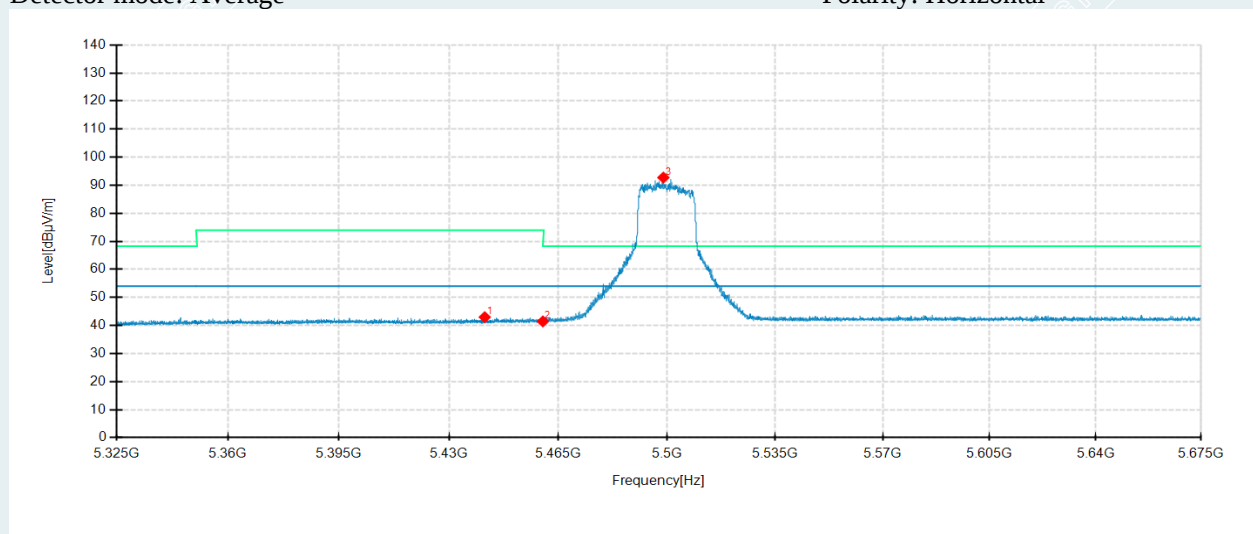


IEEE 802.11n HT20 mode/5500MHz

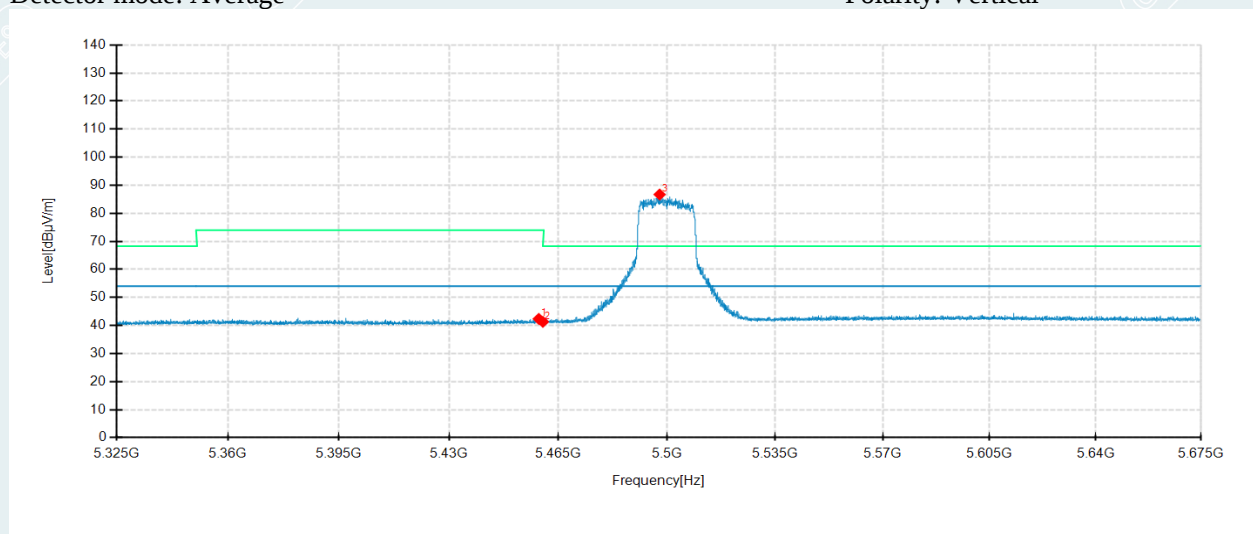
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

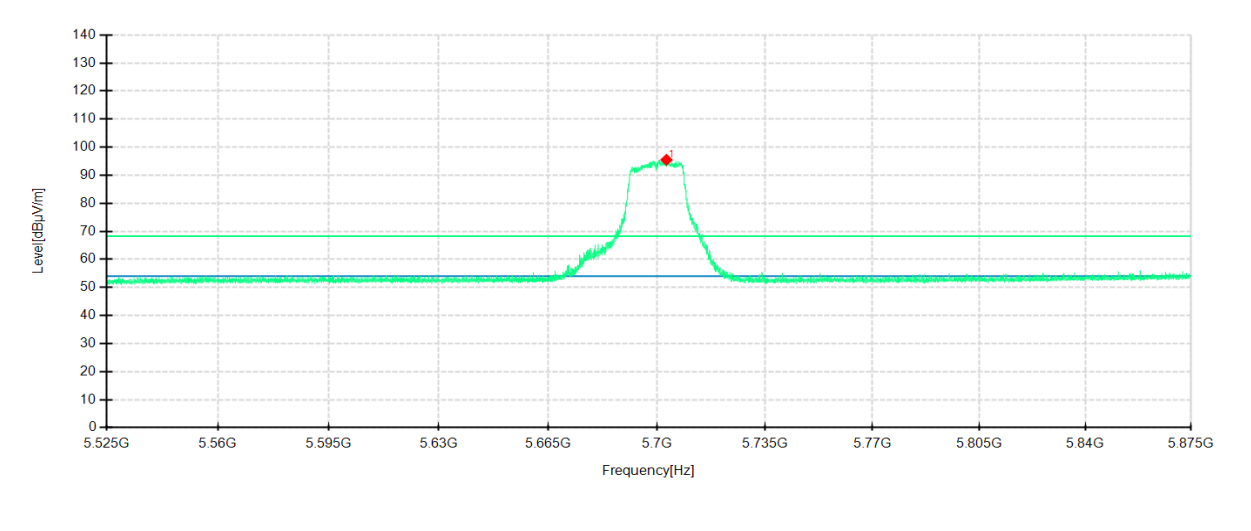


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5441.41	28.34	42.97	14.63	54.00	11.03	200	174	Horizontal	/
2	5460	26.74	41.44	14.70	54.00	12.56	100	209	Horizontal	/
3	5498.74	77.82	92.73	14.91	54.00	-38.73	100	197	Horizontal	No limit
1	5458.7	27.92	42.35	14.43	54.00	11.65	200	94	Vertical	/
2	5460	26.86	41.30	14.44	54.00	12.70	200	94	Vertical	/
3	5497.55	71.90	86.70	14.80	54.00	-32.70	100	134	Vertical	No limit

IEEE 802.11n HT20 mode/5700MHz

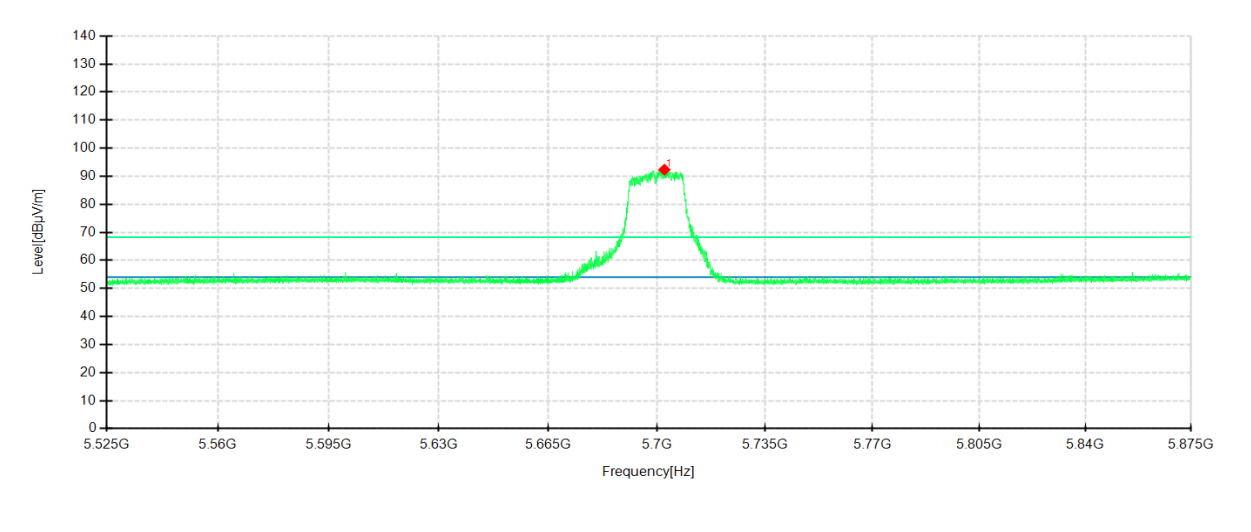
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

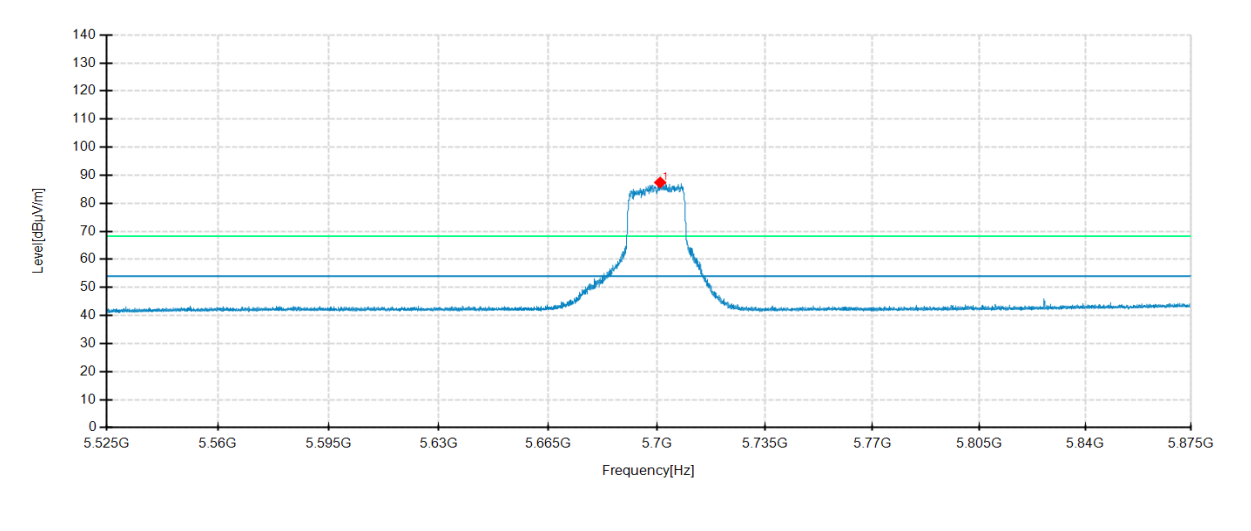


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5703.08	80.34	95.48	15.14	68.30	-27.18	200	219	Horizontal	No limit
1	5702.415	77.37	92.32	14.95	68.30	-24.02	100	128	Vertical	No limit

IEEE 802.11n HT20 mode/5700MHz

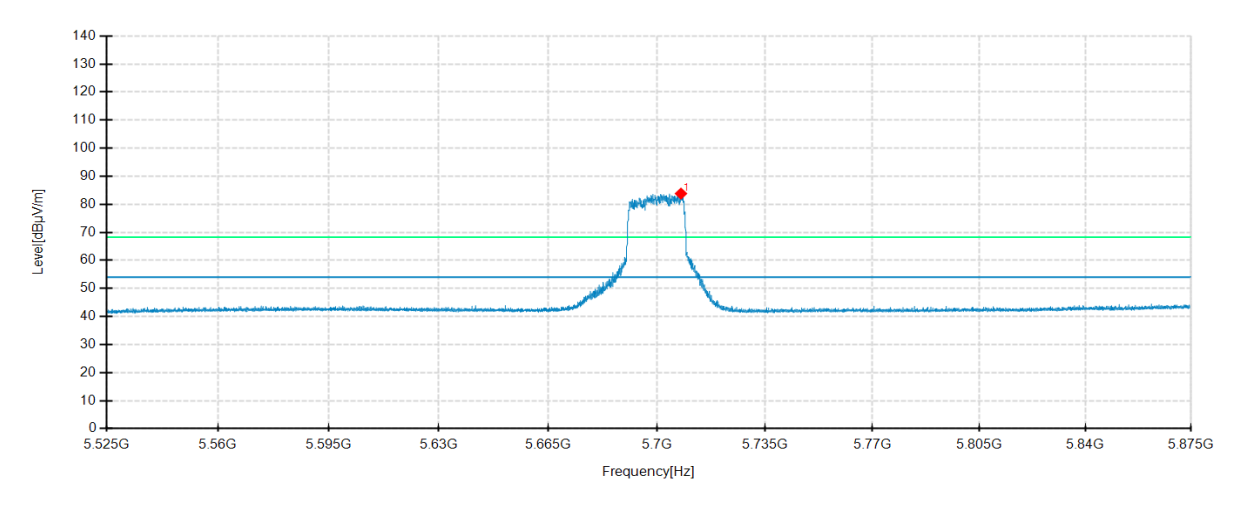
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

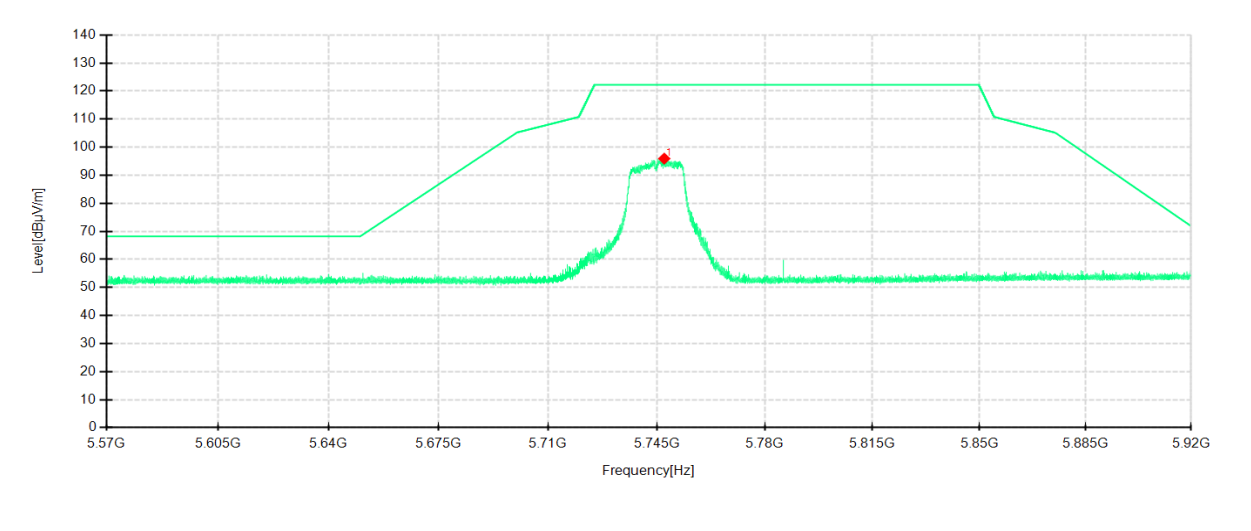


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5701.05	72.29	87.42	15.13	54.00	-33.42	100	278	Horizontal	No limit
1	5707.77	68.83	83.81	14.98	54.00	-29.81	100	128	Vertical	No limit

IEEE 802.11n HT20 mode/5745MHz

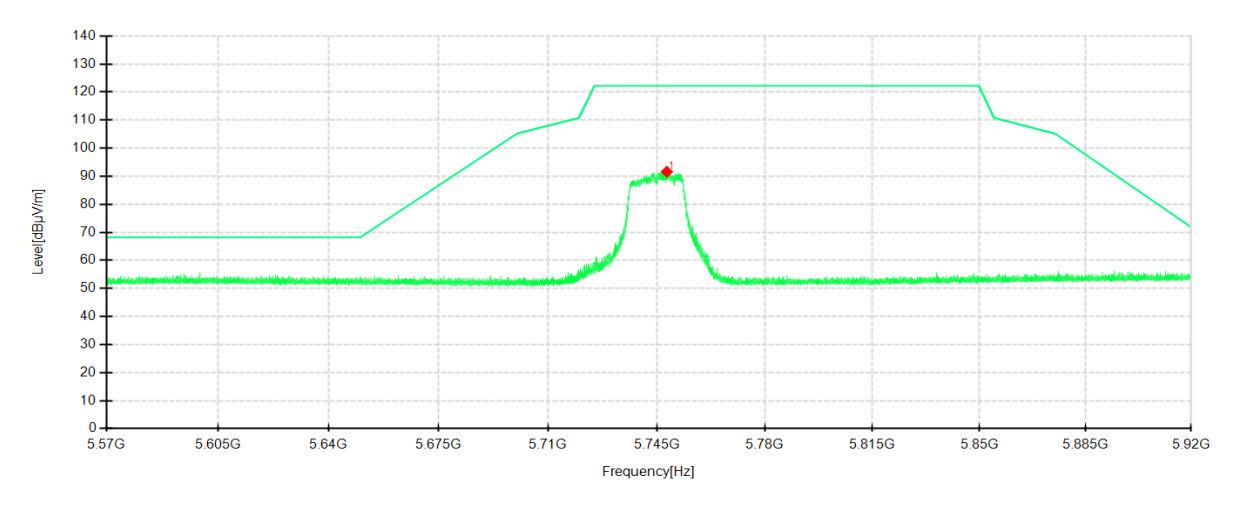
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

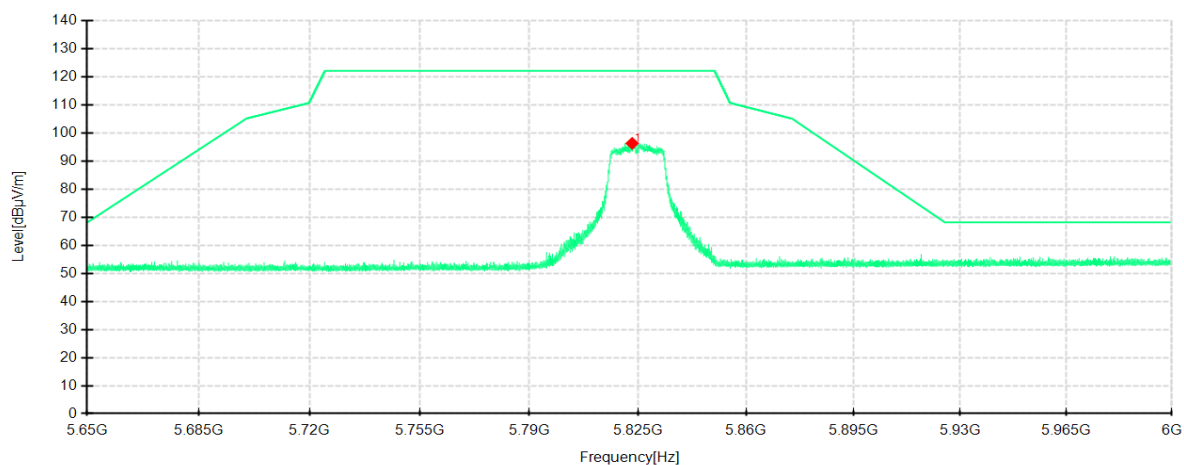


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5747.38	80.57	95.92	15.35	122.20	26.28	200	217	Horizontal	No limit
1	5748.22	76.37	91.62	15.25	122.20	30.58	100	126	Vertical	No limit

IEEE 802.11n HT20 mode/5825MHz

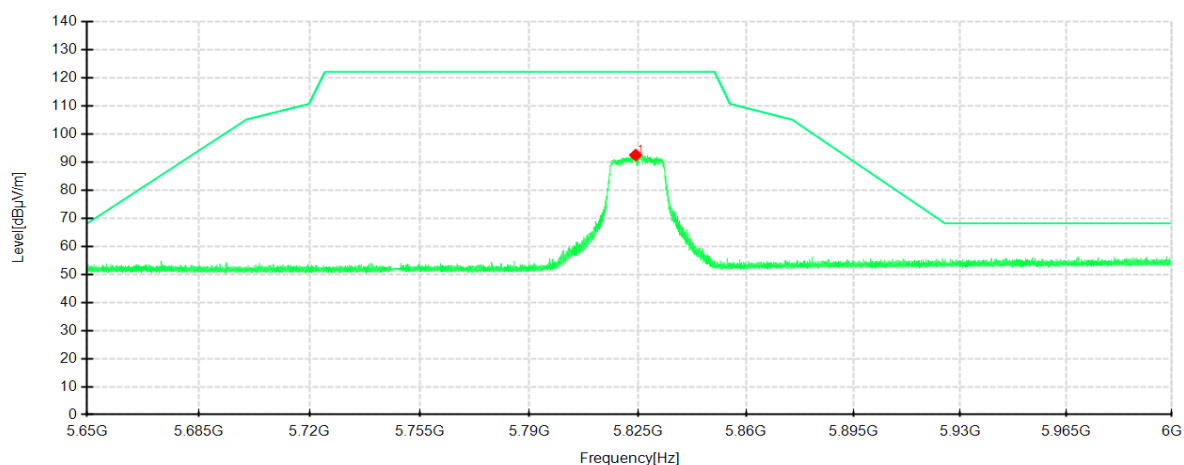
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



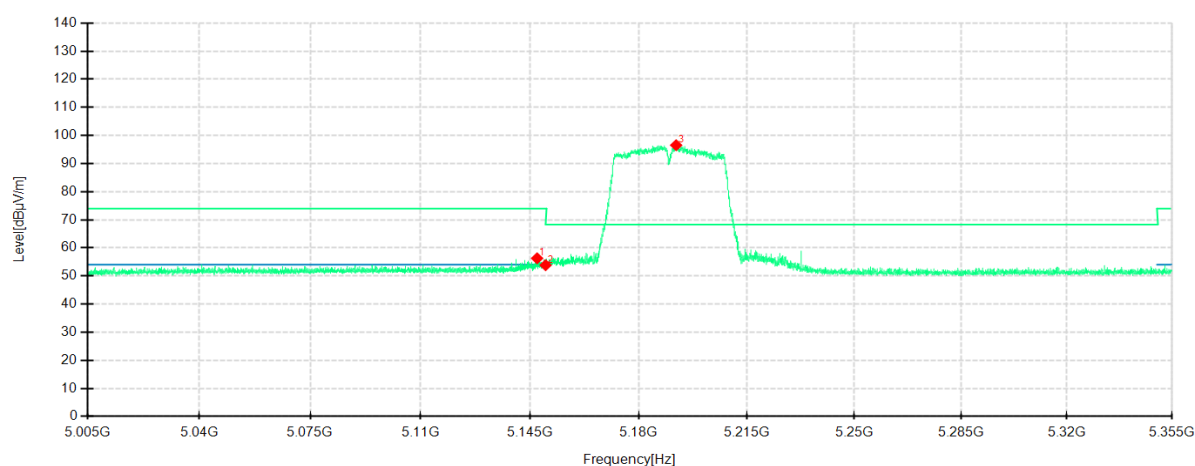
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5823.1975	80.53	96.39	15.86	122.20	25.81	200	222	Horizontal	No limit
1	5824.3175	76.90	92.57	15.67	122.20	29.63	100	4	Vertical	No limit

Temp: 25°C; Humi:60%RH	Power supply: DC 12V
Test Engineer: Zhang Zishan	Test Date: 2022-04-13

IEEE 802.11n HT40 mode/5190MHz

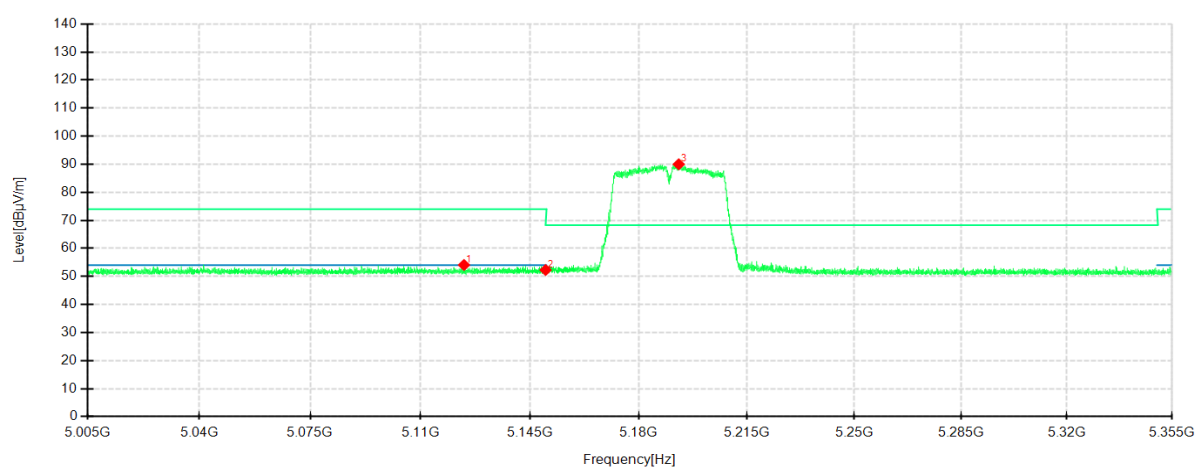
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

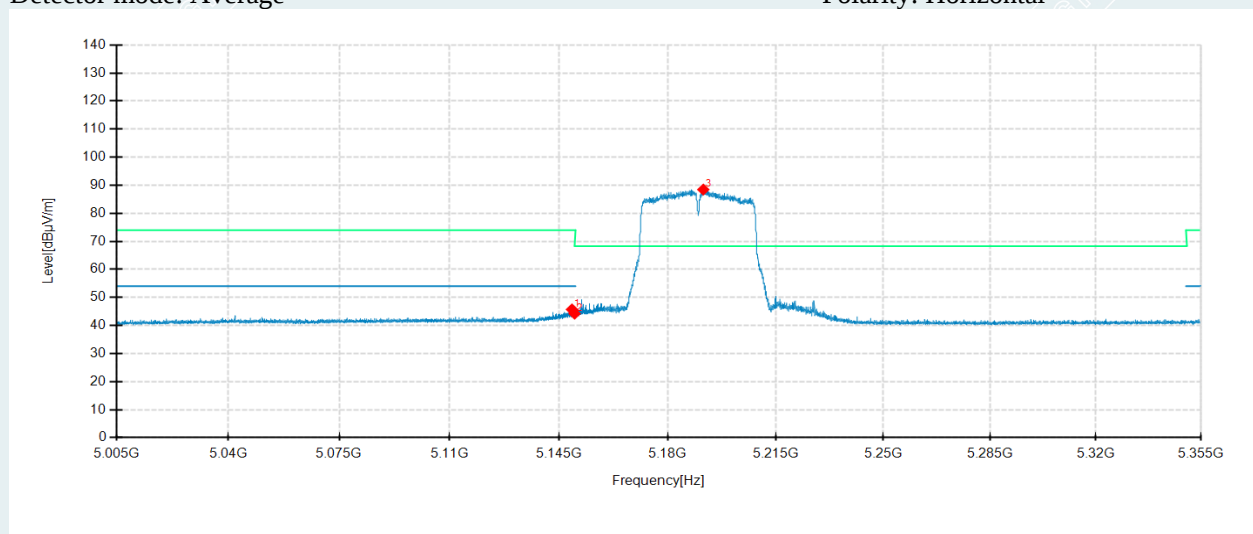


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5147.275	42.09	56.28	14.19	74.00	17.72	100	193	Horizontal	/
2	5150	39.66	53.84	14.18	74.00	20.16	100	265	Horizontal	/
3	5192.075	82.57	96.53	13.96	68.30	-28.23	100	188	Horizontal	No limit
1	5123.895	39.98	54.08	14.10	74.00	19.92	200	138	Vertical	/
2	5150	38.21	52.29	14.08	74.00	21.71	200	246	Vertical	/
3	5192.915	75.95	89.98	14.03	68.30	-21.68	100	137	Vertical	No limit

IEEE 802.11n HT40 mode/5190MHz

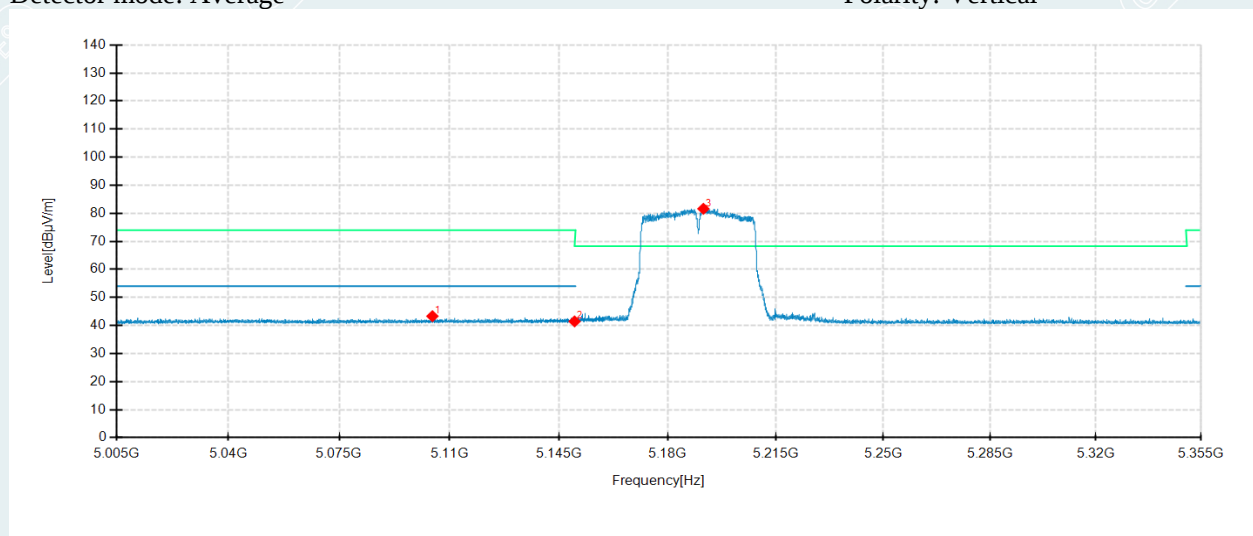
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

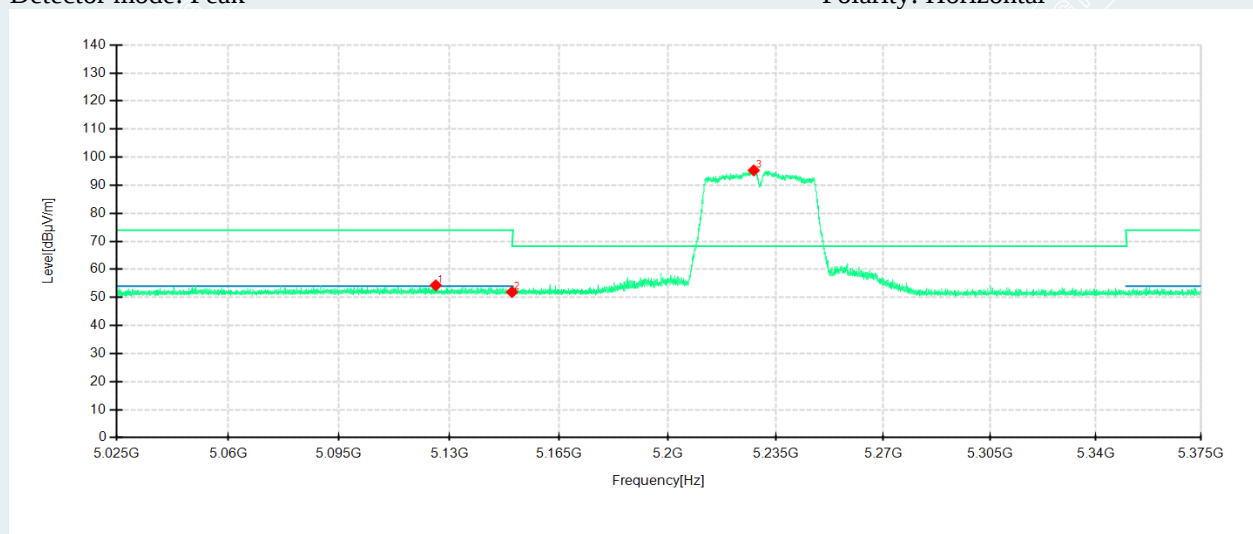


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5149.165	31.54	45.72	14.18	54.00	8.28	100	194	Horizontal	/
2	5150	30.05	44.23	14.18	54.00	9.77	100	190	Horizontal	/
3	5191.48	74.50	88.46	13.96	-	-	100	187	Horizontal	No limit
1	5104.575	29.19	43.31	14.12	54.00	10.69	100	257	Vertical	/
2	5150	27.37	41.45	14.08	54.00	12.55	200	170	Vertical	/
3	5191.515	67.57	81.60	14.03	-	-	100	127	Vertical	No limit

IEEE 802.11n HT40 mode/5230MHz

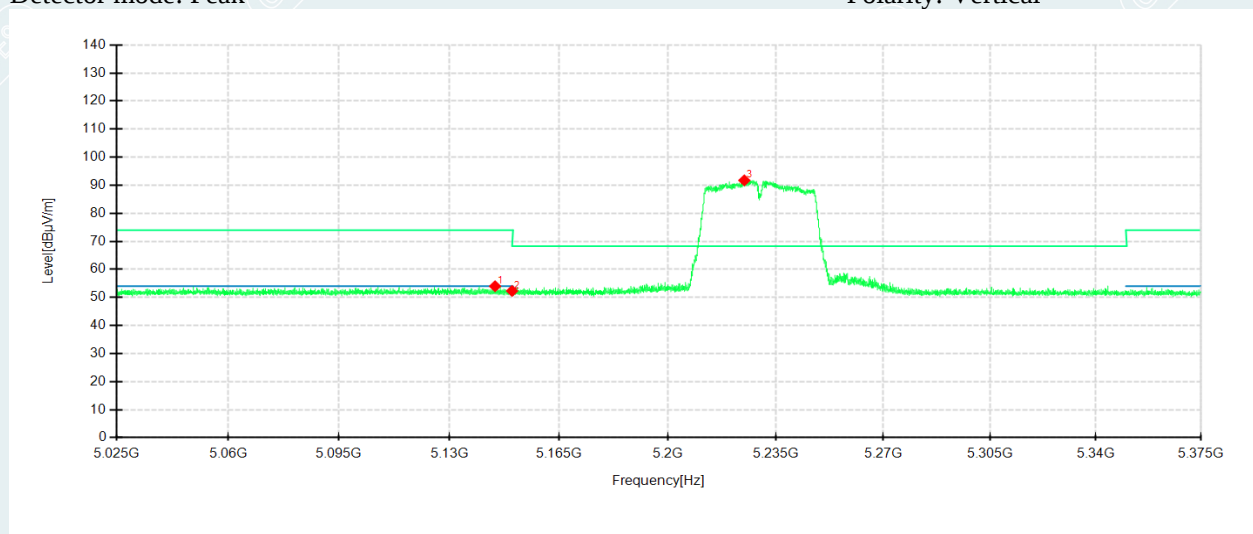
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

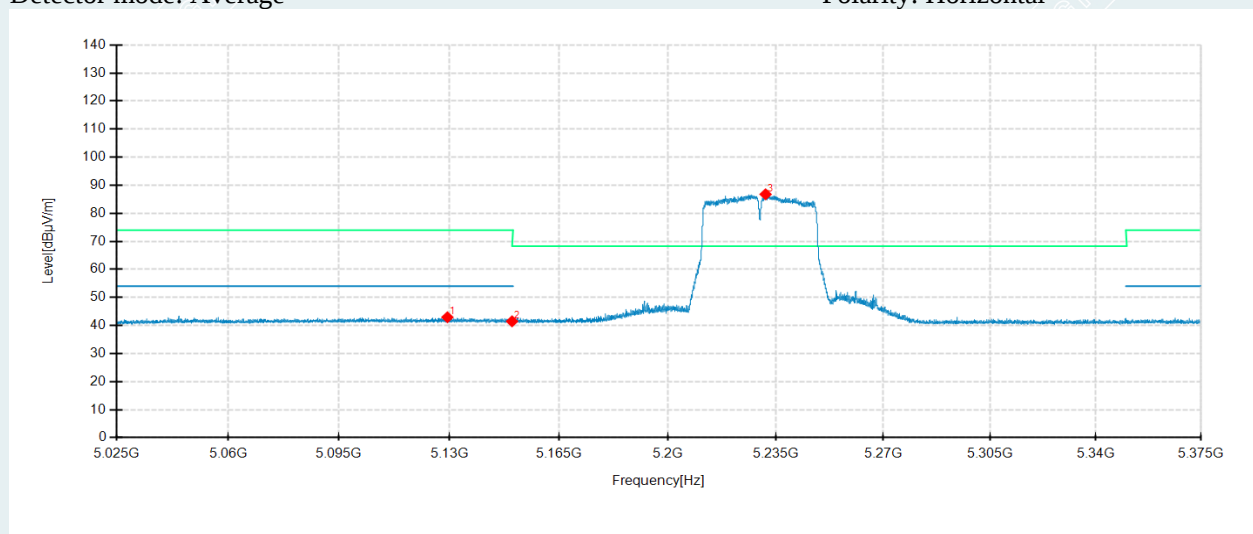


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5125.66	40.07	54.32	14.25	74.00	19.68	200	264	Horizontal	/
2	5150	37.72	51.90	14.18	74.00	22.10	200	17	Horizontal	/
3	5227.825	81.44	95.28	13.84	68.30	-26.98	100	197	Horizontal	No limit
1	5144.56	39.90	53.98	14.08	74.00	20.02	100	28	Vertical	/
2	5150	38.23	52.31	14.08	74.00	21.69	100	264	Vertical	/
3	5224.78	77.69	91.74	14.05	68.30	-23.44	100	177	Vertical	No limit

IEEE 802.11n HT40 mode/5230MHz

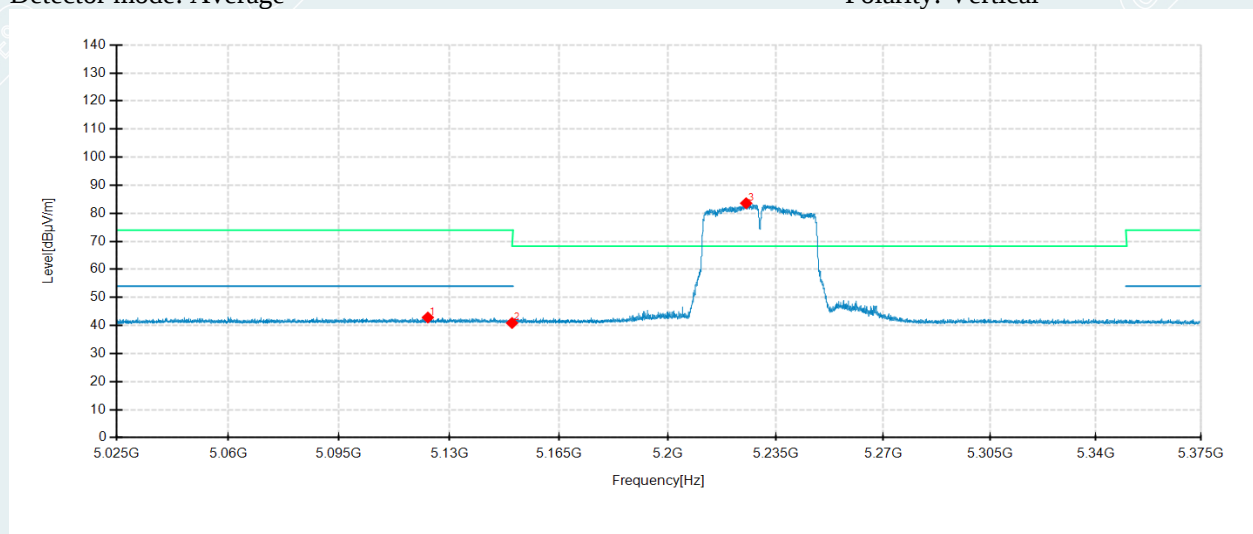
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

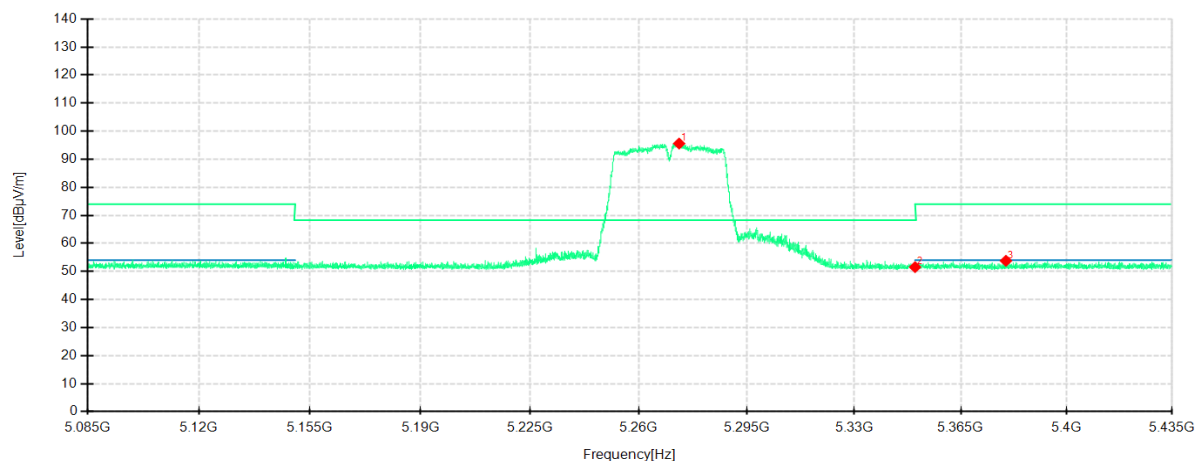


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5129.37	28.69	42.93	14.24	54.00	11.07	200	44	Horizontal	/
2	5150	27.30	41.48	14.18	54.00	12.52	200	256	Horizontal	/
3	5231.675	72.94	86.77	13.83	-	-	100	95	Horizontal	No limit
1	5123.14	28.74	42.84	14.10	54.00	11.16	100	103	Vertical	/
2	5150	26.81	40.89	14.08	54.00	13.11	100	60	Vertical	/
3	5225.375	69.53	83.58	14.05	-	-	100	176	Vertical	No limit

IEEE 802.11n HT40 mode/5270MHz

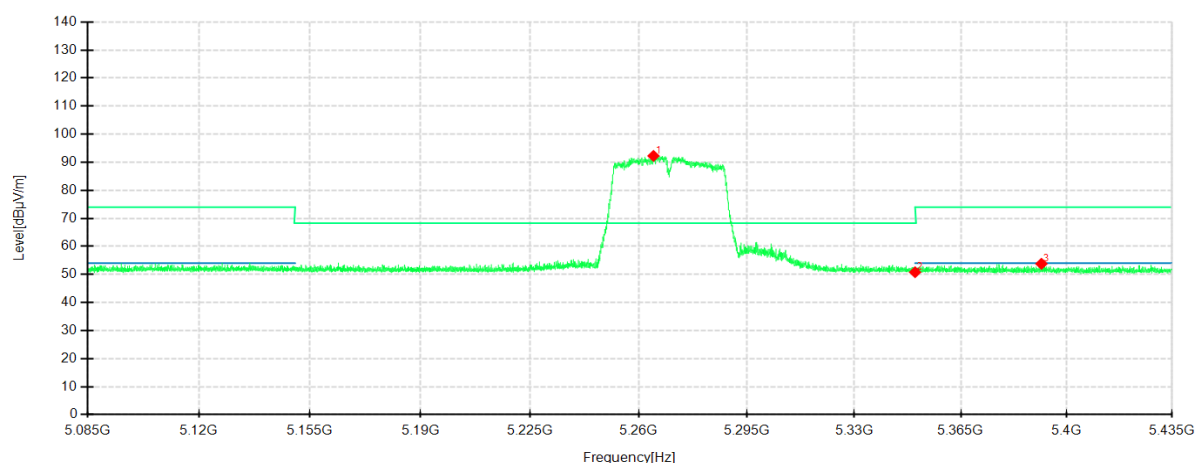
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

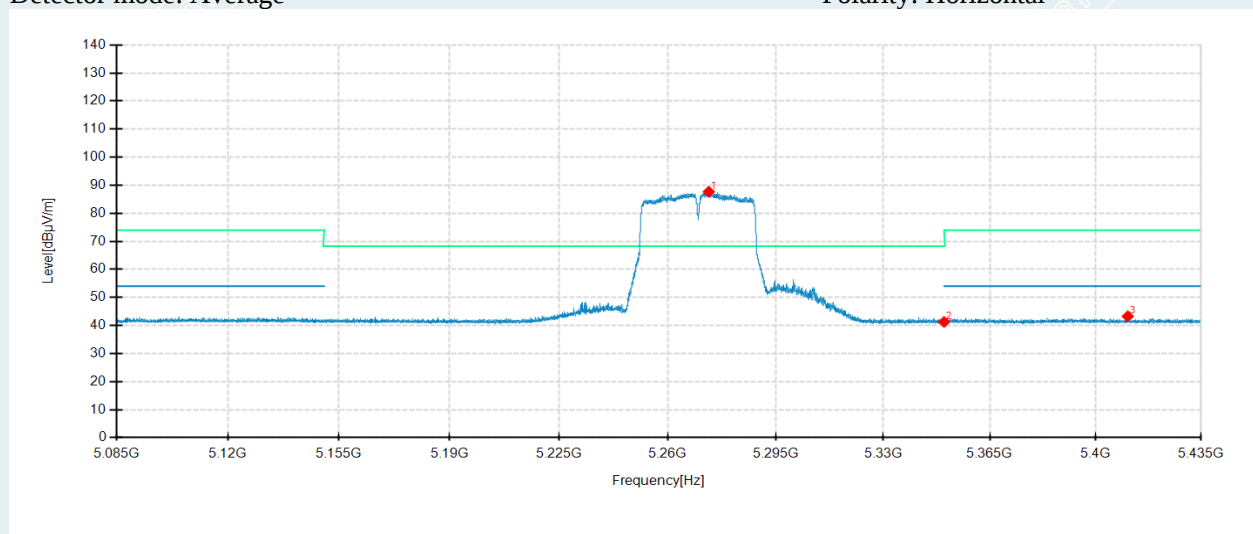


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5273.09	81.77	95.58	13.81	68.30	-27.28	100	96	Horizontal	No limit
2	5350	37.29	51.54	14.25	68.30	16.76	100	96	Horizontal	/
3	5379.91	39.35	53.79	14.44	74.00	20.21	200	171	Horizontal	/
1	5264.795	78.16	92.26	14.10	68.30	-23.96	200	210	Vertical	No limit
2	5350	36.55	50.80	14.25	68.30	17.50	100	147	Vertical	/
3	5391.635	39.60	53.78	14.18	74.00	20.22	100	160	Vertical	/

IEEE 802.11n HT40 mode/5270MHz

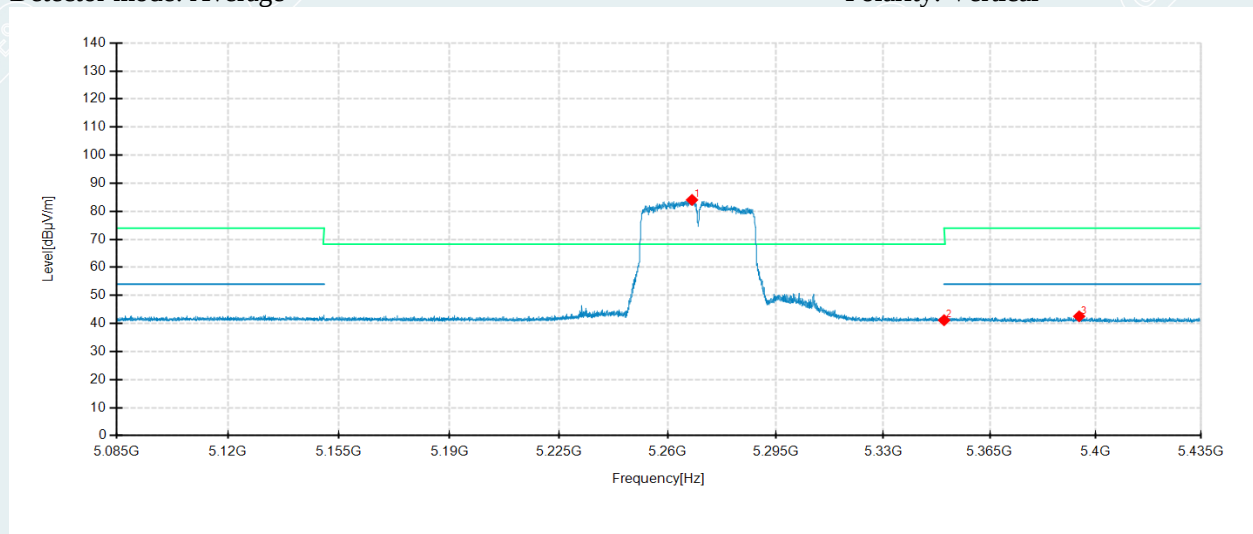
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

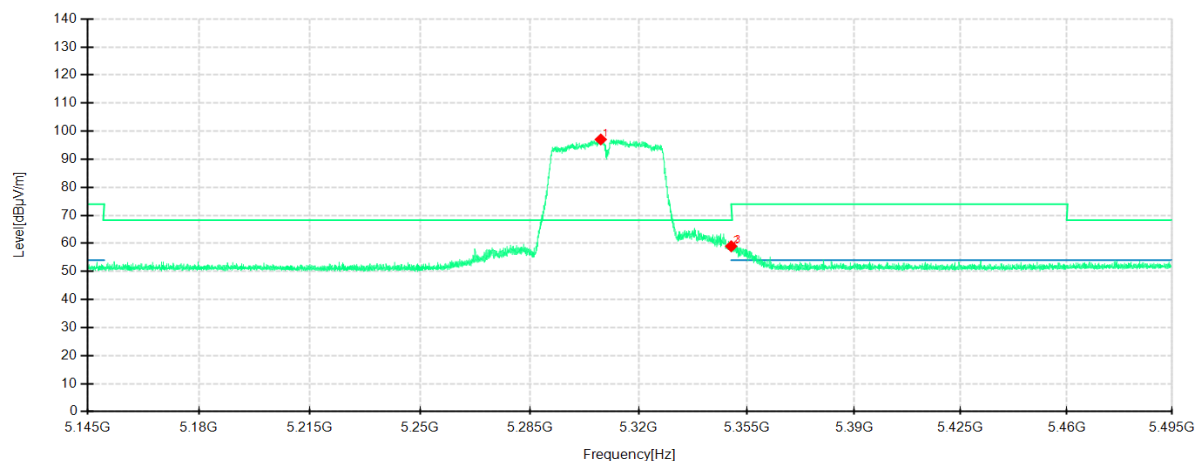


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5273.3	73.87	87.68	13.81	-	-	100	95	Horizontal	No limit
2	5350	27.00	41.25	14.25	54.00	12.75	100	144	Horizontal	/
3	5410.64	28.69	43.27	14.58	54.00	10.73	100	150	Horizontal	/
1	5267.875	69.94	84.05	14.11	-	-	200	209	Vertical	No limit
2	5350	26.92	41.17	14.25	54.00	12.83	200	248	Vertical	/
3	5394.54	28.38	42.55	14.17	54.00	11.45	100	1	Vertical	/

IEEE 802.11n HT40 mode/5310MHz

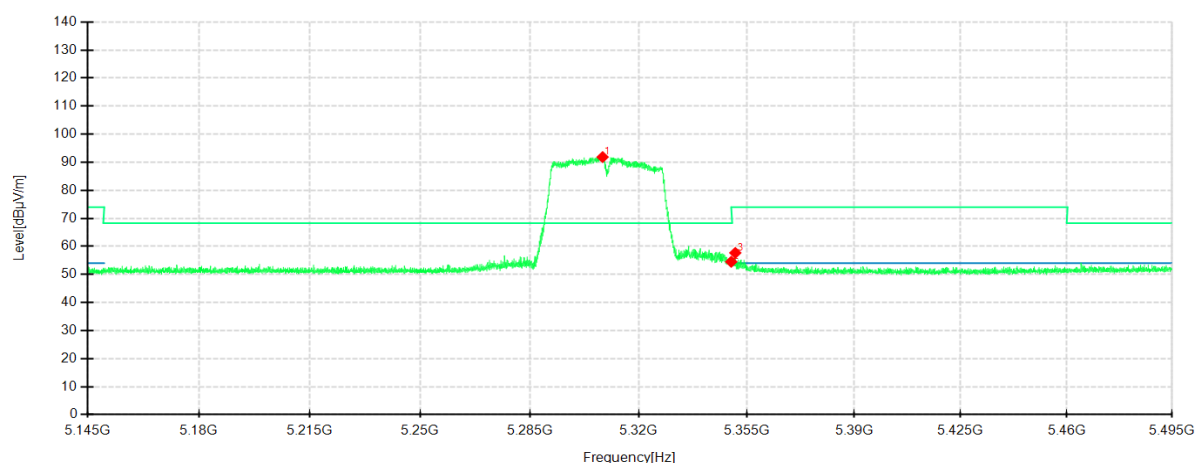
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

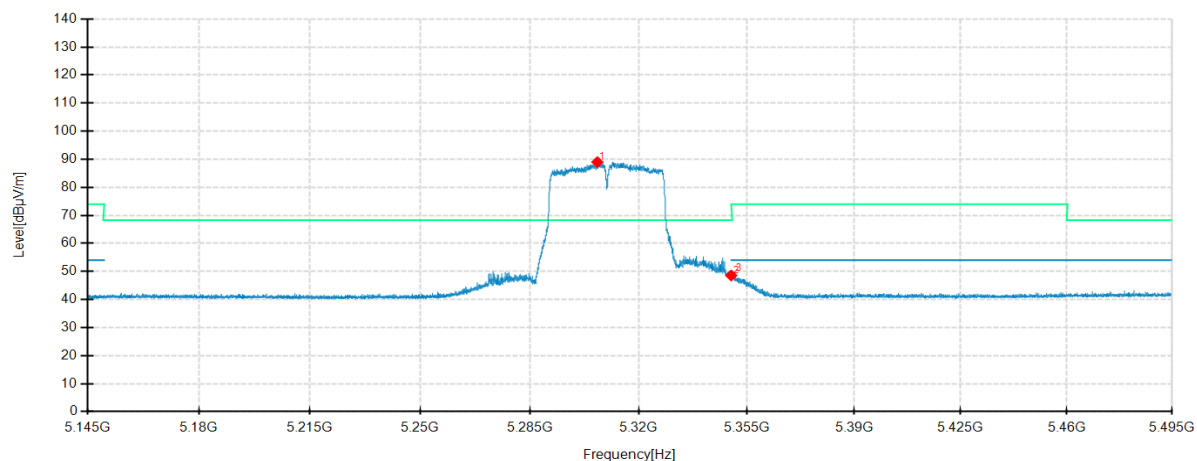


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5307.82	83.13	97.04	13.91	68.30	-28.74	100	192	Horizontal	No limit
2	5350	44.73	58.98	14.25	68.30	9.32	100	266	Horizontal	/
3	5350.45	45.09	59.34	14.25	74.00	14.66	100	189	Horizontal	/
1	5308.415	77.66	91.83	14.17	68.30	-23.53	100	358	Vertical	No limit
2	5350	40.26	54.51	14.25	68.30	13.79	100	360	Vertical	/
3	5351.325	43.43	57.68	14.25	74.00	16.32	100	360	Vertical	/

IEEE 802.11n HT40 mode/5310MHz

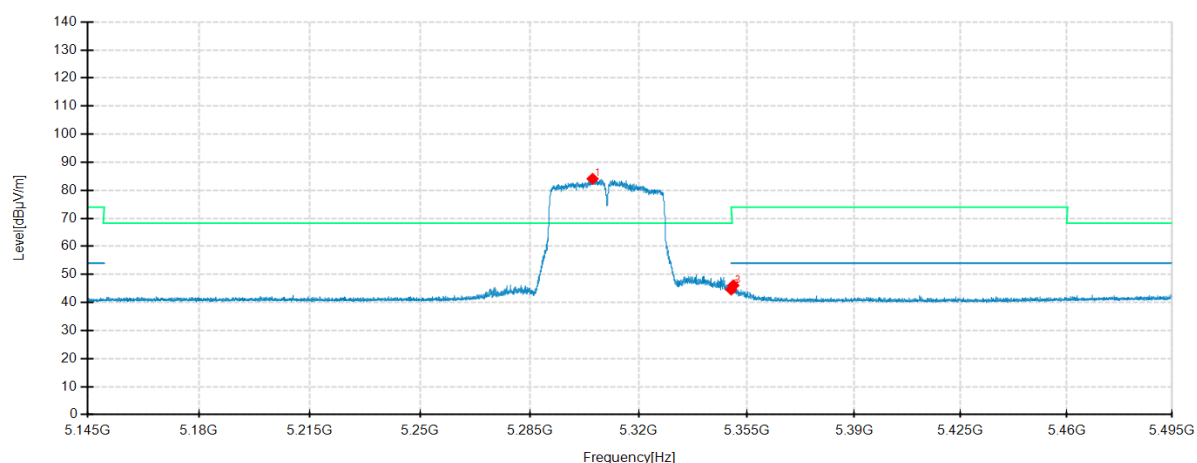
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

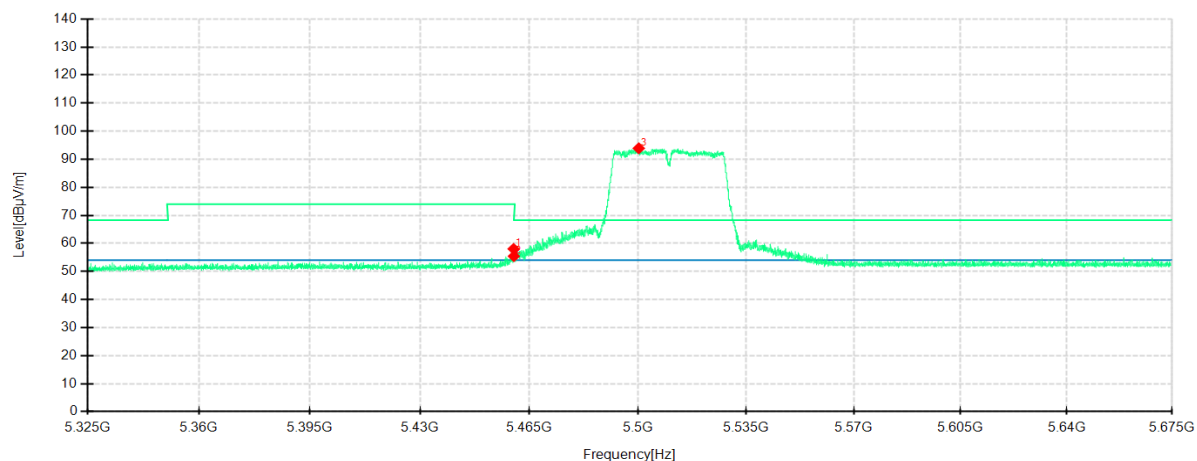


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5306.735	75.07	88.97	13.90	-	-	100	214	Horizontal	No limit
2	5350	34.28	48.53	14.25	54.00	5.47	100	195	Horizontal	/
3	5350.87	35.01	49.27	14.26	54.00	4.73	100	189	Horizontal	/
1	5305.195	69.94	84.10	14.16	-	-	100	359	Vertical	No limit
2	5350	30.33	44.58	14.25	54.00	9.42	100	360	Vertical	/
3	5350.66	31.83	46.08	14.25	54.00	7.92	100	360	Vertical	/

IEEE 802.11n HT40 mode/5510MHz

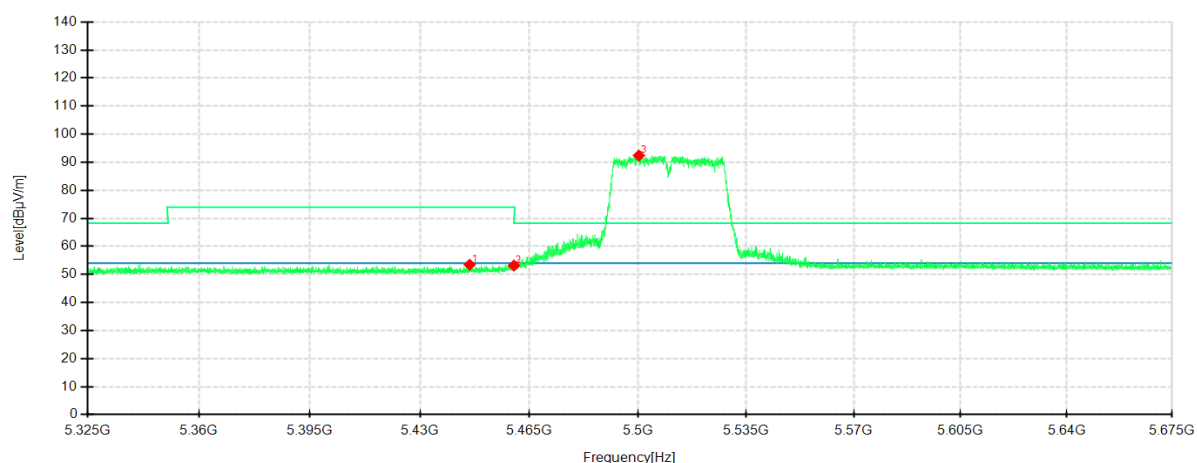
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

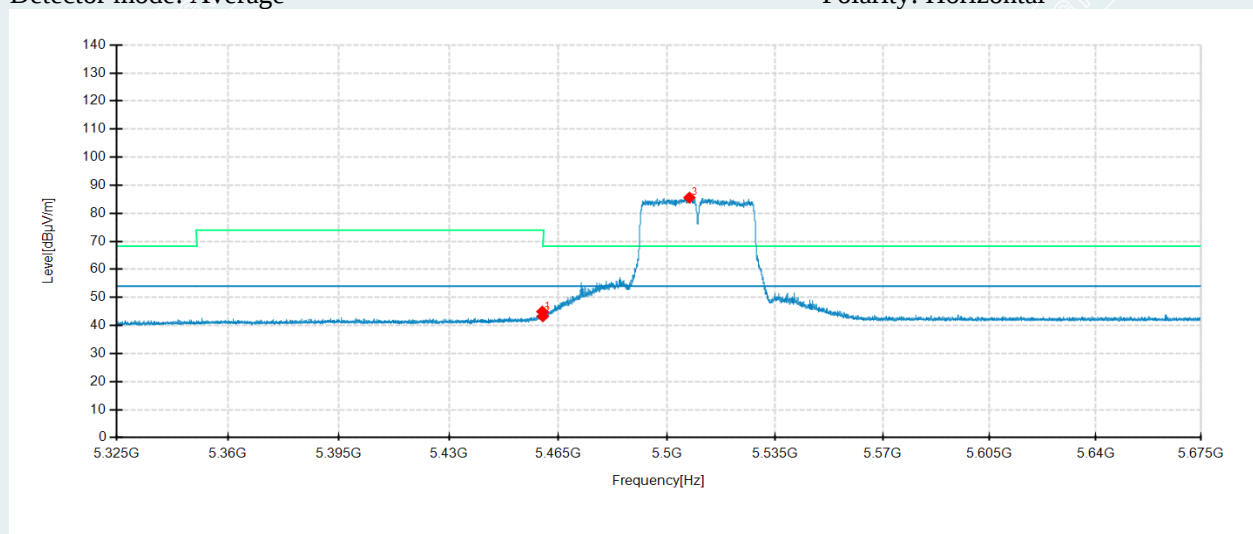


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5459.925	43.32	58.02	14.70	74.00	15.98	100	96	Horizontal	/
2	5460	40.73	55.43	14.70	74.00	18.57	100	102	Horizontal	/
3	5500.175	78.98	93.90	14.92	68.30	-25.60	100	96	Horizontal	No limit
1	5445.855	39.14	53.47	14.33	74.00	20.53	200	196	Vertical	/
2	5460	38.72	53.16	14.44	74.00	20.84	200	205	Vertical	/
3	5500.21	77.56	92.38	14.82	68.30	-24.08	200	205	Vertical	No limit

IEEE 802.11n HT40 mode/5510MHz

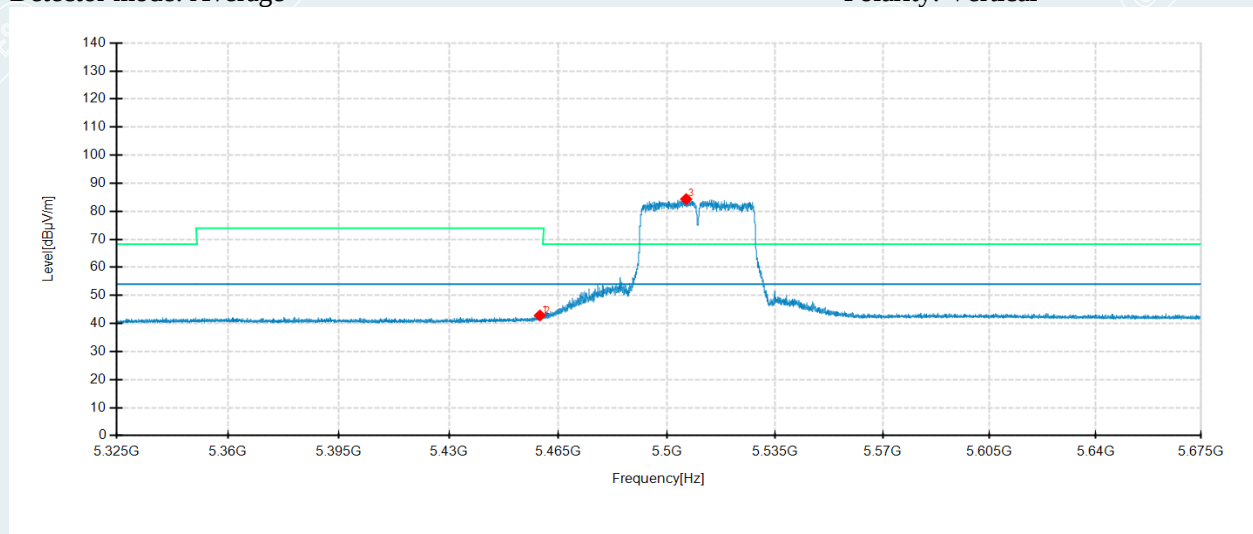
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

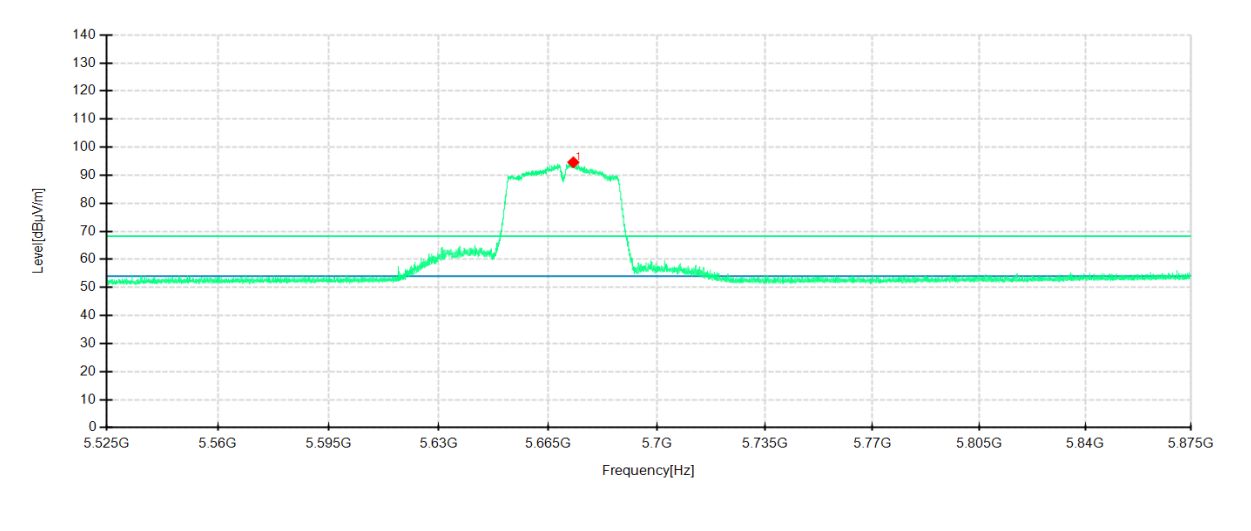


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5459.82	30.25	44.95	14.70	54.00	9.05	100	95	Horizontal	/
2	5460	28.55	43.25	14.70	54.00	10.75	100	95	Horizontal	/
3	5507.175	70.66	85.59	14.93	54.00	-31.59	100	95	Horizontal	No limit
1	5459.05	28.42	42.86	14.44	54.00	11.14	100	264	Vertical	/
2	5460	28.00	42.44	14.44	54.00	11.56	200	208	Vertical	/
3	5506.125	69.46	84.33	14.87	54.00	-30.33	200	208	Vertical	No limit

IEEE 802.11n HT40 mode/5670MHz

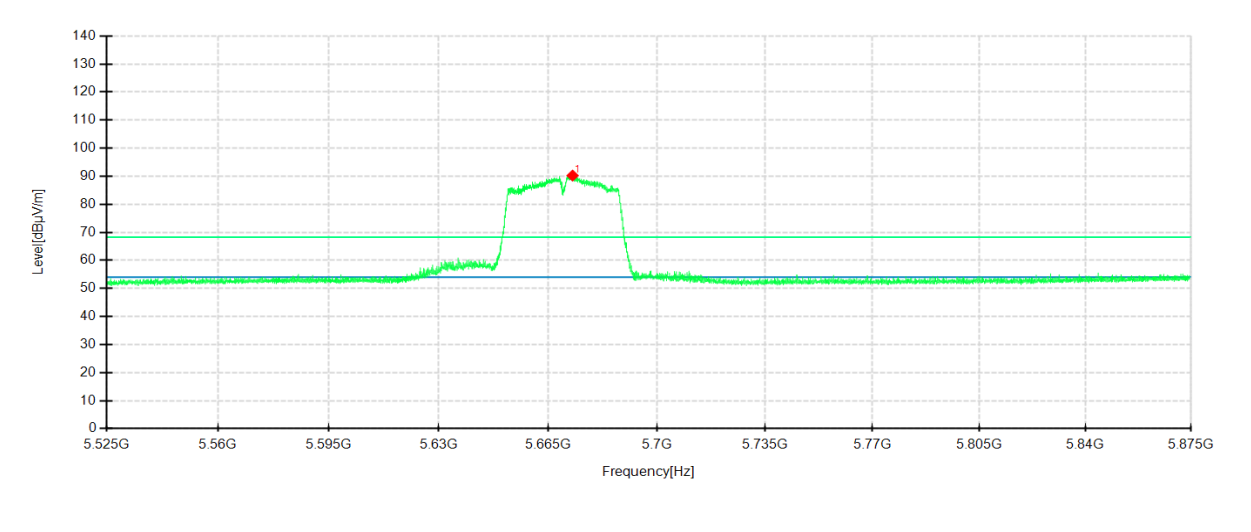
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

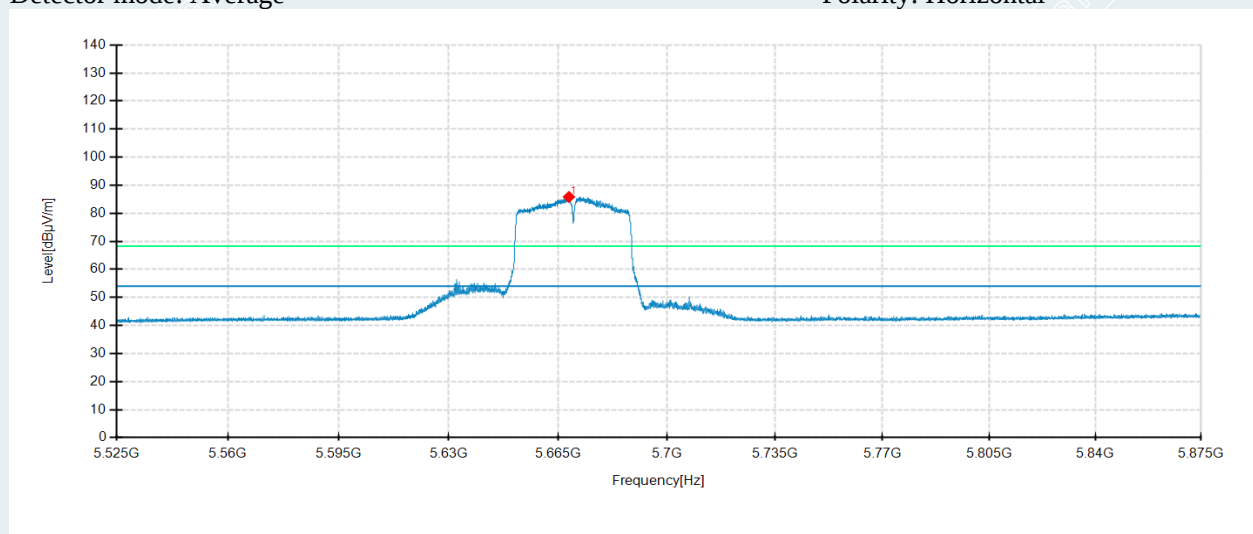


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5673.085	79.45	94.59	15.14	68.30	-26.29	100	264	Horizontal	No limit
1	5672.84	75.19	90.24	15.05	68.30	-21.94	100	343	Vertical	No limit

IEEE 802.11n HT40 mode/5670MHz

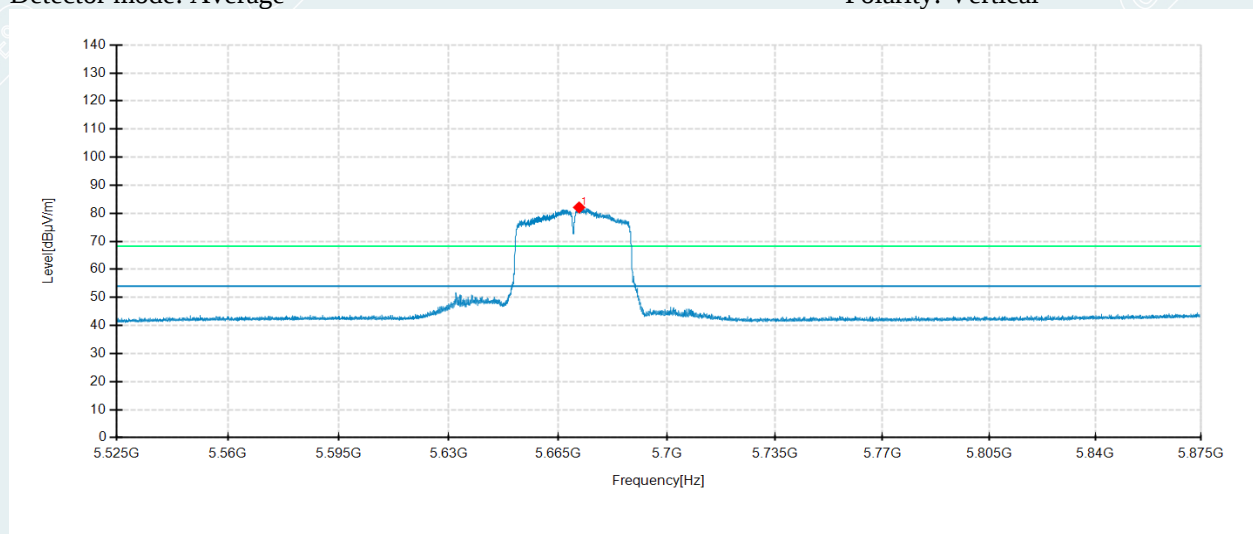
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

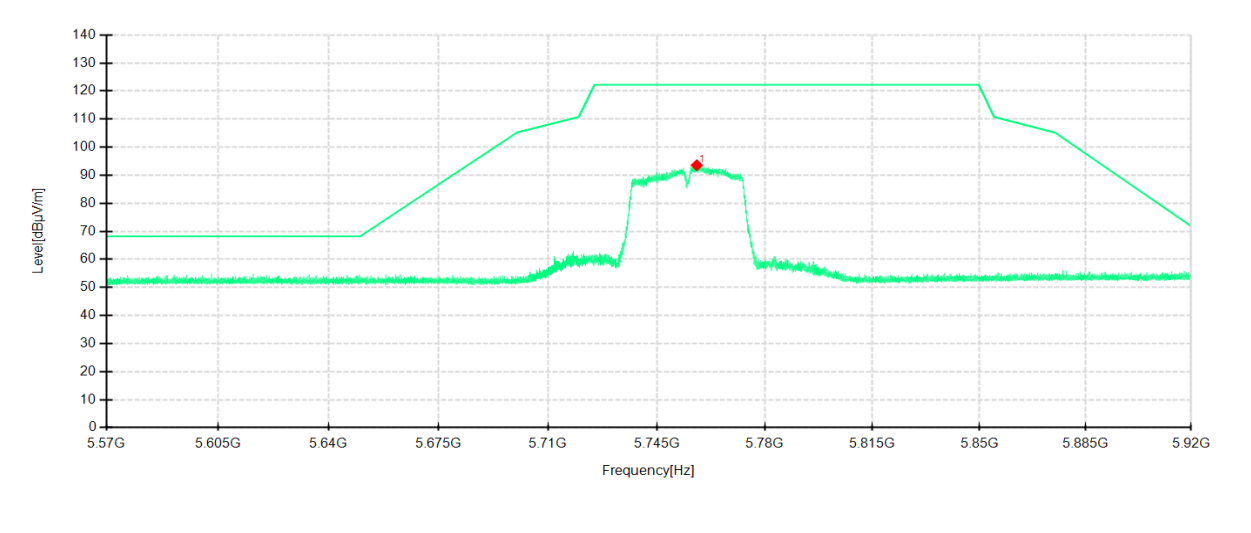


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5668.465	70.70	85.84	15.14	54.00	-31.84	100	265	Horizontal	No limit
1	5671.72	67.04	82.09	15.05	54.00	-28.09	100	342	Vertical	No limit

IEEE 802.11n HT40 mode/5755MHz

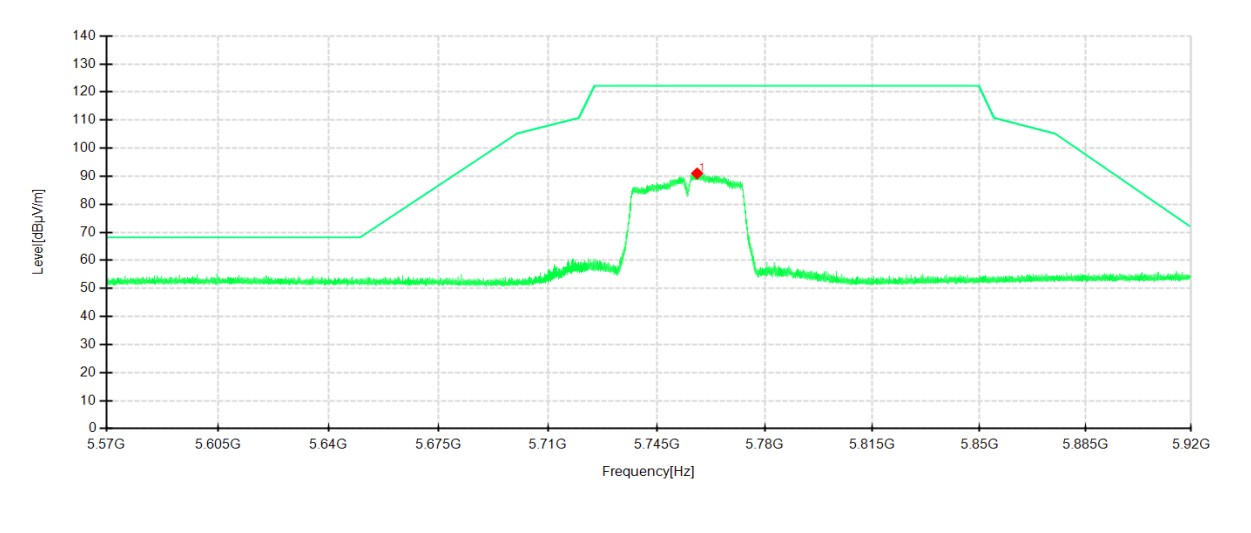
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

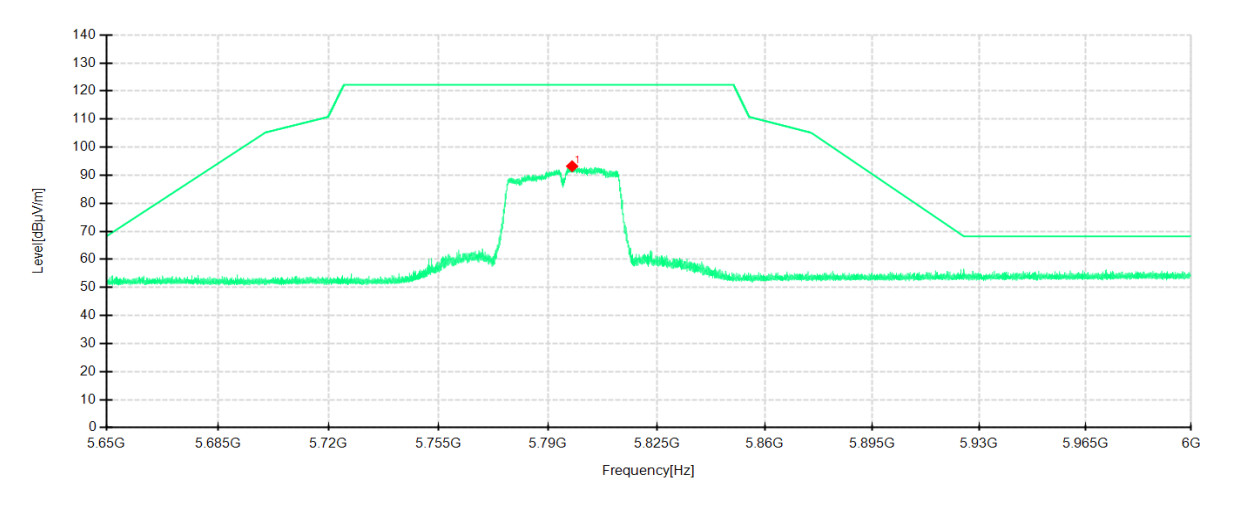


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5757.915	78.16	93.56	15.40	122.20	28.64	100	111	Horizontal	No limit
1	5758.0025	75.72	91.01	15.29	122.20	31.19	100	157	Vertical	No limit

IEEE 802.11n HT40 mode/5795MHz

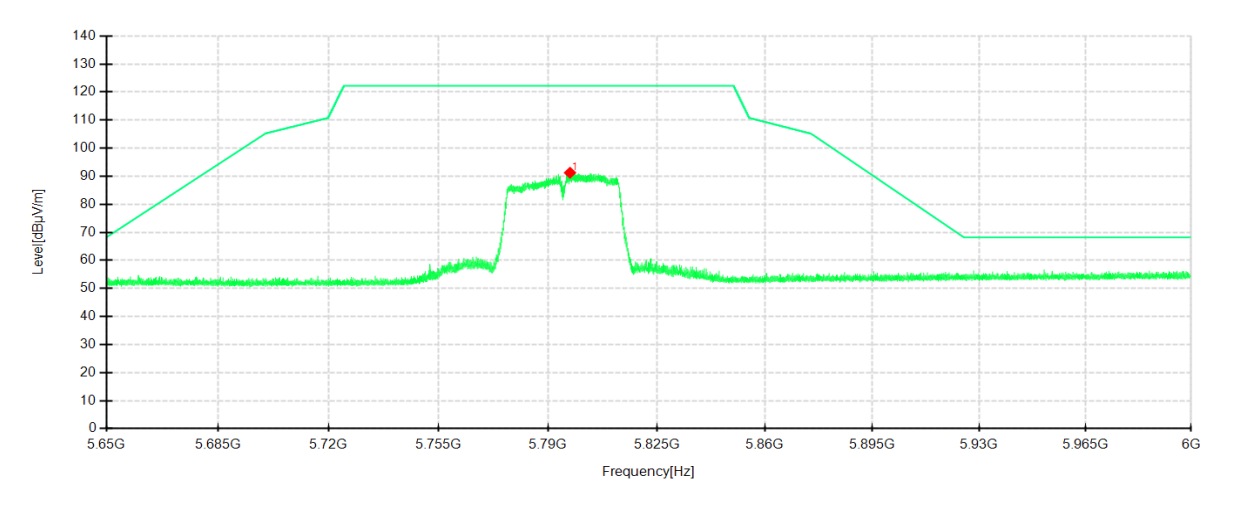
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



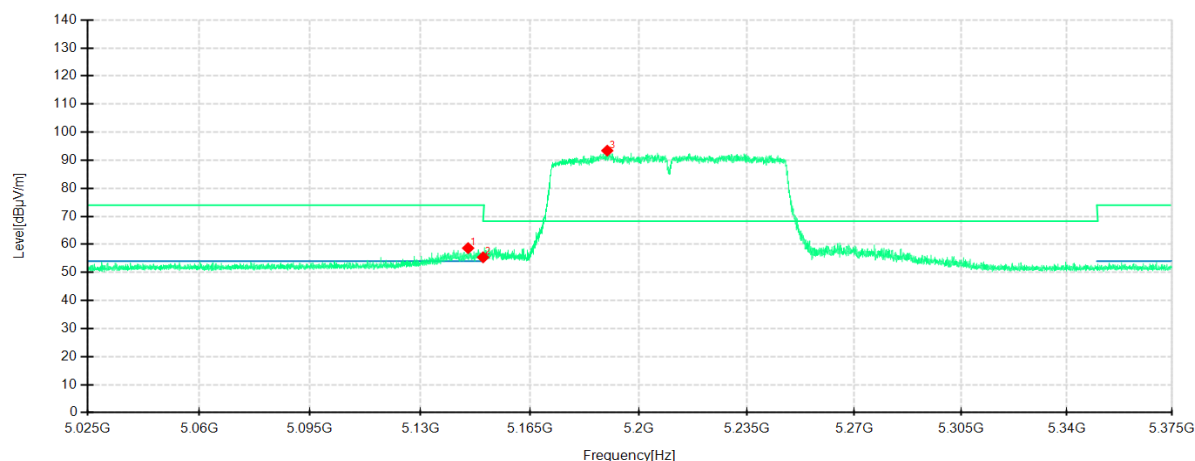
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5797.7525	77.59	93.20	15.61	122.20	29.00	200	46	Horizontal	No limit
1	5797.07	75.84	91.25	15.41	122.20	30.95	100	350	Vertical	No limit

Temp: 25°C; Humi:60%RH	Power supply: DC 12V
Test Engineer: Zhang Zishan	Test Date: 2022-04-14

IEEE 802.11ac VHT80 mode/5210MHz

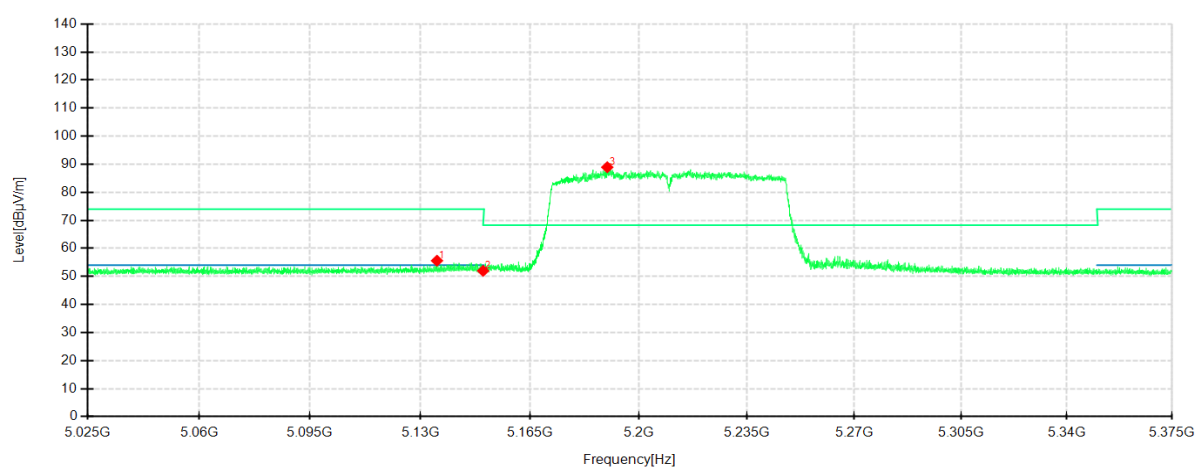
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

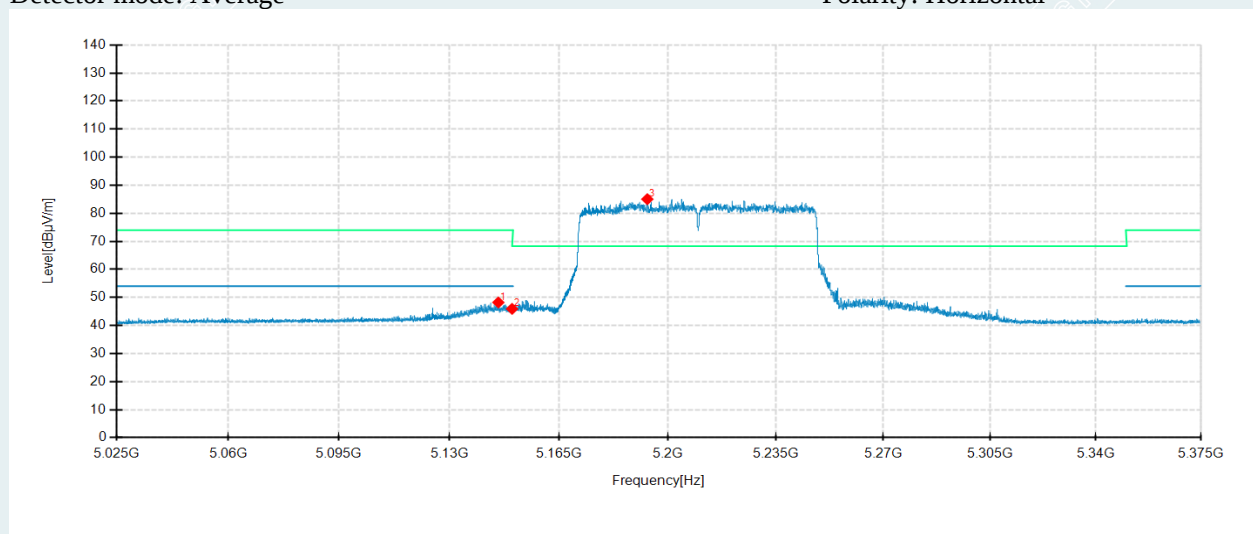


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5145.225	44.47	58.66	14.19	74.00	15.34	100	163	Horizontal	/
2	5150	41.20	55.38	14.18	74.00	18.62	100	156	Horizontal	/
3	5189.85	79.45	93.42	13.97	68.30	-25.12	100	356	Horizontal	No limit
1	5135.285	41.52	55.61	14.09	74.00	18.39	100	157	Vertical	/
2	5150	37.91	51.99	14.08	74.00	22.01	200	95	Vertical	/
3	5189.85	74.90	88.93	14.03	68.30	-20.63	100	265	Vertical	No limit

IEEE 802.11ac VHT80 mode/5210MHz

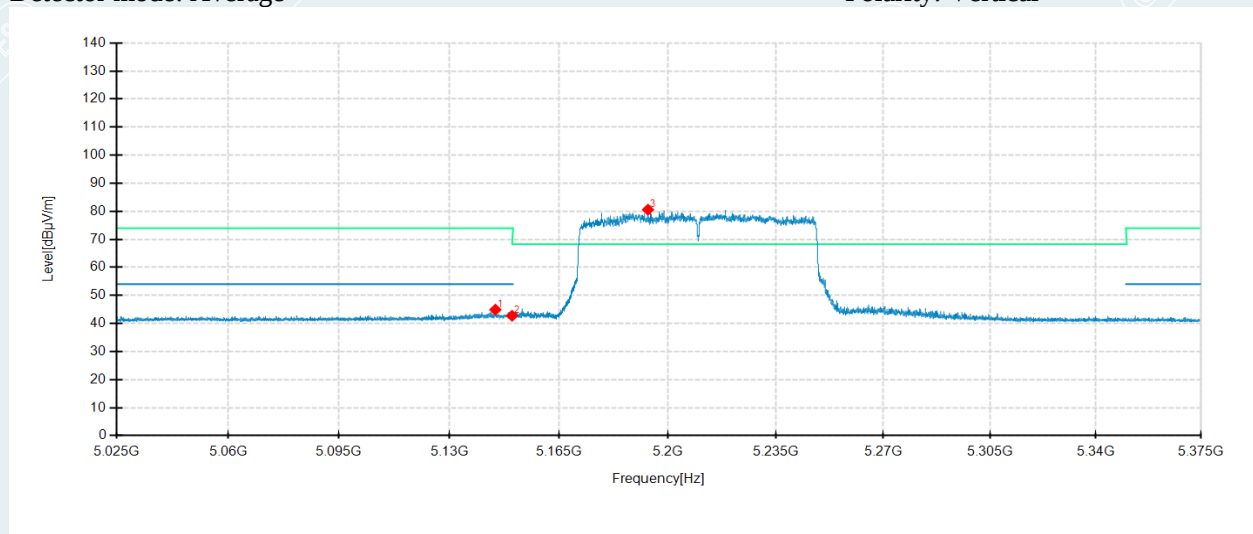
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

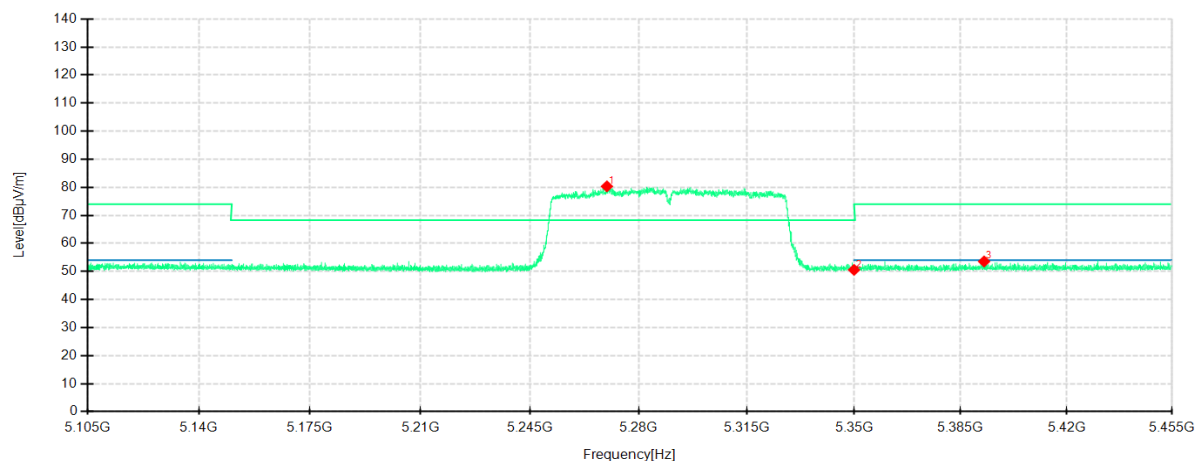


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5145.61	34.03	48.22	14.19	54.00	5.78	100	95	Horizontal	/
2	5150	31.74	45.92	14.18	54.00	8.08	100	360	Horizontal	/
3	5193.42	71.08	85.03	13.95	-	-	100	354	Horizontal	No limit
1	5144.665	30.84	44.92	14.08	54.00	9.08	100	265	Vertical	/
2	5150	28.66	42.74	14.08	54.00	11.26	200	124	Vertical	/
3	5193.63	66.53	80.56	14.03	-	-	100	265	Vertical	No limit

IEEE 802.11ac VHT80 mode/5290MHz

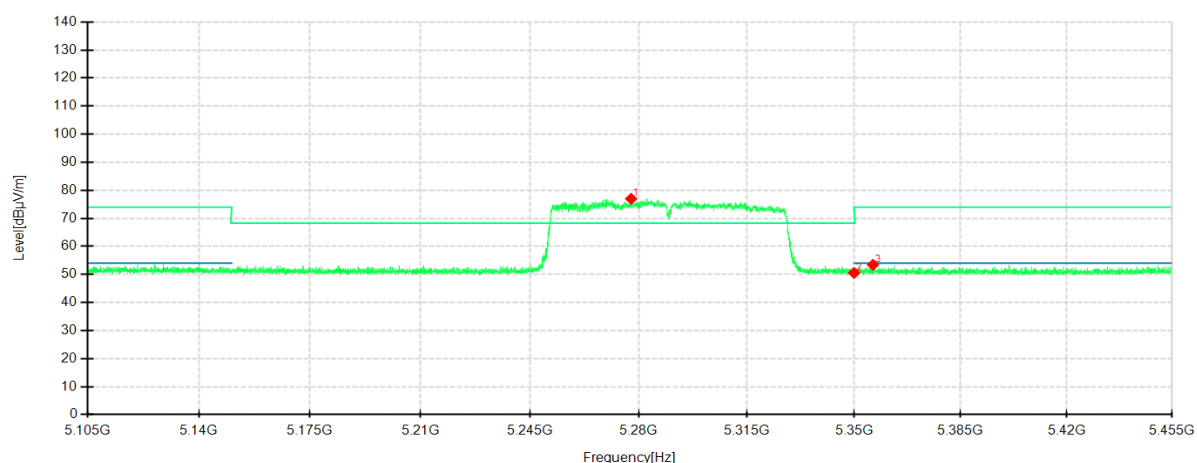
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

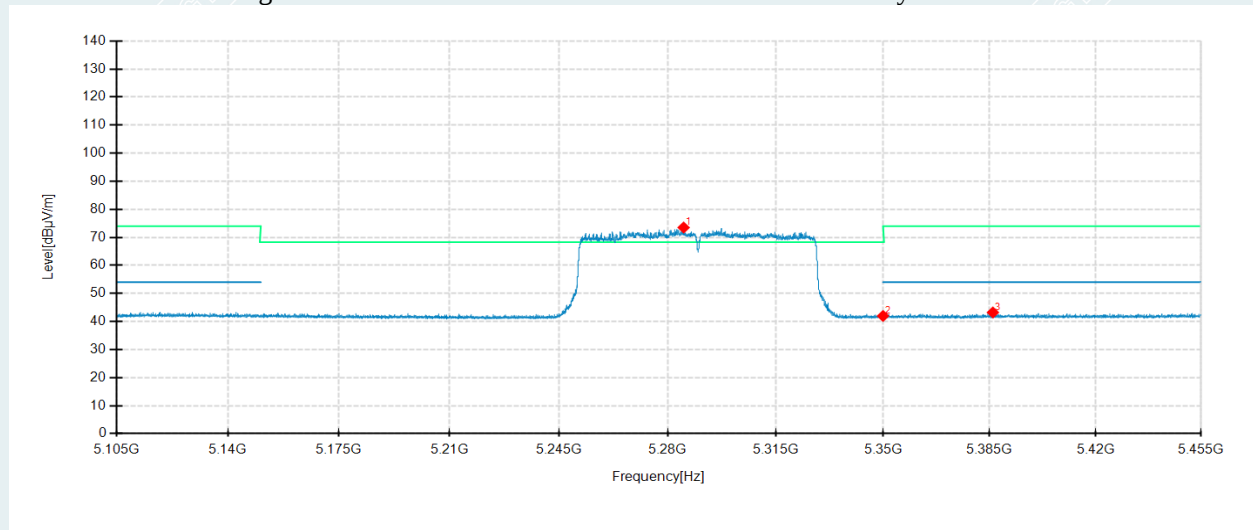


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5269.78	66.52	80.33	13.81	68.30	-12.03	100	194	Horizontal	No limit
2	5350	36.31	50.56	14.25	68.30	17.74	200	210	Horizontal	/
3	5392.7	39.05	53.56	14.51	74.00	20.44	100	204	Horizontal	/
1	5277.585	62.85	76.97	14.12	68.30	-8.67	100	102	Vertical	No limit
2	5350	36.27	50.52	14.25	68.30	17.78	100	281	Vertical	/
3	5356.195	39.22	53.46	14.24	74.00	20.54	200	243	Vertical	/

IEEE 802.11ac VHT80 mode/5290MHz

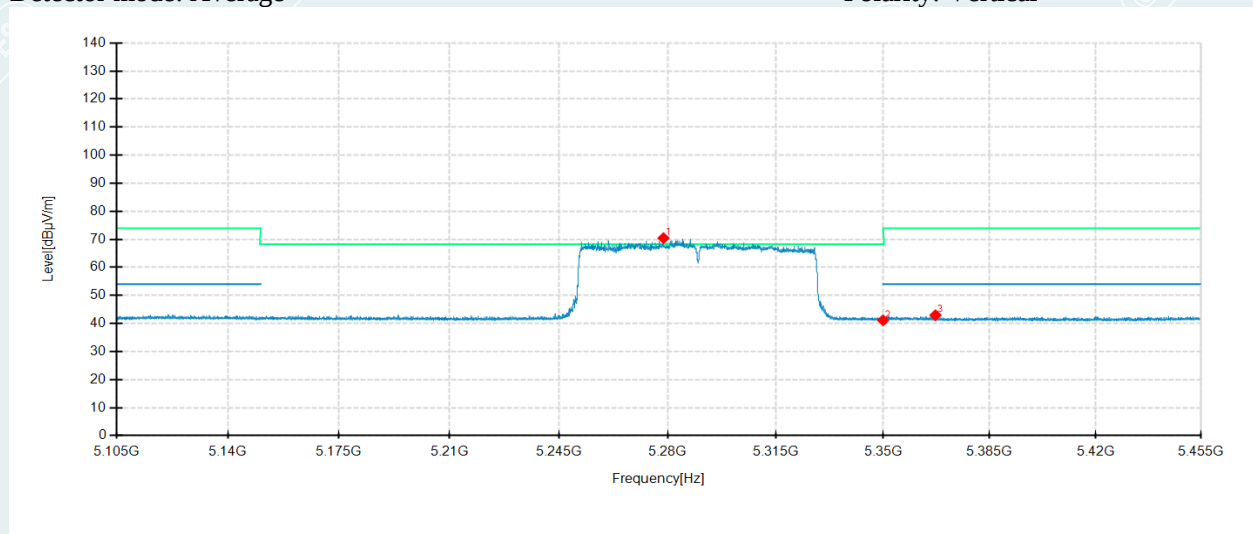
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

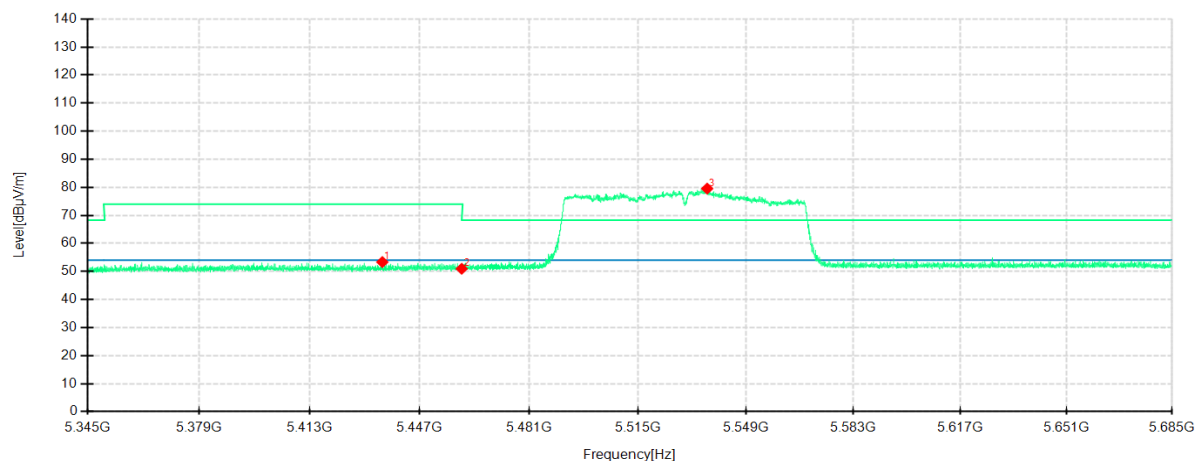


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5285.18	59.66	73.49	13.83	-	-	100	194	Horizontal	No limit
2	5350	27.72	41.97	14.25	54.00	12.03	100	89	Horizontal	/
3	5386.05	28.74	43.21	14.47	54.00	10.79	100	259	Horizontal	/
1	5278.67	56.31	70.43	14.12	-	-	100	102	Vertical	No limit
2	5350	26.89	41.14	14.25	54.00	12.86	200	180	Vertical	/
3	5367.185	28.74	42.96	14.22	54.00	11.04	200	260	Vertical	/

IEEE 802.11ac VHT80 mode/5530MHz

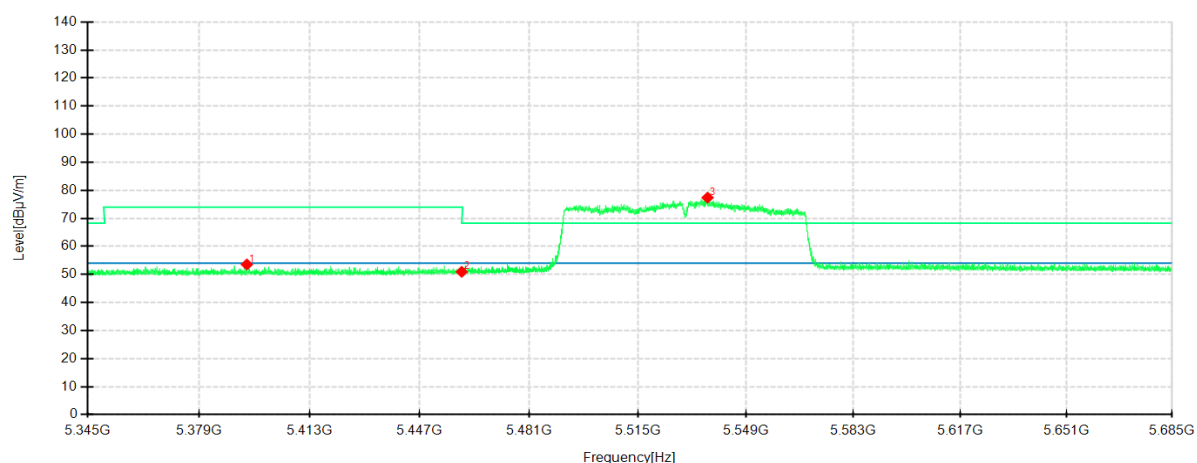
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

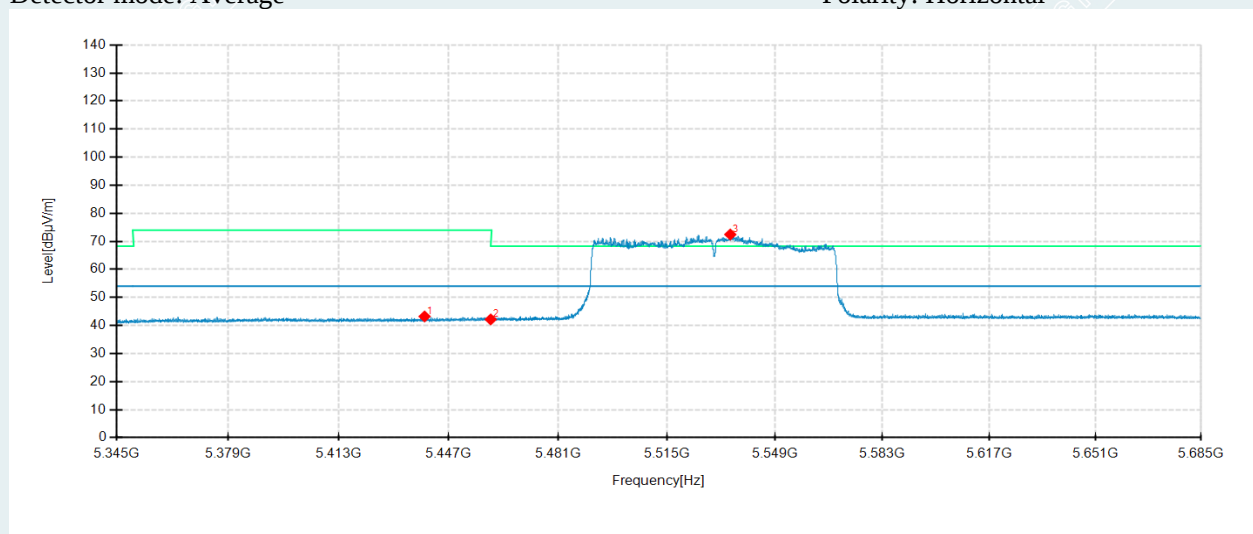


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5435.44	38.72	53.34	14.62	74.00	20.66	200	353	Horizontal	/
2	5460	36.25	50.95	14.70	68.30	17.35	100	99	Horizontal	/
3	5536.726	64.54	79.52	14.98	68.30	-11.22	200	198	Horizontal	No limit
1	5393.722	39.38	53.55	14.17	74.00	20.45	100	294	Vertical	/
2	5460	36.49	50.93	14.44	68.30	17.37	200	259	Vertical	/
3	5536.862	62.28	77.38	15.10	68.30	-9.08	100	100	Vertical	No limit

IEEE 802.11ac VHT80 mode/5530MHz

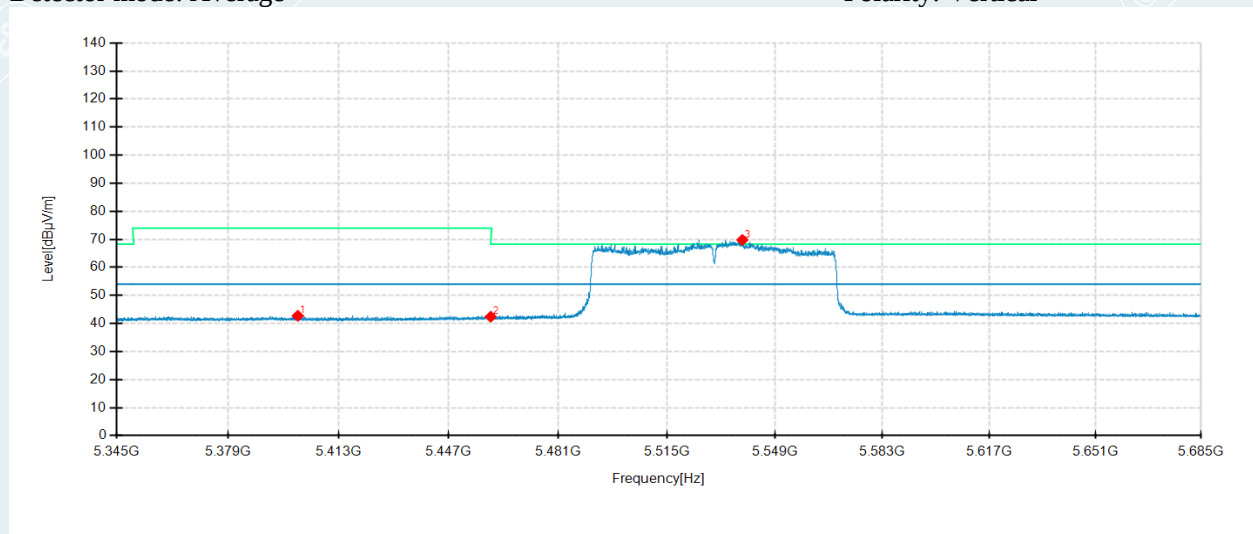
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

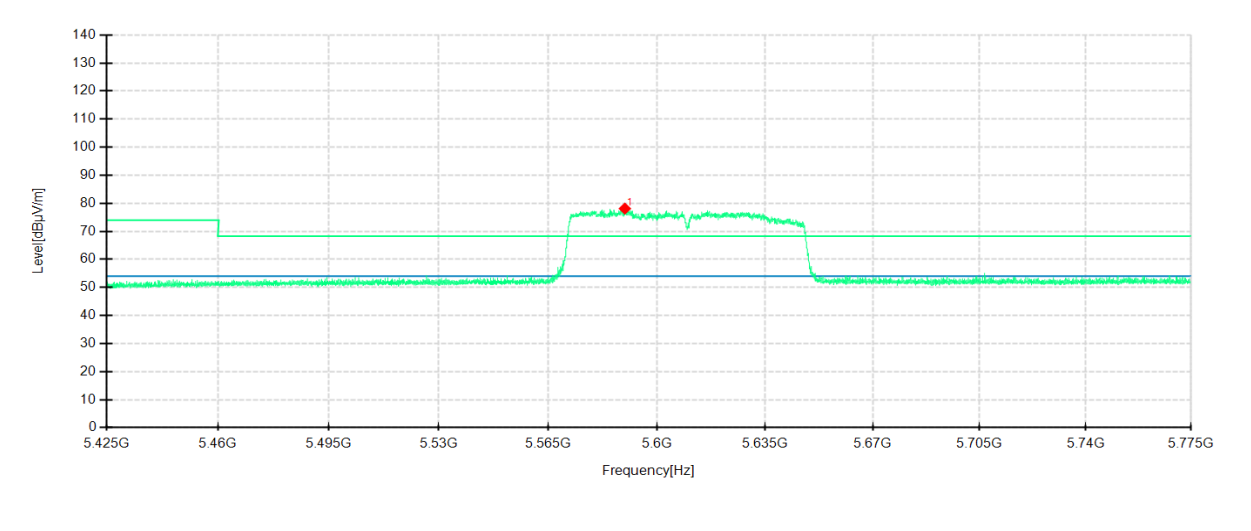


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5439.52	28.58	43.21	14.63	54.00	10.79	100	259	Horizontal	/
2	5460	27.45	42.15	14.70	54.00	11.85	100	153	Horizontal	/
3	5534.89	57.46	72.44	14.98	54.00	-18.44	200	192	Horizontal	No limit
1	5400.454	28.58	42.74	14.16	54.00	11.26	200	259	Vertical	/
2	5460	27.97	42.41	14.44	54.00	11.59	200	66	Vertical	/
3	5538.698	54.67	69.78	15.11	54.00	-15.78	100	102	Vertical	No limit

IEEE 802.11ac VHT80 mode/5610MHz

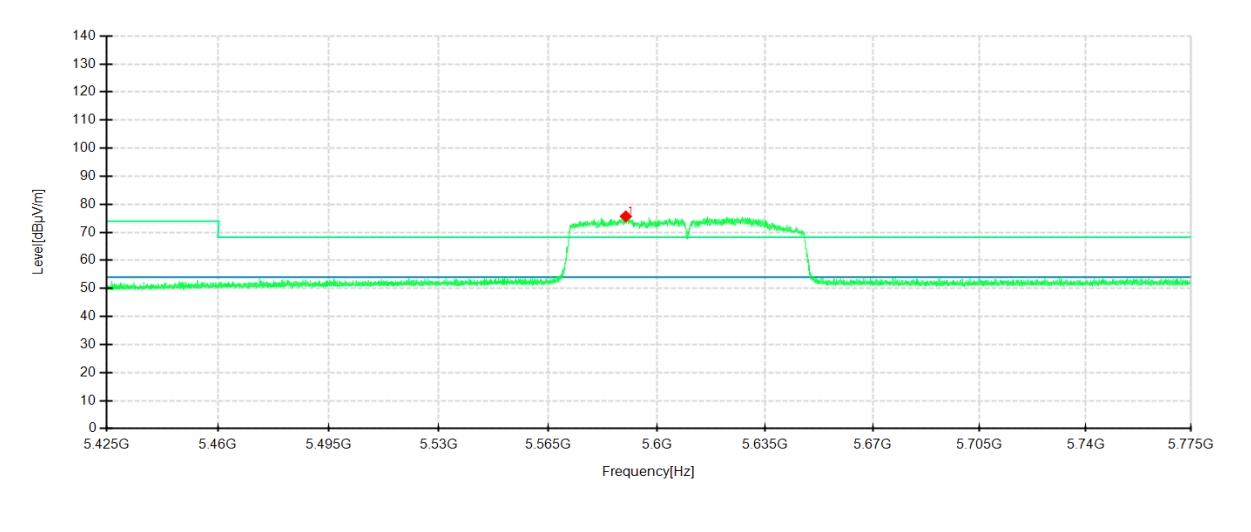
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

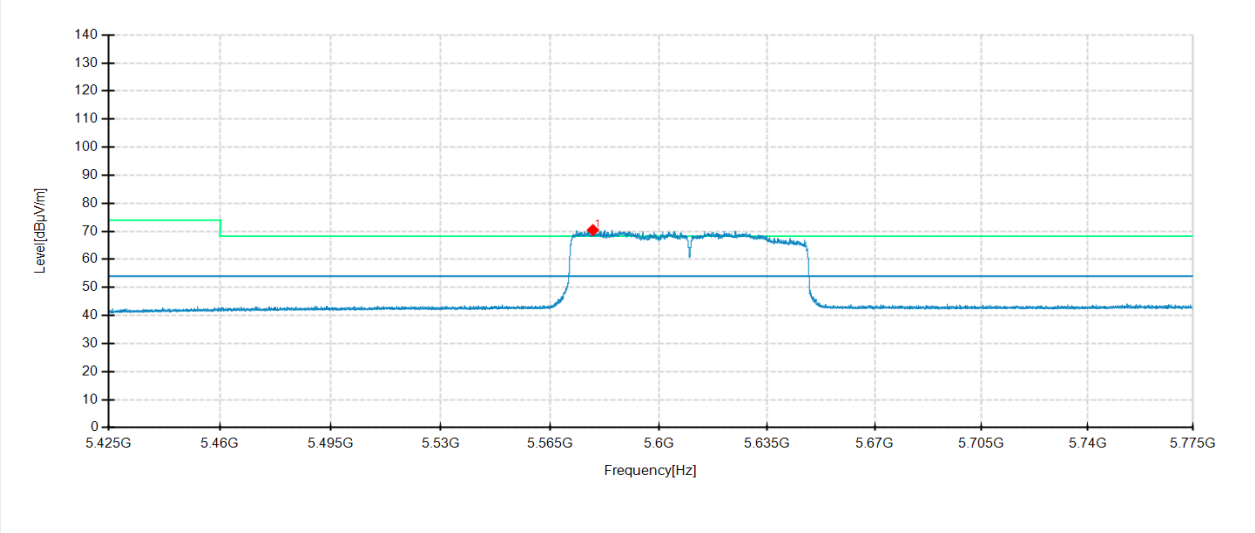


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5589.605	63.00	78.10	15.10	68.30	-9.80	200	210	Horizontal	No limit
1	5589.92	60.23	75.69	15.46	68.30	-7.39	100	354	Vertical	No limit

IEEE 802.11ac VHT80 mode/5610MHz

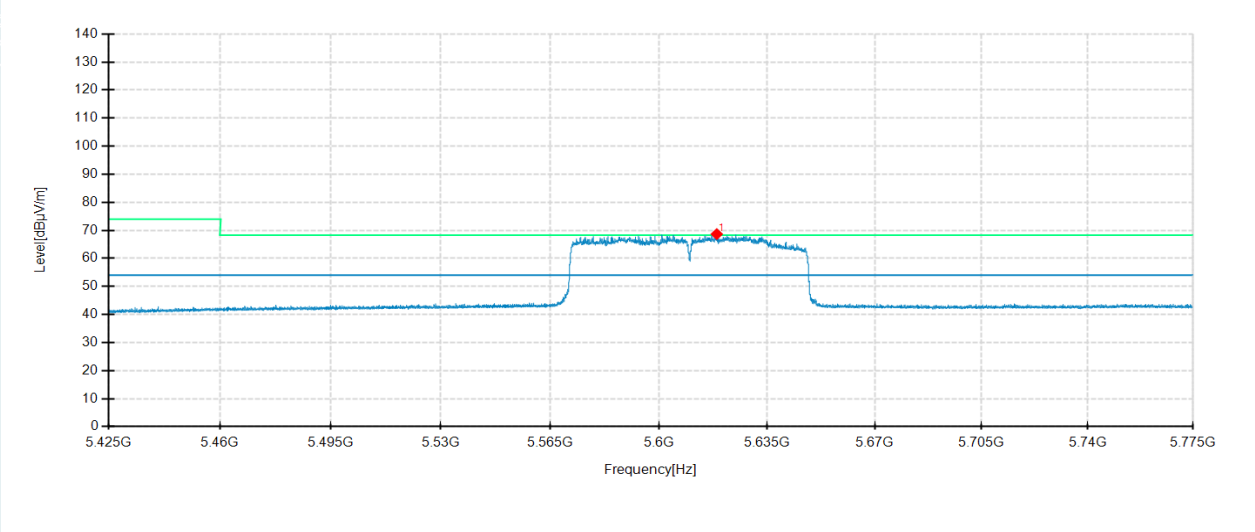
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical

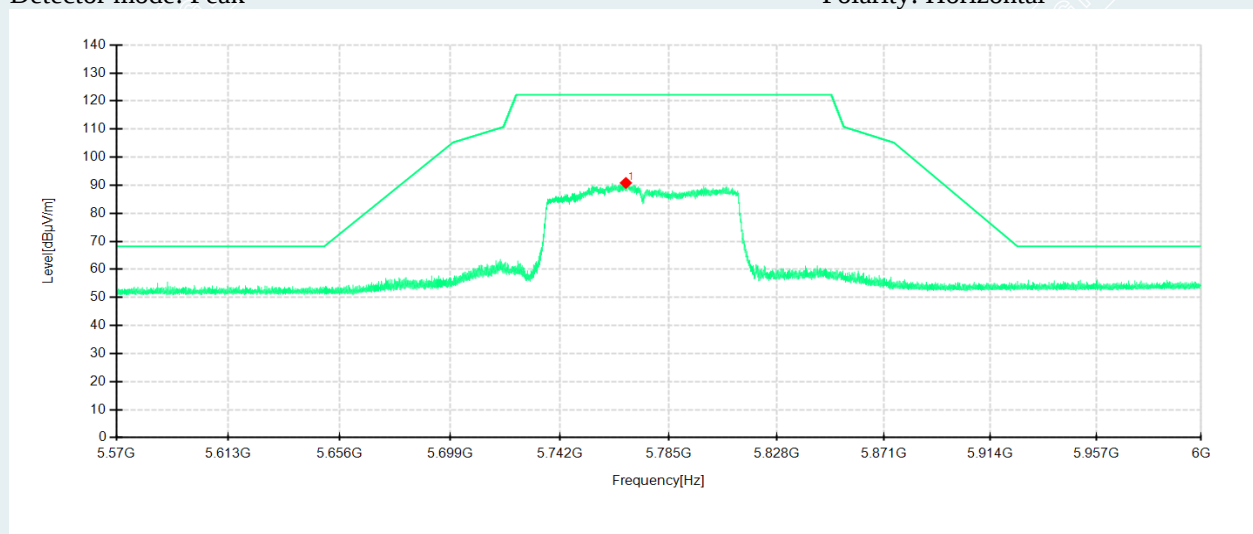


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5578.685	55.39	70.46	15.07	54.00	-16.46	200	193	Horizontal	No limit
1	5618.655	53.27	68.66	15.39	54.00	-14.66	100	101	Vertical	No limit

IEEE 802.11ac VHT80 mode/5775MHz

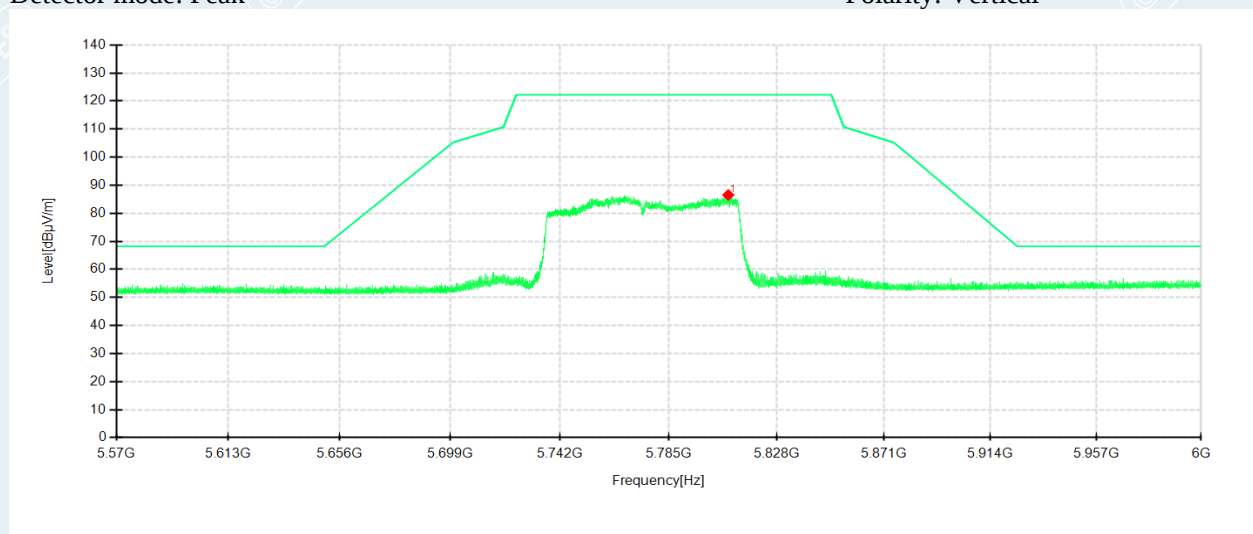
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5768.058	75.37	90.82	15.45	122.20	31.38	200	220	Horizontal	No limit
1	5808.6715	71.00	86.51	15.51	122.20	35.69	200	18	Vertical	No limit

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

7. 6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

7.1 LIMITS

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth $\geq$ 500kHz

7.2 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 measurement 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

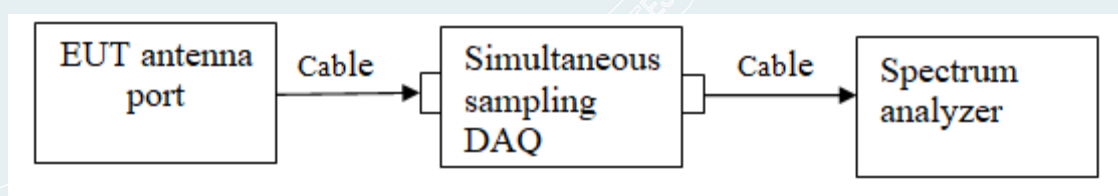
Table 2:

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

7.3 TEST SETUP



7.4 TEST RESULTS

Environmental Conditions	23.8°C/50%RH	Test Voltage	DC 12V
Tested By	Lu Wei	Test Date	2022-04-14

6dB BANDWIDTH

Test Mode	Antenna	Frequency [MHz]	6dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5745	15.32	5737.44	5752.76	≥ 0.5	PASS
		5785	16.32	5776.84	5793.16	≥ 0.5	PASS
		5825	15.68	5817.44	5833.12	≥ 0.5	PASS
IEEE 802.11n HT20	Ant1	5745	16.28	5736.48	5752.76	≥ 0.5	PASS
		5785	16.28	5776.84	5793.12	≥ 0.5	PASS
		5825	15.92	5816.84	5832.76	≥ 0.5	PASS
IEEE 802.11n HT40	Ant1	5755	35.36	5737.24	5772.60	≥ 0.5	PASS
		5795	36.32	5776.84	5813.16	≥ 0.5	PASS
IEEE 802.11ac VHT20	Ant1	5745	16.52	5736.84	5753.36	≥ 0.5	PASS
		5785	15.16	5777.40	5792.56	≥ 0.5	PASS
		5825	15.92	5816.84	5832.76	≥ 0.5	PASS
IEEE 802.11ac VHT40	Ant1	5755	35.52	5737.08	5772.60	≥ 0.5	PASS
		5795	35.52	5777.24	5812.76	≥ 0.5	PASS
IEEE 802.11ac	Ant1	5775	75.20	5737.40	5812.60	≥ 0.5	PASS

26dB BANDWIDTH

Test Mode	Antenna	Frequency [MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5180	21.96	5169.04	5191.00	---	PASS
		5200	23.32	5188.60	5211.92	---	PASS
		5240	23.44	5228.32	5251.76	---	PASS
		5260	22.36	5249.00	5271.36	---	PASS
		5280	23.48	5268.00	5291.48	---	PASS
		5320	23.04	5308.64	5331.68	---	PASS
		5500	23.44	5488.00	5511.44	---	PASS
		5580	23.24	5568.36	5591.60	---	PASS
		5700	23.92	5688.00	5711.92	---	PASS
		5745	24.72	5732.88	5757.60	---	PASS
		5785	23.92	5772.68	5796.60	---	PASS
		5825	23.56	5813.68	5837.24	---	PASS
IEEE 802.11n HT20	Ant1	5180	23.04	5168.24	5191.28	---	PASS
		5200	24.52	5187.40	5211.92	---	PASS
		5240	23.92	5227.72	5251.64	---	PASS
		5260	22.68	5248.68	5271.36	---	PASS
		5280	23.32	5268.44	5291.76	---	PASS
		5320	23.08	5308.64	5331.72	---	PASS
		5500	24.32	5487.72	5512.04	---	PASS
		5580	24.36	5567.64	5592.00	---	PASS
		5700	24.00	5688.32	5712.32	---	PASS
		5745	23.44	5733.40	5756.84	---	PASS
		5785	23.76	5773.00	5796.76	---	PASS
		5825	25.88	5812.36	5838.24	---	PASS
IEEE 802.11n HT40	Ant1	5190	41.68	5169.04	5210.72	---	PASS
		5230	41.28	5209.52	5250.80	---	PASS
		5270	41.36	5249.36	5290.72	---	PASS
		5310	41.52	5289.36	5330.88	---	PASS
		5510	41.44	5489.36	5530.80	---	PASS
		5550	41.44	5529.28	5570.72	---	PASS
		5670	41.60	5649.12	5690.72	---	PASS
		5755	41.60	5734.20	5775.80	---	PASS
		5795	41.44	5774.36	5815.80	---	PASS
IEEE 802.11ac VHT20	Ant1	5180	23.80	5168.20	5192.00	---	PASS
		5200	23.16	5188.76	5211.92	---	PASS
		5240	22.76	5228.64	5251.40	---	PASS
		5260	23.52	5248.04	5271.56	---	PASS
		5280	24.32	5267.72	5292.04	---	PASS

		5320	23.44	5308.24	5331.68	---	PASS
		5500	23.96	5488.00	5511.96	---	PASS
		5580	25.12	5567.40	5592.52	---	PASS
		5700	24.24	5688.00	5712.24	---	PASS
		5745	23.80	5733.00	5756.80	---	PASS
		5785	23.40	5773.28	5796.68	---	PASS
		5825	24.36	5813.00	5837.36	---	PASS
IEEE 802.11ac VHT40	Ant1	5190	41.20	5169.20	5210.40	---	PASS
		5230	41.04	5209.60	5250.64	---	PASS
		5270	41.60	5249.12	5290.72	---	PASS
		5310	41.52	5289.36	5330.88	---	PASS
		5510	41.12	5489.60	5530.72	---	PASS
		5550	41.76	5529.12	5570.88	---	PASS
		5670	41.52	5649.28	5690.80	---	PASS
		5755	41.60	5733.96	5775.56	---	PASS
		5795	41.84	5774.12	5815.96	---	PASS
IEEE 802.11ac VHT80	Ant1	5210	83.36	5168.56	5251.92	---	PASS
		5290	84.16	5247.92	5332.08	---	PASS
		5530	82.40	5488.72	5571.12	---	PASS
		5610	83.52	5568.08	5651.60	---	PASS
		5775	83.84	5733.08	5816.92	---	PASS

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

99% OCCUPIED BANDWIDTH

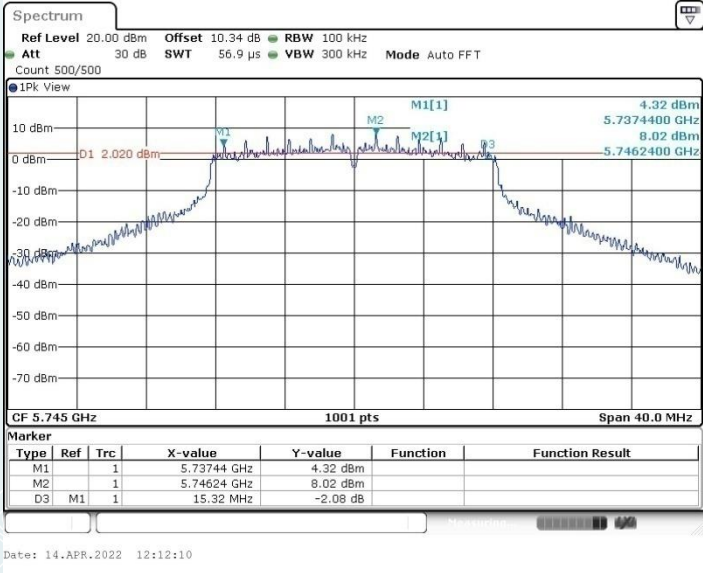
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
IEEE 802.11a	Ant1	5180	17.183	5171.369	5188.551	---	PASS
		5200	17.303	5191.329	5208.631	---	PASS
		5240	17.263	5231.369	5248.631	---	PASS
		5260	17.383	5251.329	5268.711	---	PASS
		5280	17.343	5271.289	5288.631	---	PASS
		5320	17.223	5311.409	5328.631	---	PASS
		5500	17.423	5491.329	5508.751	---	PASS
		5580	17.303	5571.249	5588.551	---	PASS
		5700	17.343	5691.329	5708.671	---	PASS
		5745	17.463	5736.369	5753.831	---	PASS
		5785	17.423	5776.289	5793.711	---	PASS
		5825	17.622	5816.249	5833.871	---	PASS
IEEE 802.11n HT20	Ant1	5180	18.302	5170.849	5189.151	---	PASS
		5200	18.262	5190.849	5209.111	---	PASS
		5240	18.342	5230.769	5249.111	---	PASS
		5260	18.342	5250.769	5269.111	---	PASS
		5280	18.382	5270.809	5289.191	---	PASS
		5320	18.302	5310.849	5329.151	---	PASS
		5500	18.462	5490.769	5509.231	---	PASS
		5580	18.422	5570.769	5589.191	---	PASS
		5700	18.541	5690.729	5709.271	---	PASS
		5745	18.342	5735.809	5754.151	---	PASS
		5785	18.422	5775.729	5794.151	---	PASS
		5825	18.501	5815.729	5834.231	---	PASS
IEEE 802.11n HT40	Ant1	5190	36.444	5171.778	5208.222	---	PASS
		5230	36.603	5211.698	5248.302	---	PASS
		5270	36.603	5251.618	5288.222	---	PASS
		5310	36.523	5291.698	5328.222	---	PASS
		5510	36.444	5491.858	5528.302	---	PASS
		5550	36.523	5531.618	5568.142	---	PASS
		5670	36.683	5651.618	5688.302	---	PASS
		5755	36.603	5736.618	5773.222	---	PASS
		5795	36.523	5776.698	5813.222	---	PASS
IEEE 802.11ac VHT20	Ant1	5180	18.342	5170.809	5189.151	---	PASS
		5200	18.302	5190.849	5209.151	---	PASS
		5240	18.342	5230.769	5249.111	---	PASS
		5260	18.342	5250.849	5269.191	---	PASS

		5280	18.422	5270.769	5289.191	---	PASS
		5320	18.382	5310.849	5329.231	---	PASS
		5500	18.382	5490.809	5509.191	---	PASS
		5580	18.462	5570.689	5589.151	---	PASS
		5700	18.422	5690.769	5709.191	---	PASS
		5745	18.462	5735.689	5754.151	---	PASS
		5785	18.422	5775.769	5794.191	---	PASS
		5825	18.462	5815.769	5834.231	---	PASS
IEEE 802.11ac VHT40	Ant1	5190	36.523	5171.698	5208.222	---	PASS
		5230	36.444	5211.858	5248.302	---	PASS
		5270	36.444	5251.778	5288.222	---	PASS
		5310	36.683	5291.698	5328.382	---	PASS
		5510	36.444	5491.778	5528.222	---	PASS
		5550	36.523	5531.698	5568.222	---	PASS
		5670	36.444	5651.698	5688.142	---	PASS
		5755	36.364	5736.778	5773.142	---	PASS
		5795	36.364	5776.778	5813.142	---	PASS
IEEE 802.11ac VHT80	Ant1	5210	76.244	5171.798	5248.042	---	PASS
		5290	76.404	5251.798	5328.202	---	PASS
		5530	76.404	5491.798	5568.202	---	PASS
		5610	76.563	5571.319	5647.882	---	PASS
		5775	76.404	5736.638	5813.042	---	PASS

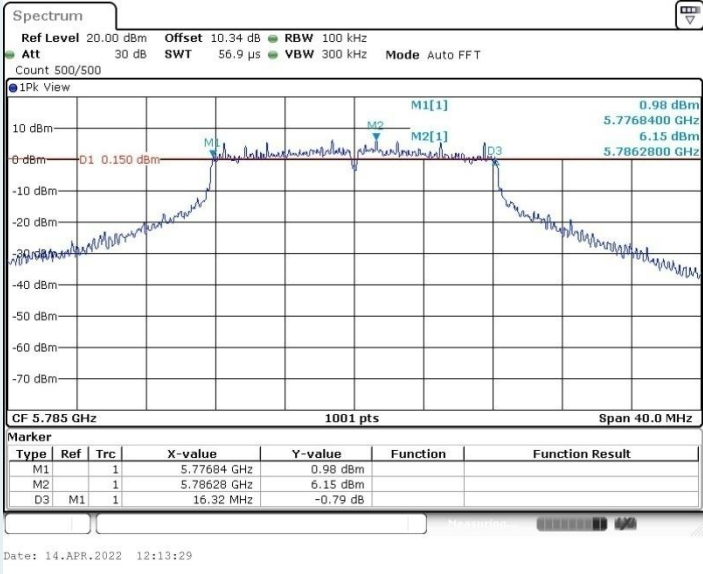
----- The following blanks -----

6dB BANDWIDTH

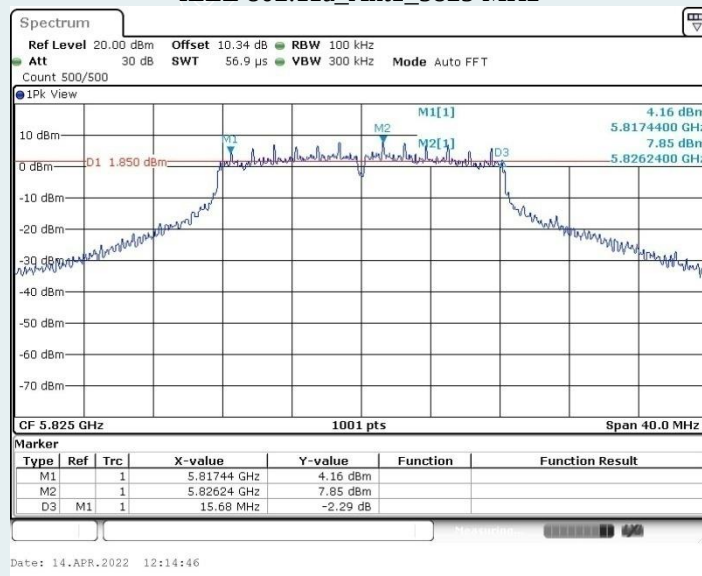
IEEE 802.11a_Ant1_5745 MHz



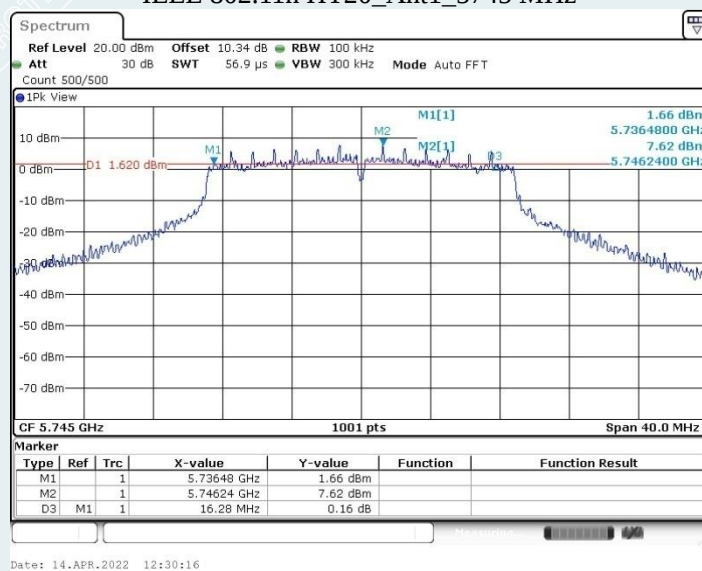
IEEE 802.11a_Ant1_5785 MHz



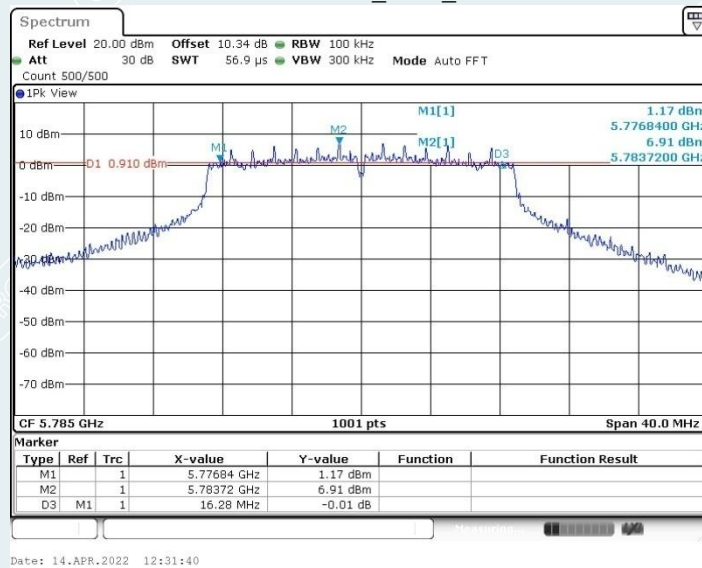
IEEE 802.11a_Ant1_5825 MHz



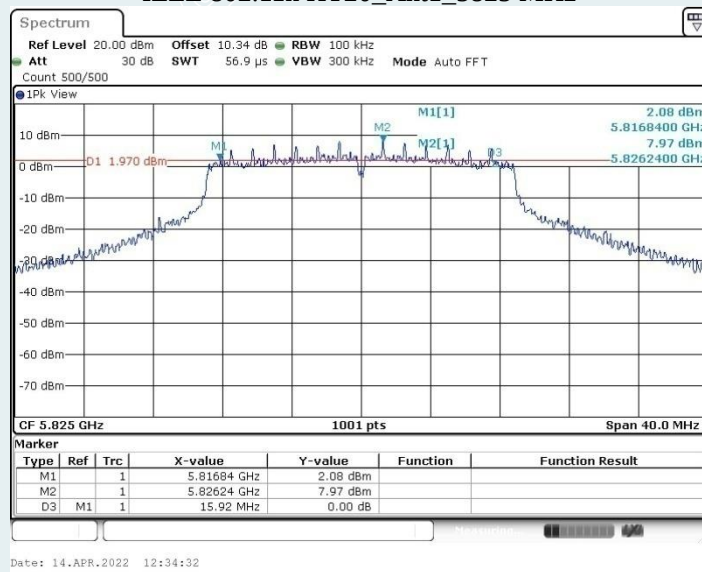
IEEE 802.11n HT20_Ant1_5745 MHz



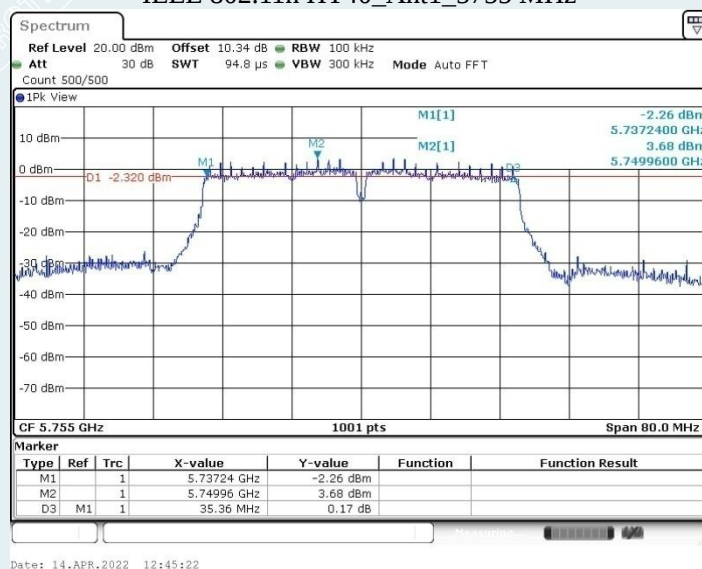
IEEE 802.11n HT20_Ant1_5785 MHz



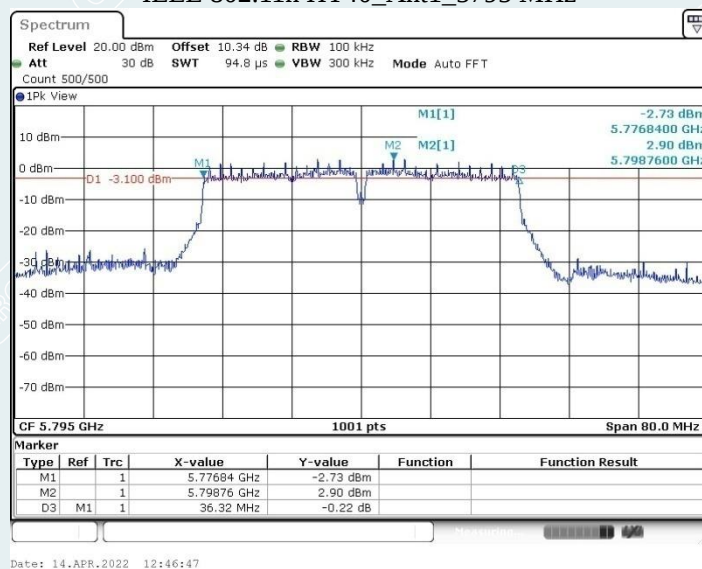
IEEE 802.11n HT20_Ant1_5825 MHz



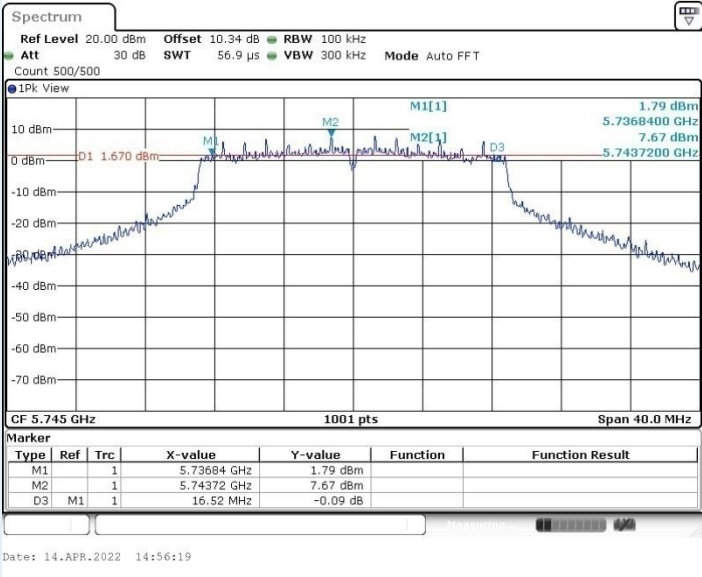
IEEE 802.11n HT40_Ant1_5755 MHz



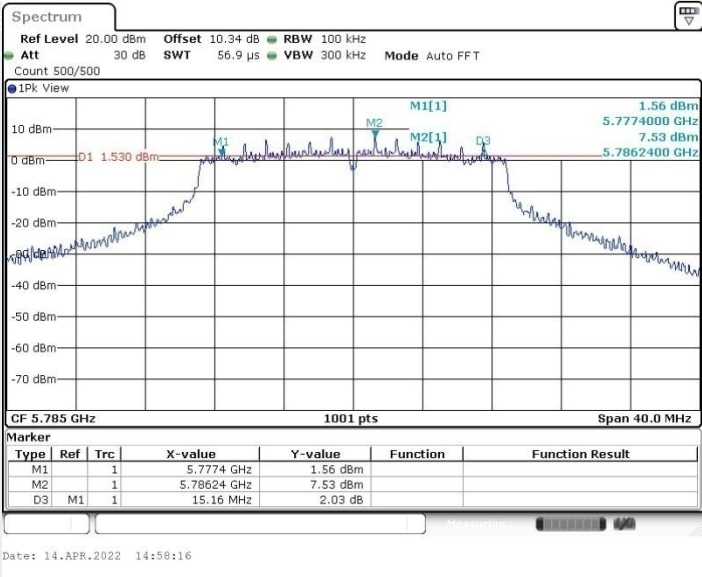
IEEE 802.11n HT40_Ant1_5795 MHz



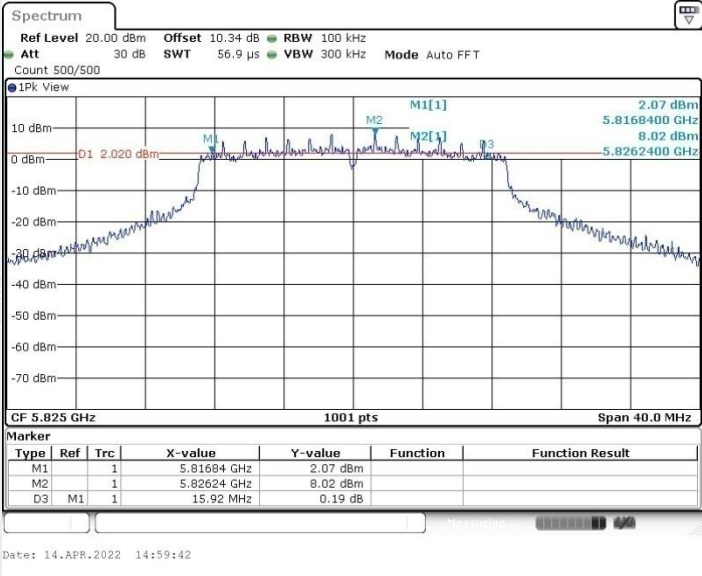
IEEE 802.11ac VHT20_Ant1_5745 MHz



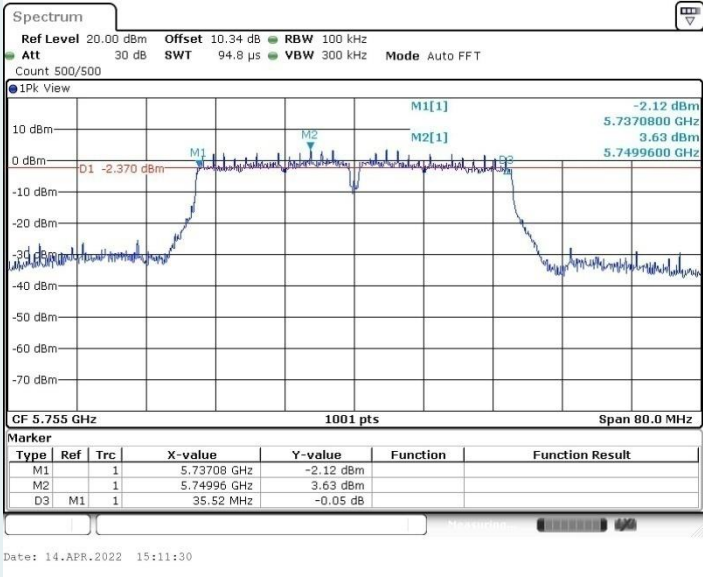
IEEE 802.11ac VHT20_Ant1_5785 MHz



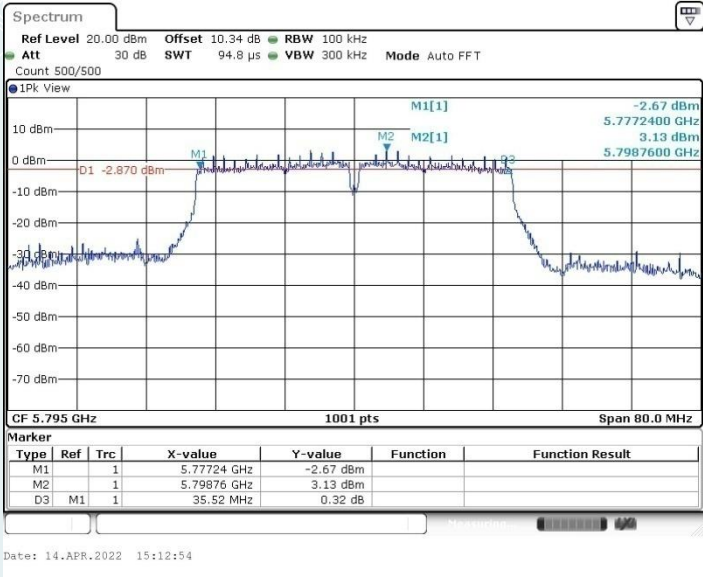
IEEE 802.11ac VHT20_Ant1_5825 MHz



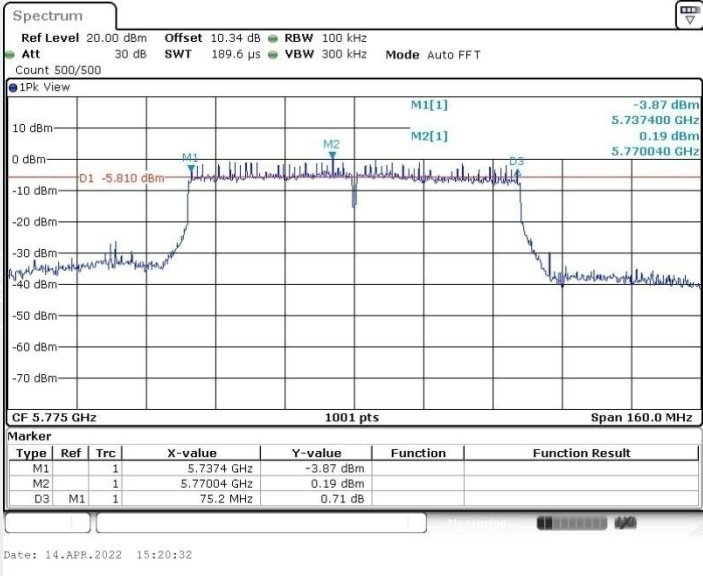
IEEE 802.11ac VHT40_Ant1_5755 MHz



IEEE 802.11ac VHT40_Ant1_5795 MHz



IEEE 802.11ac VHT80_Ant1_5775 MHz

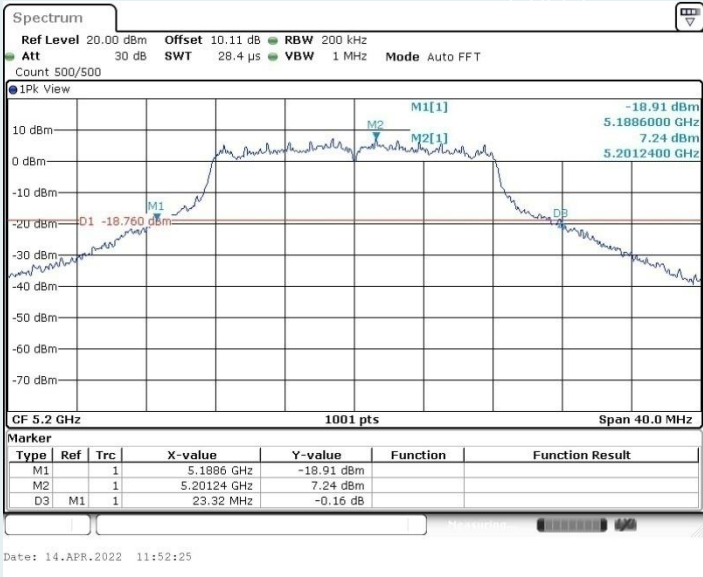


26dB BANDWIDTH

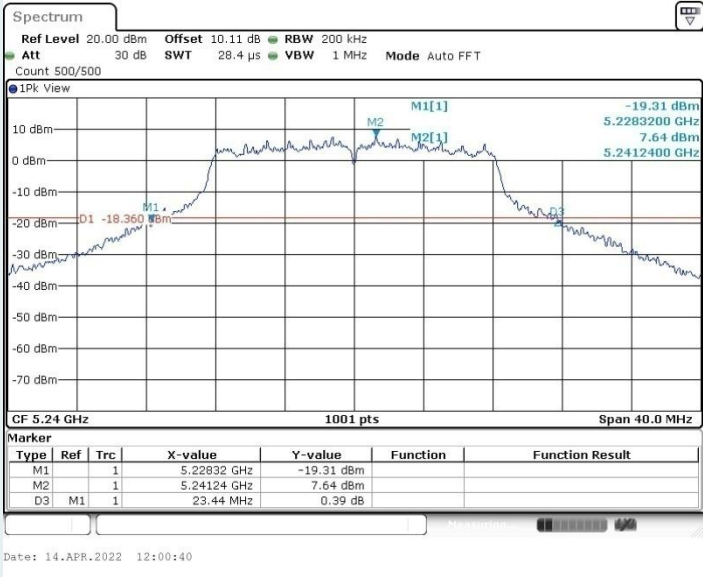
IEEE 802.11a_Ant1_5180 MHz



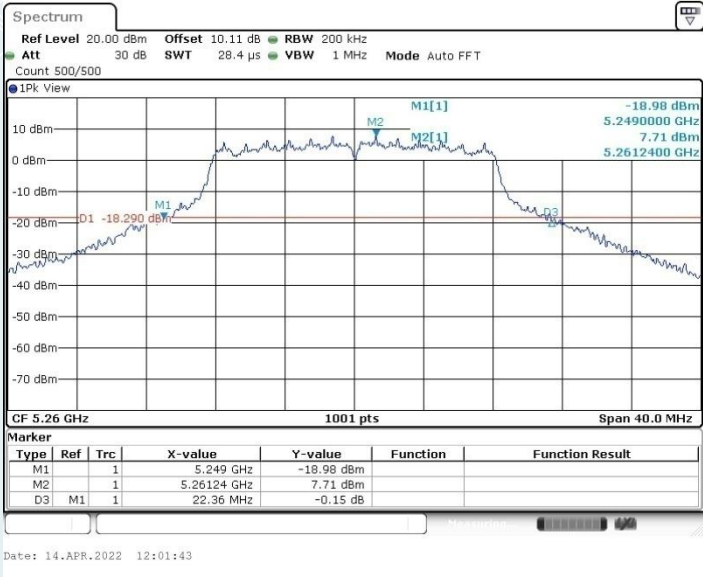
IEEE 802.11a_Ant1_5200 MHz



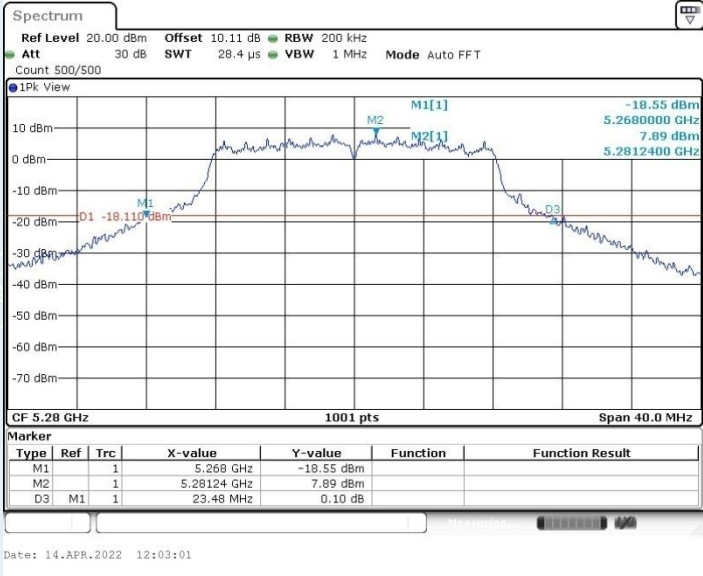
IEEE 802.11a_Ant1_5240 MHz



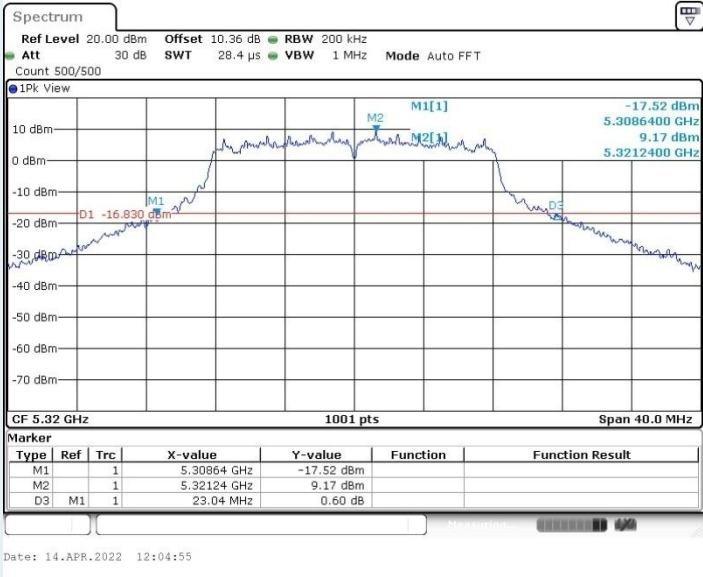
IEEE 802.11a_Ant1_5260 MHz



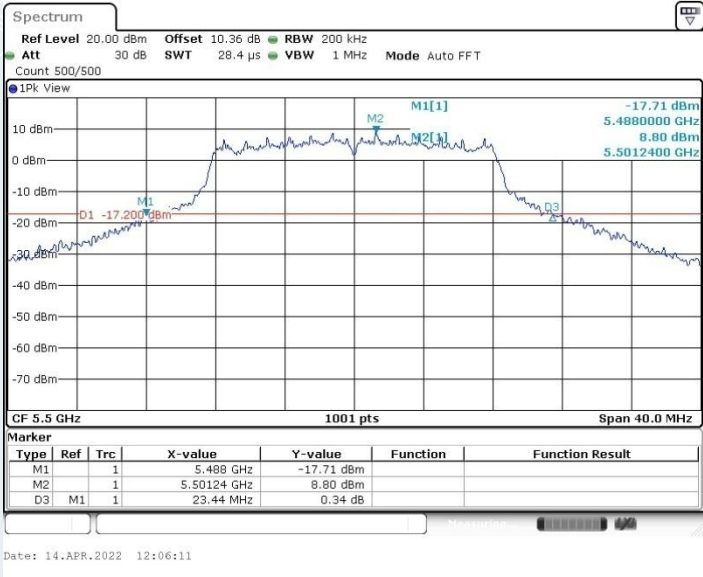
IEEE 802.11a_Ant1_5280 MHz



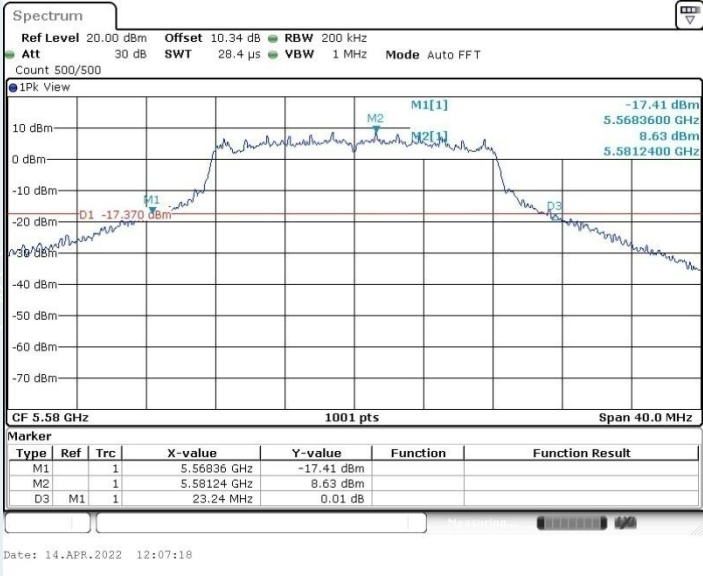
IEEE 802.11a_Ant1_5320 MHz



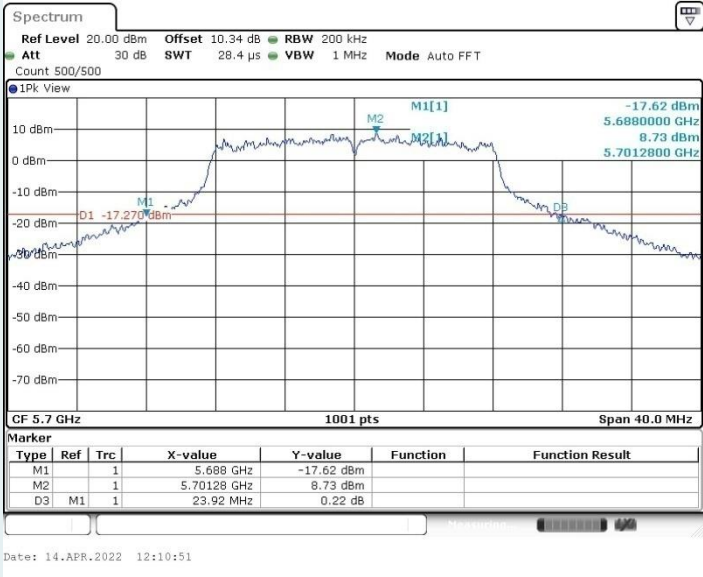
IEEE 802.11a_Ant1_5500 MHz



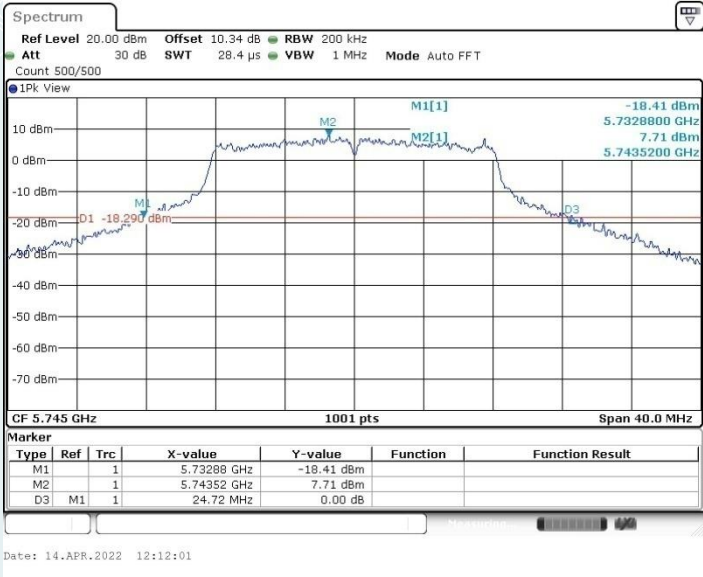
IEEE 802.11a_Ant1_5580 MHz



IEEE 802.11a_Ant1_5700 MHz



IEEE 802.11a_Ant1_5745 MHz



IEEE 802.11a_Ant1_5785 MHz

