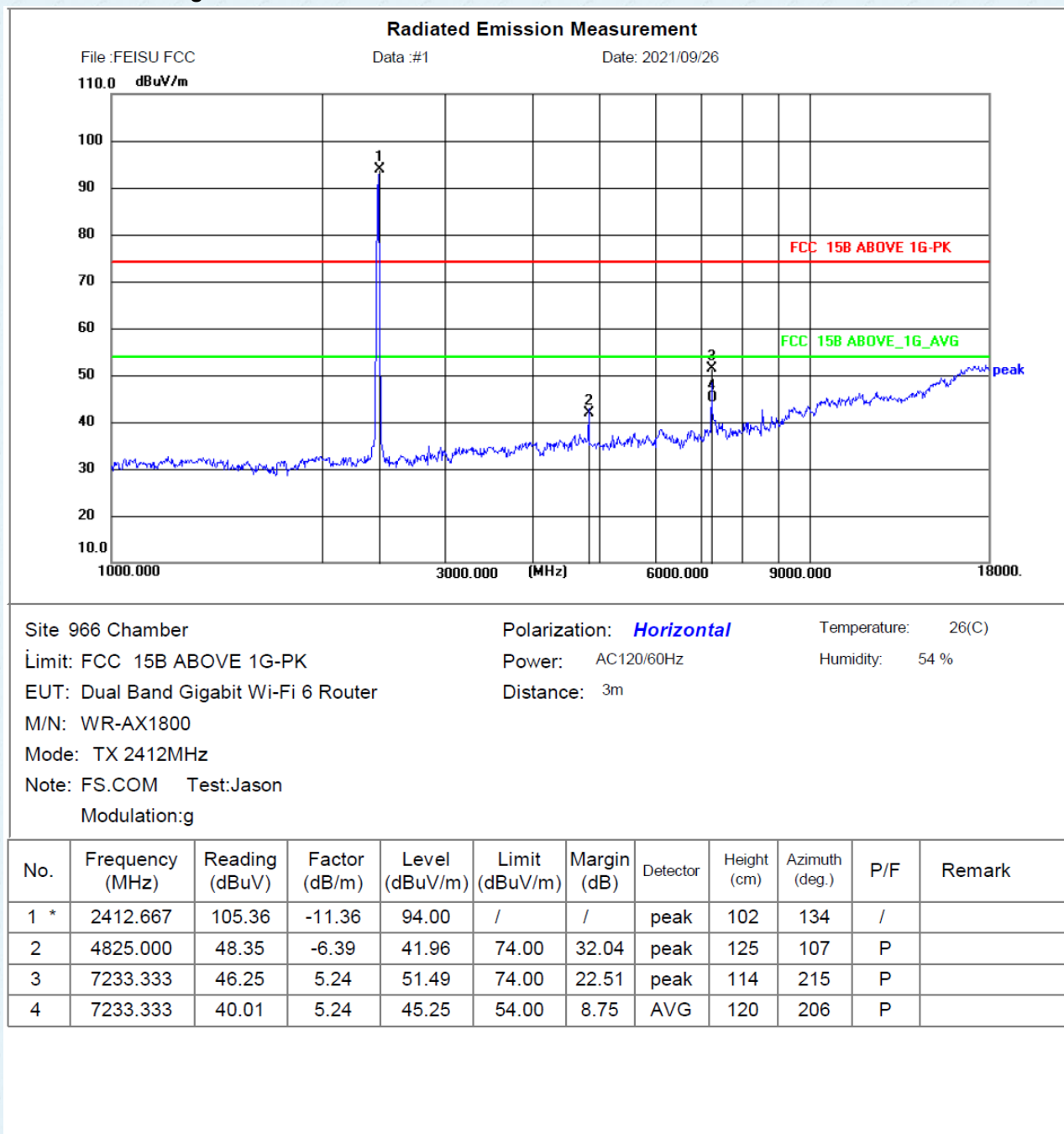


Vertical: 802.11n(HT20) TX 2462MHz

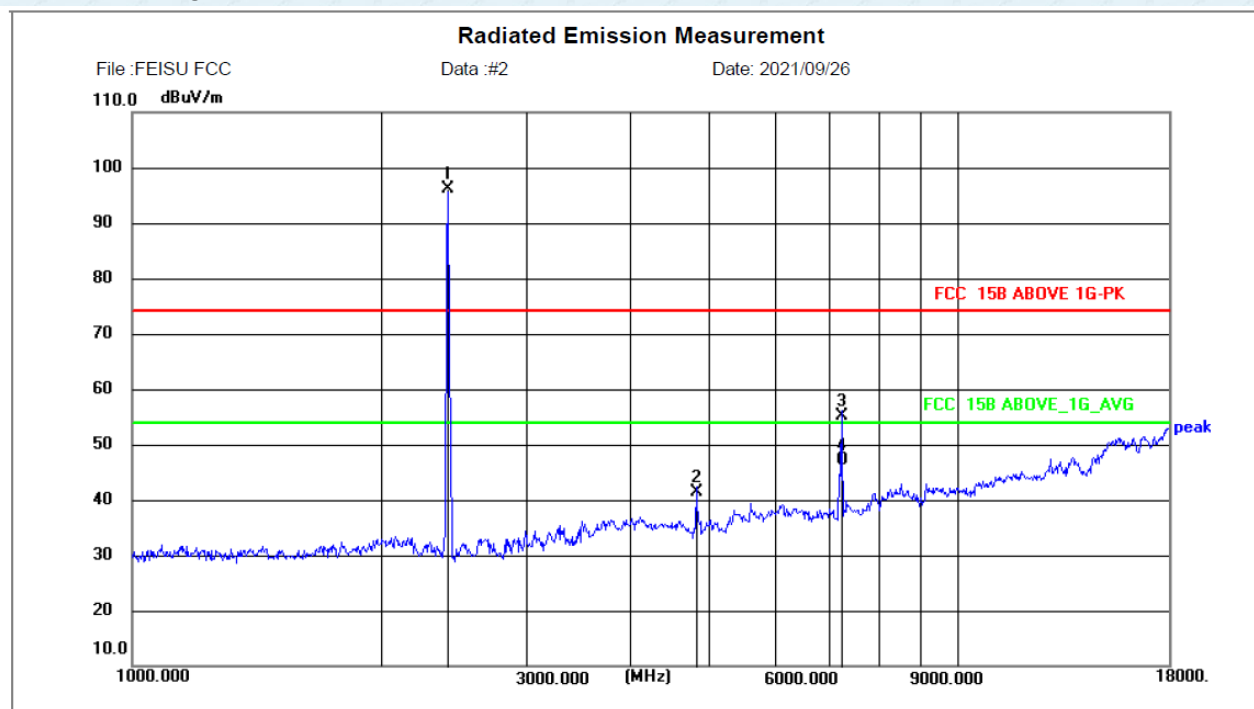


■ 1GHz~18GHz

Horizontal:802.11g TX 2412MHz



Vertical:802.11g TX 2412MHz



Site 966 Chamber

Polarization: **Vertical**

Temperature: 26(C)

Limit: FCC 15B ABOVE 1G-PK

Power: AC120/60Hz

Humidity: 54 %

EUT: Dual Band Gigabit Wi-Fi 6 Router

Distance: 3m

M/N: WR-AX1800

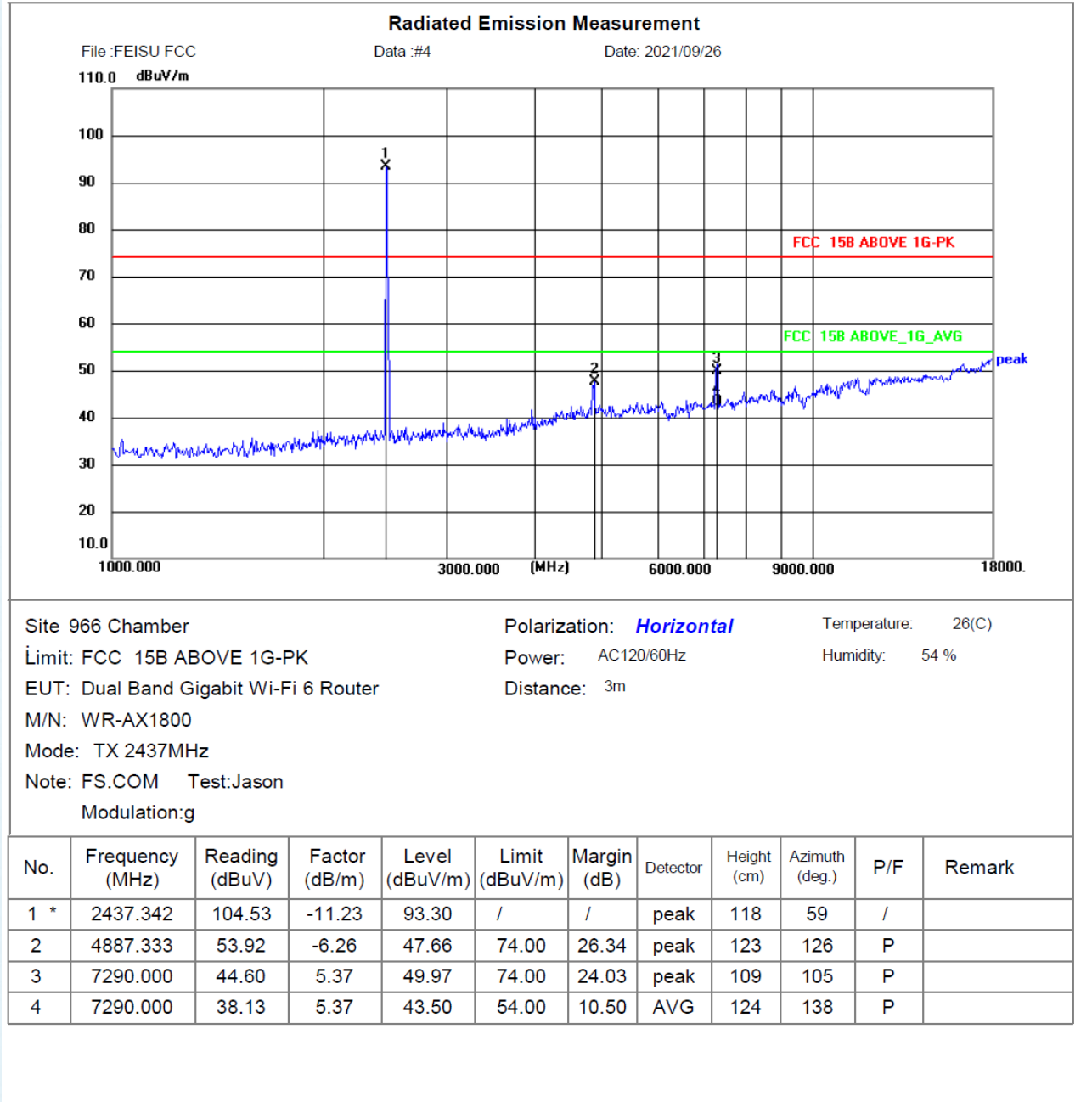
Mode: TX 2412MHz

Note: FS.COM Test:Jason

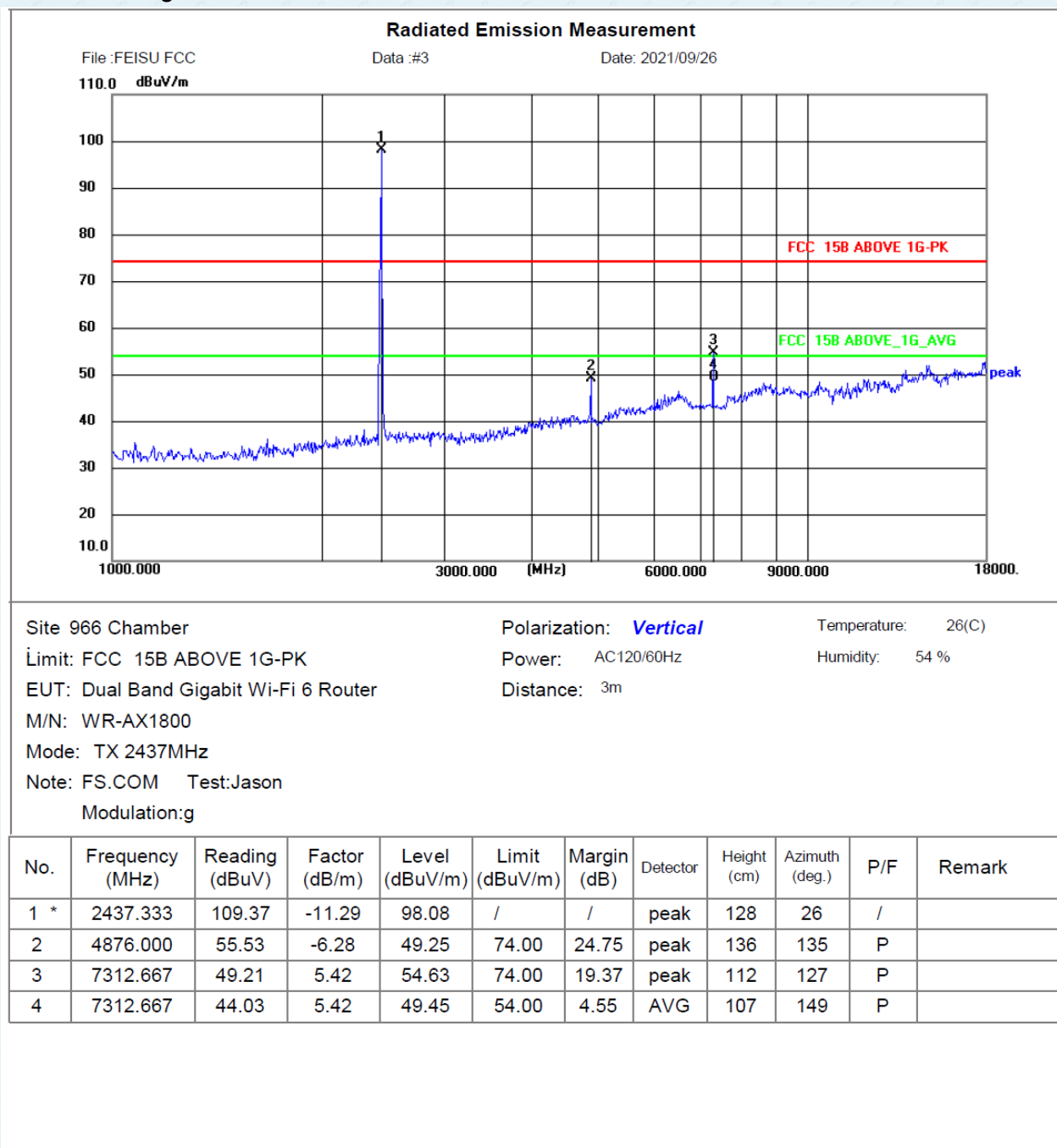
Modulation:g

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2412.000	107.55	-11.39	96.16	/	/	peak	112	245	/	
2	4825.000	47.86	-6.39	41.47	74.00	32.53	peak	119	158	P	
3	7233.333	49.98	5.24	55.22	74.00	18.78	peak	126	314	P	
4	7233.333	41.93	5.24	47.17	54.00	6.83	AVG	128	302	P	

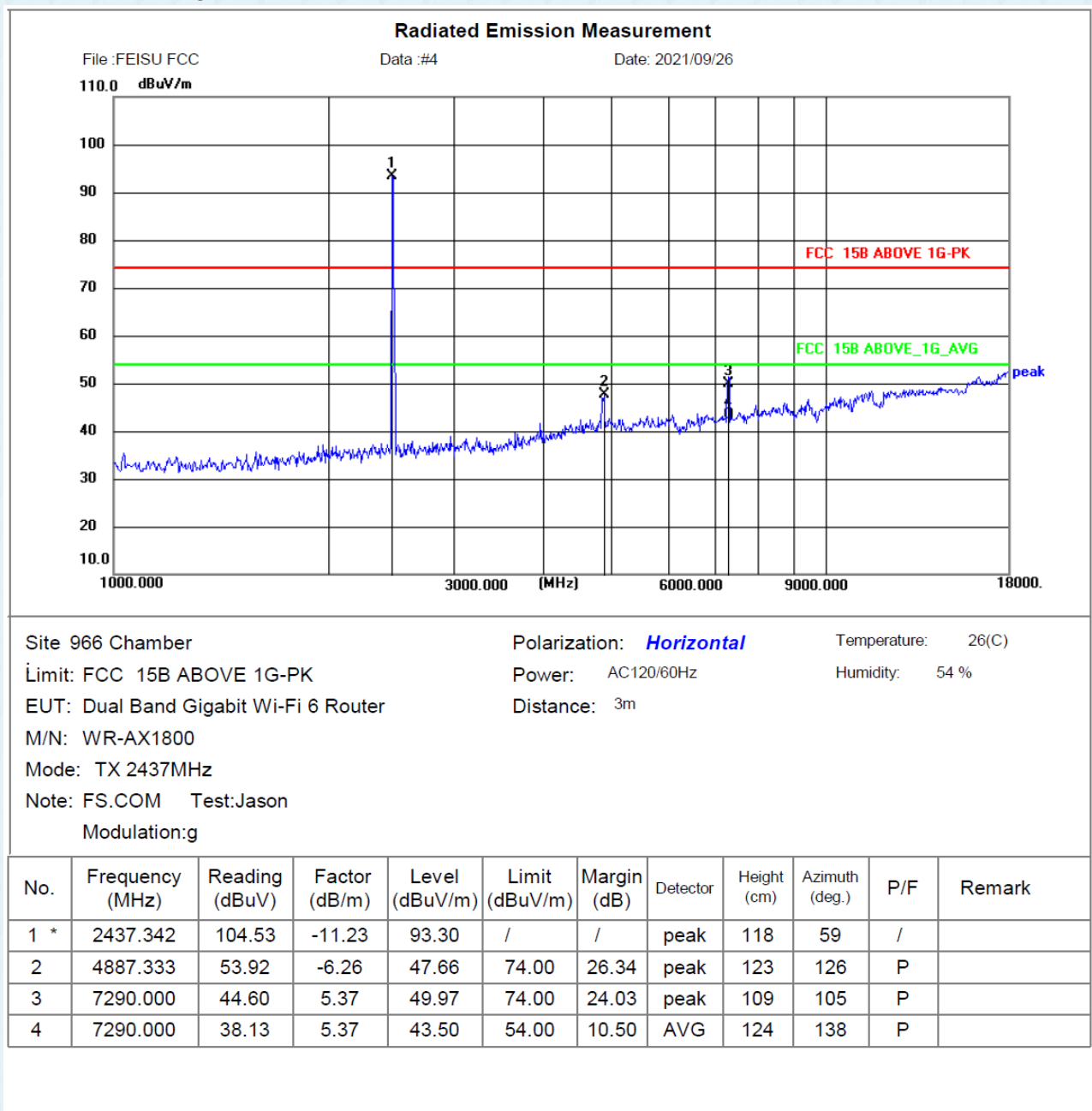
Horizontal:802.11g TX 2437MHz



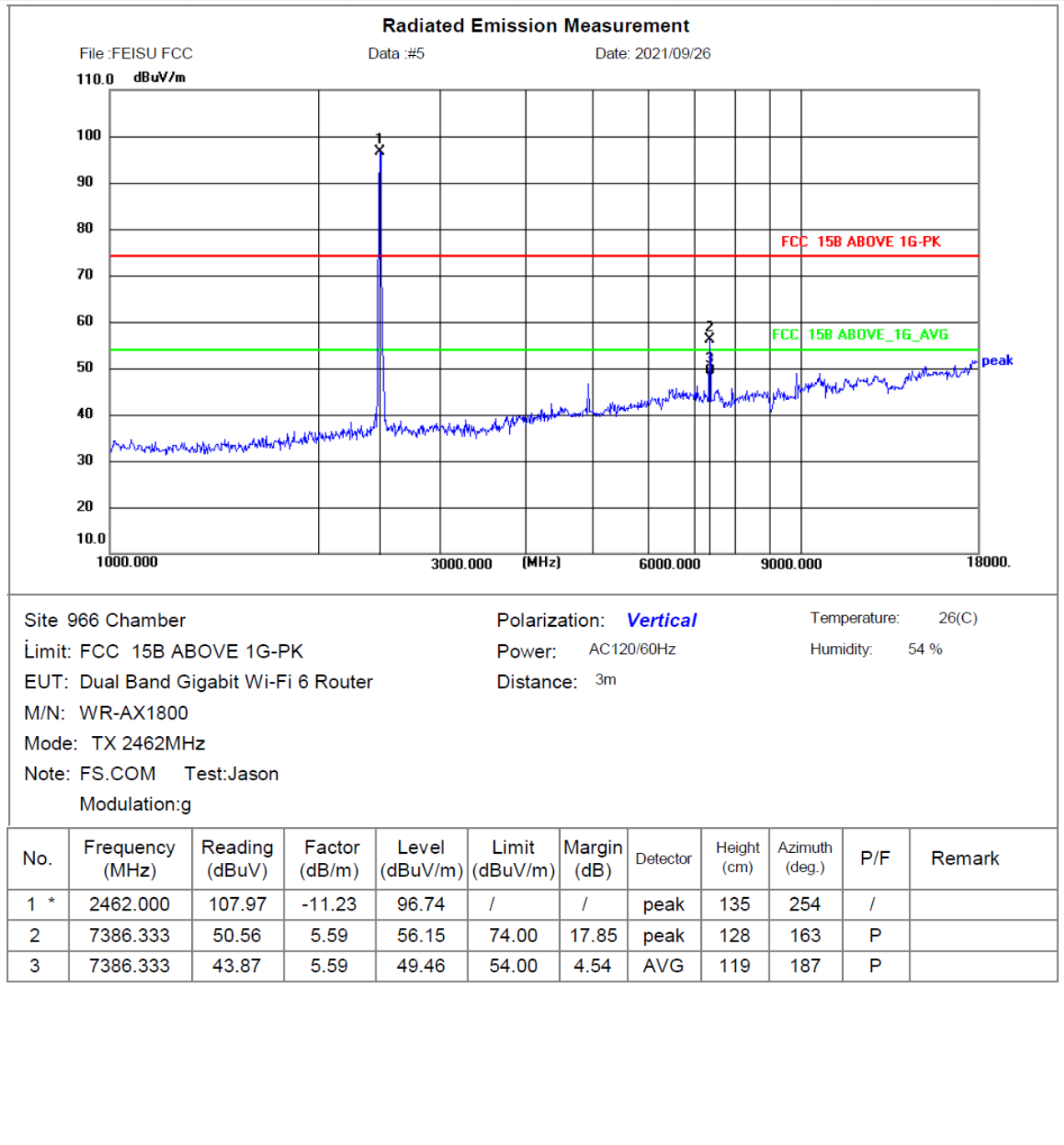
Vertical:802.11g TX 2437MHz



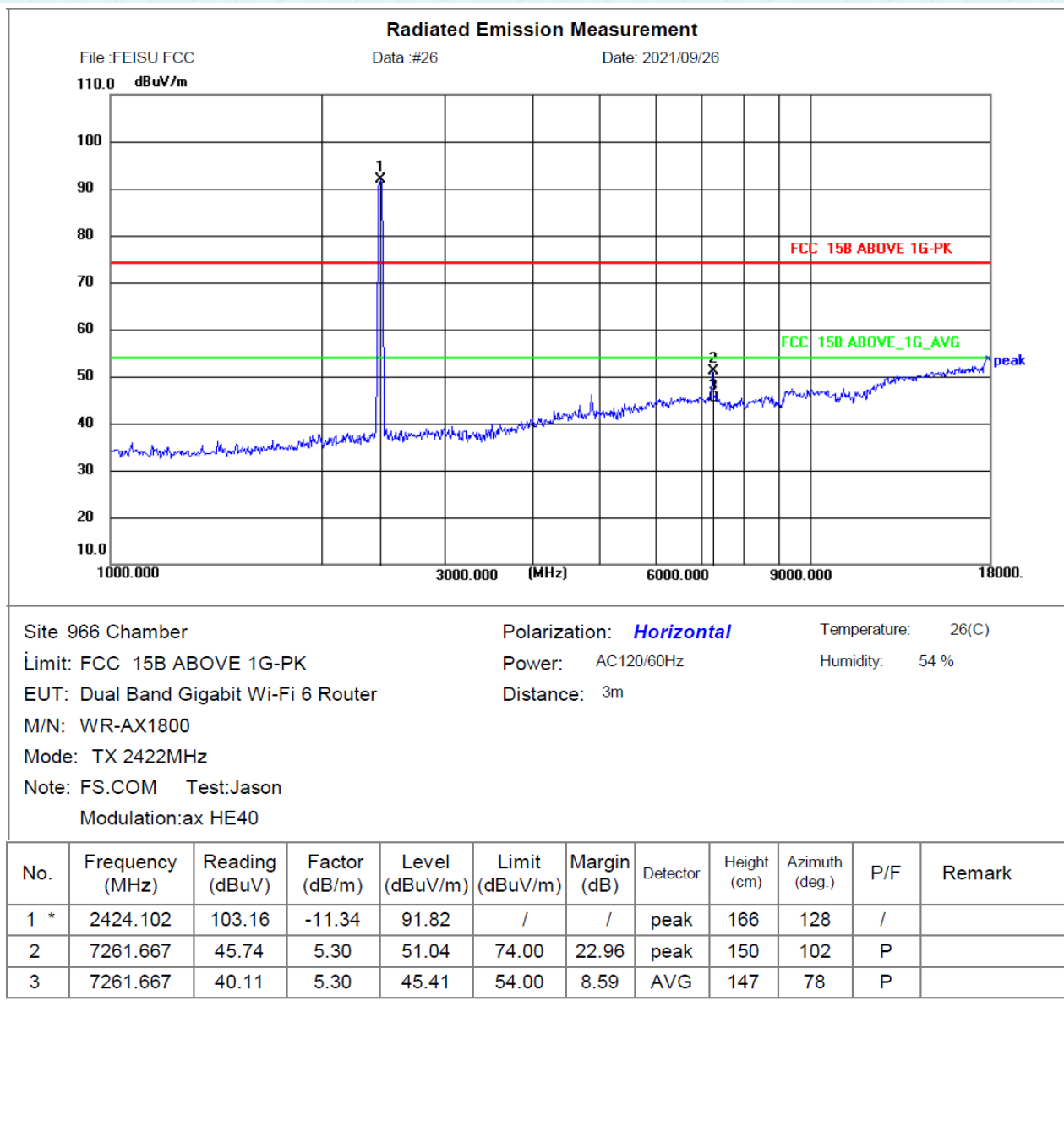
Horizontal:802.11g TX 2462MHz



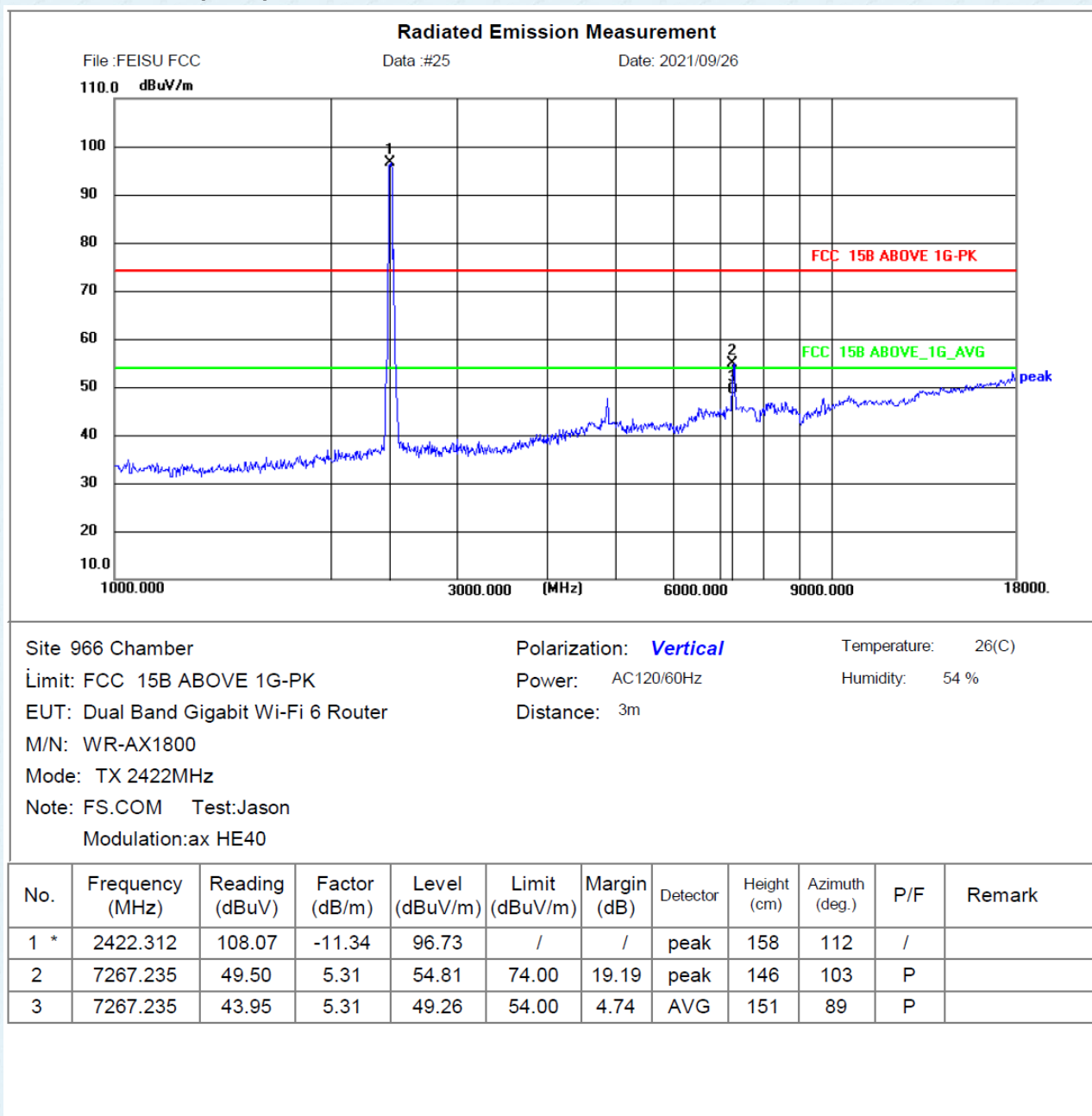
Vertical:802.11g TX 2462MHz



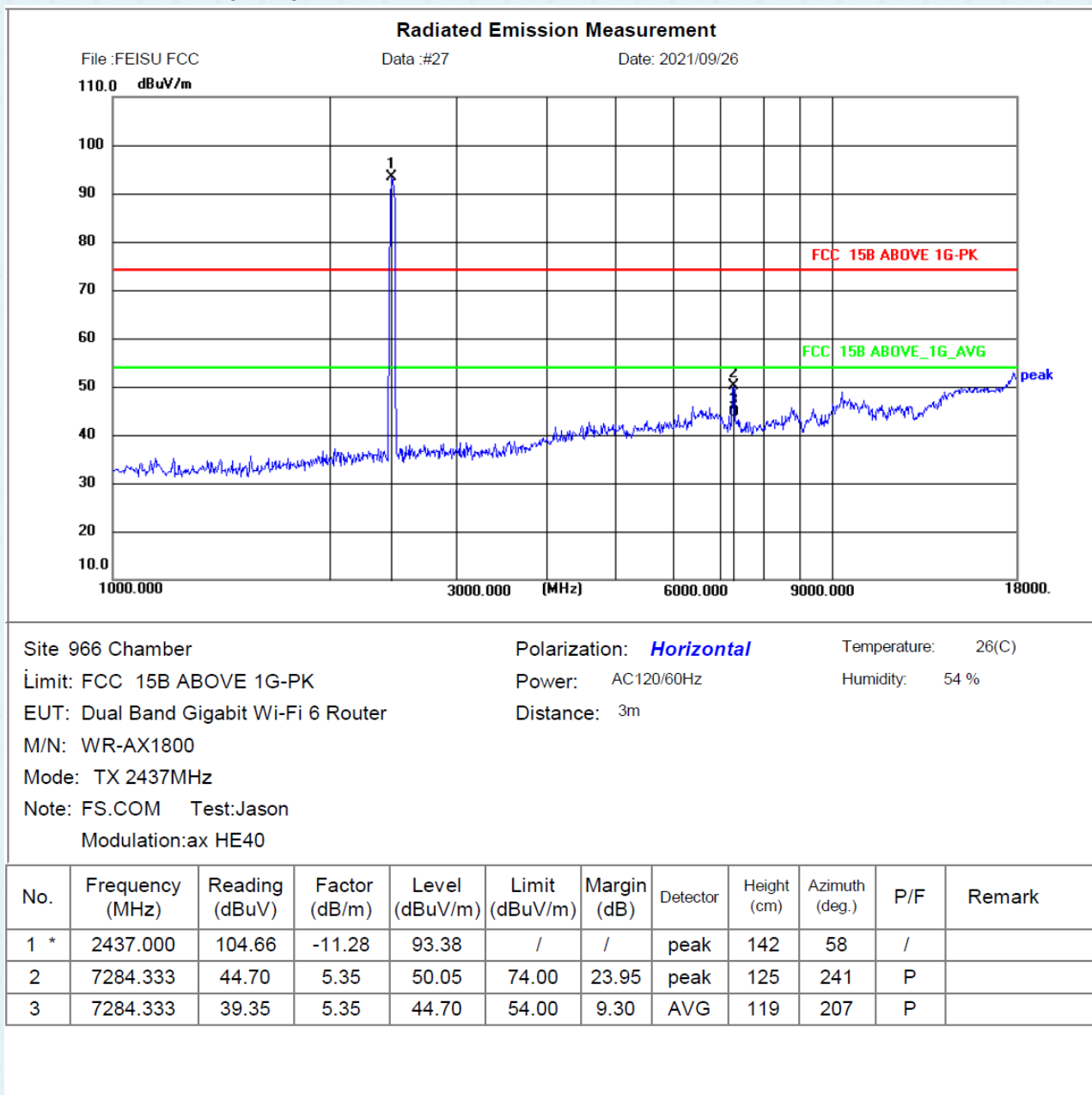
Horizontal:802.11ax(HE40) TX 2422MHz



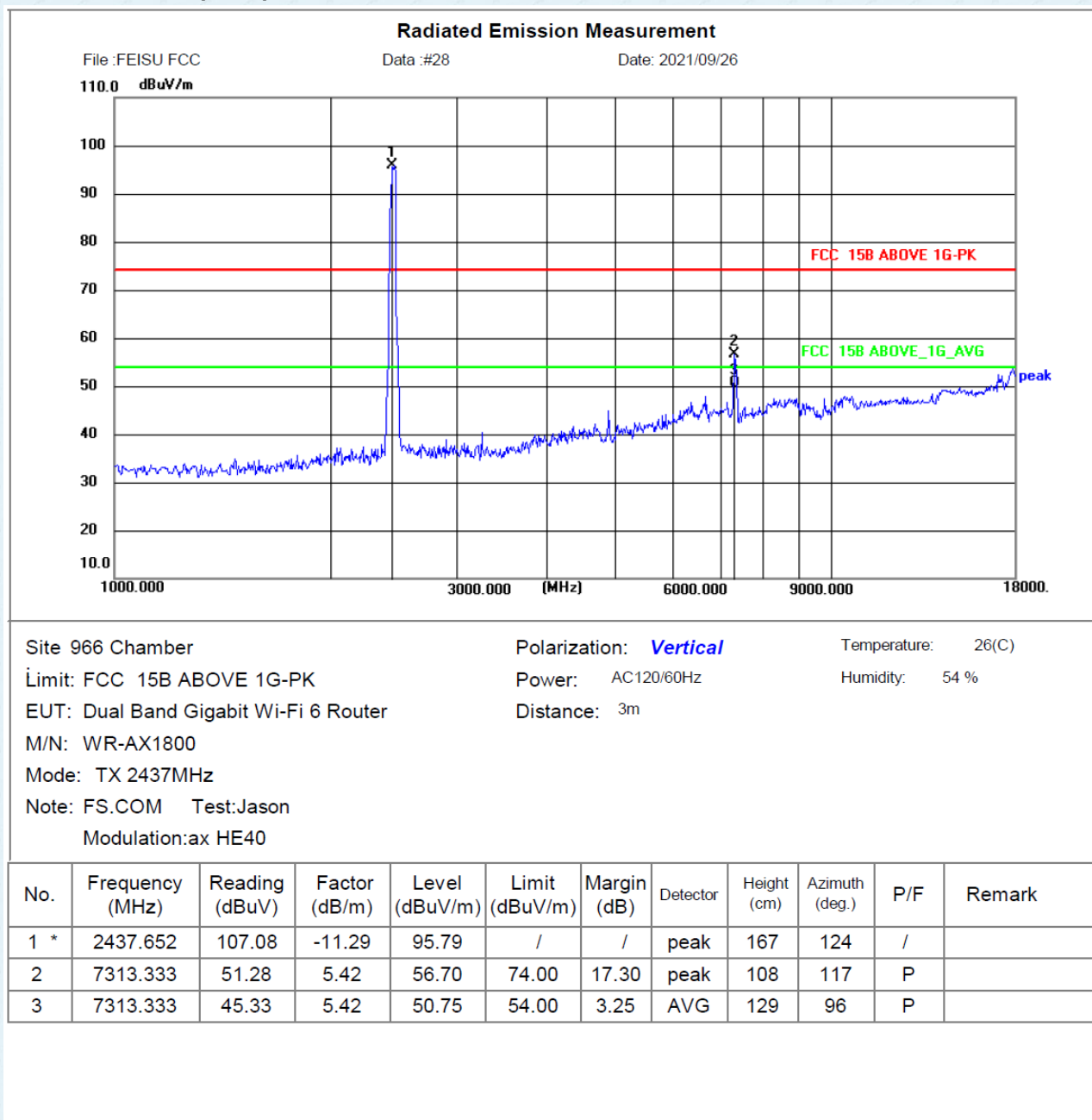
Vertical: 802.11ax(HE40) TX 2422MHz



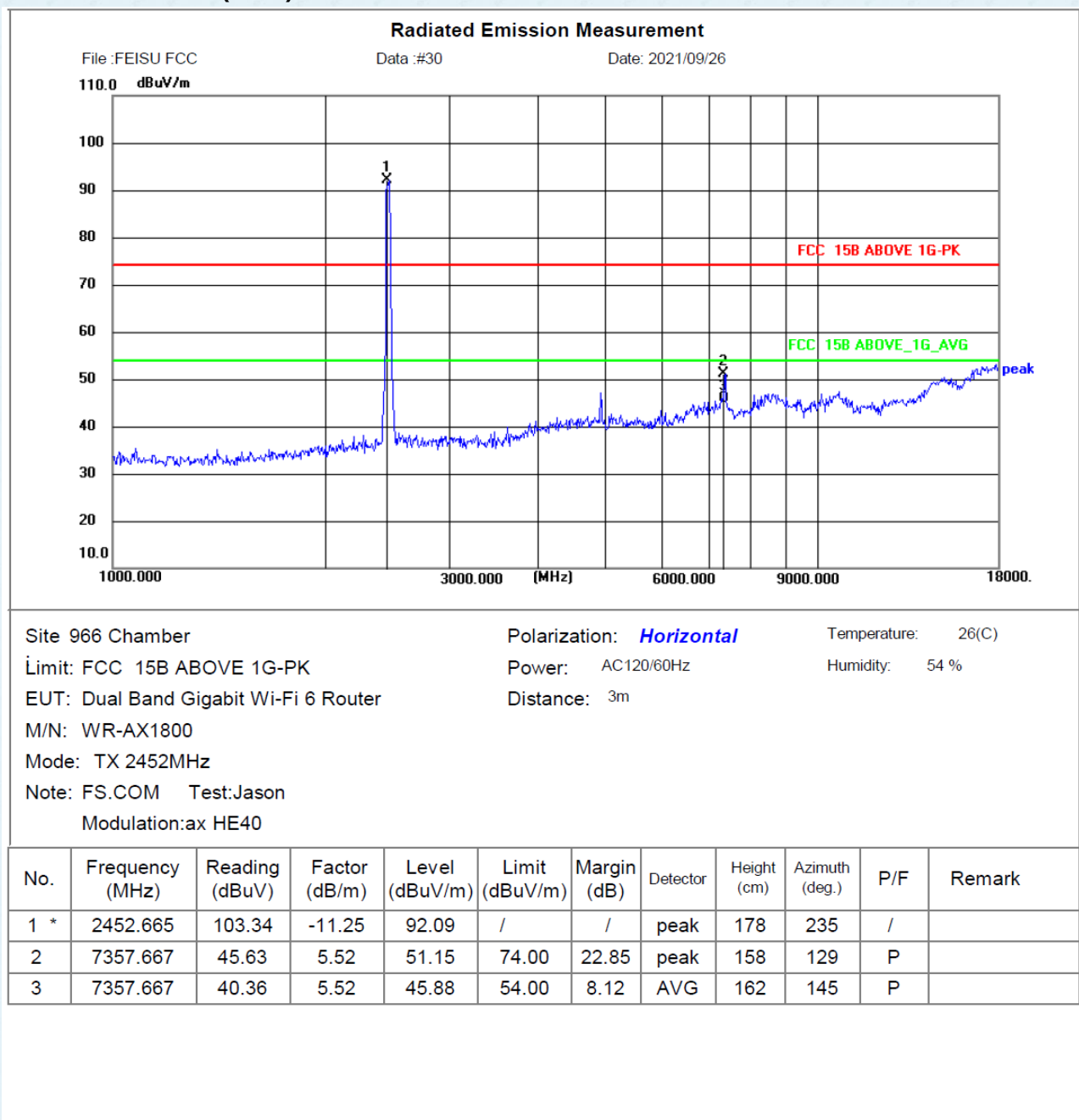
Horizontal: 802.11ax(HE40) TX 2437MHz



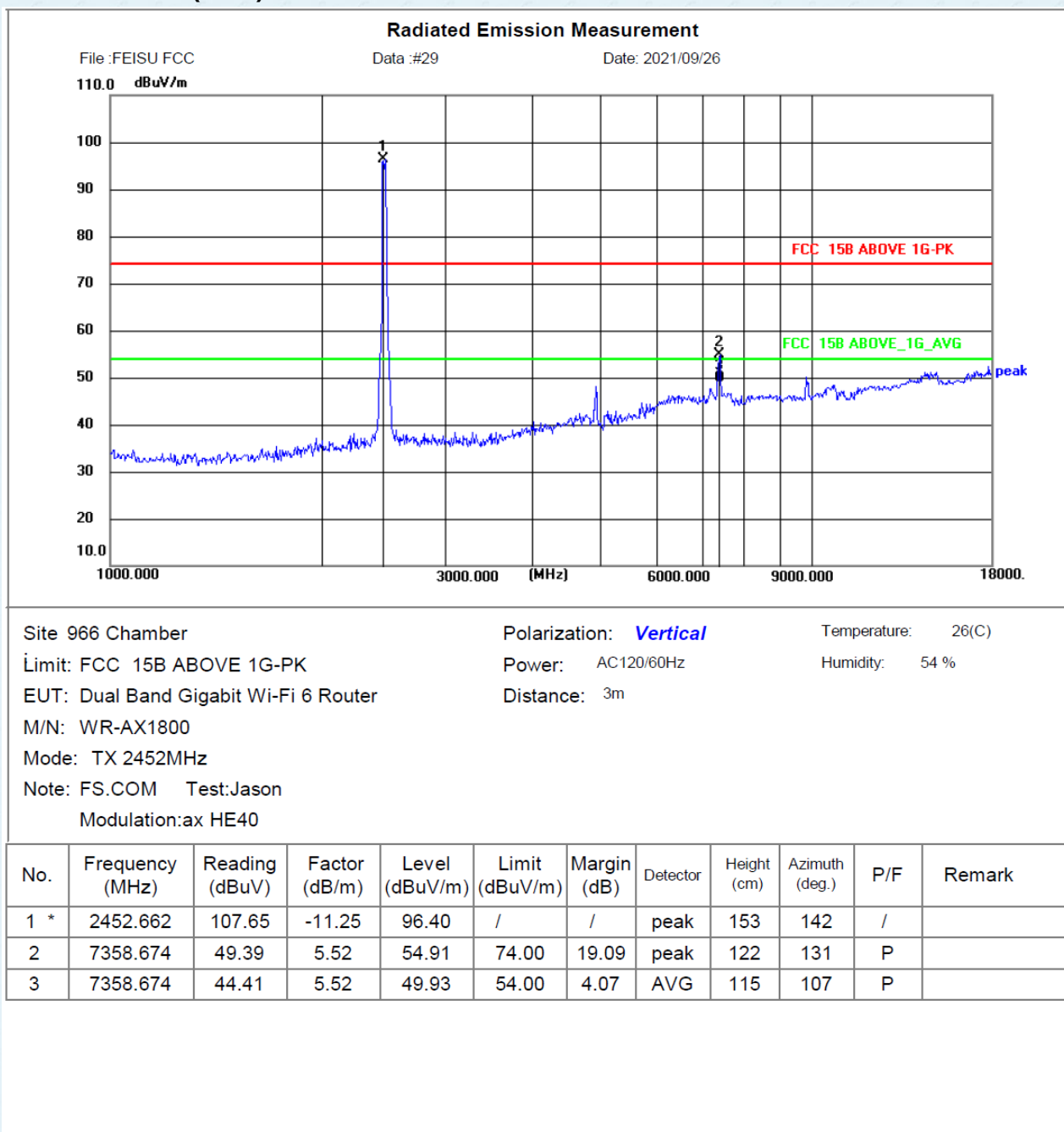
Vertical: 802.11ax(HE40) TX 2437MHz



Horizontal: 802.11ax(HE40) TX 2452MHz

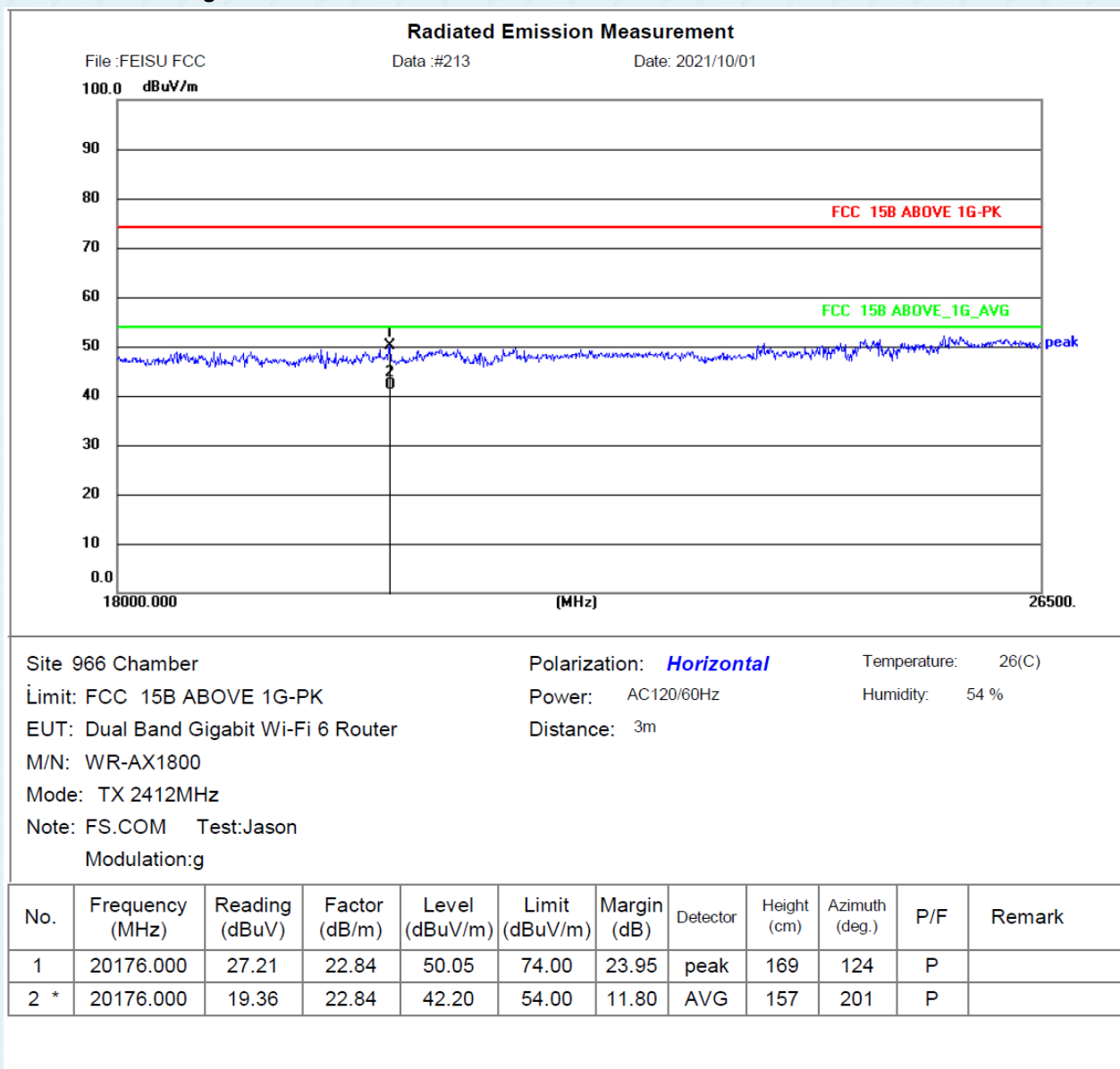


Vertical: 802.11ax(HE40) TX 2462MHz

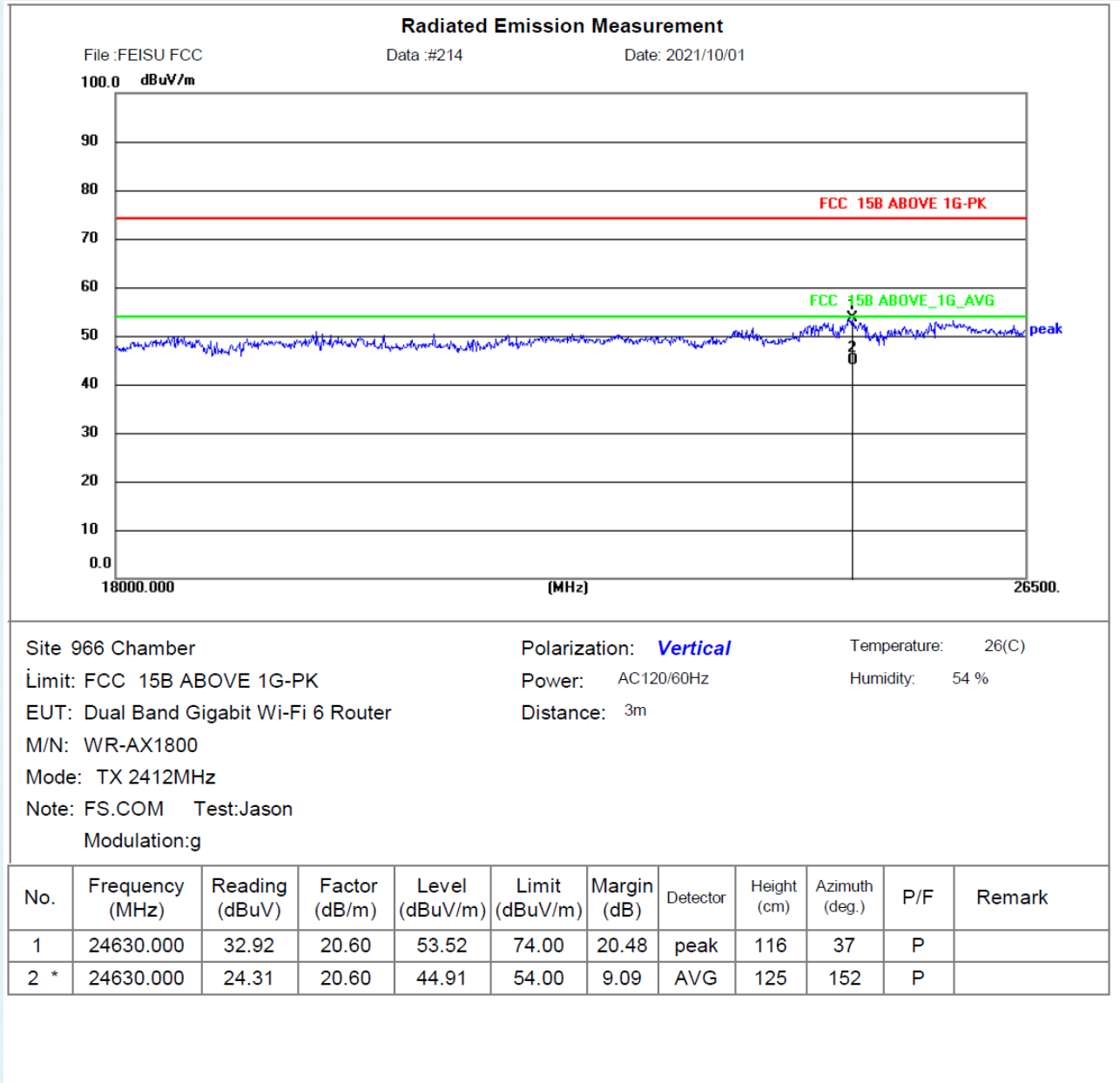


18GHz~26.5GHz

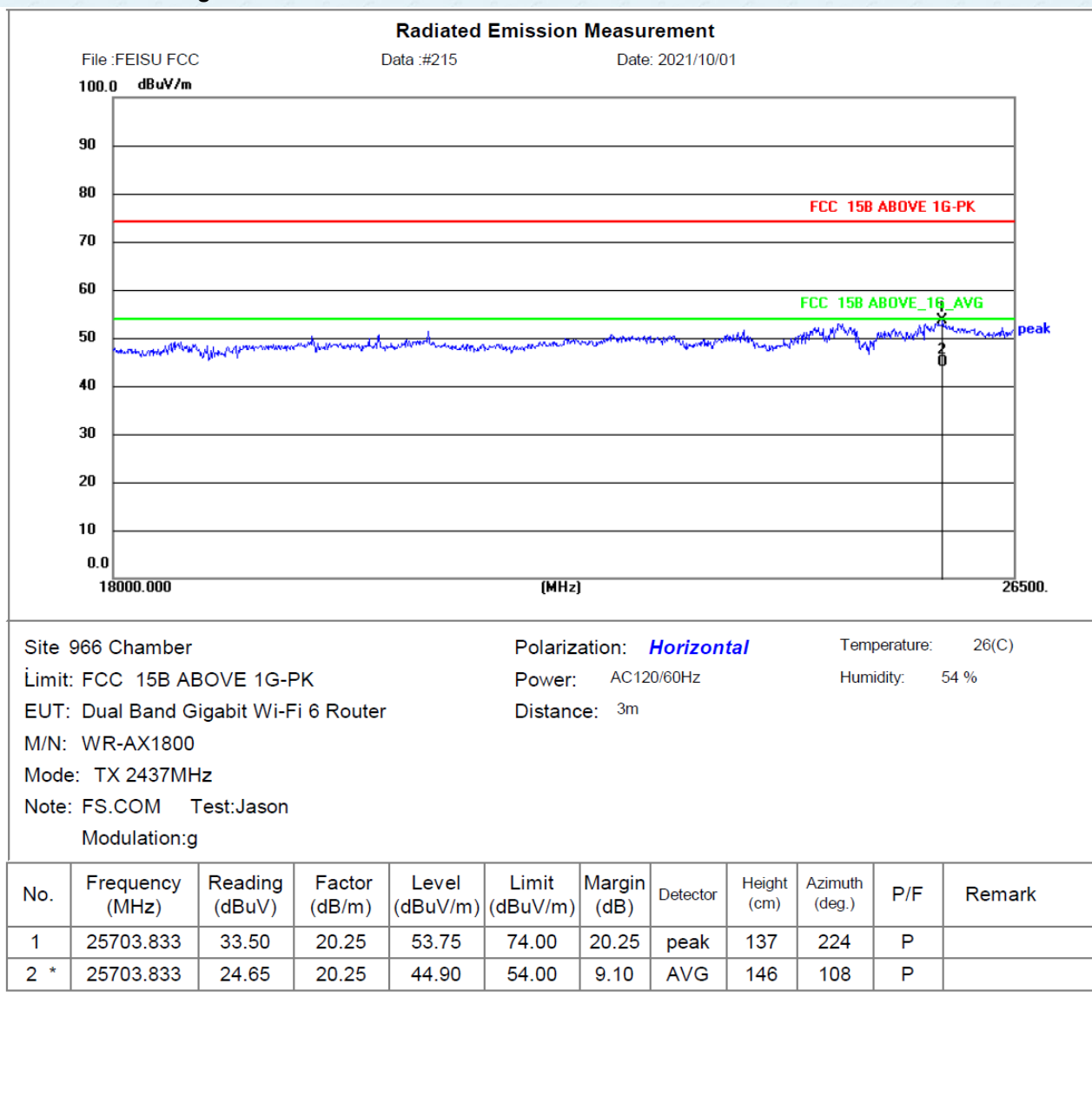
Horizontal:802.11g TX 2412MHz



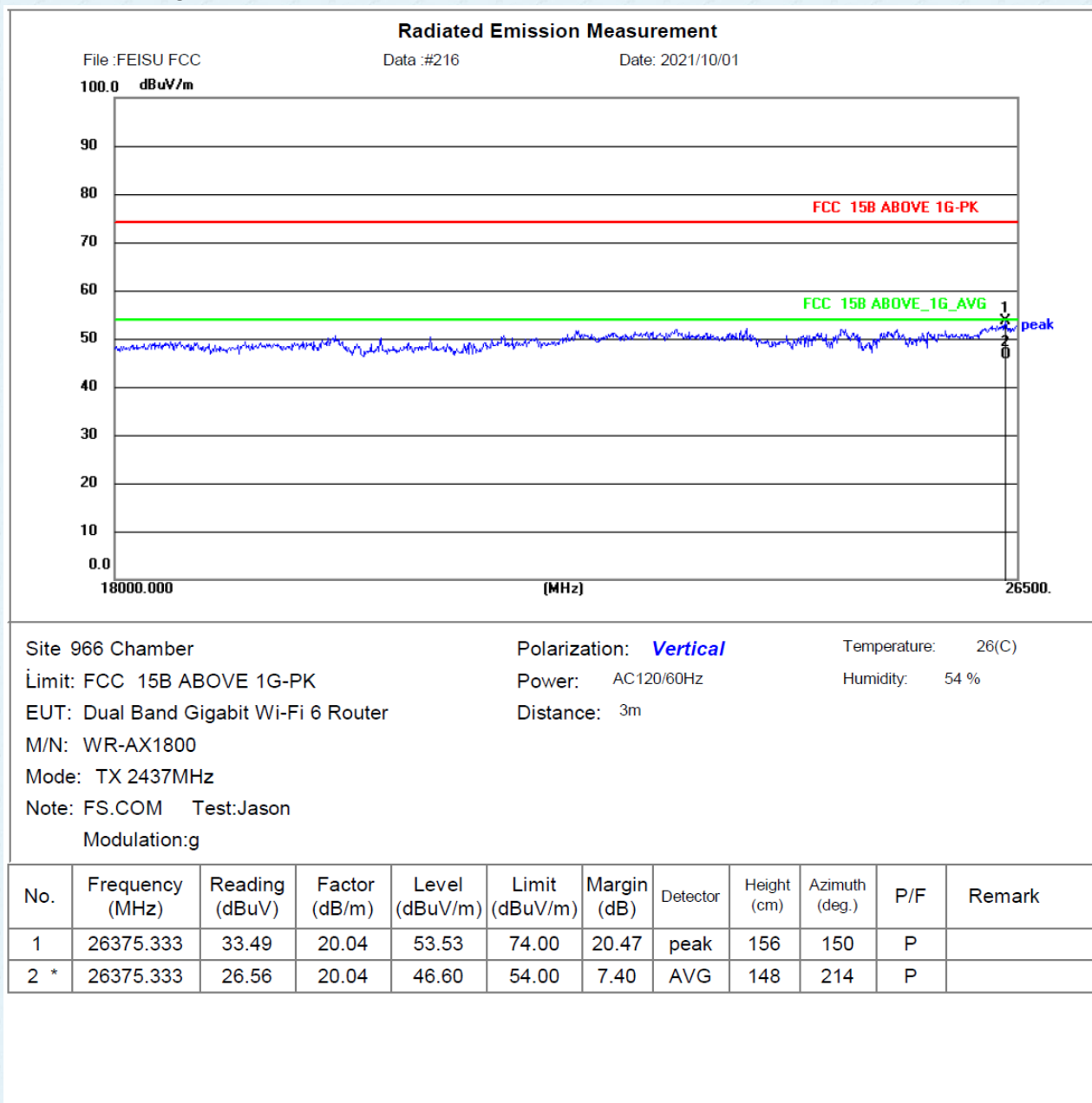
Vertical: 802.11g TX 2412MHz



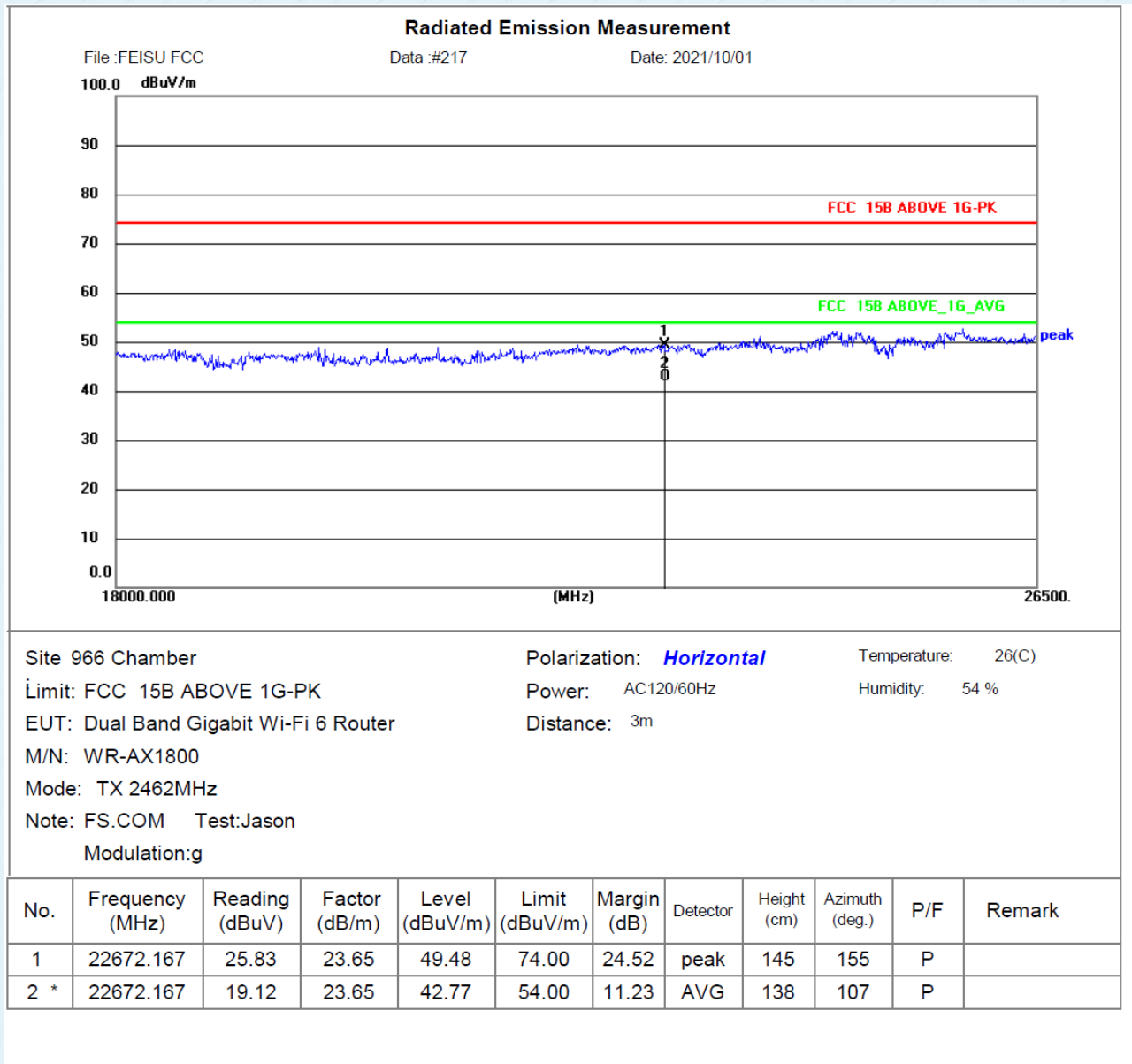
Horizontal: 802.11g TX 2437MHz



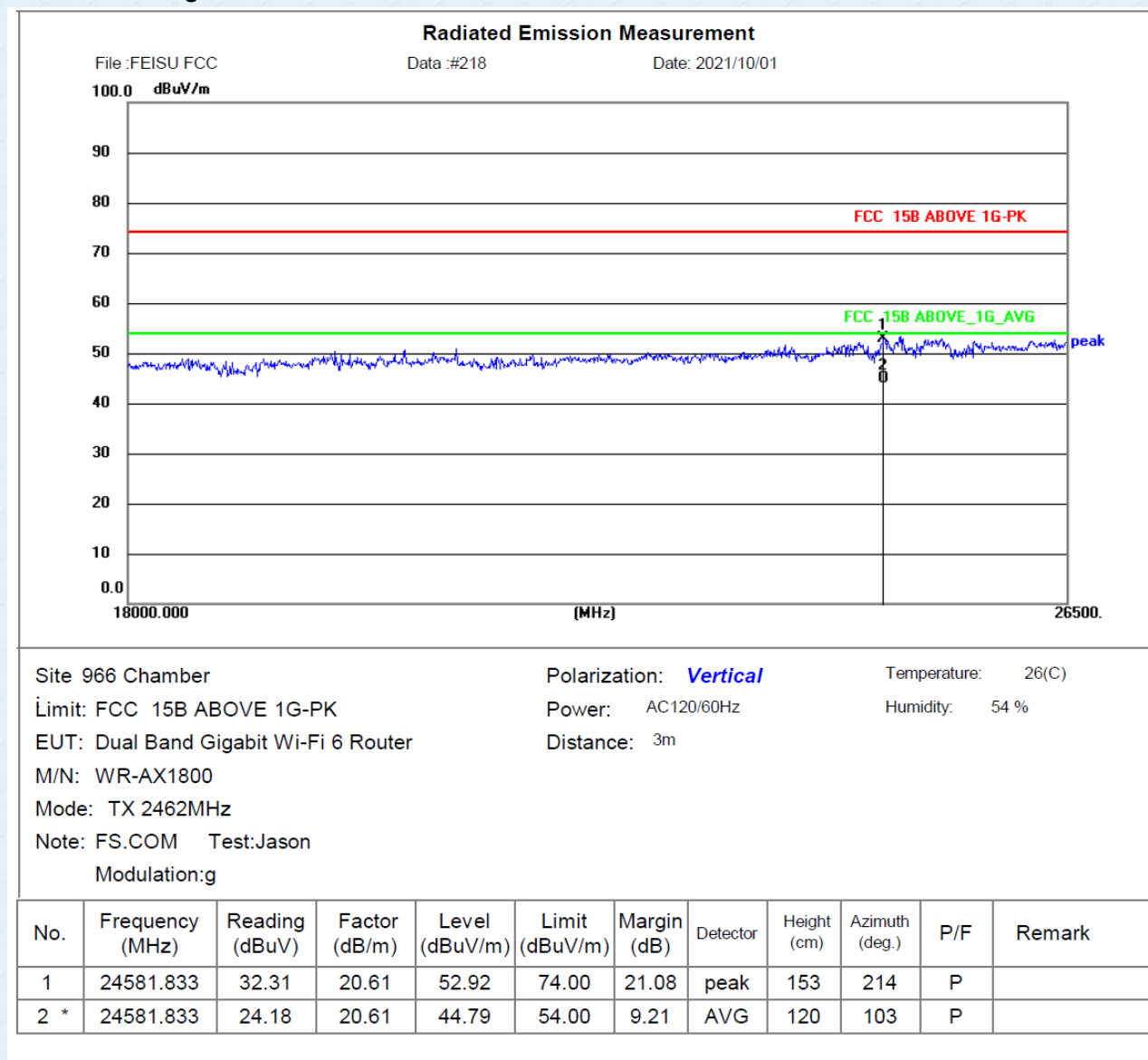
Vertical: 802.11g TX 2437MHz



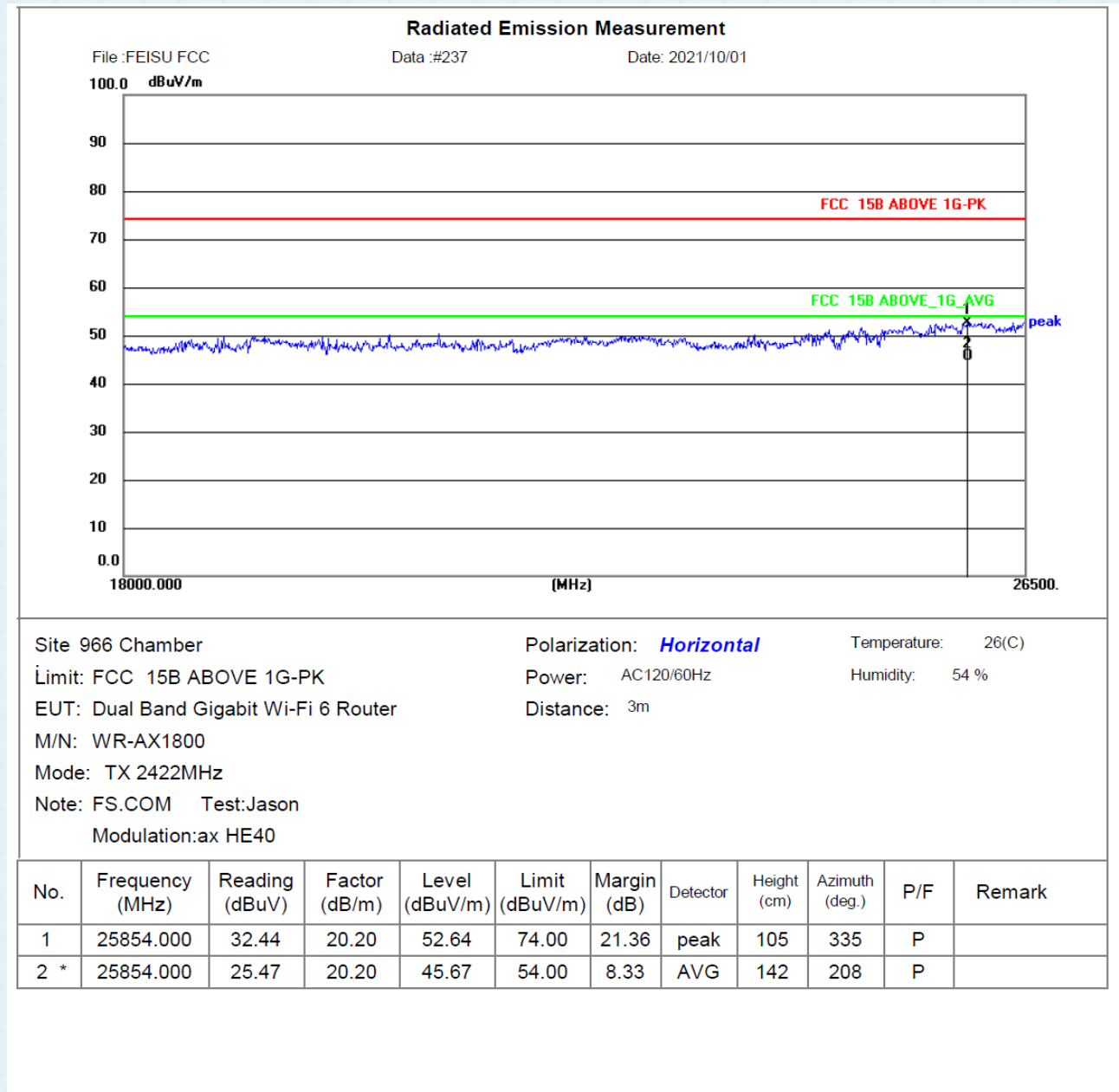
Horizontal: 802.11g TX 2462MHz



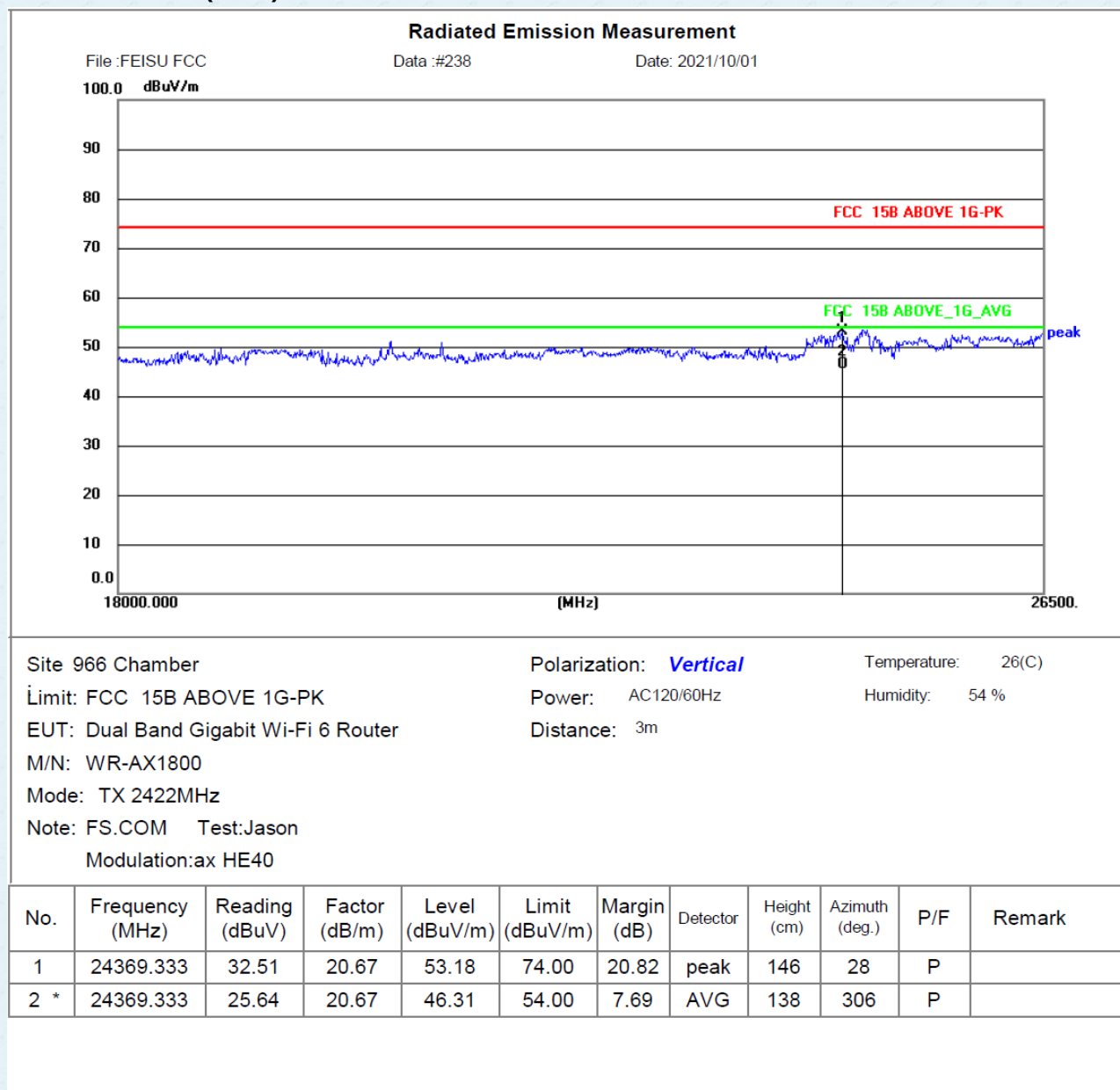
Vertical: 802.11g TX 2462MHz



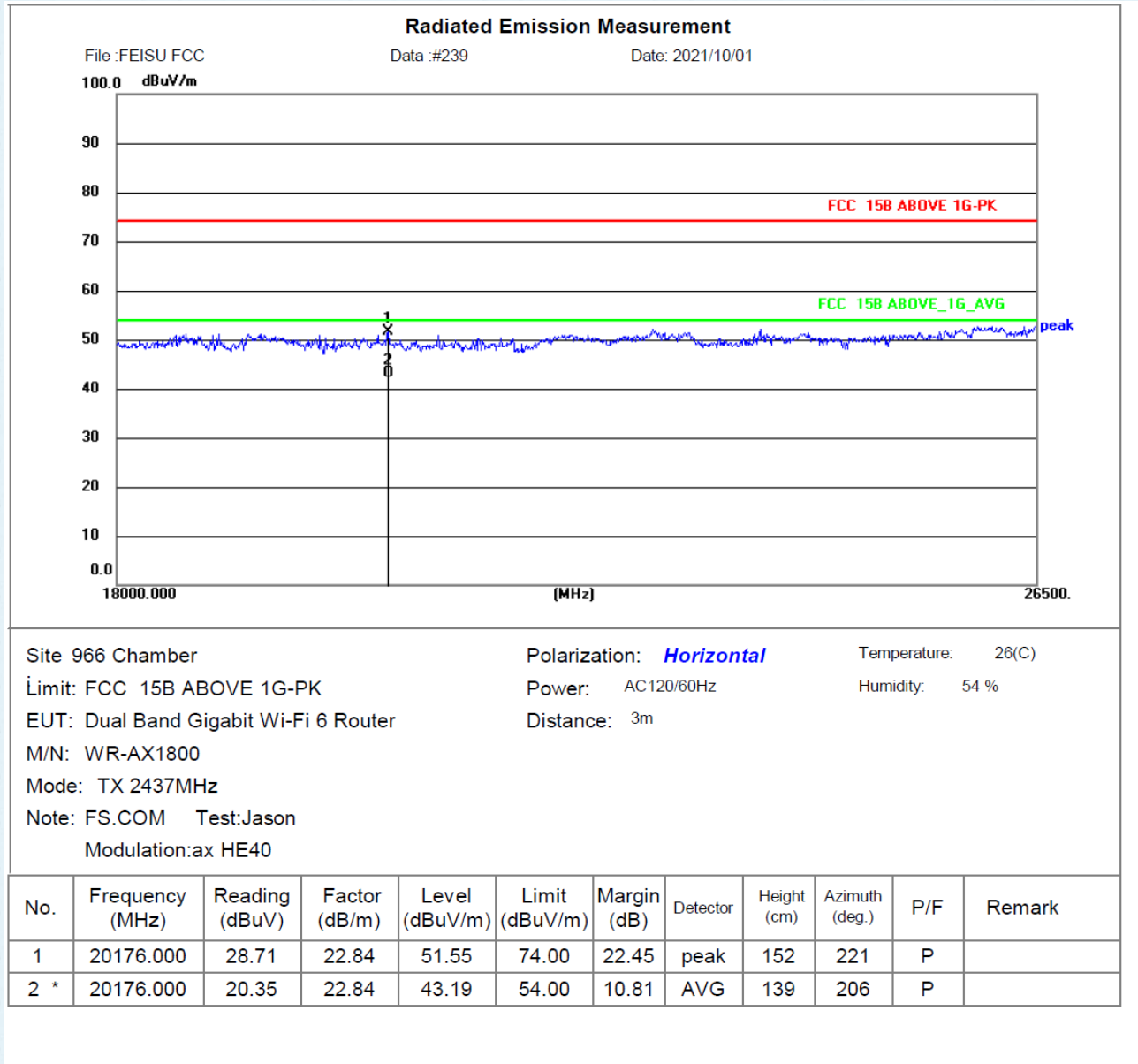
Horizontal:802.11ax(HE40) TX 2422MHz



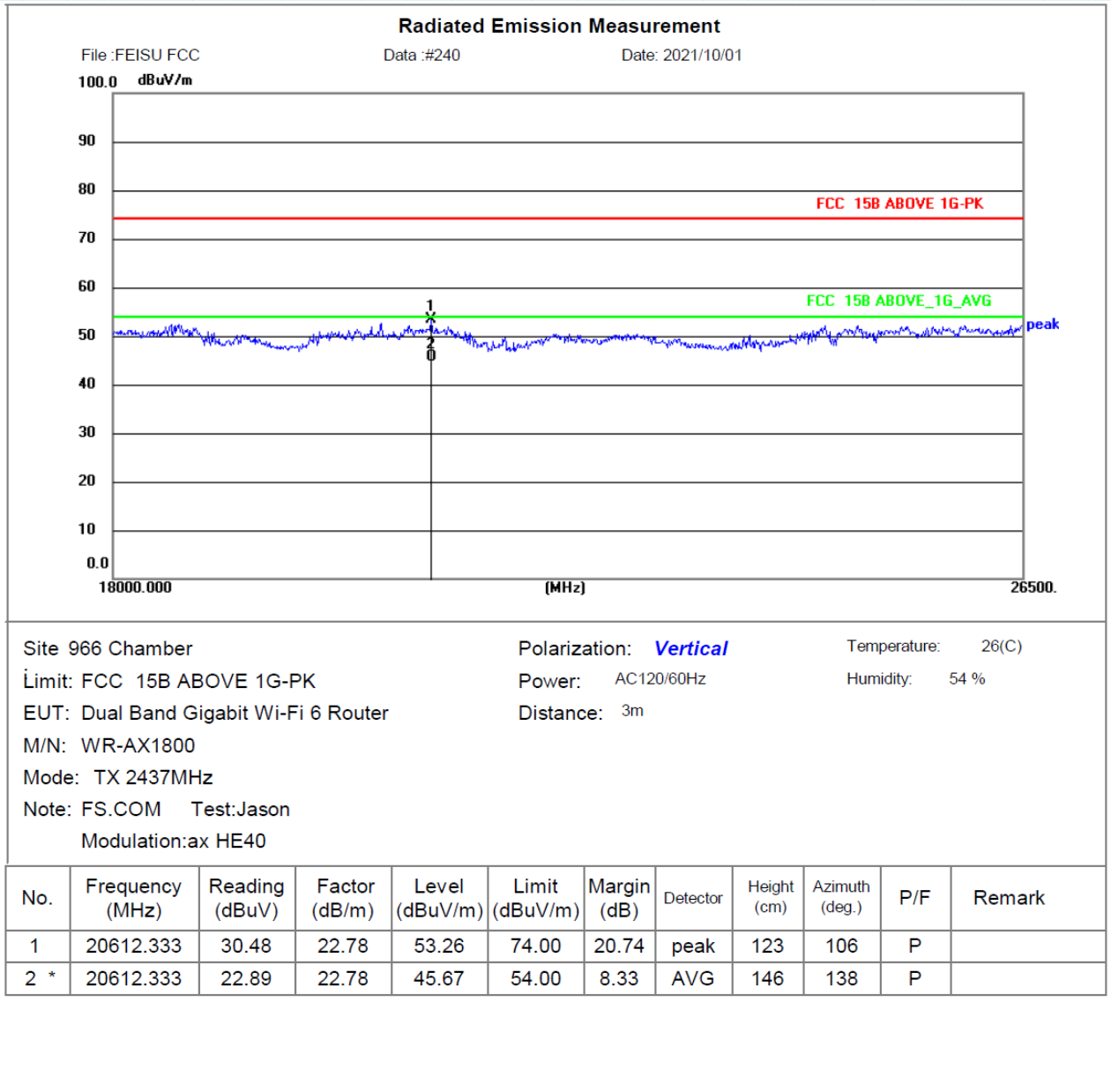
Vertical: 802.11ax(HE40) TX 2422MHz



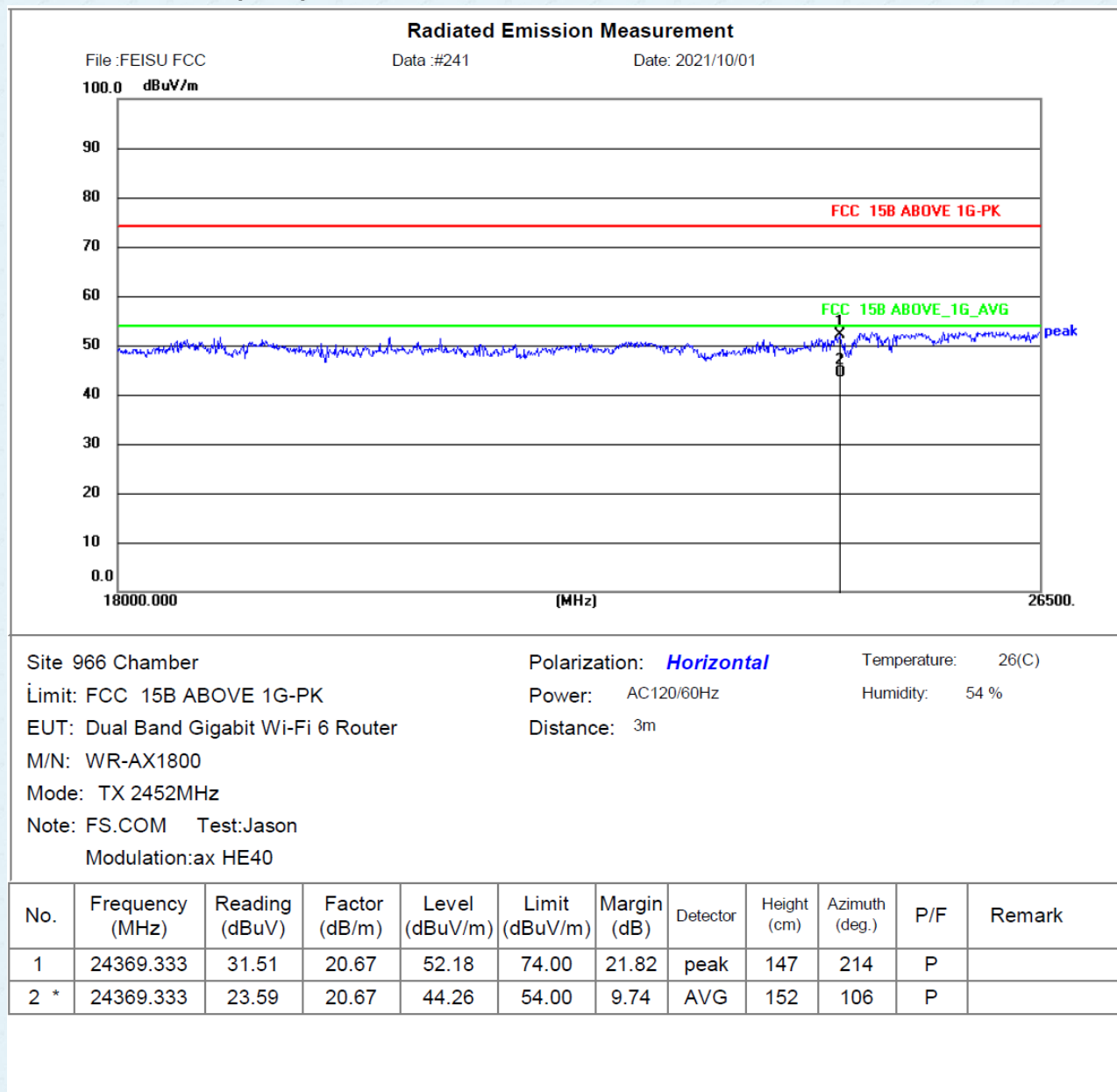
Horizontal: 802.11ax(HE40) TX 2437MHz



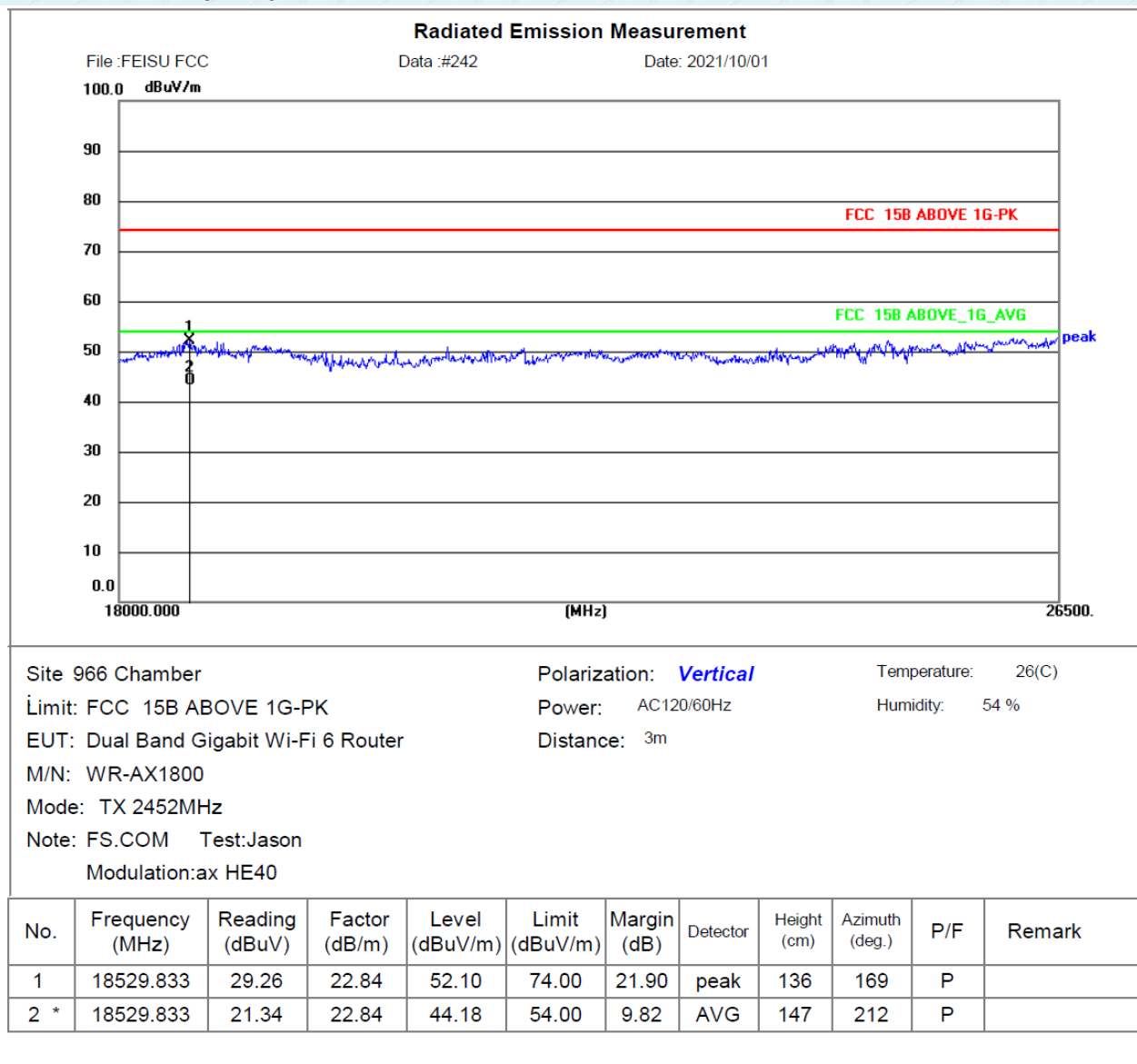
Vertical: 802.11ax(HE40) TX 2437MHz



Horizontal: 802.11ax(HE40) TX 2452MHz



Vertical: 802.11ax(HE40) TX 2462MHz



Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----