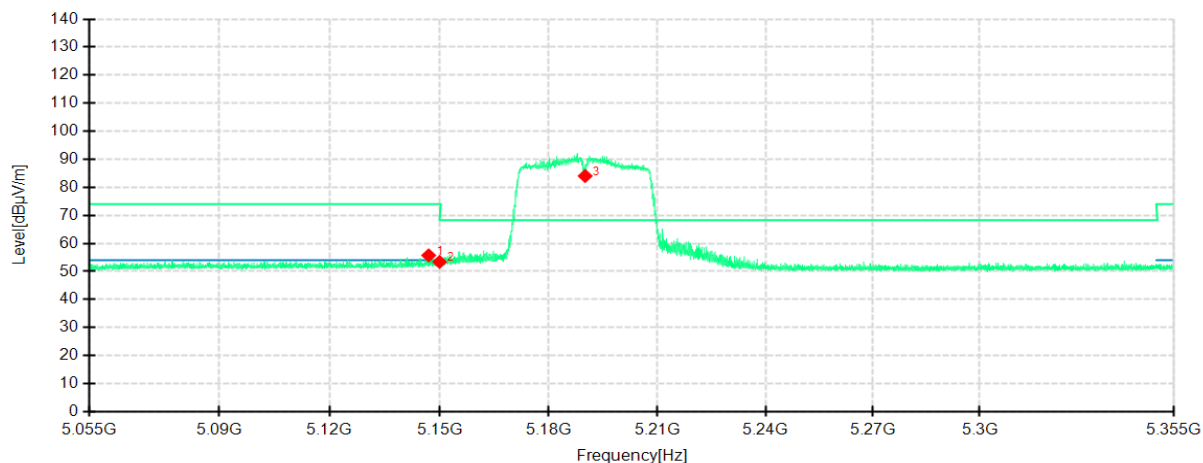


802.11ac VHT40 mode/5190MHz

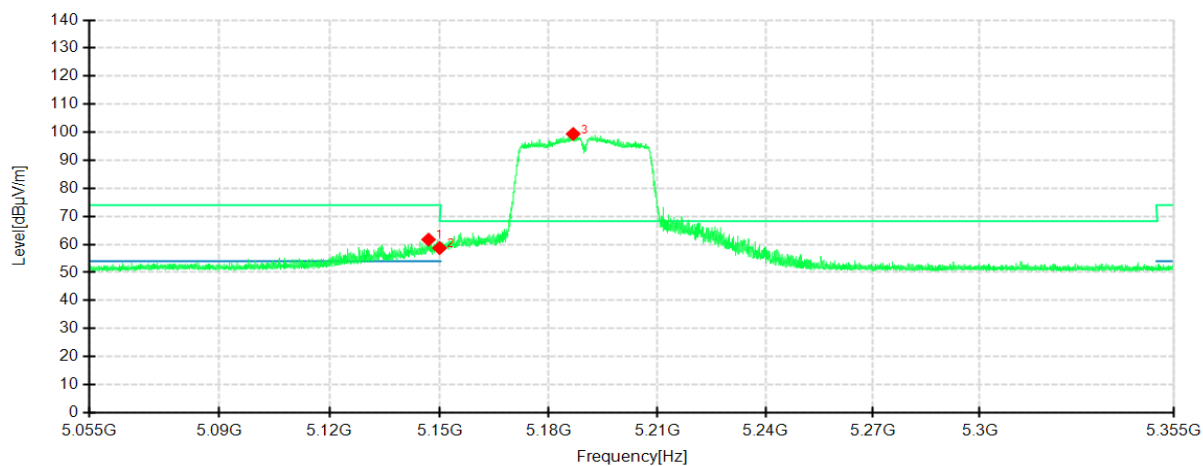
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

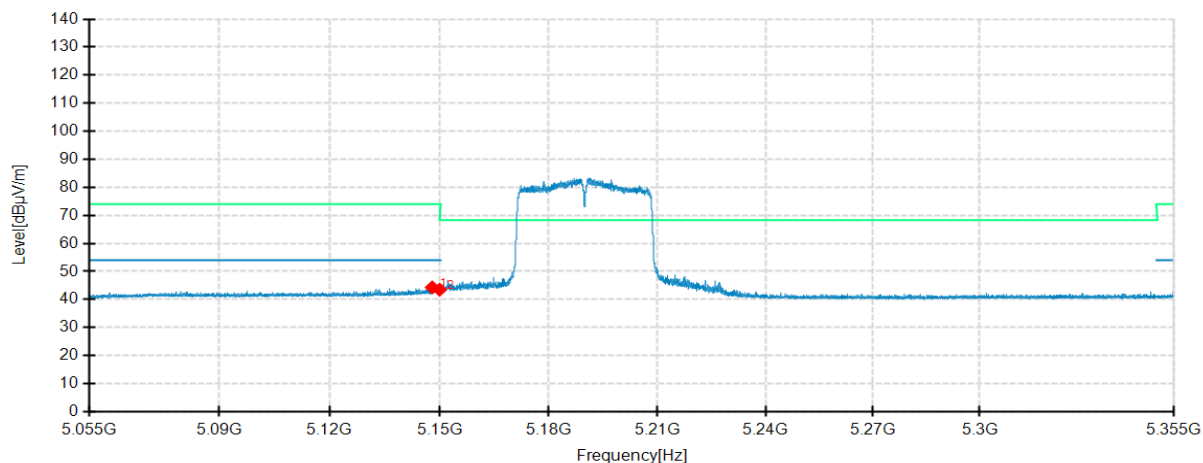


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5147.0100	41.54	55.73	14.19	74.00	18.27	200	201	Horizontal	/
2	5150.0000	39.22	53.40	14.18	74.00	20.60	100	231	Horizontal	/
3	5190.0000	70.07	84.04	13.97	68.30	-15.74	200	204	Horizontal	No limit
1	5146.9800	47.65	61.73	14.08	74.00	12.27	100	224	Vertical	/
2	5150.0000	44.62	58.70	14.08	74.00	15.30	100	205	Vertical	/
3	5186.7000	85.35	99.39	14.04	68.30	-31.09	100	205	Vertical	No limit

802.11ac VHT40 mode/5190MHz

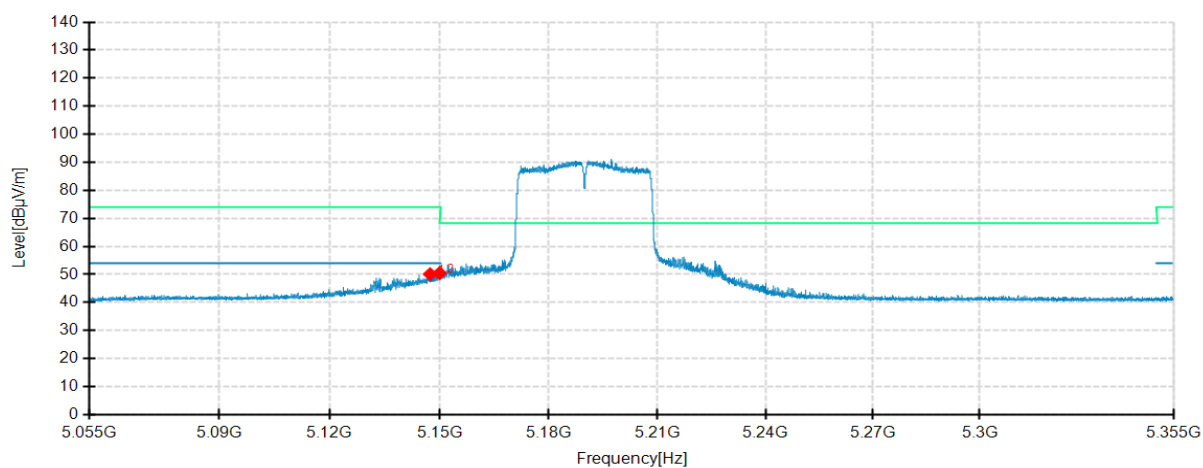
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

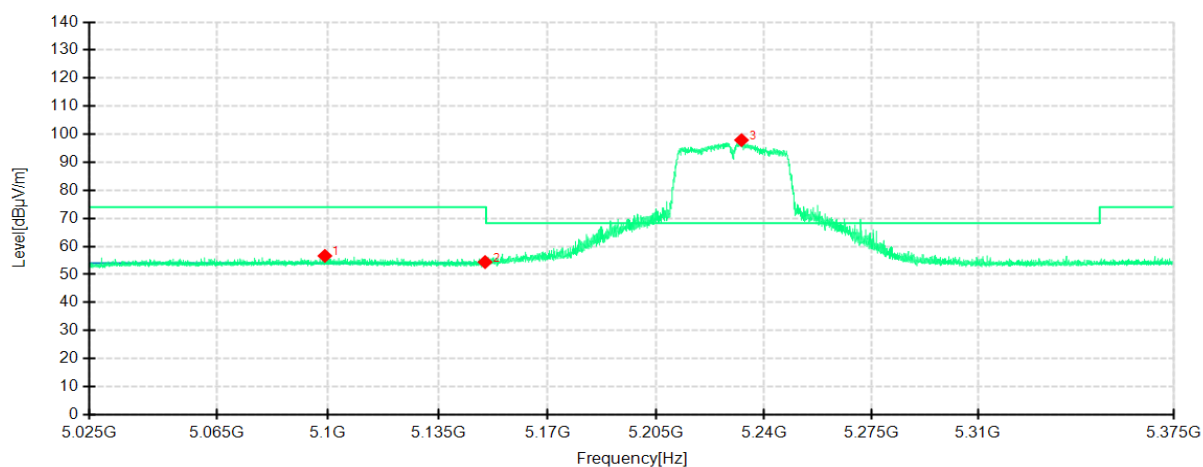


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5147.9700	30.13	44.32	14.19	54.00	9.68	100	232	Horizontal	/
2	5150.0000	29.33	43.51	14.18	54.00	10.49	200	202	Horizontal	/
1	5147.4000	36.04	50.12	14.08	54.00	3.88	100	204	Vertical	/
2	5150.0000	36.38	50.46	14.08	54.00	3.54	100	204	Vertical	/

802.11ac VHT40 mode/5230MHz

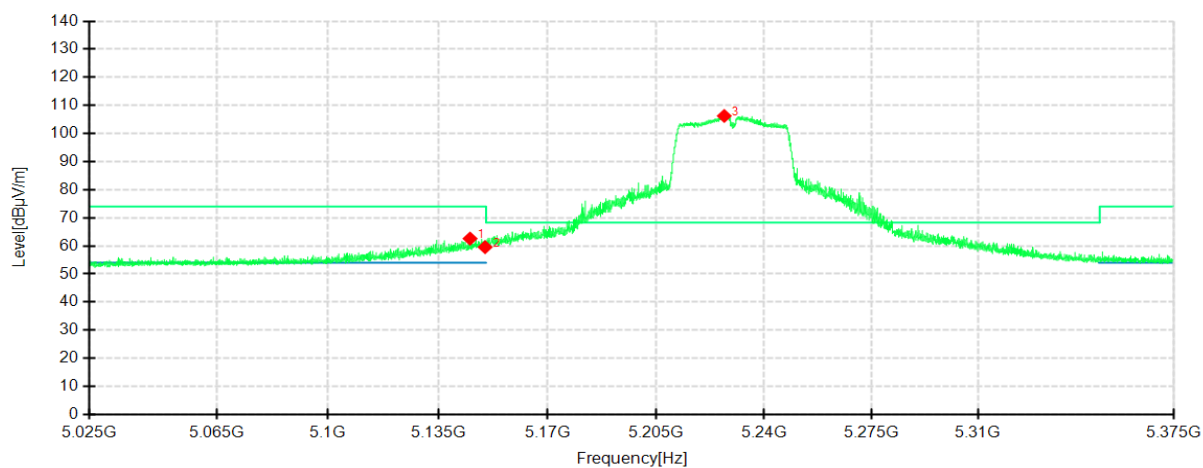
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

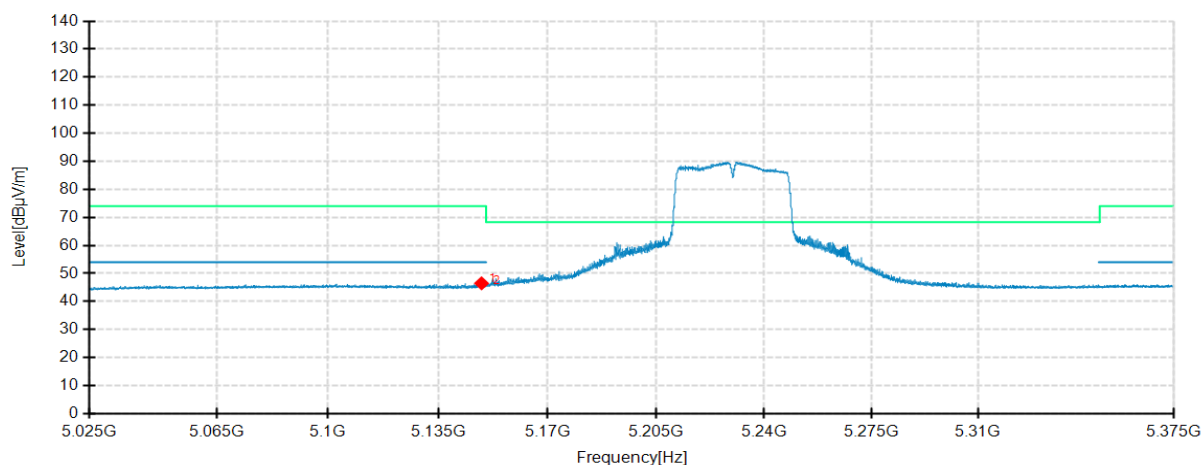


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5099.0250	41.77	56.61	14.84	74.00	17.39	200	198	Horizontal	/
2	5150.0000	40.64	54.41	13.77	74.00	19.59	100	142	Horizontal	/
3	5232.6375	83.45	97.91	14.46	68.30	-29.61	100	142	Horizontal	No limit
1	5145.1813	48.71	62.58	13.87	74.00	11.42	200	142	Vertical	/
2	5150.0000	45.78	59.55	13.77	74.00	14.45	200	360	Vertical	/
3	5227.0375	91.71	106.26	14.55	68.30	-37.96	200	142	Vertical	No limit

802.11ac VHT40 mode/5230MHz

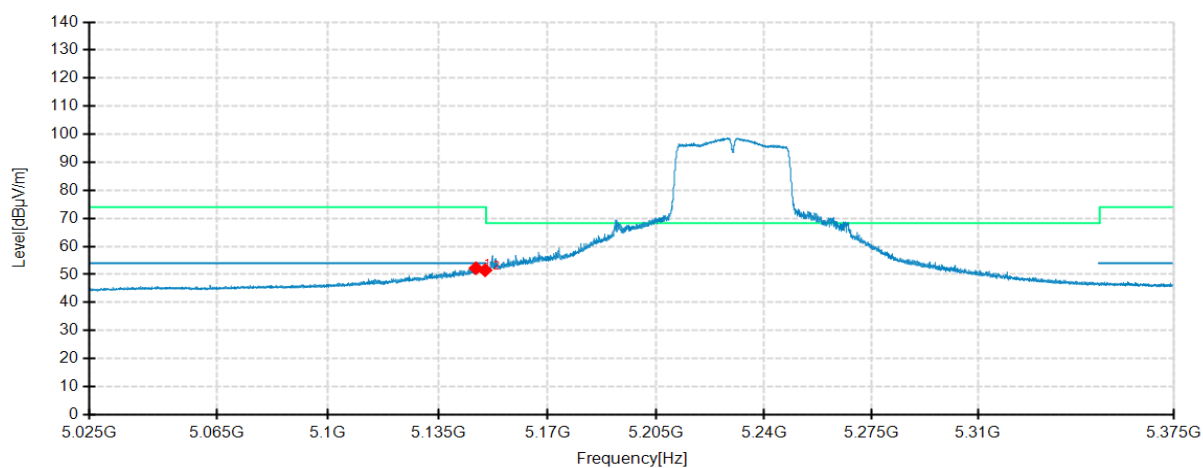
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

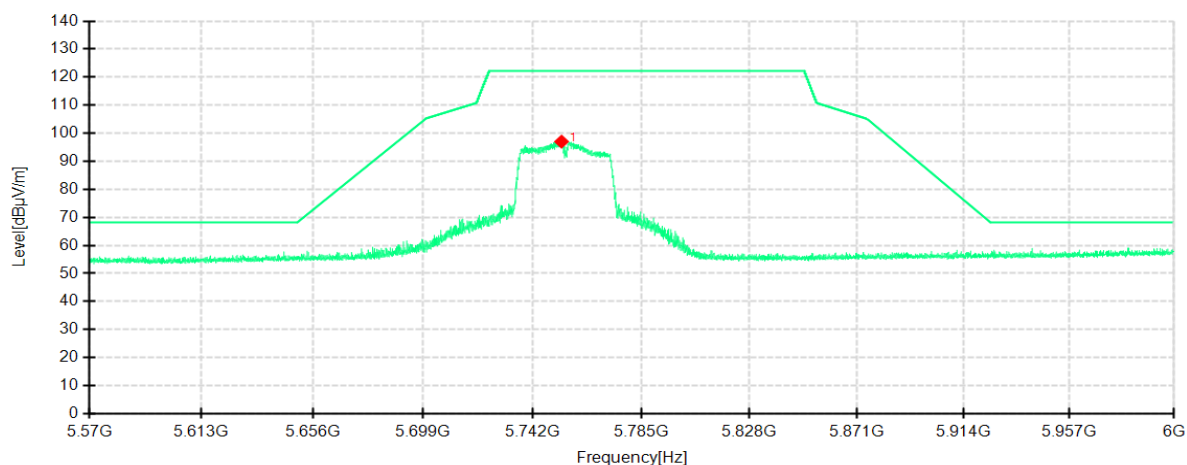


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5148.8563	32.68	46.47	13.79	54.00	7.53	100	142	Horizontal	/
2	5150.0000	32.02	45.79	13.77	54.00	8.21	200	28	Horizontal	/
1	5147.0625	38.39	52.22	13.83	54.00	1.78	100	29	Vertical	/
2	5150.0000	37.73	51.50	13.77	54.00	2.50	200	142	Vertical	/

802.11ac VHT40 mode/5755MHz

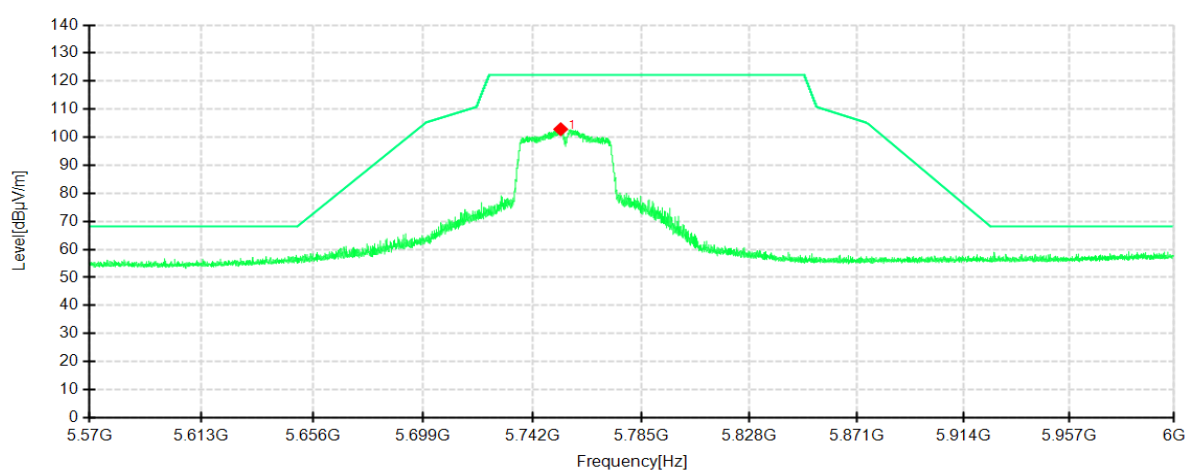
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

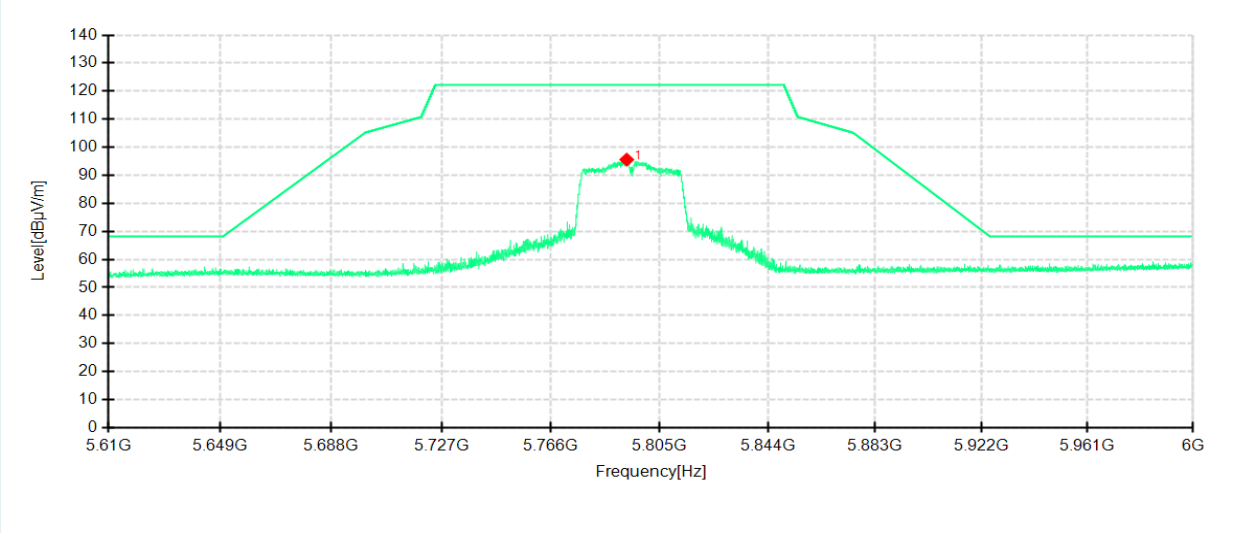
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5753.2875	79.76	97.00	17.24	122.20	25.20	100	238	Horizontal	/
1	5752.9650	85.62	102.86	17.24	122.20	19.34	200	209	Vertical	/

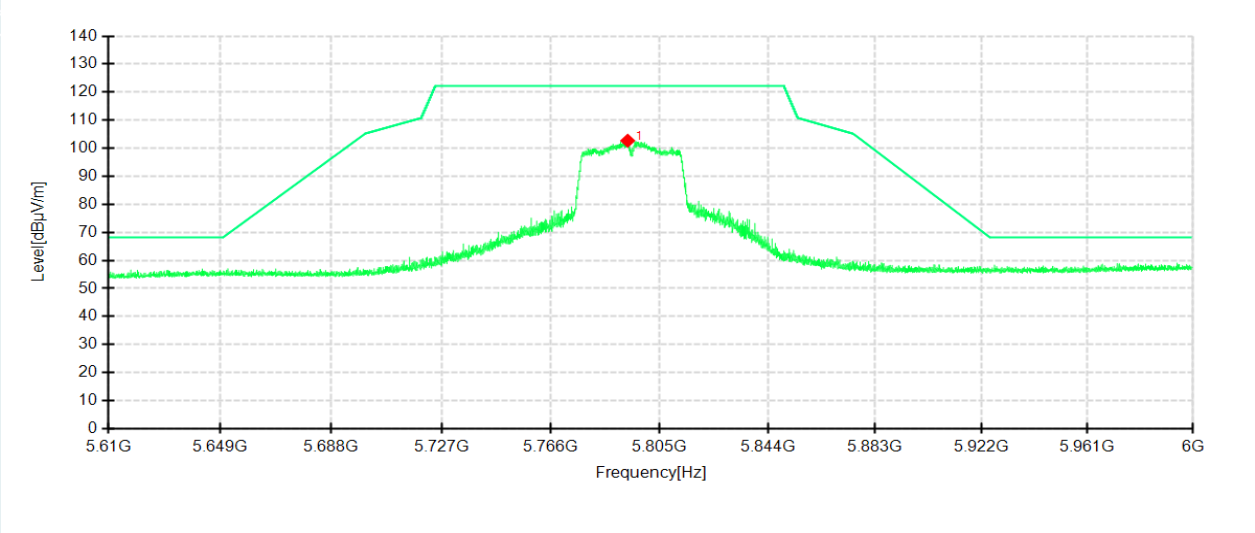
802.11ac VHT40 mode/5795MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

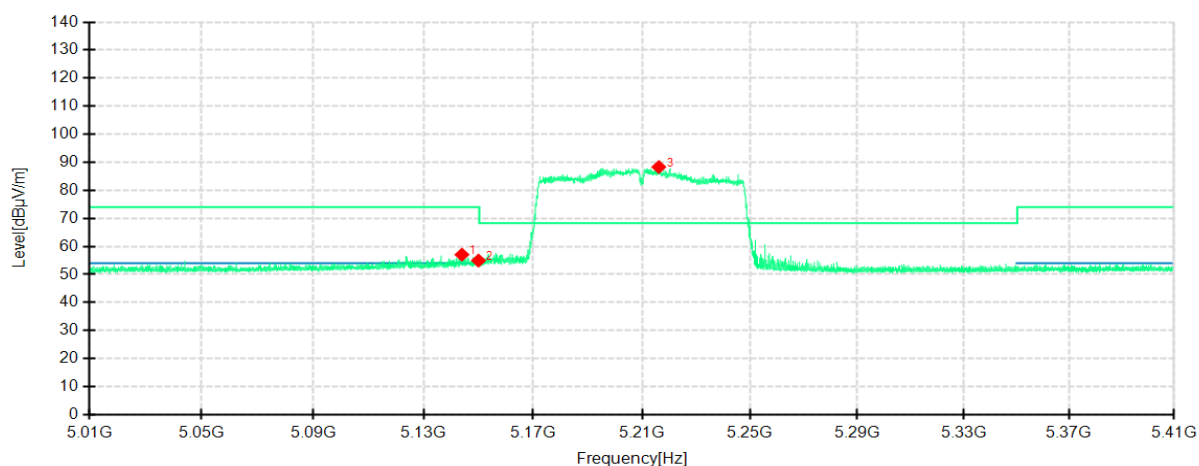


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5793.1538	78.48	95.57	17.09	122.20	26.63	100	225	Horizontal	/
1	5793.4950	85.60	102.68	17.08	122.20	19.52	200	210	Vertical	/

802.11ac VHT80 mode/5210MHz

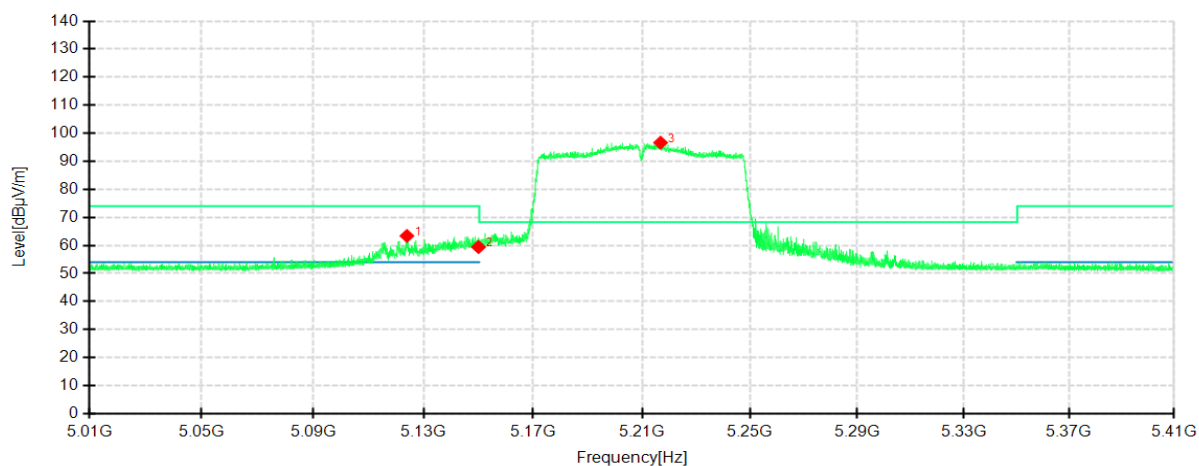
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

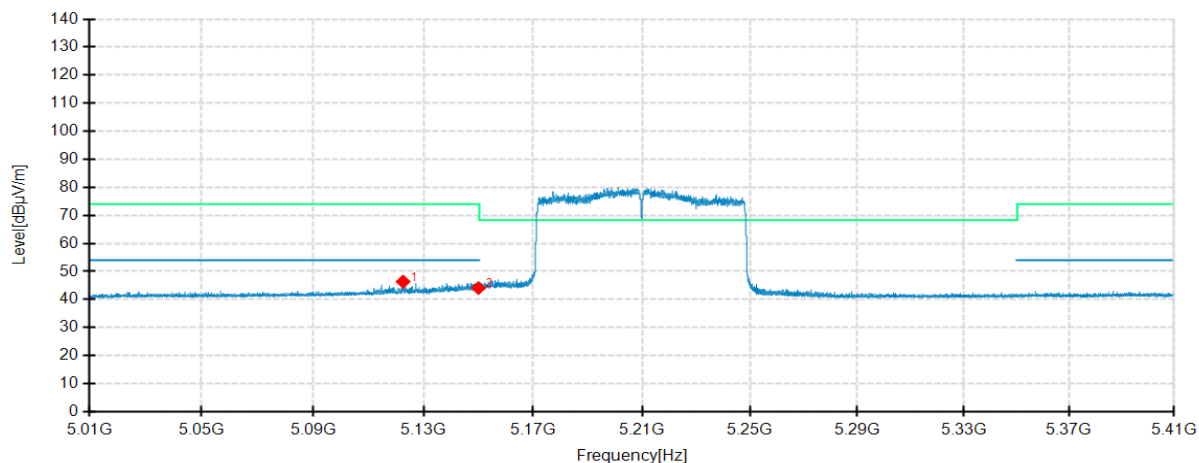


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5143.9600	42.86	57.06	14.20	74.00	16.94	100	232	Horizontal	/
2	5150.0000	40.78	54.96	14.18	74.00	19.04	200	199	Horizontal	/
3	5216.2000	74.44	88.31	13.87	68.30	-20.01	100	237	Horizontal	No limit
1	5123.9600	49.28	63.38	14.10	74.00	10.62	100	223	Vertical	/
2	5150.0000	45.33	59.41	14.08	74.00	14.59	100	201	Vertical	/
3	5216.8400	82.59	96.63	14.04	68.30	-28.33	100	210	Vertical	No limit

802.11ac VHT80 mode/5210MHz

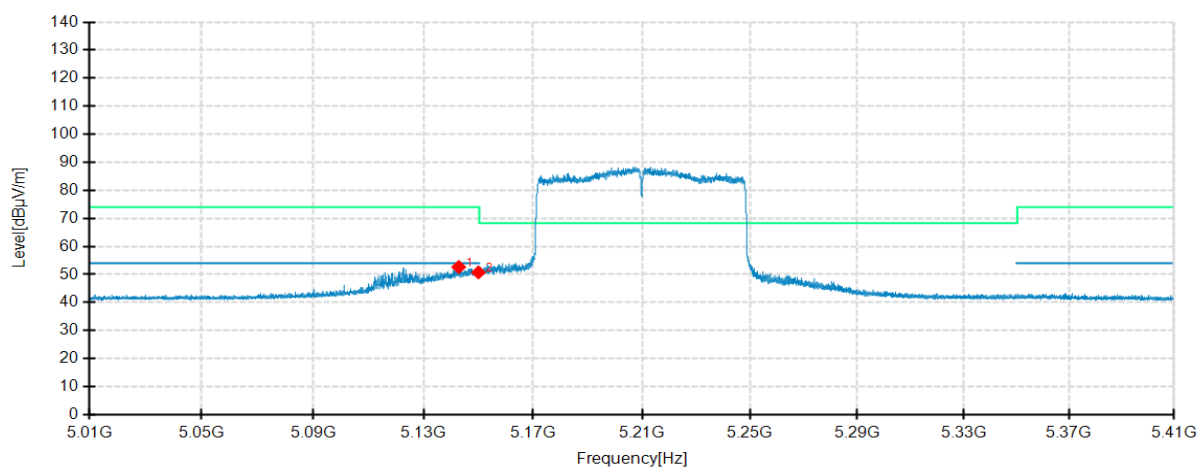
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

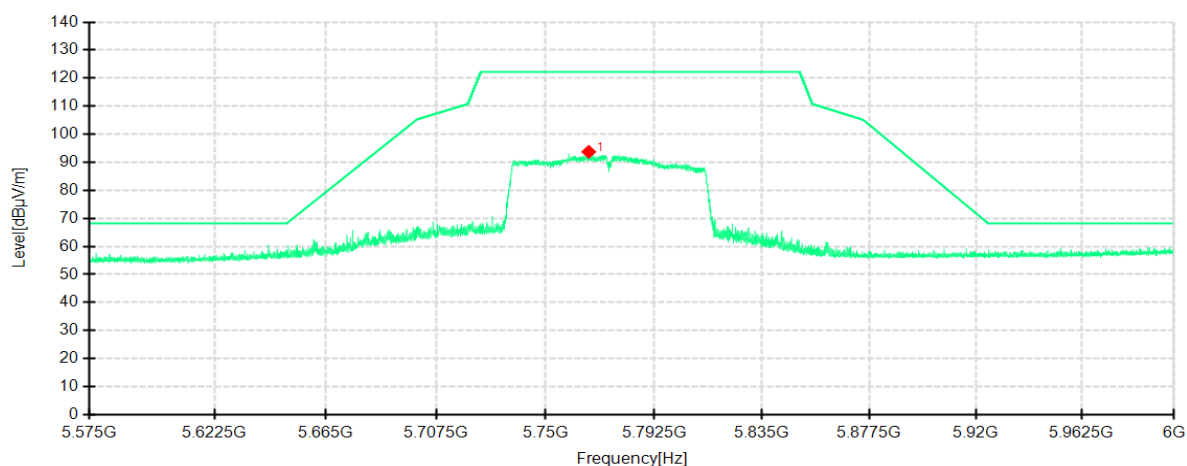


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Liit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5122.6000	32.10	46.36	14.26	54.00	7.64	100	231	Horizontal	/
2	5150.0000	29.89	44.07	14.18	54.00	9.93	100	239	Horizontal	/
1	5142.8000	38.56	52.65	14.09	54.00	1.35	100	204	Vertical	/
2	5150.0000	36.64	50.72	14.08	54.00	3.28	100	206	Vertical	/

802.11ac VHT80 mode/5775MHz

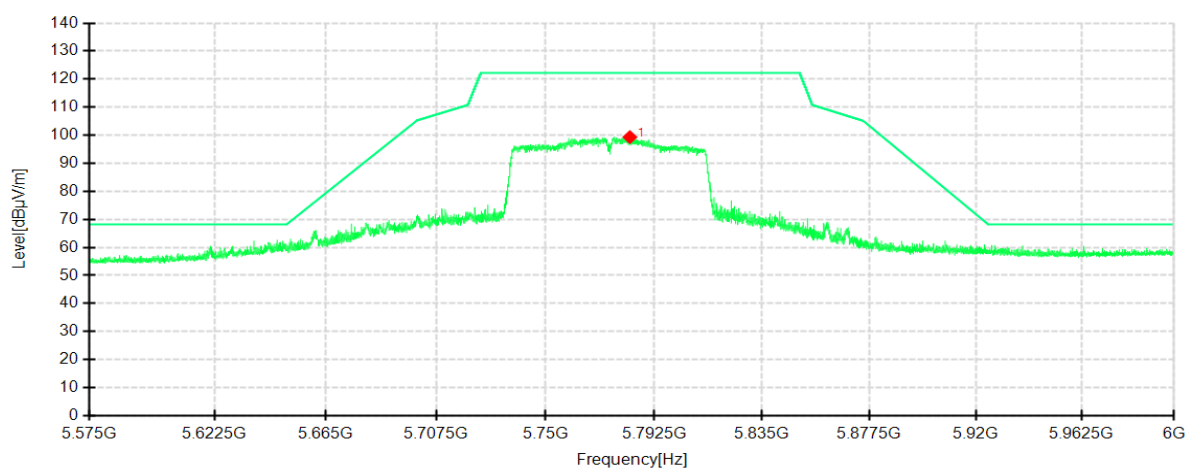
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5766.8344	76.54	93.73	17.19	122.20	28.47	100	240	Horizontal	/
1	5782.9313	82.20	99.32	17.12	122.20	22.88	200	204	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

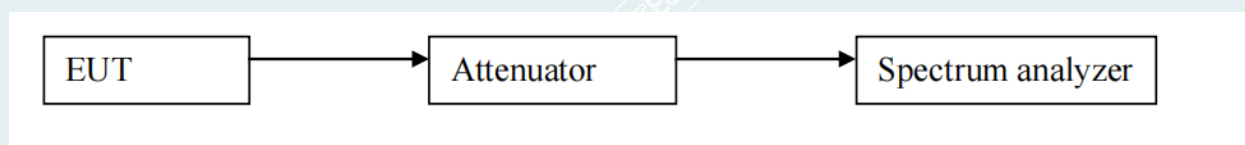
Table 2:

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	23.1 °C/53%RH	Test Voltage	AC 120V/60Hz
Tested By	Qin Tingting	Tested Date	2022-01-13 to 2022-01-14

6DB BANDWIDTH

Test Mode	Antenna	Frequency [MHz]	6dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5745	16.320	5736.880	5753.200	≥ 0.5	PASS
		5785	16.320	5776.880	5793.200	≥ 0.5	PASS
		5825	16.320	5816.880	5833.200	≥ 0.5	PASS
802.11n HT20	Ant1	5745	17.280	5736.520	5753.800	≥ 0.5	PASS
		5785	17.280	5776.520	5793.800	≥ 0.5	PASS
		5825	16.920	5816.280	5833.200	≥ 0.5	PASS
802.11n HT40	Ant1	5755	35.760	5737.160	5772.920	≥ 0.5	PASS
		5795	35.680	5777.240	5812.920	≥ 0.5	PASS
802.11ac VHT20	Ant1	5745	17.320	5736.520	5753.840	≥ 0.5	PASS
		5785	17.240	5776.560	5793.800	≥ 0.5	PASS
		5825	17.560	5816.280	5833.840	≥ 0.5	PASS
802.11ac VHT40	Ant1	5755	35.440	5737.480	5772.920	≥ 0.5	PASS
		5795	35.600	5777.320	5812.920	≥ 0.5	PASS
802.11ac VHT80	Ant1	5775	75.200	5737.400	5812.600	≥ 0.5	PASS

----- The following blanks -----

26DB BANDWIDTH

Test Mode	Antenna	Frequency [MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	21.36	5169.40	5190.76	---	PASS
		5200	21.40	5189.36	5210.76	---	PASS
		5240	21.48	5229.32	5250.80	---	PASS
802.11n HT20	Ant1	5180	22.16	5169.16	5191.32	---	PASS
		5200	22.44	5189.24	5211.68	---	PASS
		5240	22.64	5229.08	5251.72	---	PASS
802.11n HT40	Ant1	5190	41.37	5169.84	5221.21	---	PASS
		5230	43.29	5210.00	5253.29	---	PASS
802.11ac VHT20	Ant1	5180	22.08	5169.04	5192.12	---	PASS
		5200	22.40	5189.20	5211.60	---	PASS
		5240	22.44	5229.24	5251.68	---	PASS
802.11ac VHT40	Ant1	5190	42.81	5169.60	5212.41	---	PASS
		5230	43.93	5209.84	5253.77	---	PASS
802.11ac VHT80	Ant1	5210	82.41	5169.04	5251.45	---	PASS

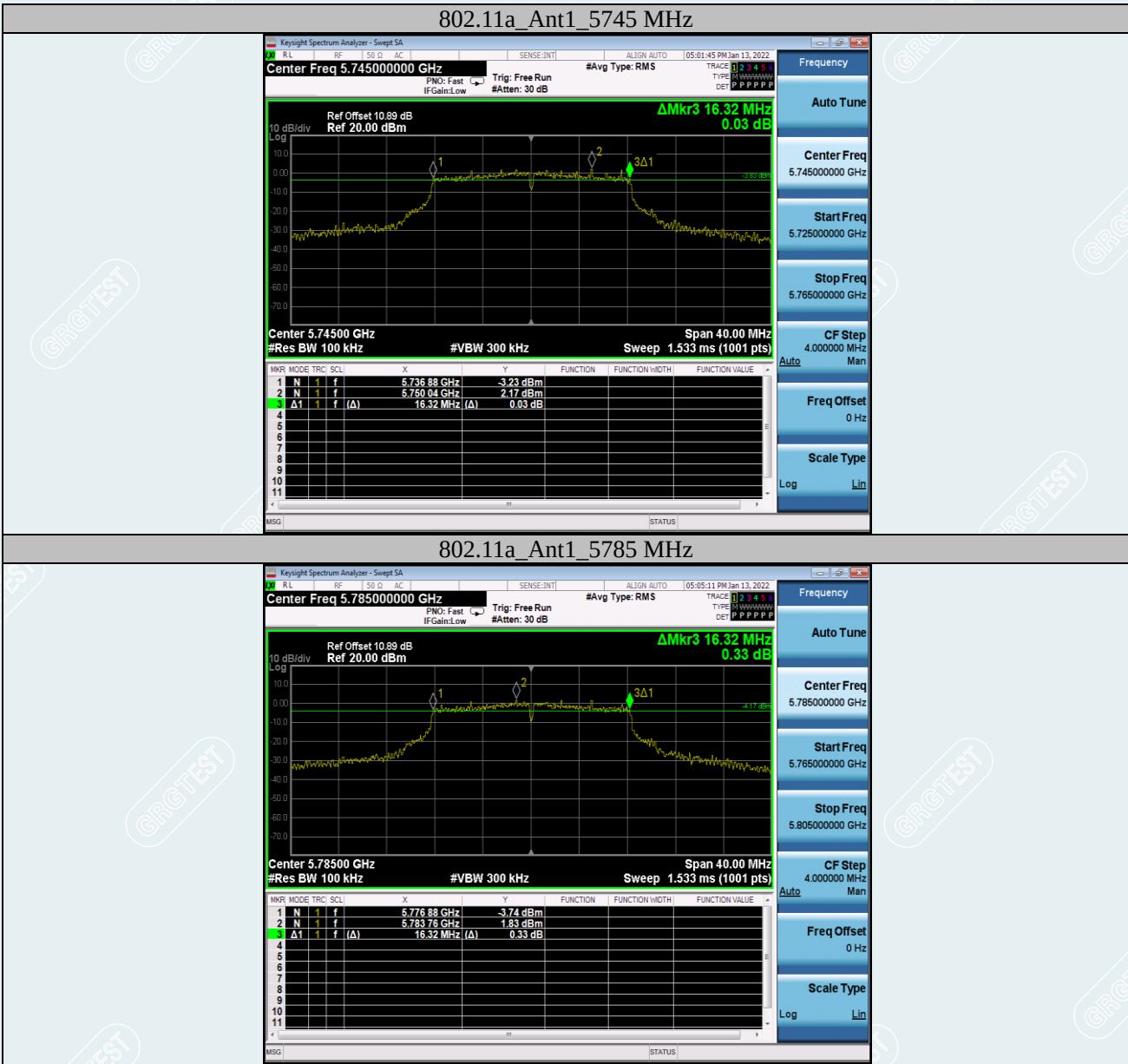
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99% OCCUPIED BANDWIDTH

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	17.605	5171.208	5188.813	---	PASS
		5200	17.595	5191.256	5208.851	---	PASS
		5240	17.620	5231.262	5248.882	---	PASS
		5745	17.735	5736.102	5753.837	---	PASS
		5785	17.763	5776.116	5793.879	---	PASS
		5825	17.824	5816.016	5833.840	---	PASS
802.11n HT20	Ant1	5180	18.493	5170.852	5189.345	---	PASS
		5200	18.486	5190.845	5209.331	---	PASS
		5240	18.548	5230.909	5249.457	---	PASS
		5745	18.561	5735.779	5754.340	---	PASS
		5785	18.583	5775.768	5794.351	---	PASS
		5825	18.587	5815.759	5834.346	---	PASS
802.11n HT40	Ant1	5190	36.778	5171.858	5208.636	---	PASS
		5230	37.070	5211.854	5248.924	---	PASS
		5755	36.913	5736.735	5773.648	---	PASS
		5795	36.860	5776.720	5813.580	---	PASS
802.11ac VHT20	Ant1	5180	18.532	5170.794	5189.326	---	PASS
		5200	18.530	5190.829	5209.359	---	PASS
		5240	18.558	5230.854	5249.412	---	PASS
		5745	18.539	5735.778	5754.317	---	PASS
		5785	18.555	5775.754	5794.309	---	PASS
		5825	18.588	5815.748	5834.336	---	PASS
802.11ac VHT40	Ant1	5190	36.867	5171.834	5208.701	---	PASS
		5230	36.980	5211.893	5248.873	---	PASS
		5755	36.929	5736.736	5773.665	---	PASS
		5795	36.915	5776.720	5813.635	---	PASS
802.11ac VHT80	Ant1	5210	76.056	5172.365	5248.421	---	PASS
		5775	75.899	5737.321	5813.220	---	PASS

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6DB BANDWIDTH



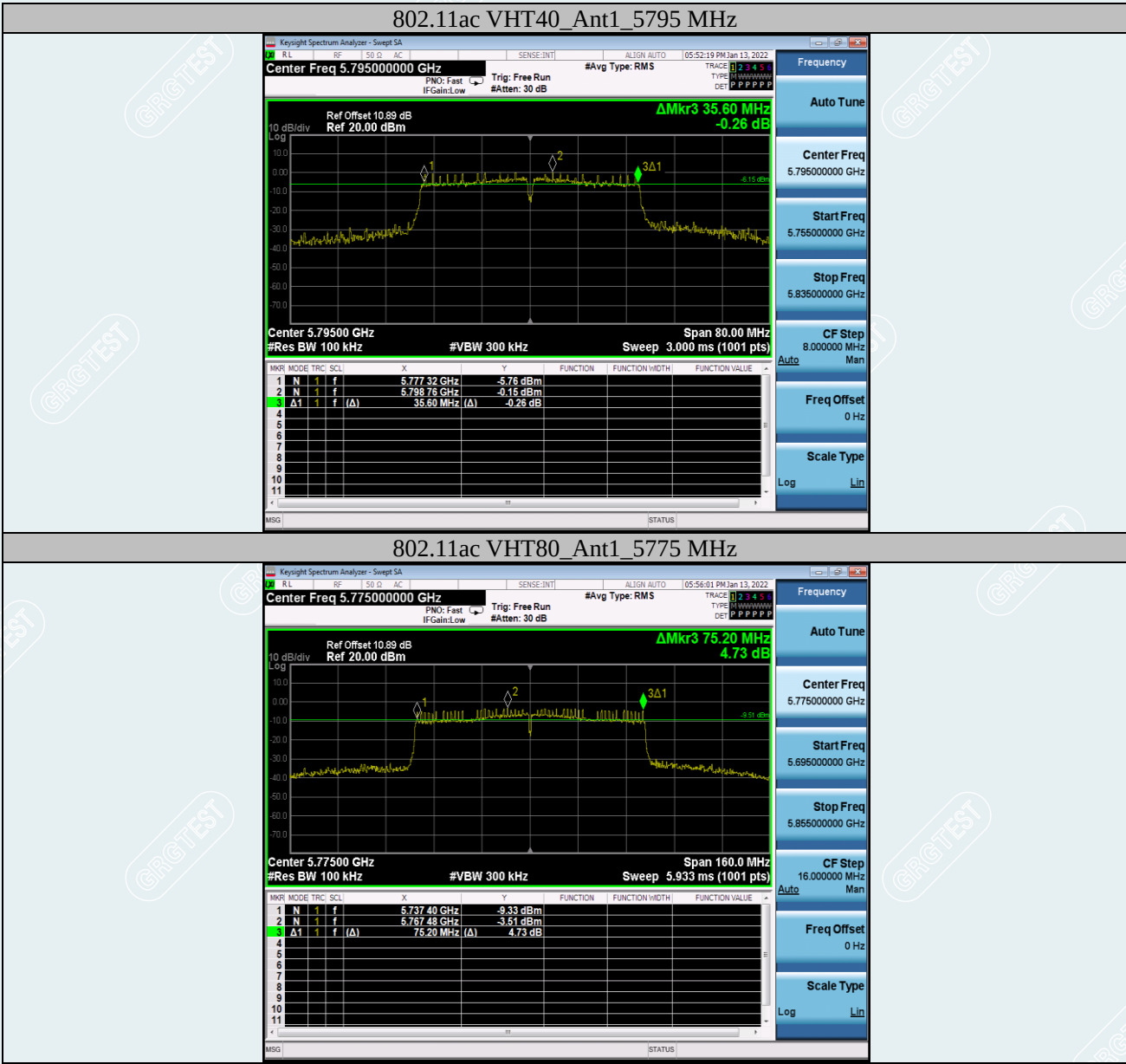




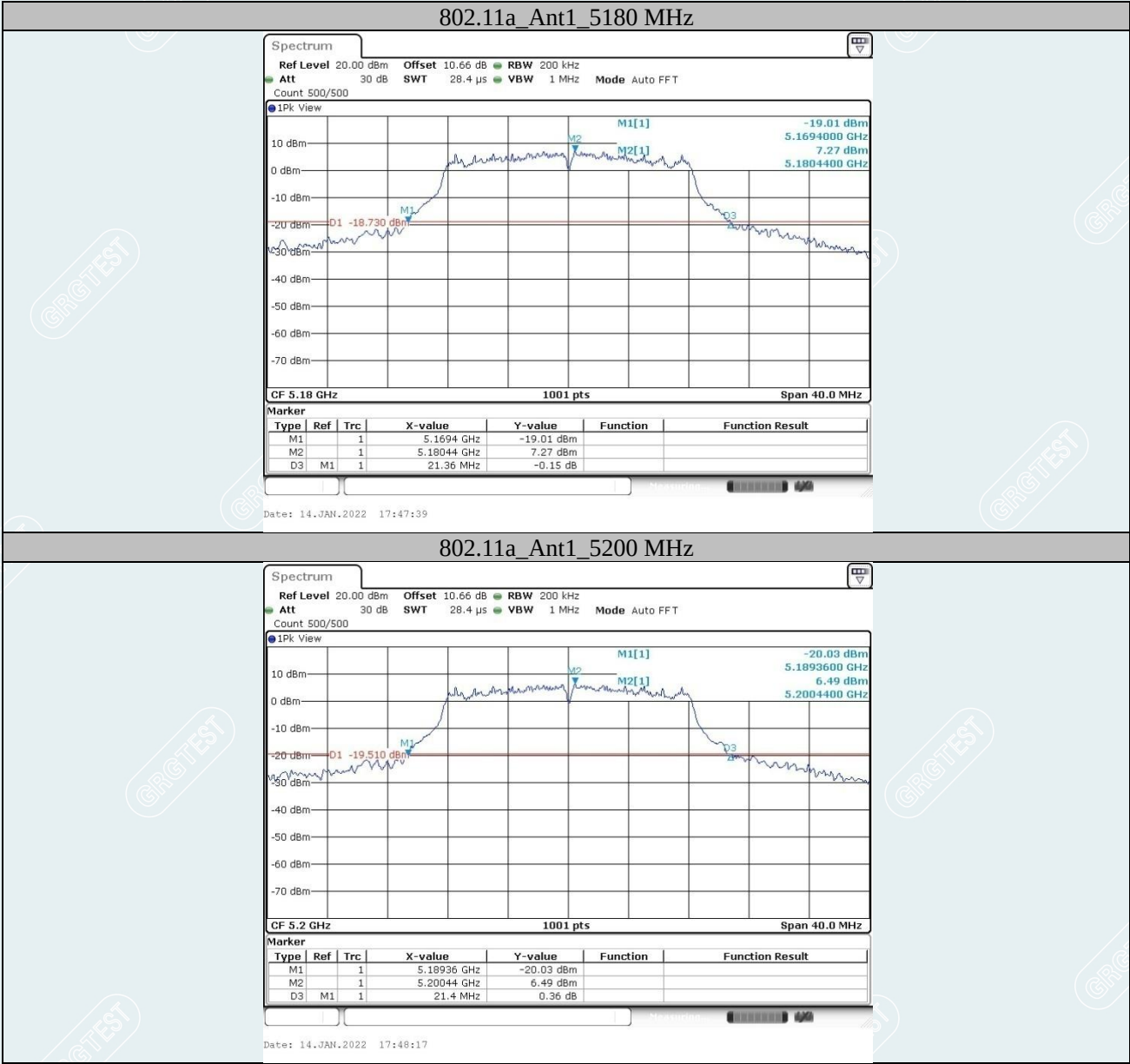




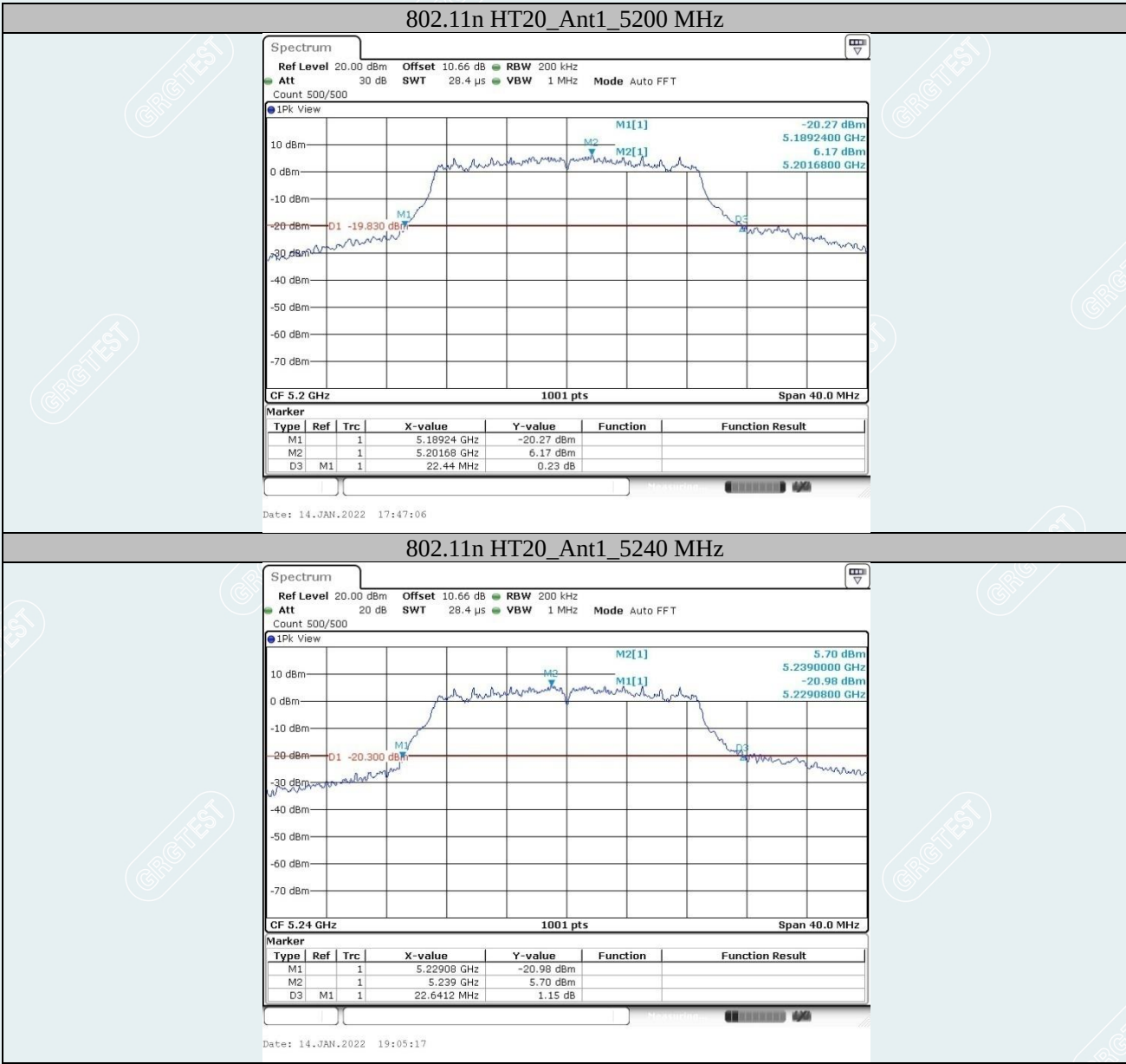




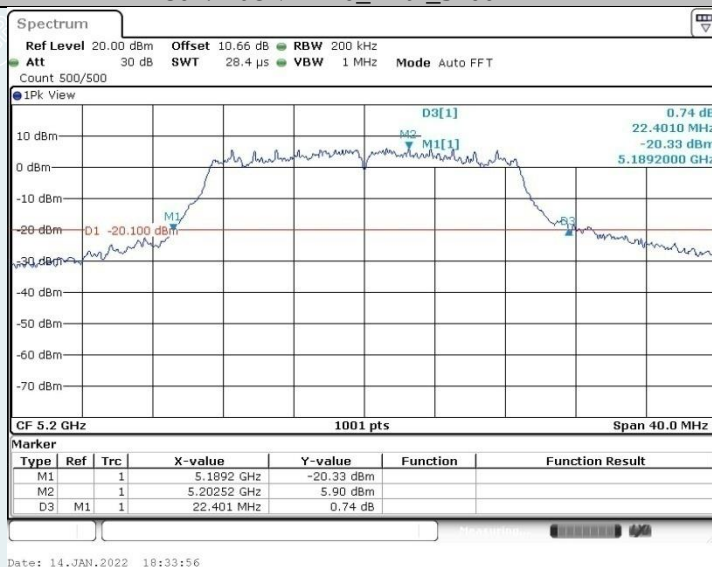
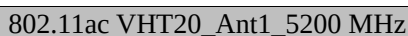
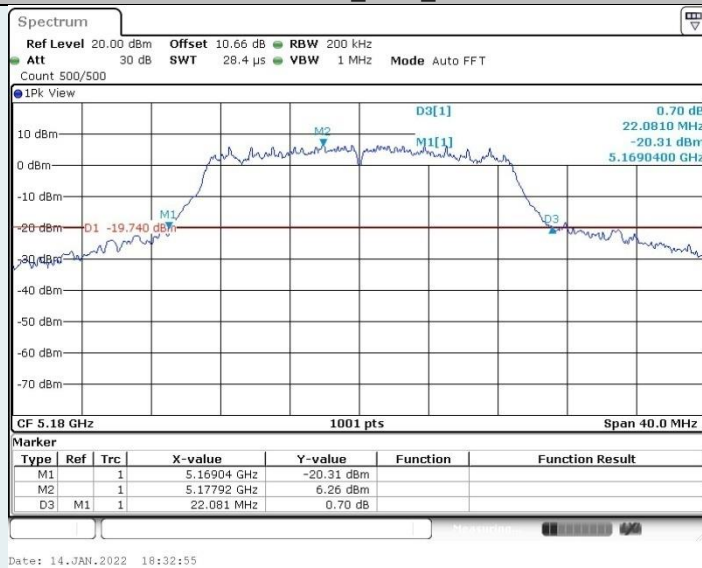
26DB BANDWIDTH



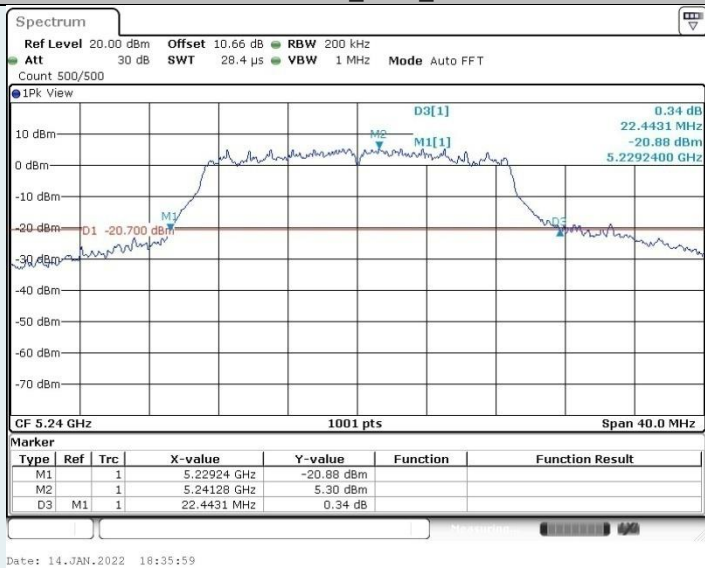




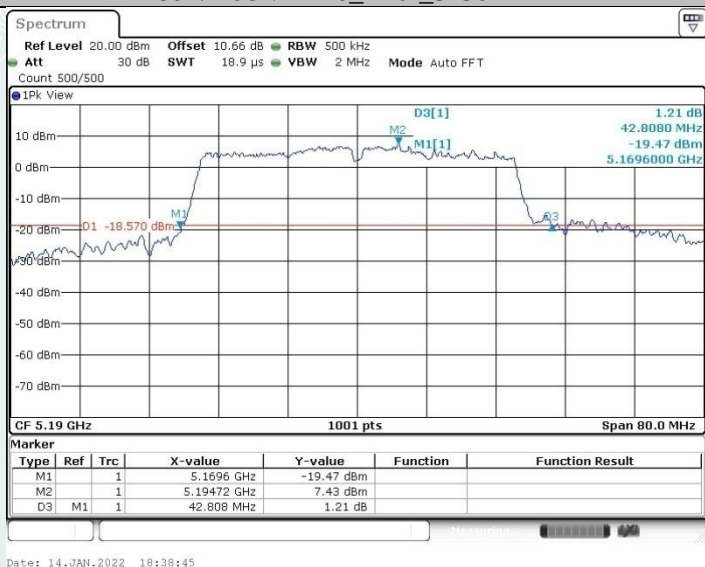




802.11ac VHT20_Ant1_5240 MHz



802.11ac VHT40_Ant1_5190 MHz





99% OCCUPIED BANDWIDTH













