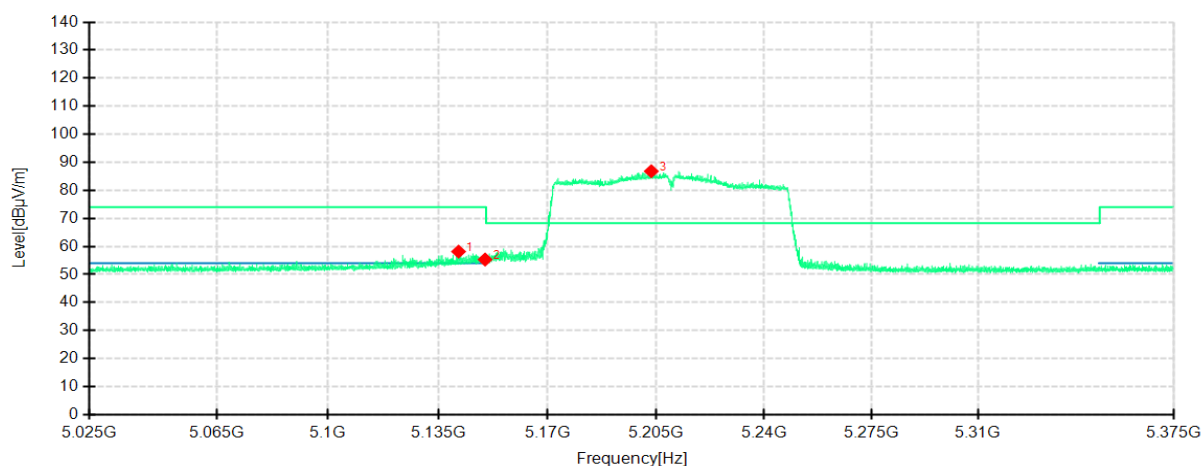


IEEE 802.11ac VHT80 mode/5210MHz

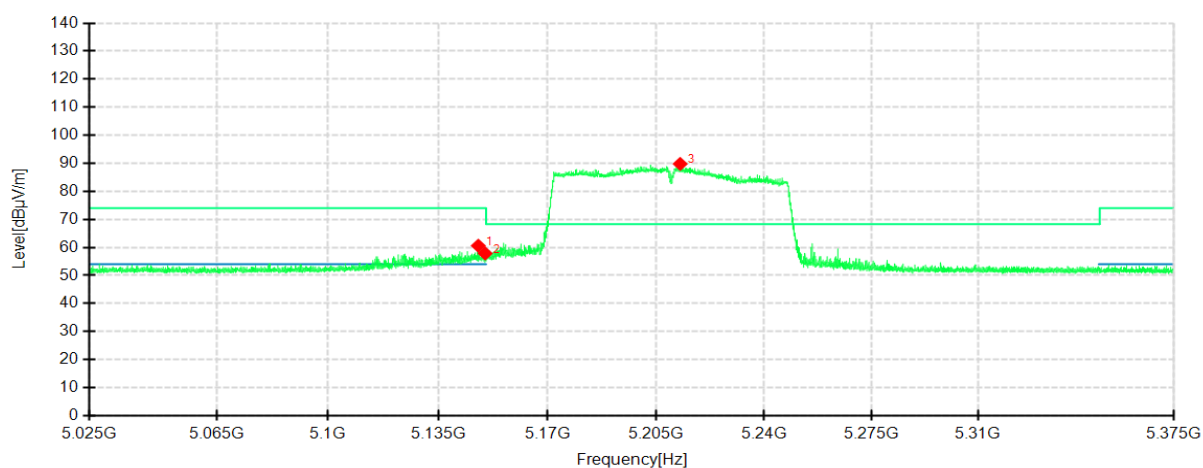
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

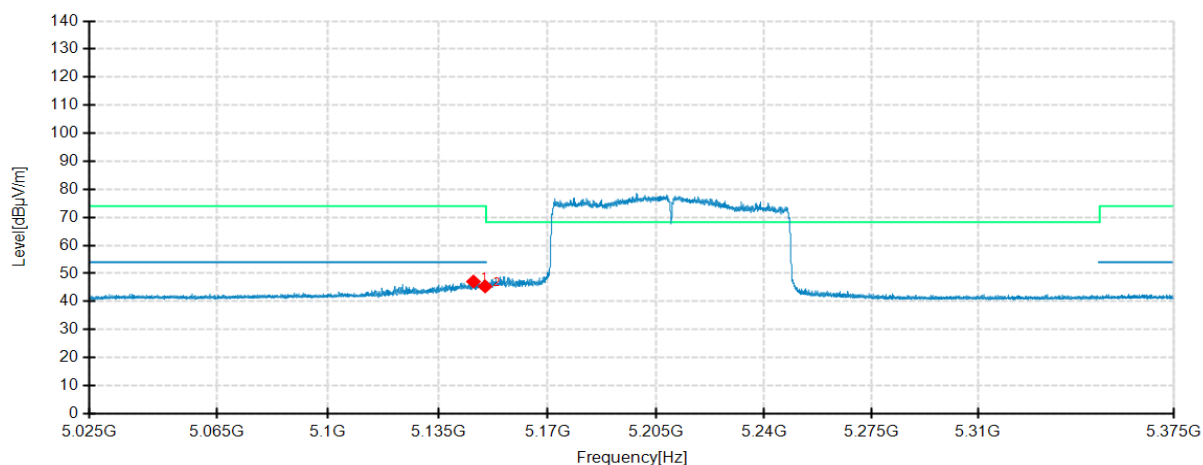


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5141.5150	43.96	58.16	14.20	74.00	15.84	100	148	Horizontal	/
2	5150.0000	41.14	55.32	14.18	74.00	18.68	100	148	Horizontal	/
3	5203.4300	72.89	86.80	13.91	68.30	-18.50	100	165	Horizontal	No limit
1	5147.8150	46.51	60.59	14.08	74.00	13.41	100	188	Vertical	/
2	5150.0000	43.77	57.85	14.08	74.00	16.15	100	185	Vertical	/
3	5212.7400	75.73	89.77	14.04	68.30	-21.47	100	193	Vertical	No limit

IEEE 802.11ac VHT80 mode/5210MHz

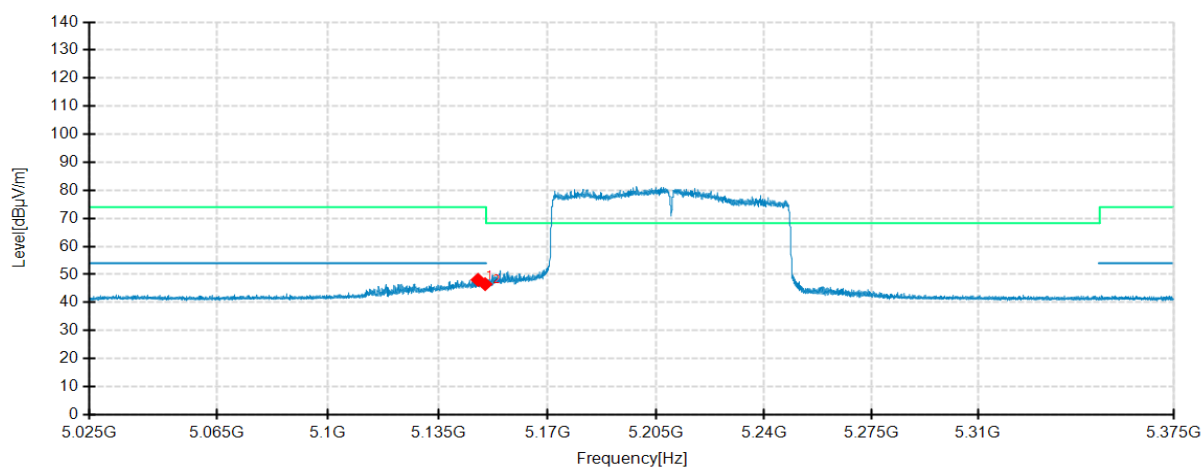
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

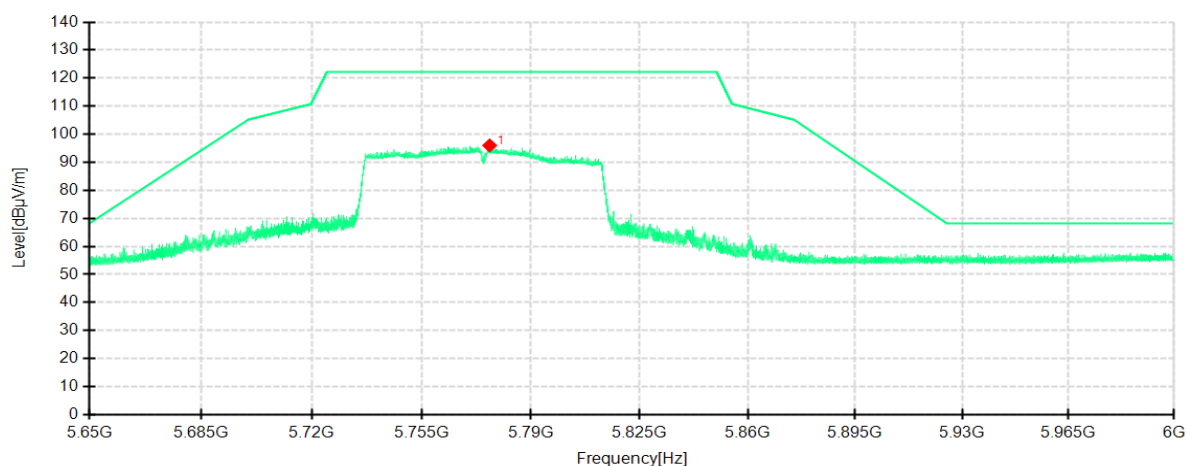


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Liit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5146.2750	32.93	47.12	14.19	54.00	6.88	100	148	Horizontal	/
2	5150.0000	31.20	45.38	14.18	54.00	8.62	100	143	Horizontal	/
1	5147.7100	33.99	48.07	14.08	54.00	5.93	100	185	Vertical	/
2	5150.0000	32.46	46.54	14.08	54.00	7.46	100	191	Vertical	/

IEEE 802.11ac VHT80 mode/5775MHz

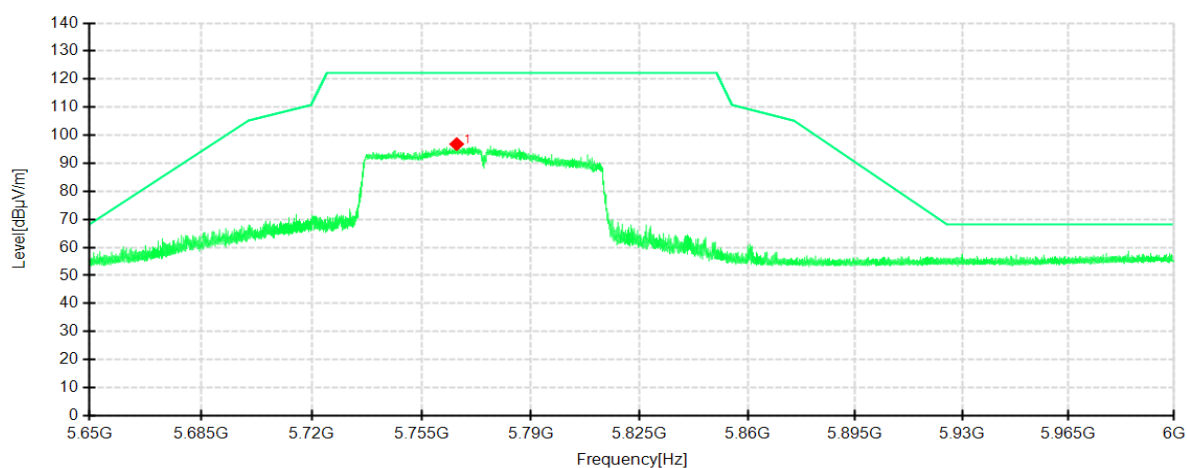
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5776.7525	78.84	95.99	17.15	122.20	26.21	200	359	Horizontal	/
1	5766.2000	79.65	96.84	17.19	122.20	25.36	200	17	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

8. 6DB BANDWIDTH & 26DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

8.1. LIMITS

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth $\geq$ 500kHz

8.2. TEST PROCEDURES

For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 1.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurements as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 2.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

Table 1:

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	> RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

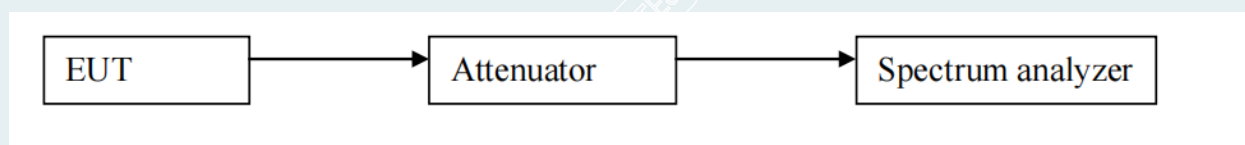
Table 2:

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100kHz
VBW	300kHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

Table 3:

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

8.3. TEST SETUP



8.4. TEST RESULTS

Environmental Conditions	22.6°C/48%RH	Test Voltage	AC120V/60Hz
Tested By	Deng Weihao	Tested Date	2023-03-23

6DB BANDWIDTH

TestMode	Antenna	Frequency [MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5745	16.32	5736.84	5753.16	≥ 0.5	PASS
		5785	16.32	5776.84	5793.16	≥ 0.5	PASS
		5825	16.32	5816.84	5833.16	≥ 0.5	PASS
IEEE 802.11n HT20	Ant1	5745	17.28	5736.48	5753.76	≥ 0.5	PASS
		5785	17.32	5776.24	5793.56	≥ 0.5	PASS
		5825	17.52	5816.24	5833.76	≥ 0.5	PASS
IEEE 802.11n HT40	Ant1	5755	36.08	5737.08	5773.16	≥ 0.5	PASS
		5795	35.52	5777.08	5812.60	≥ 0.5	PASS
IEEE 802.11ac VHT20	Ant1	5745	17.56	5736.24	5753.80	≥ 0.5	PASS
		5785	17.56	5776.24	5793.80	≥ 0.5	PASS
		5825	17.56	5816.24	5833.80	≥ 0.5	PASS
IEEE 802.11ac VHT40	Ant1	5755	36.08	5737.08	5773.16	≥ 0.5	PASS
		5795	35.60	5777.16	5812.76	≥ 0.5	PASS
IEEE 802.11ac VHT80	Ant1	5775	75.20	5737.40	5812.60	≥ 0.5	PASS

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26DB BANDWIDTH

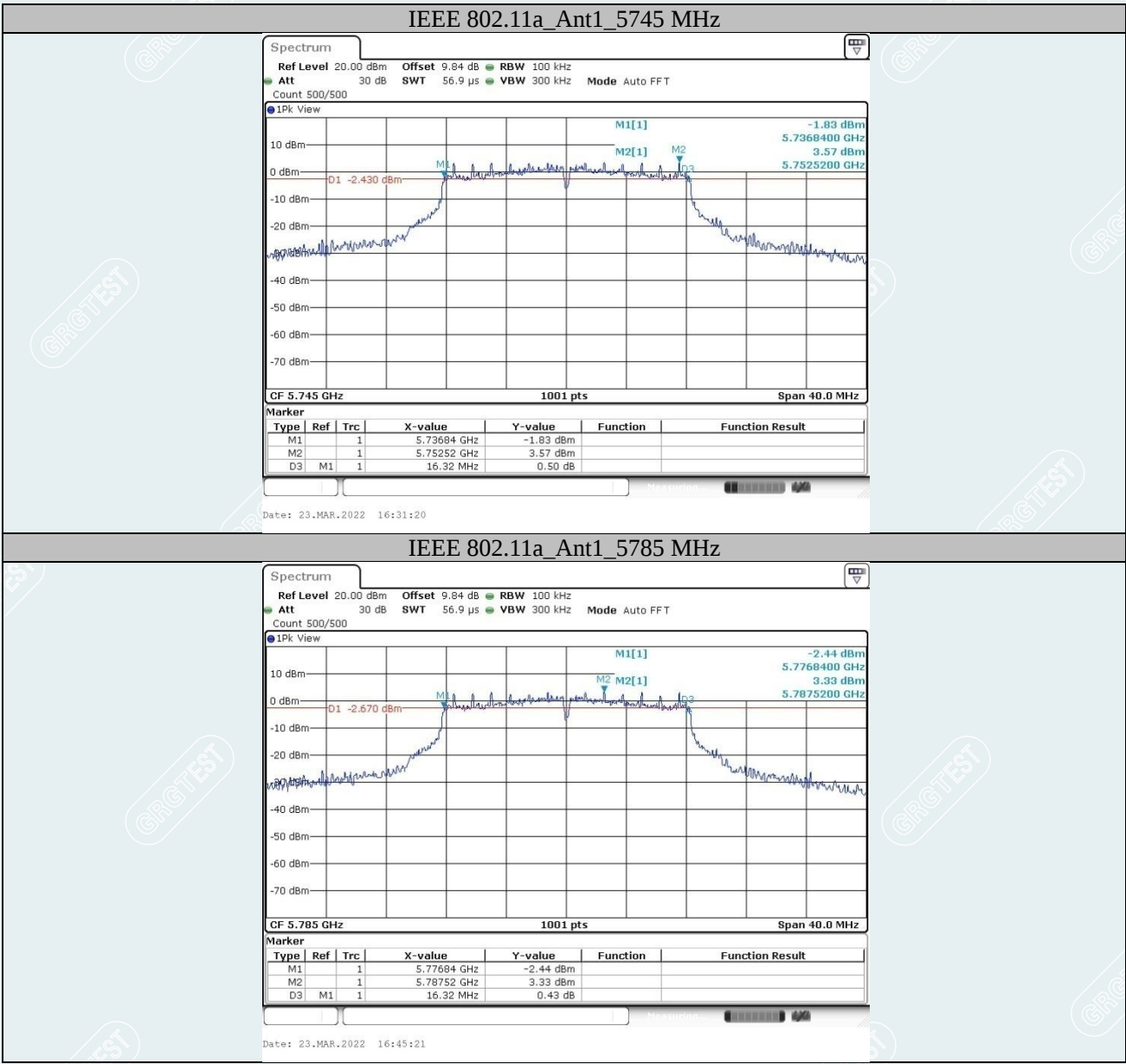
TestMode	Antenna	Frequency [MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5180	21.64	5169.32	5190.96	---	PASS
		5200	21.52	5189.32	5210.84	---	PASS
		5240	21.68	5229.32	5251.00	---	PASS
IEEE 802.11n HT20	Ant1	5180	21.72	5169.28	5191.00	---	PASS
		5200	21.64	5189.36	5212.32	---	PASS
		5240	21.84	5229.20	5253.24	---	PASS
IEEE 802.11n HT40	Ant1	5190	41.45	5169.84	5217.04	---	PASS
		5230	41.76	5209.76	5255.12	---	PASS
IEEE 802.11ac VHT20	Ant1	5180	21.65	5169.32	5193.56	---	PASS
		5200	21.68	5189.28	5212.56	---	PASS
		5240	21.76	5229.20	5251.68	---	PASS
IEEE 802.11ac VHT40	Ant1	5190	41.77	5169.68	5221.28	---	PASS
		5230	41.53	5209.60	5258.88	---	PASS
IEEE 802.11ac VHT80	Ant1	5210	82.56	5168.40	5252.56	---	PASS

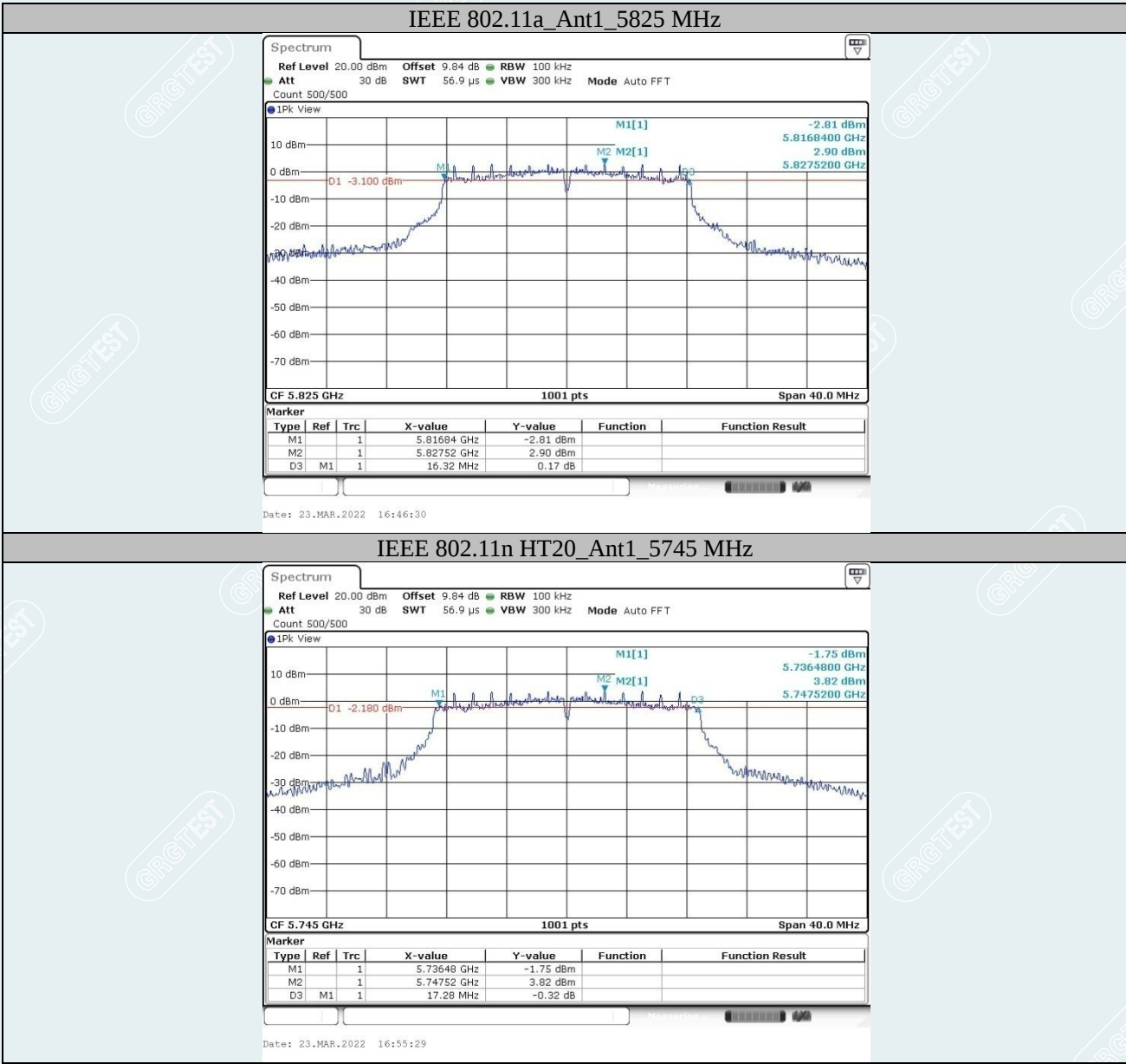
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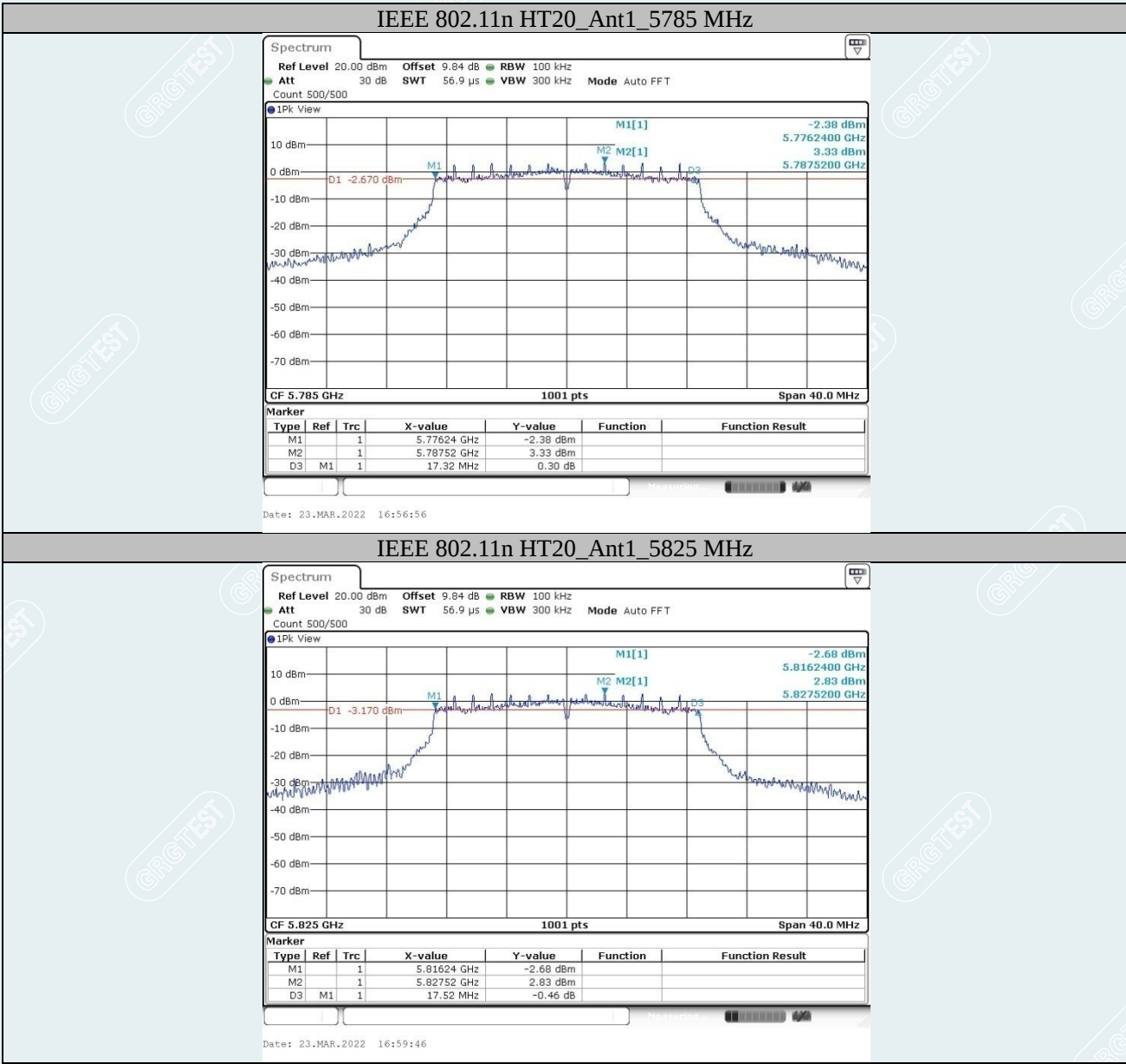
99% OCCUPIED BANDWIDTH

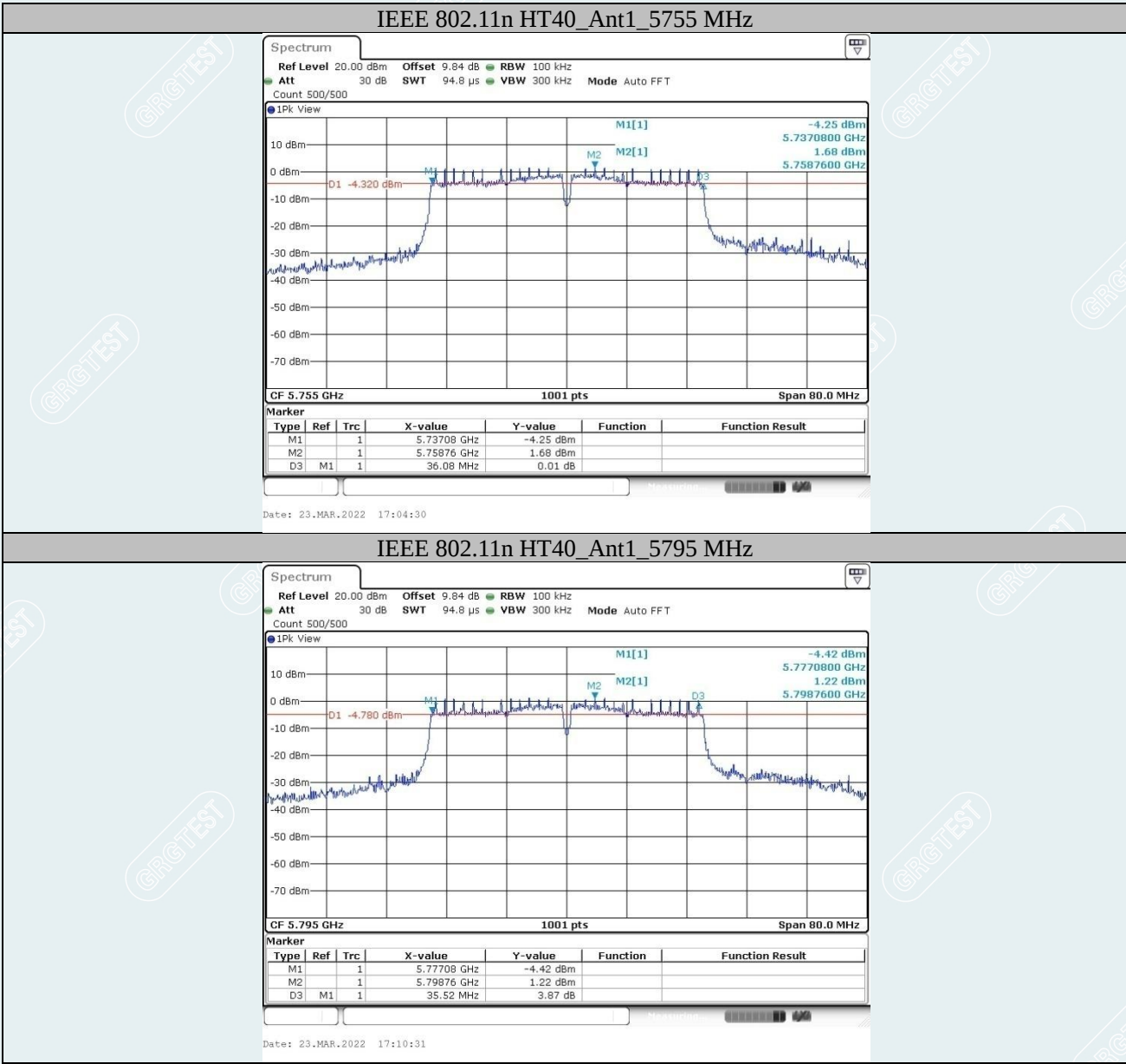
TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5180	17.902	5171.049	5188.951	---	PASS
		5200	17.982	5191.009	5208.991	---	PASS
		5240	17.862	5231.089	5248.951	---	PASS
		5745	18.022	5735.889	5753.911	---	PASS
		5785	18.062	5775.889	5793.951	---	PASS
		5825	18.102	5815.769	5833.871	---	PASS
IEEE 802.11n HT20	Ant1	5180	18.701	5170.769	5189.471	---	PASS
		5200	18.621	5190.809	5209.431	---	PASS
		5240	18.901	5230.769	5249.670	---	PASS
		5745	18.741	5735.569	5754.311	---	PASS
		5785	18.741	5775.649	5794.391	---	PASS
		5825	18.661	5815.689	5834.351	---	PASS
IEEE 802.11n HT40	Ant1	5190	36.763	5171.698	5208.462	---	PASS
		5230	36.923	5211.618	5248.541	---	PASS
		5755	37.163	5736.618	5773.781	---	PASS
		5795	36.843	5776.698	5813.541	---	PASS
IEEE 802.11ac VHT20	Ant1	5180	18.861	5170.529	5189.391	---	PASS
		5200	18.661	5190.729	5209.391	---	PASS
		5240	18.901	5230.569	5249.471	---	PASS
		5745	18.821	5735.649	5754.471	---	PASS
		5785	18.741	5775.609	5794.351	---	PASS
		5825	18.901	5815.450	5834.351	---	PASS
IEEE 802.11ac VHT40	Ant1	5190	36.843	5171.698	5208.541	---	PASS
		5230	36.763	5211.778	5248.541	---	PASS
		5755	36.843	5736.698	5773.541	---	PASS
		5795	36.923	5776.618	5813.541	---	PASS
IEEE 802.11ac VHT80	Ant1	5210	76.084	5172.118	5248.202	---	PASS
		5775	76.084	5737.118	5813.202	---	PASS

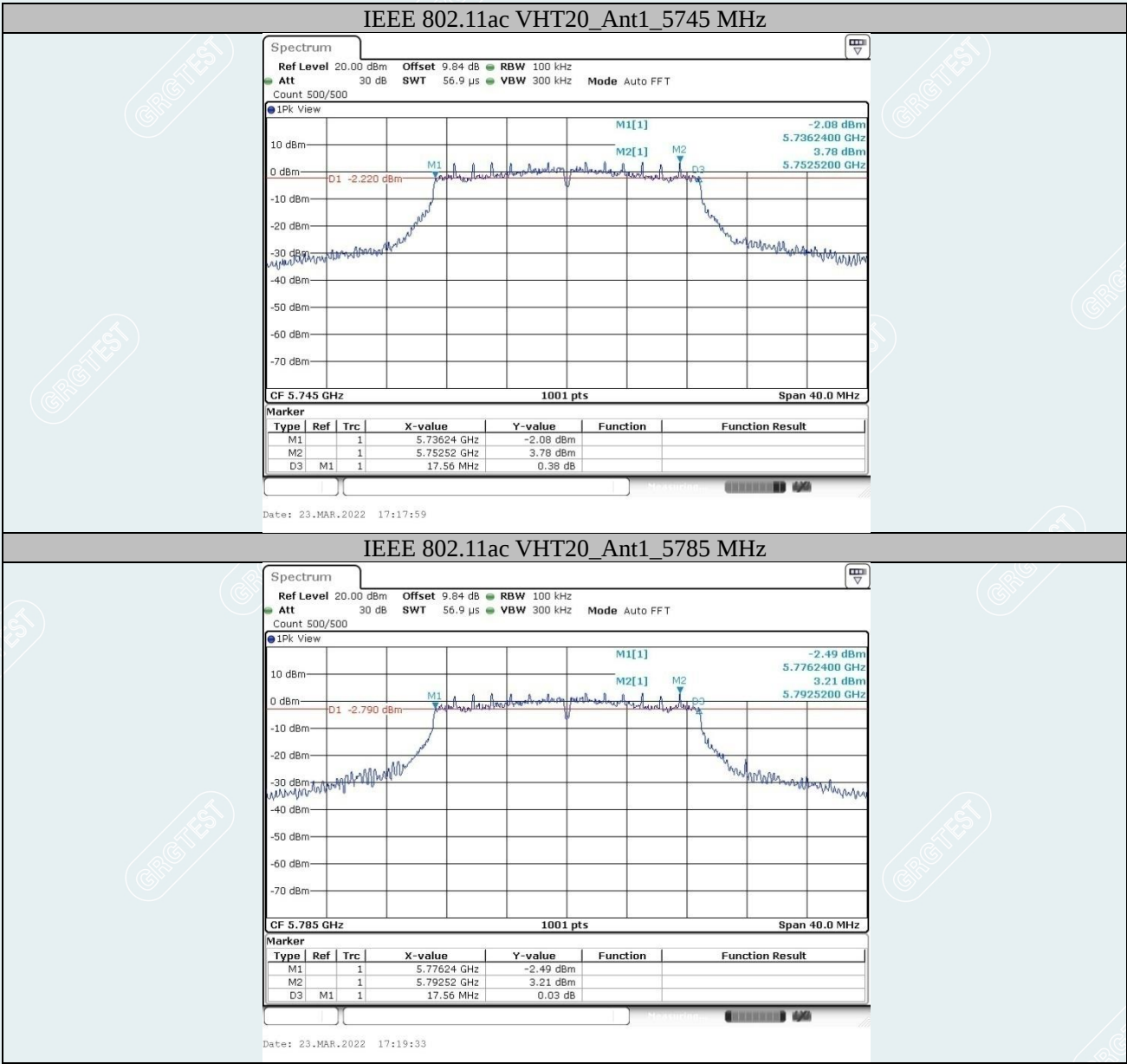
6DB BANDWIDTH

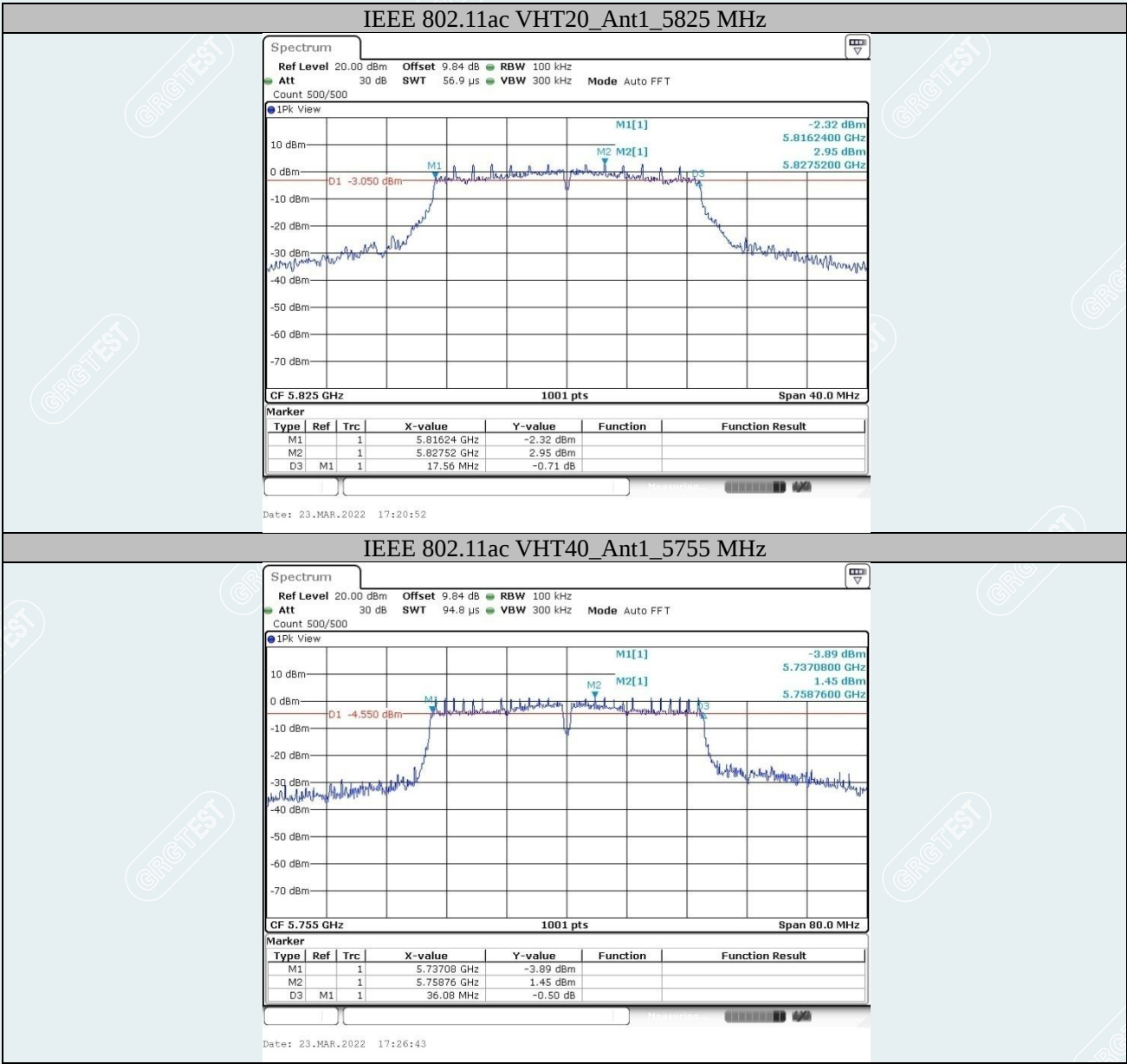


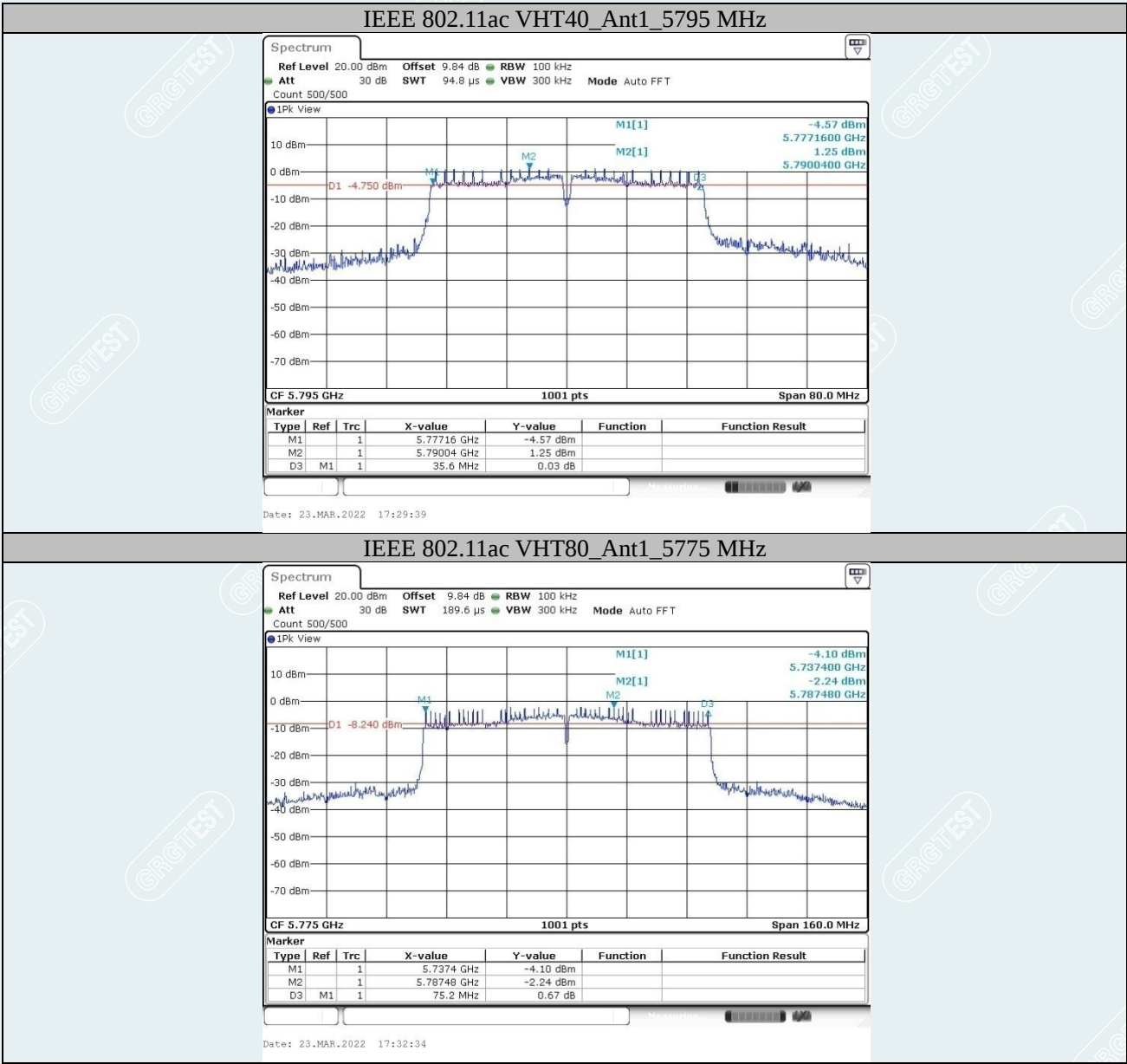








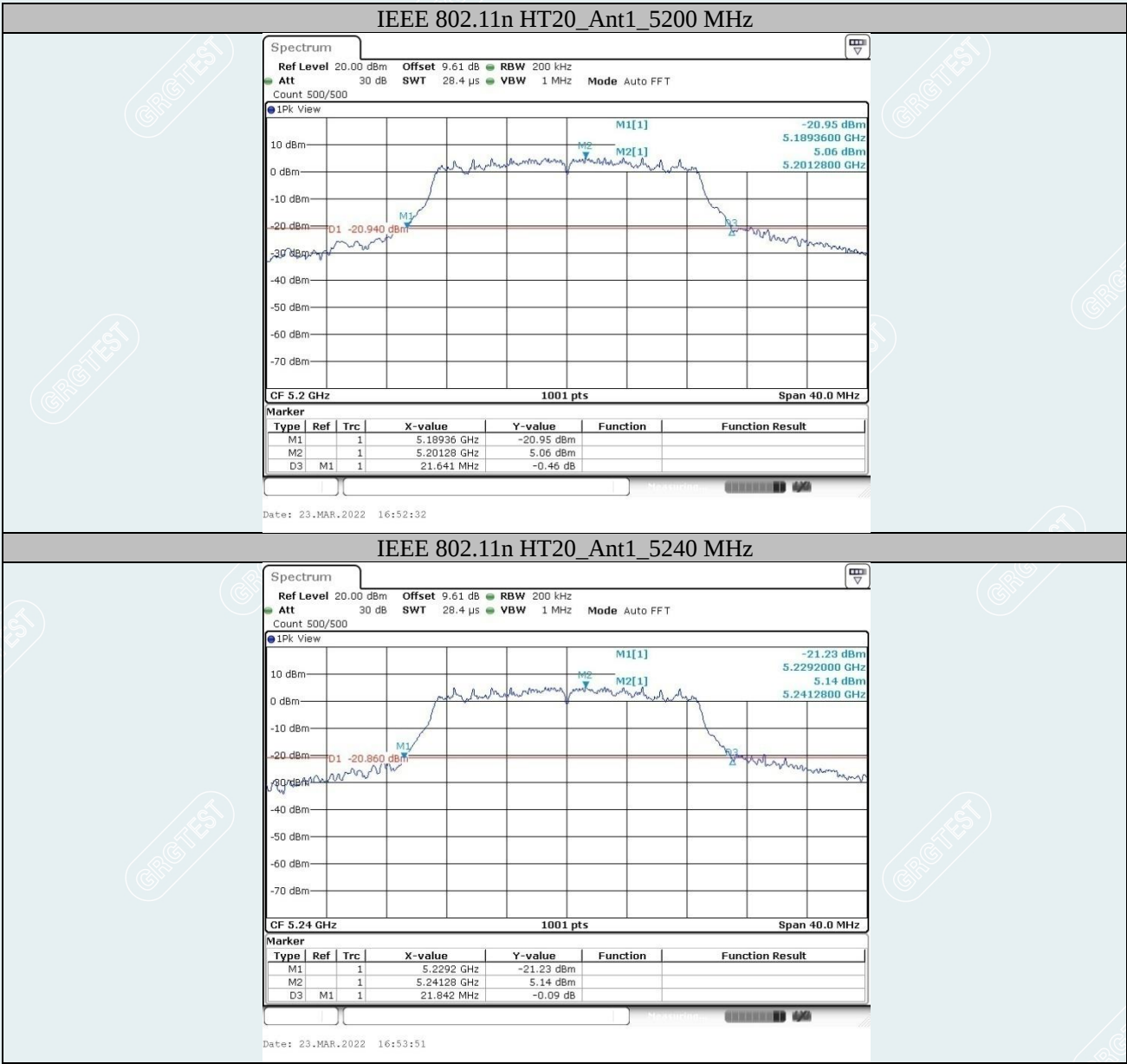


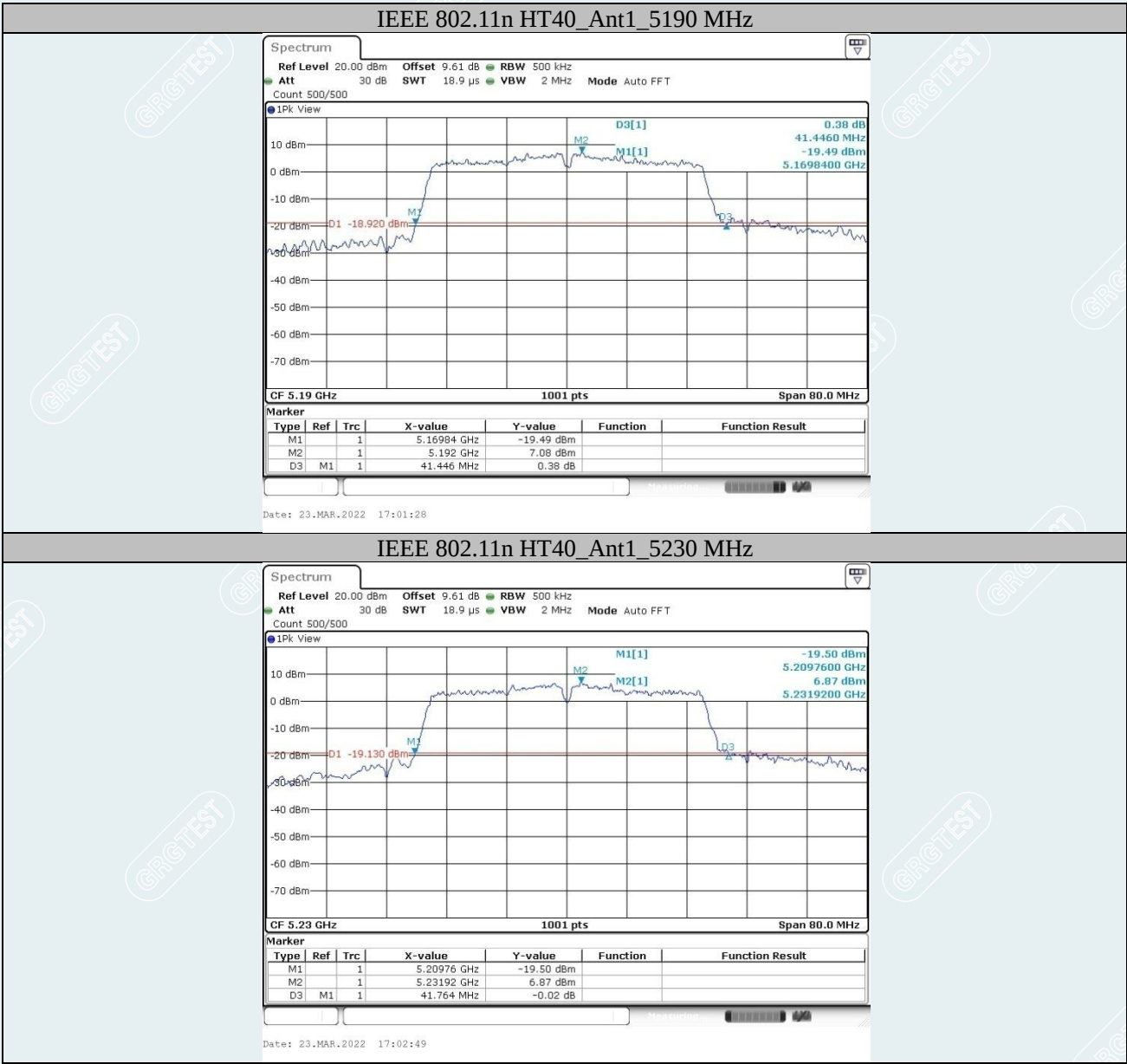


26DB BANDWIDTH





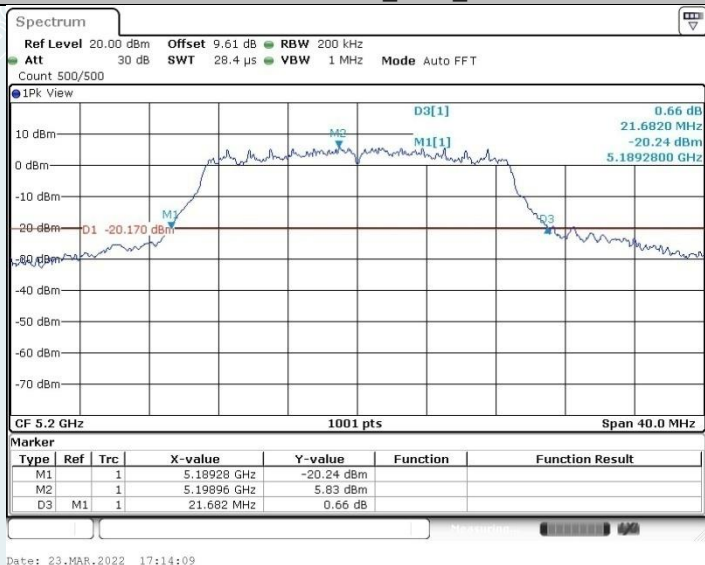


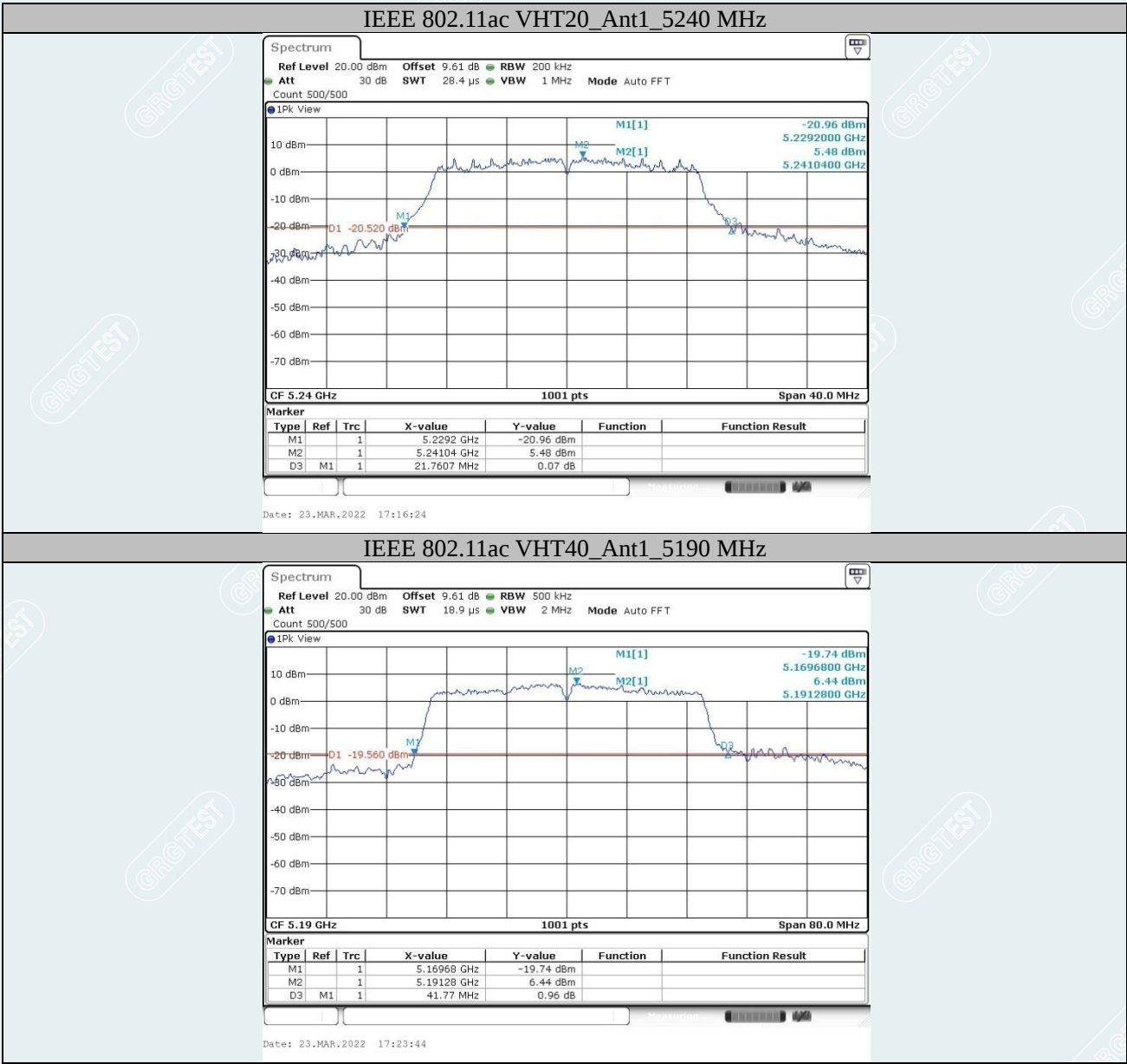


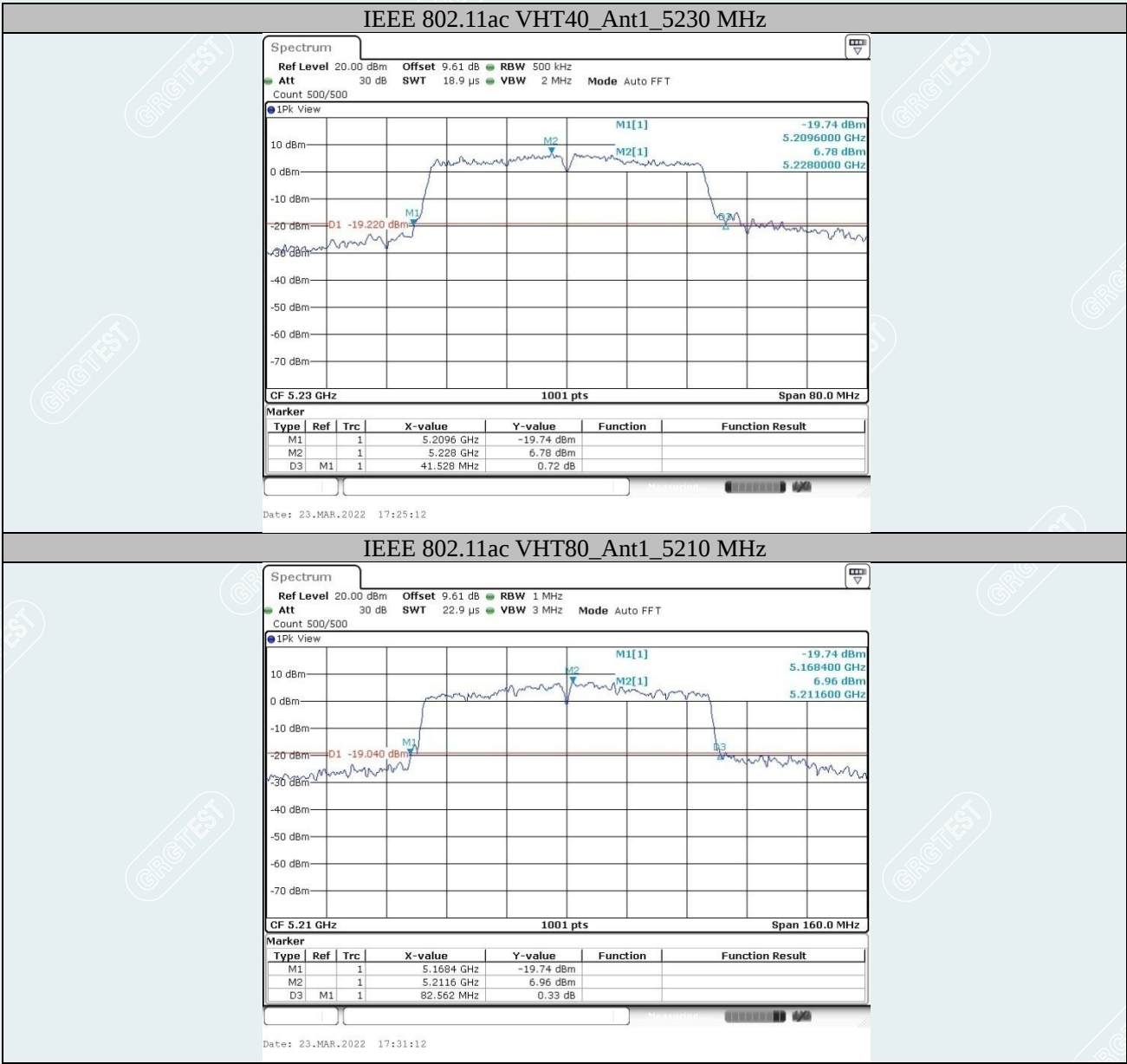
IEEE 802.11ac VHT20_Ant1_5180 MHz



IEEE 802.11ac VHT20_Ant1_5200 MHz







99% OCCUPIED BANDWIDTH

