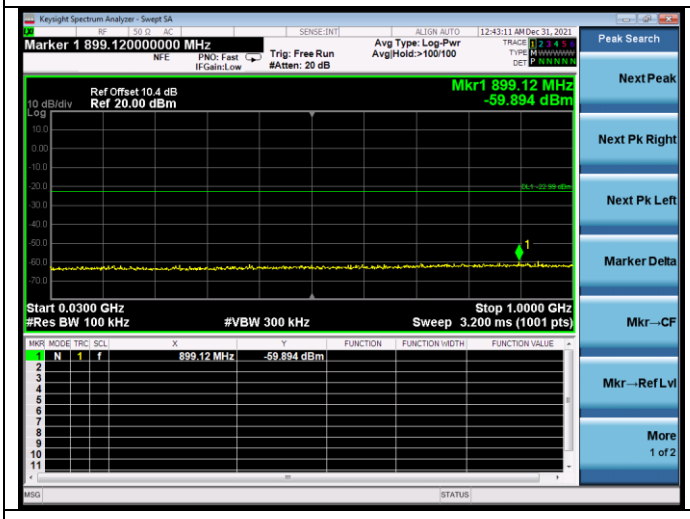
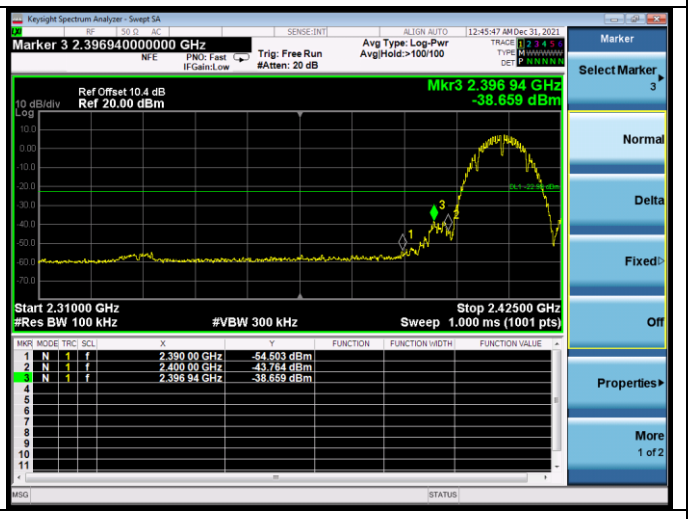
ANT A

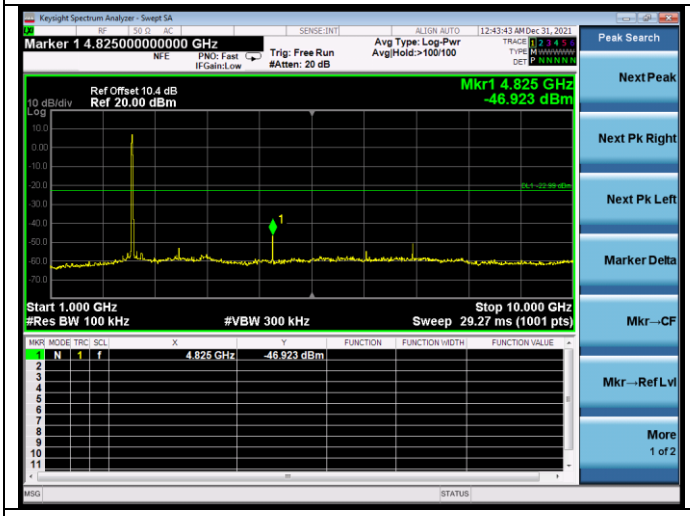
Test Mode: IEEE 802.11b

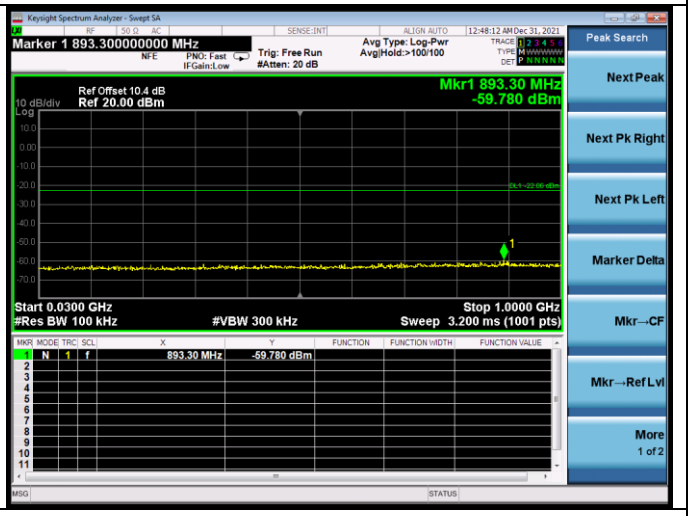
Test CH1: 2412MHz

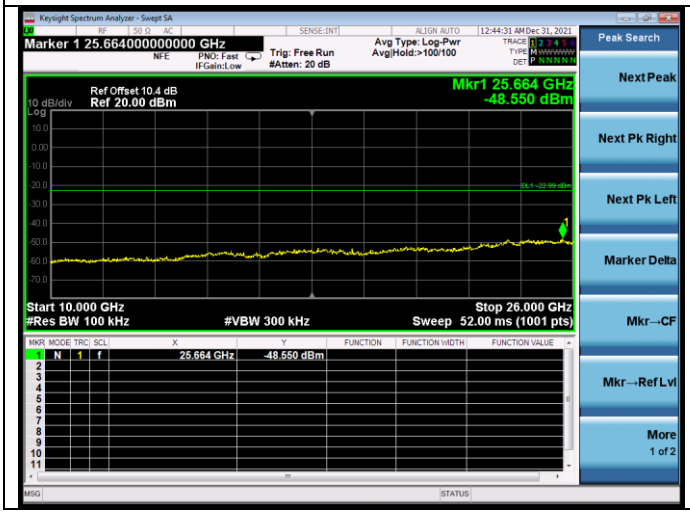


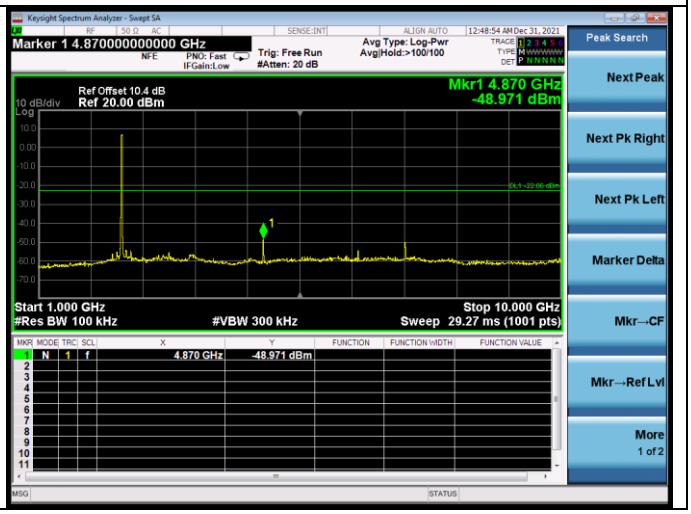


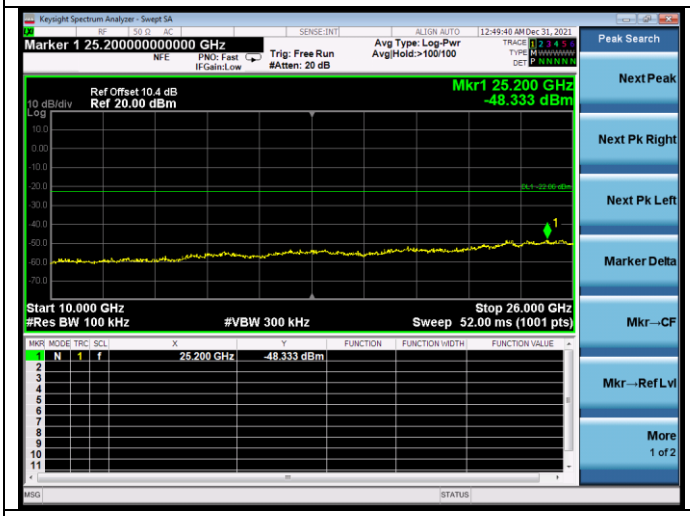
Test CH6: 2437MHz

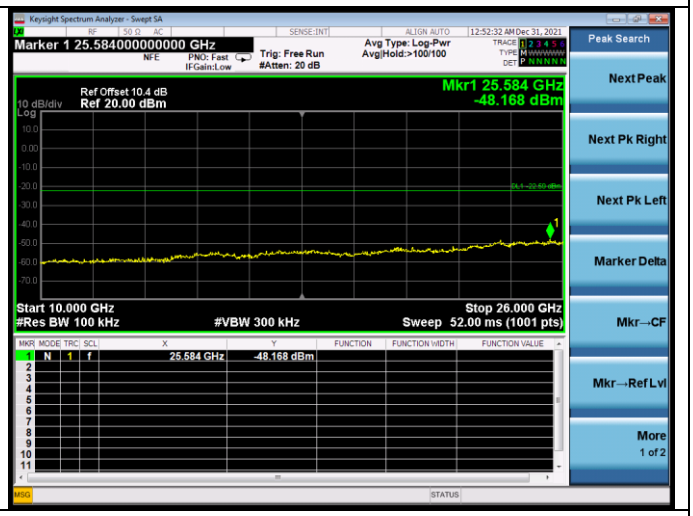




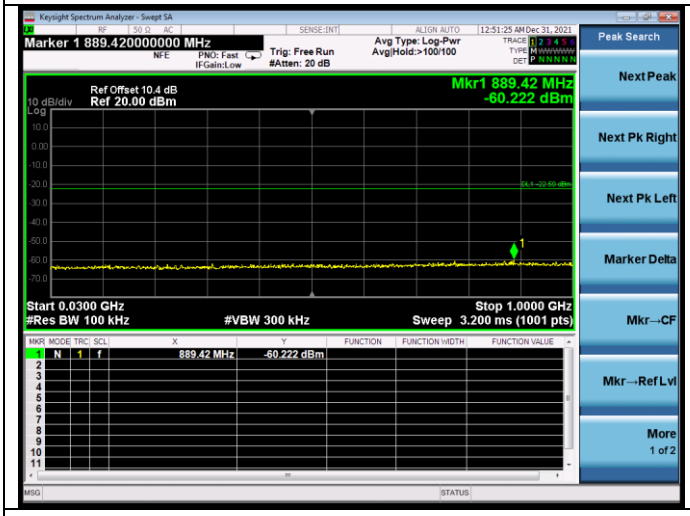




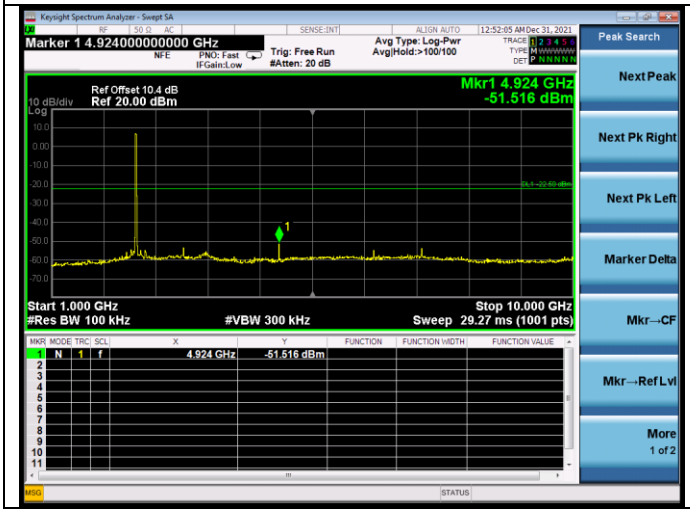


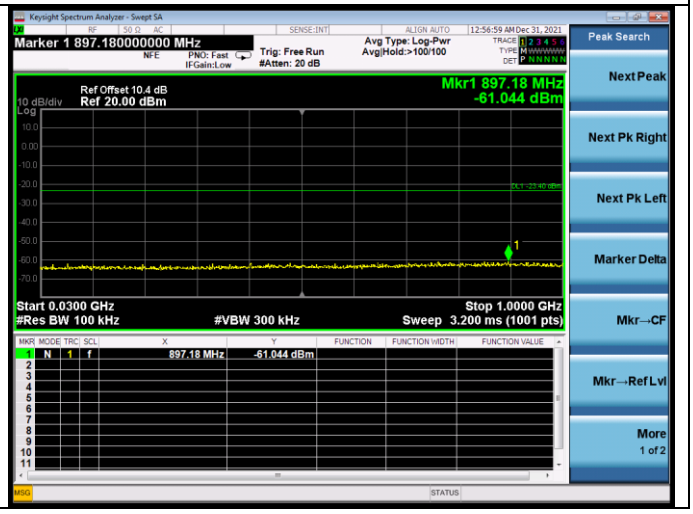


Test CH11: 2462MHz

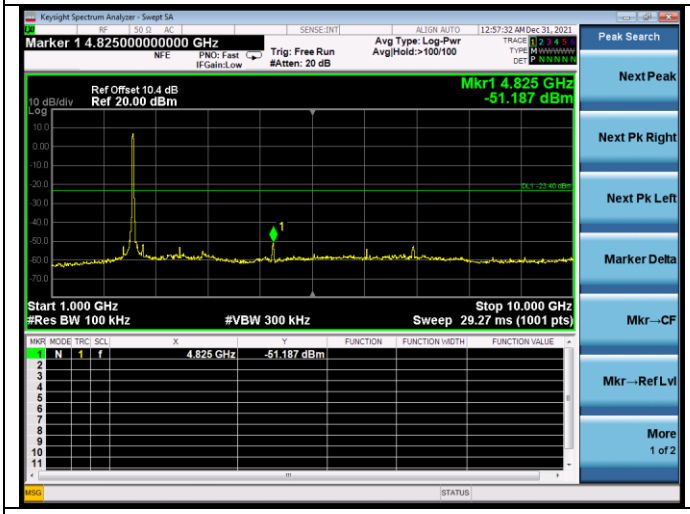


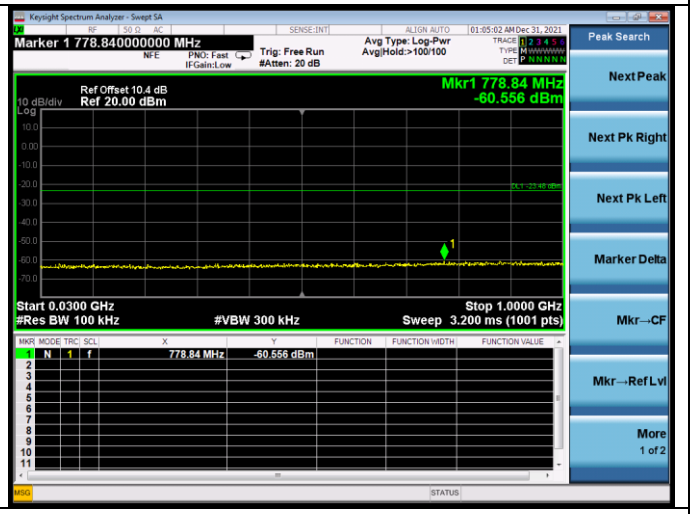
Test Mode: IEEE 802.11g
Test CH1: 2412MHz

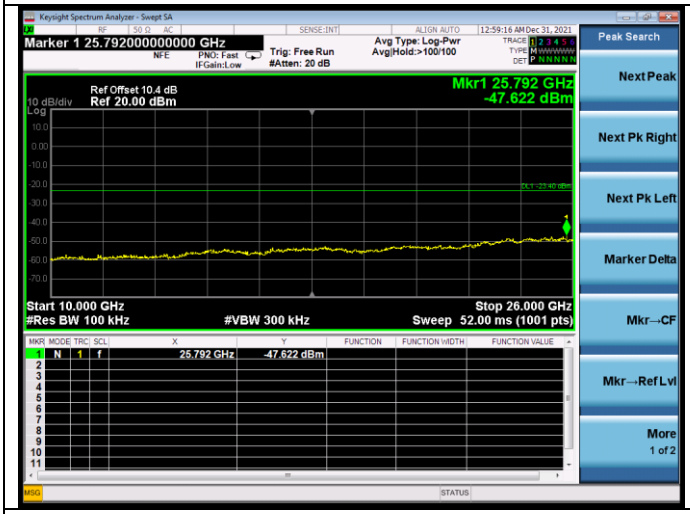


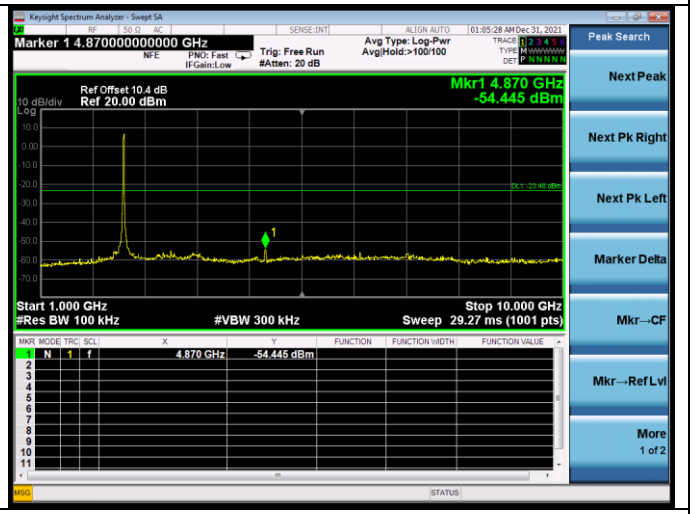


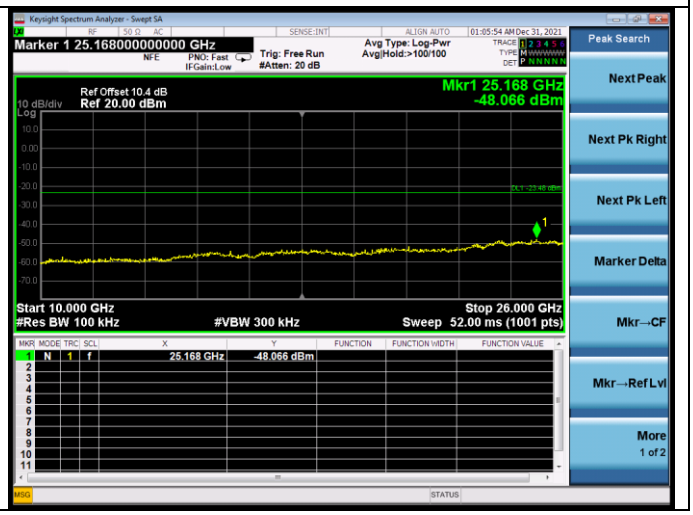
Test CH6: 2437MHz



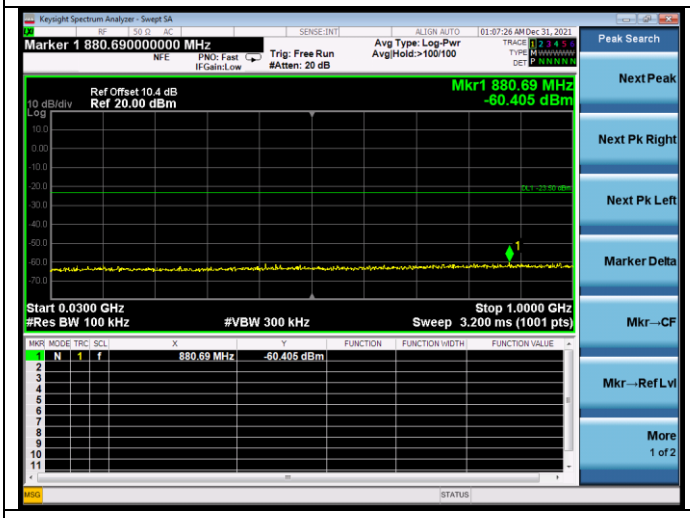




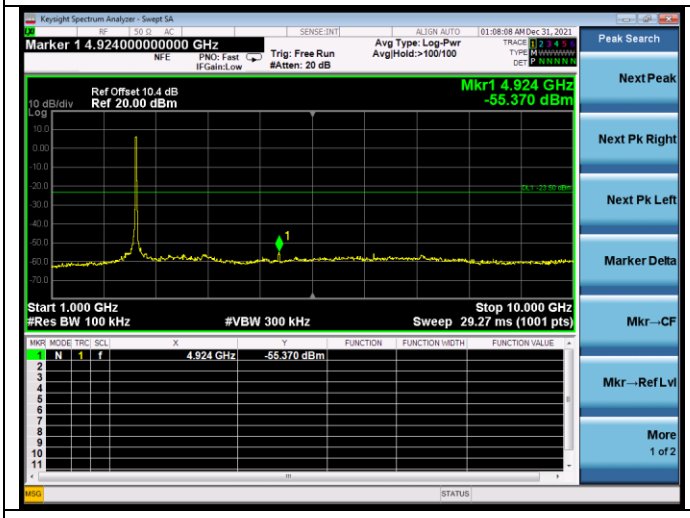


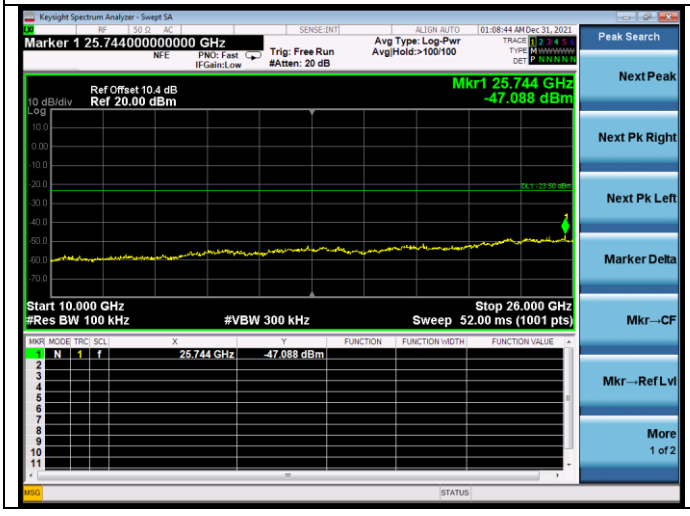


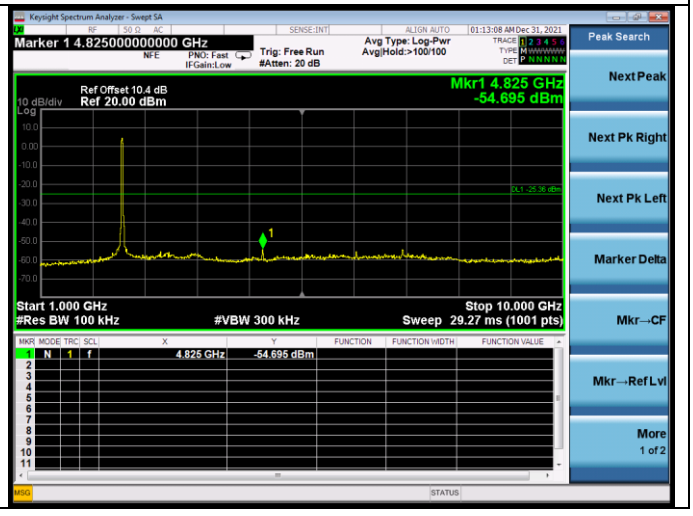
Test CH11: 2462MHz

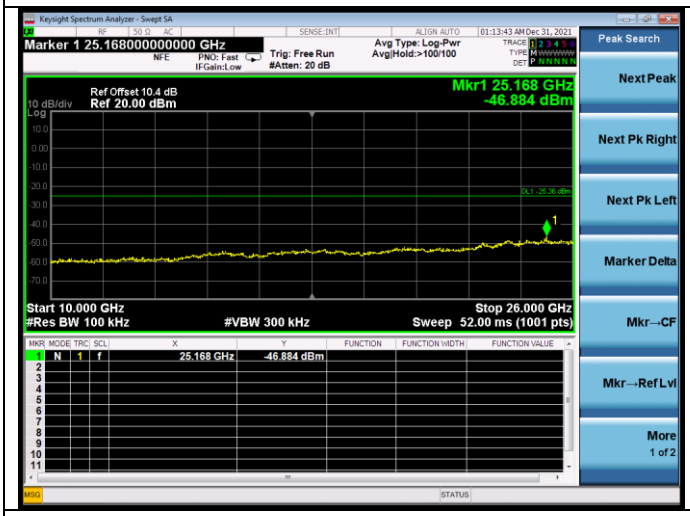


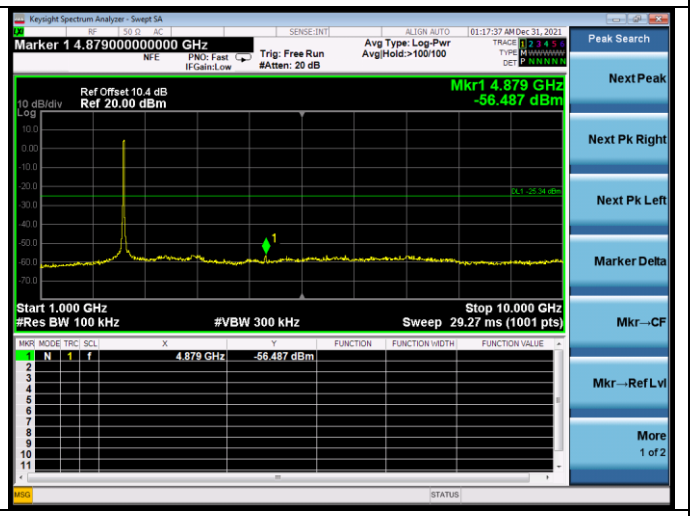
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

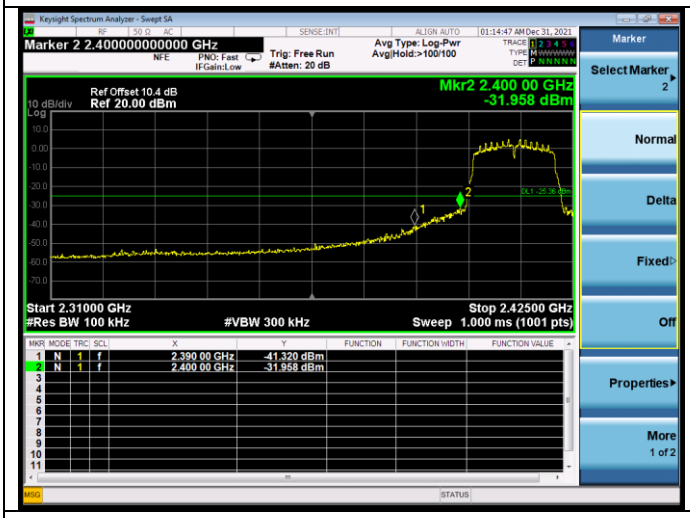






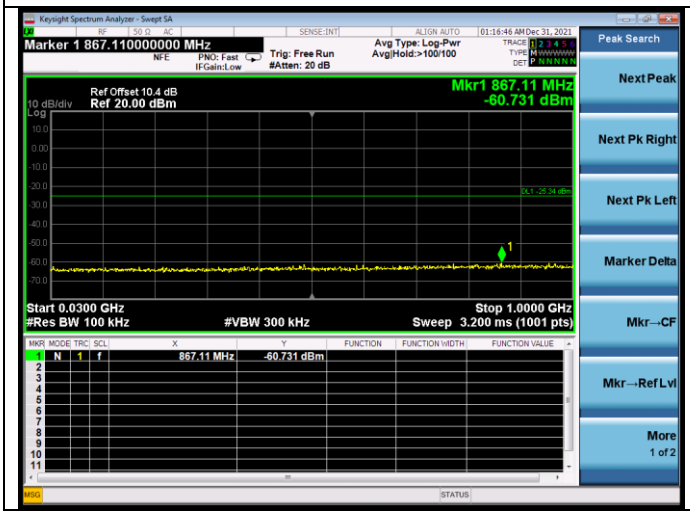


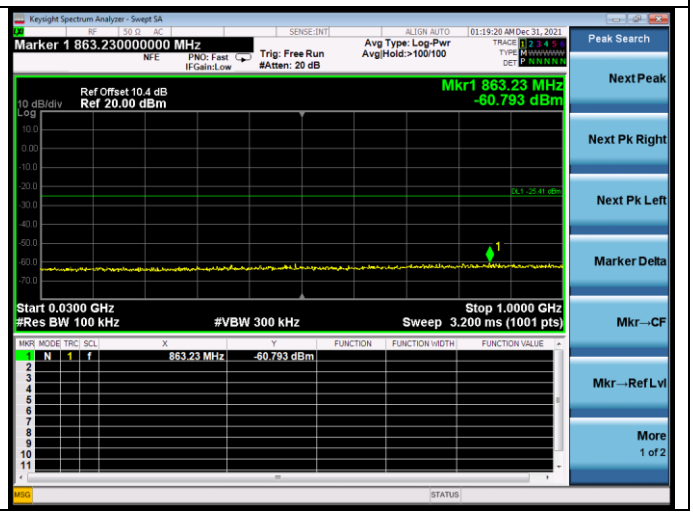


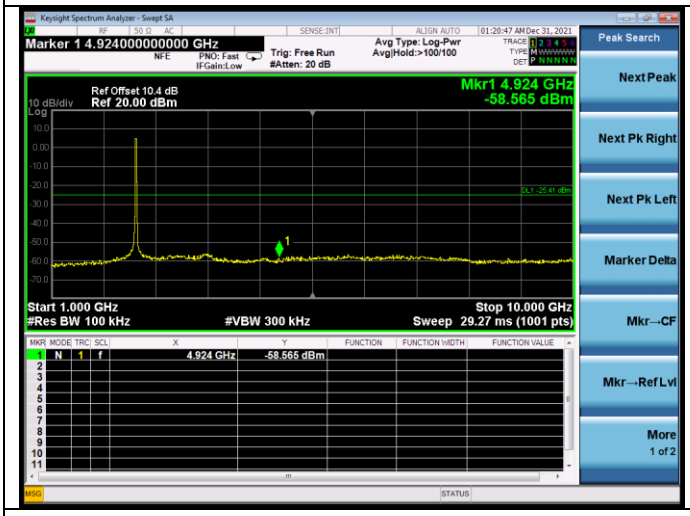
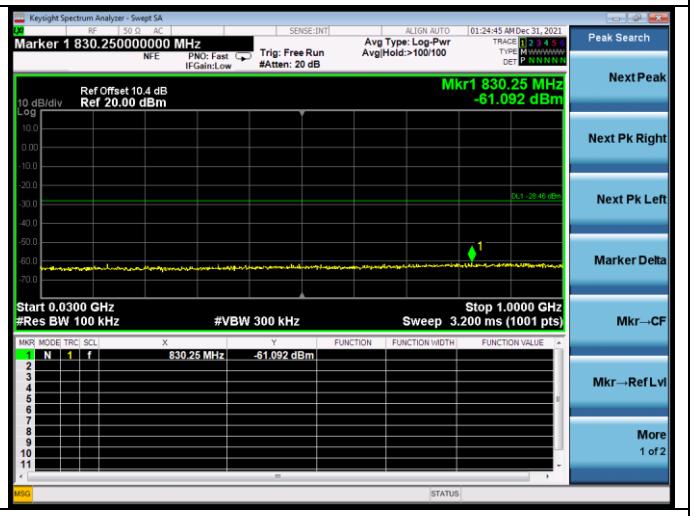
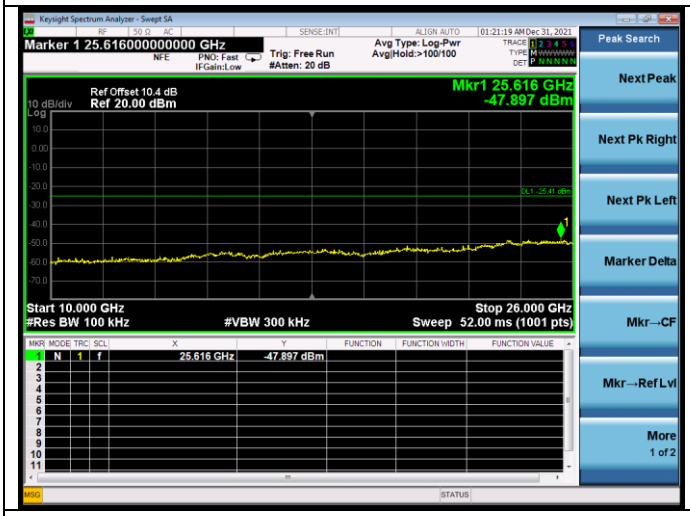
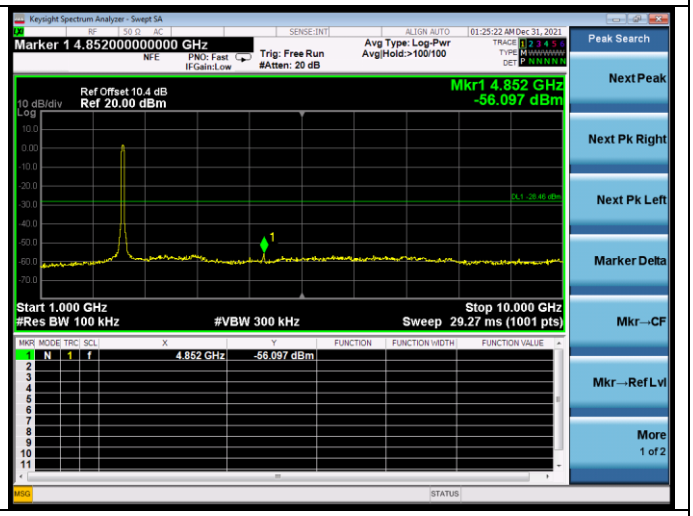


Test CH6: 2437MHz

Test CH11: 2462MHz

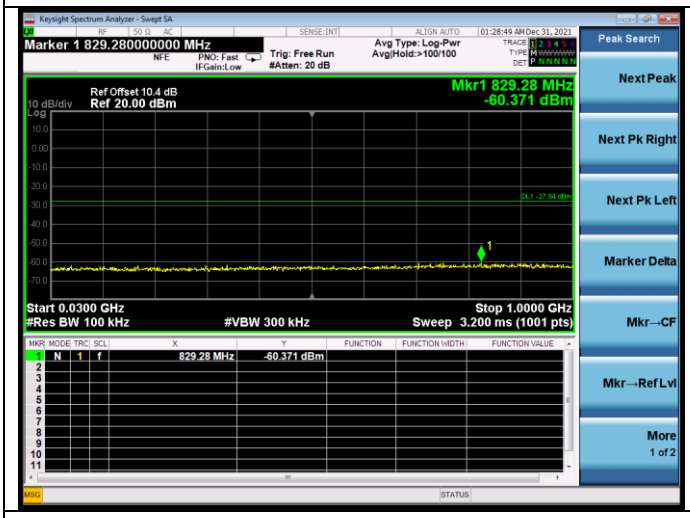


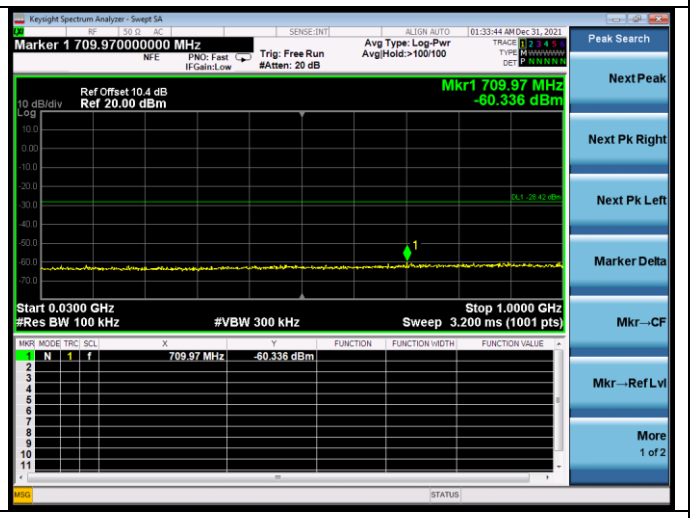


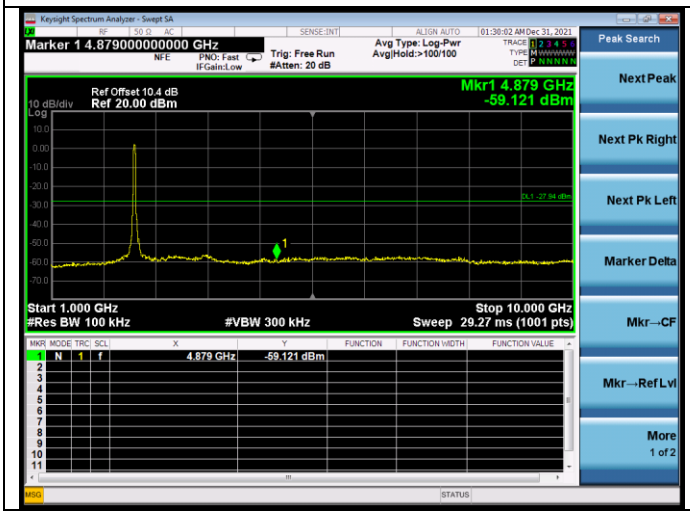
	Test Mode: IEEE 802.11n HT40 Test CH1: 2422MHz
	
	
	

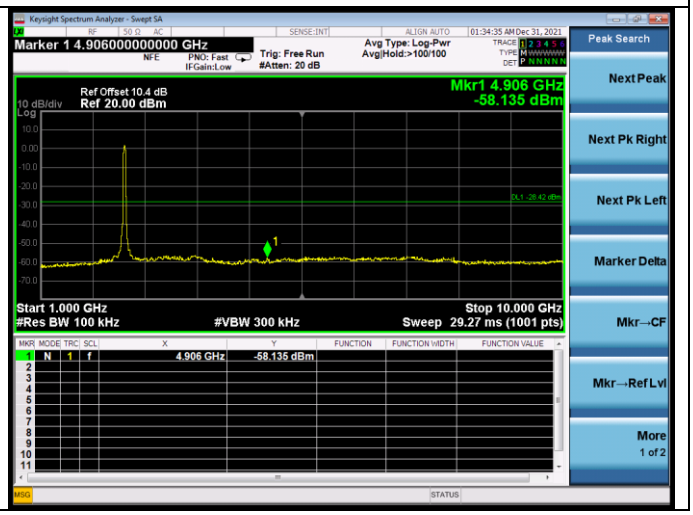
Test CH1: 2437MHz

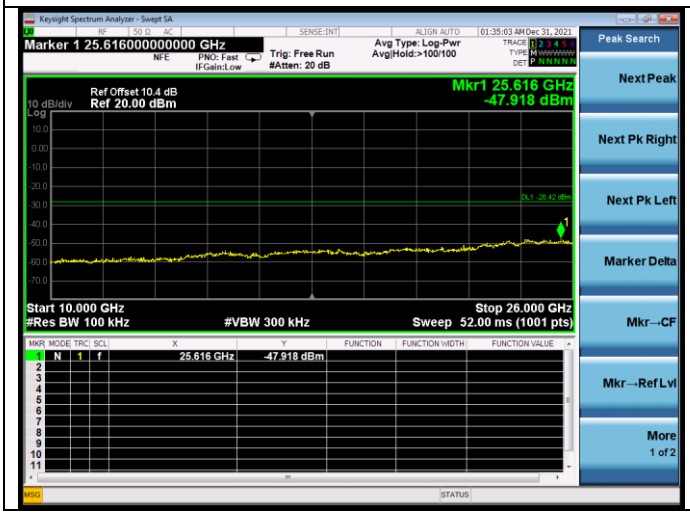
Test CH1: 2452MHz










Keysight Spectrum Analyzer - Swept SA
Marker 1 25.616000000000 GHz
Trig: Free Run
#Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 10.4 dB
10 dB/div
Ref 20.00 dBm
Mkr1 25.616 GHz
-47.918 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.000 GHz
Sweep 52.00 ms (1001 pts)
1 N 1 f 25.616 GHz -47.918 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Keysight Spectrum Analyzer - Swept SA
Marker 3 2.488155000000 GHz
Trig: Free Run
#Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 10.4 dB
10 dB/div
Ref 20.00 dBm
Mkr3 2.488 155 GHz
-40.583 dBm
Start 2.42500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.51000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 2.483 500 GHz -44.500 dBm
2 N 1 f 2.500 000 GHz -50.484 dBm
3 N 1 f 2.488 155 GHz -40.583 dBm
Marker
Select Marker
3
Normal
Delta
Fixed
Off
Properties
More
1 of 2

6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.07,21	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.26,21	1 Year
4.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.07,21	1 Year

6.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3.Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

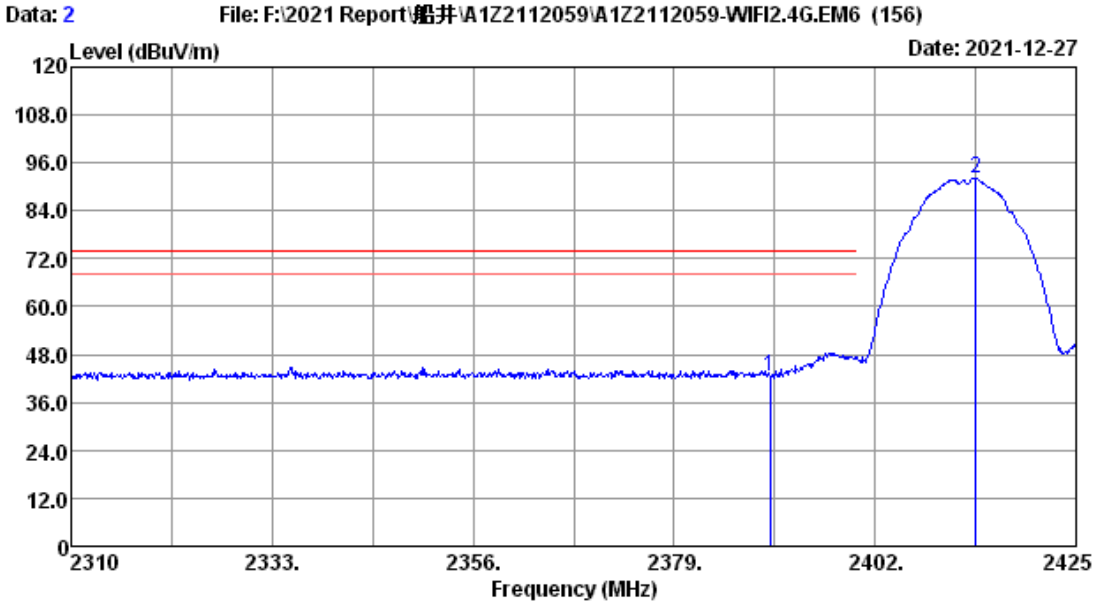
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

(a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4.Test Results

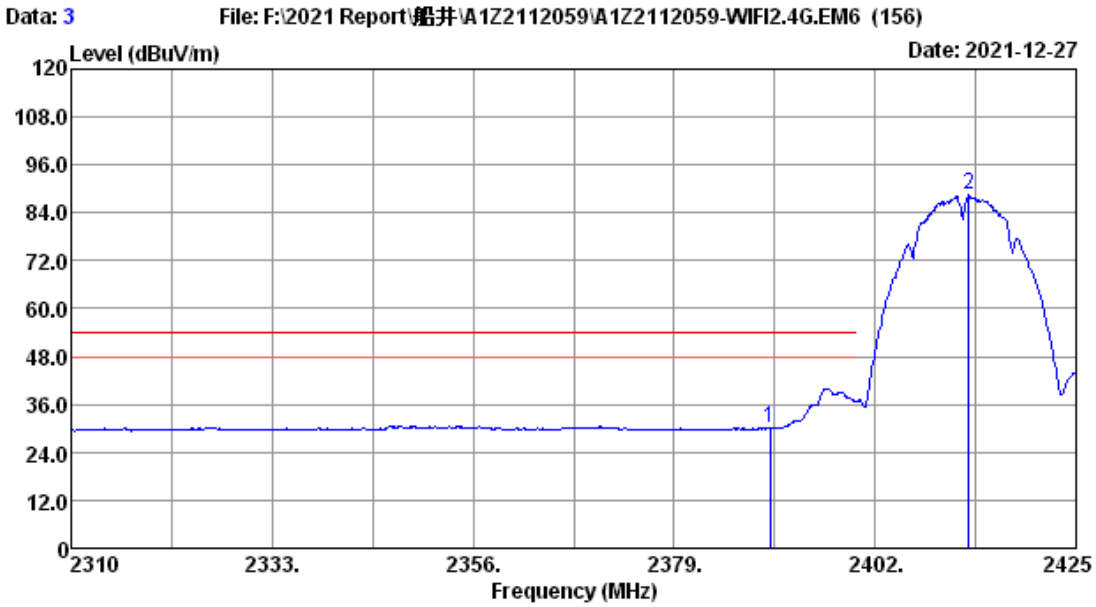
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	46.42	35.24	42.72	74.00	31.28	Peak
2	2413.50	27.93	3.66	95.68	35.24	92.03	------	------	Peak

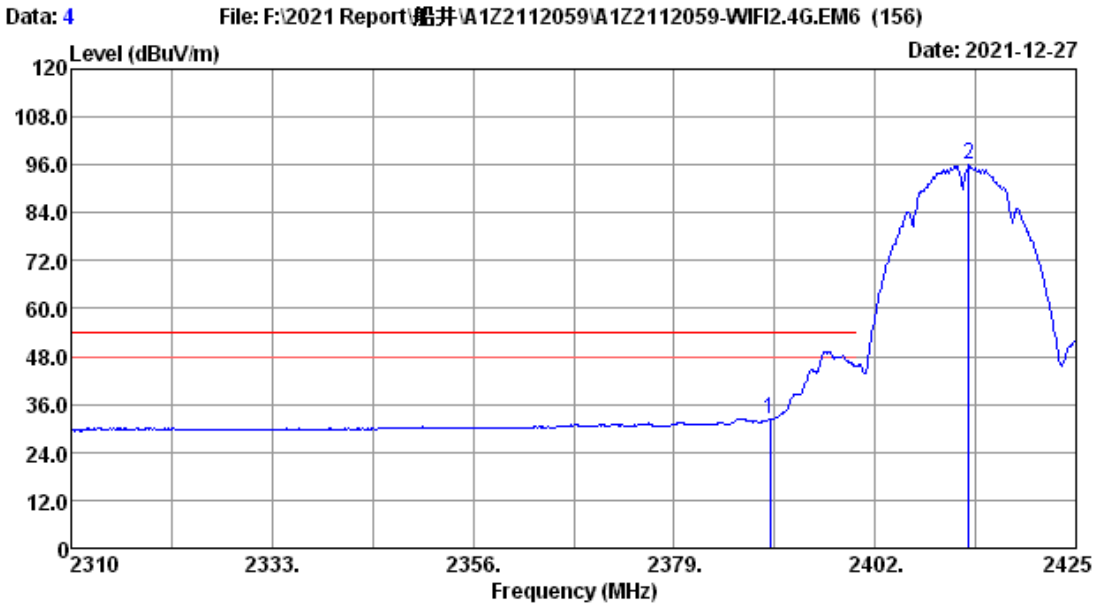
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	33.60	35.24	29.90	54.00	24.10	Average
2	2412.70	27.93	3.66	92.14	35.24	88.49	------	------	Average

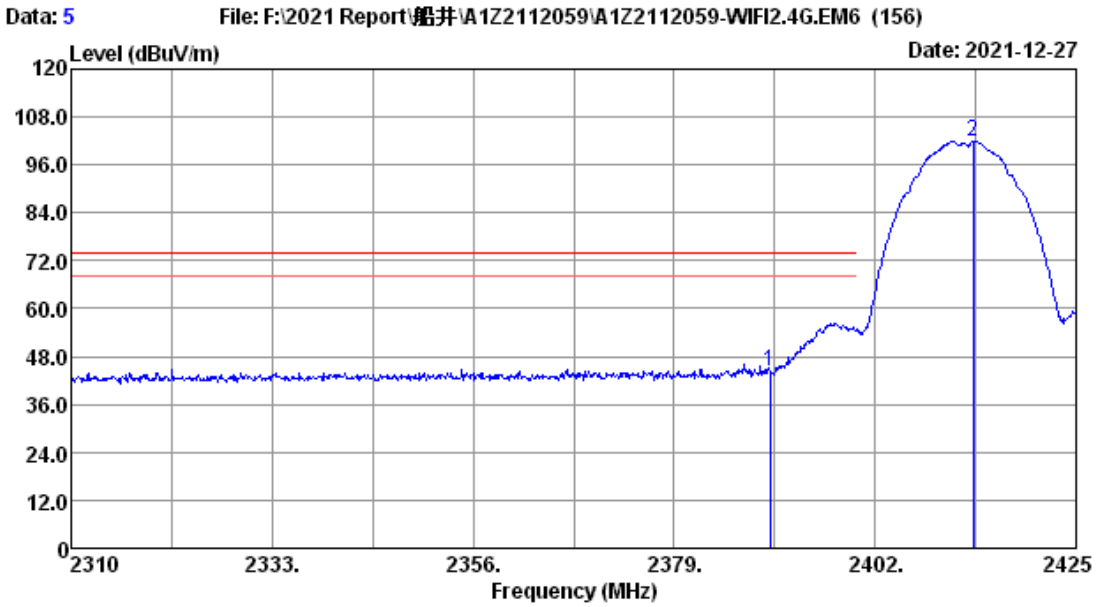
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	35.91	35.24	32.21	54.00	21.79	Average
2	2412.70	27.93	3.66	99.63	35.24	95.98	------	------	Average

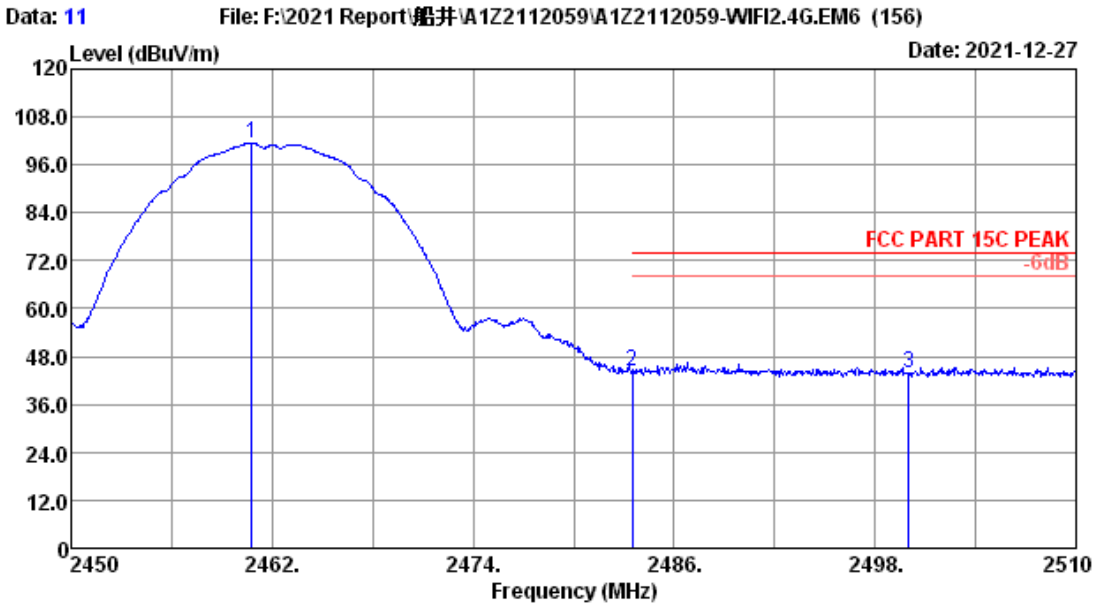
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	47.88	35.24	44.18	74.00	29.82	Peak
2	2413.27	27.93	3.66	105.51	35.24	101.86	------	------	Peak

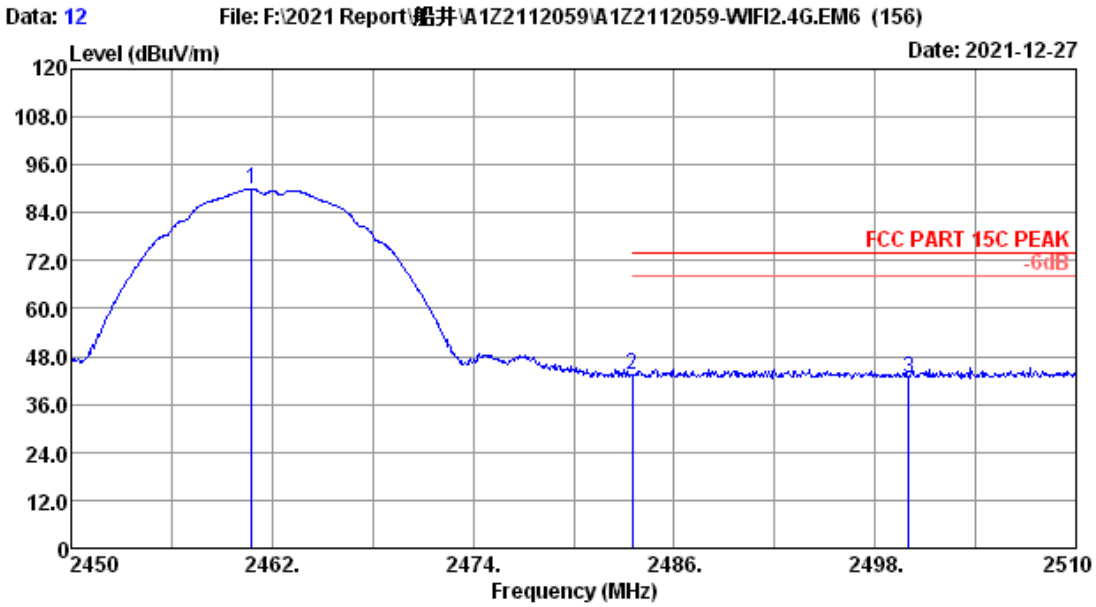
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.80	28.03	3.70	104.88	35.25	101.36	------	------	Peak
2	2483.50	28.07	3.71	47.67	35.25	44.20	74.00	29.80	Peak
3	2500.00	28.10	3.72	47.31	35.25	43.88	74.00	30.12	Peak

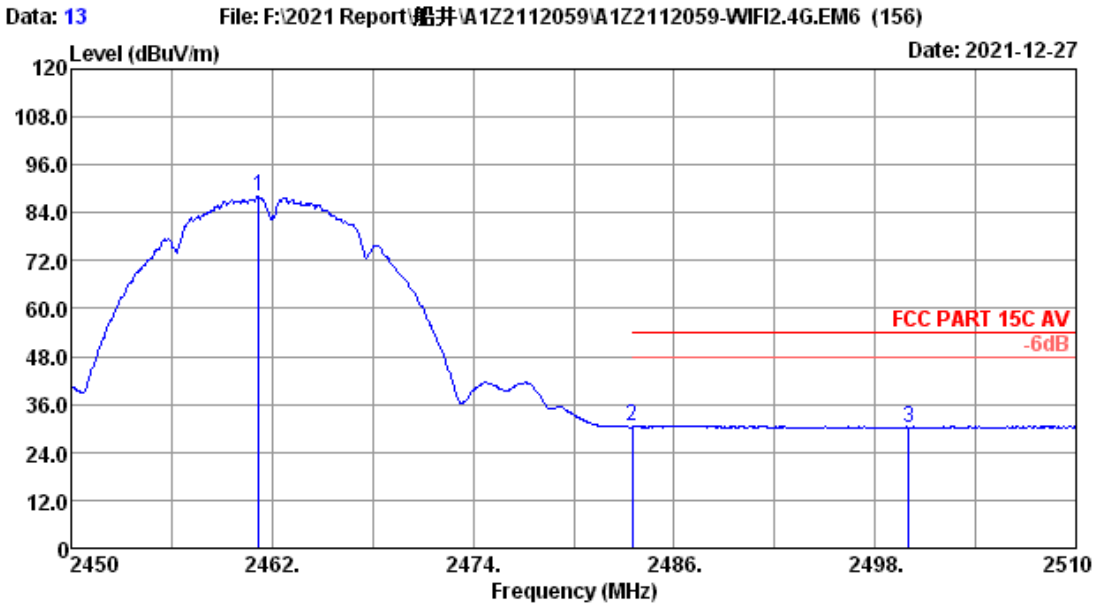
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.80	28.03	3.70	93.42	35.25	89.90	------	------	Peak
2	2483.50	28.07	3.71	46.87	35.25	43.40	74.00	30.60	Peak
3	2500.00	28.10	3.72	45.89	35.25	42.46	74.00	31.54	Peak

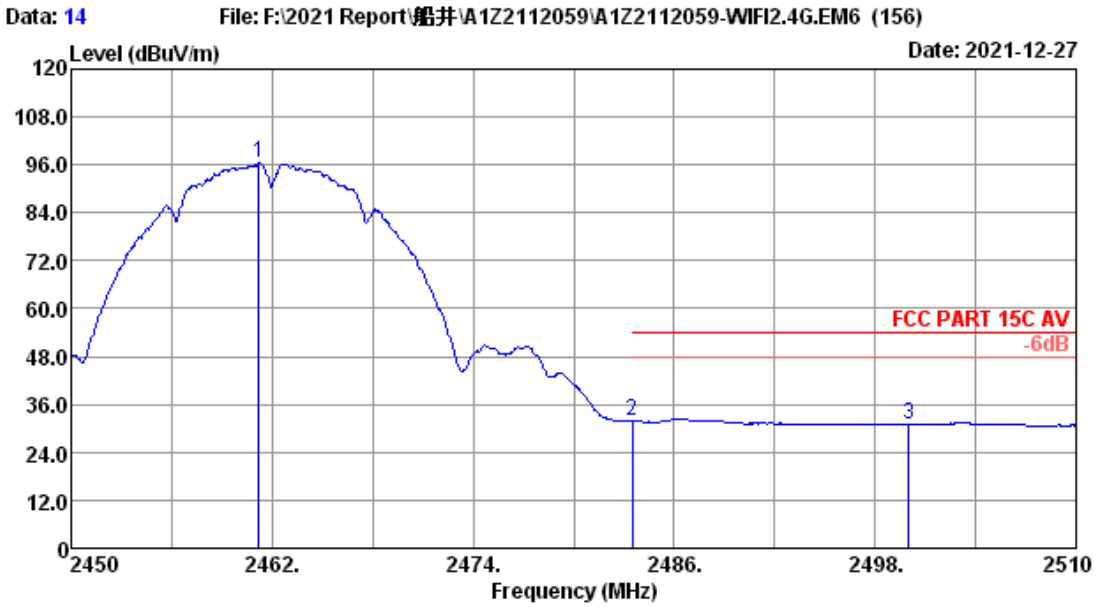
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	28.03	3.70	91.68	35.25	88.16	------	------	Average
2	2483.50	28.07	3.71	33.86	35.25	30.39	54.00	23.61	Average
3	2500.00	28.10	3.72	33.71	35.25	30.28	54.00	23.72	Average

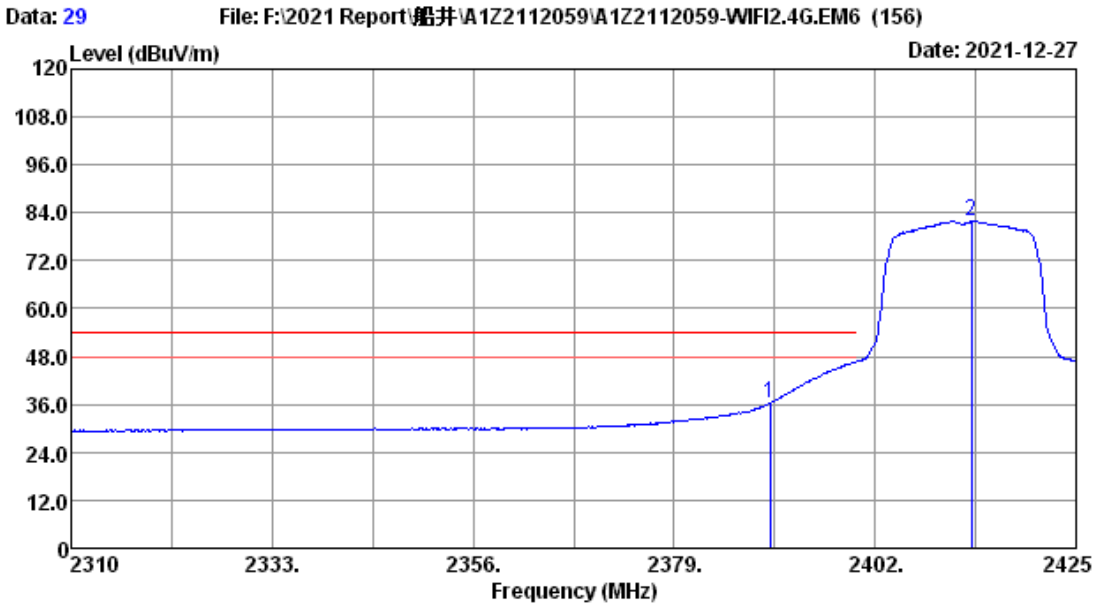
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11b 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	28.03	3.70	99.92	35.25	96.40	------	------	Average
2	2483.50	28.07	3.71	35.34	35.25	31.87	54.00	22.13	Average
3	2500.00	28.10	3.72	34.39	35.25	30.96	54.00	23.04	Average

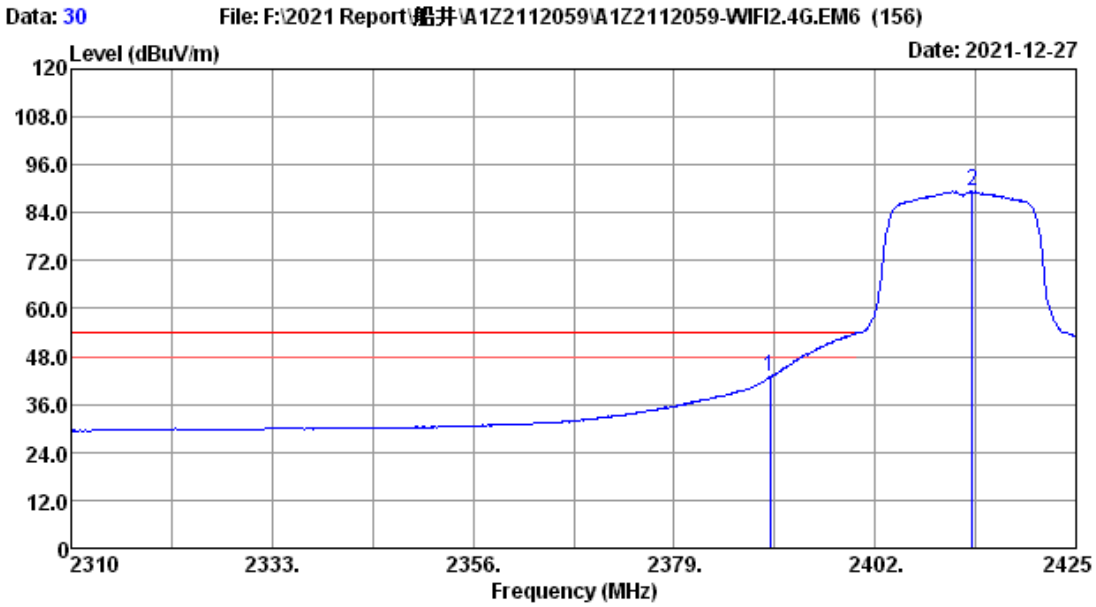
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	40.09	35.24	36.39	54.00	17.61	Average
2	2413.04	27.93	3.66	85.60	35.24	81.95	------	------	Average

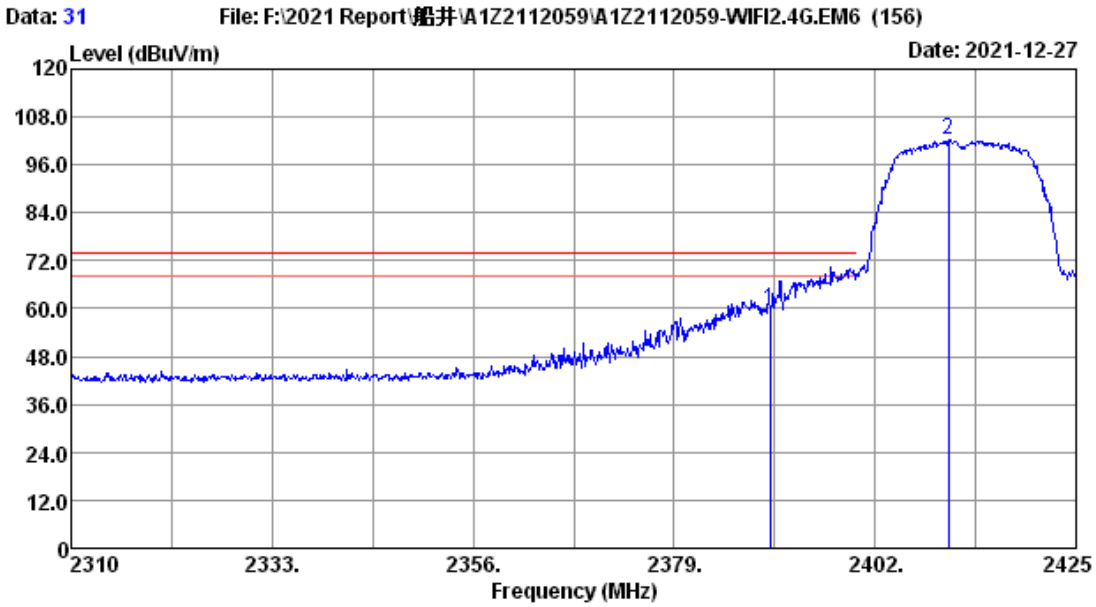
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	46.44	35.24	42.74	54.00	11.26	Average
2	2413.16	27.93	3.66	93.02	35.24	89.37	------	------	Average

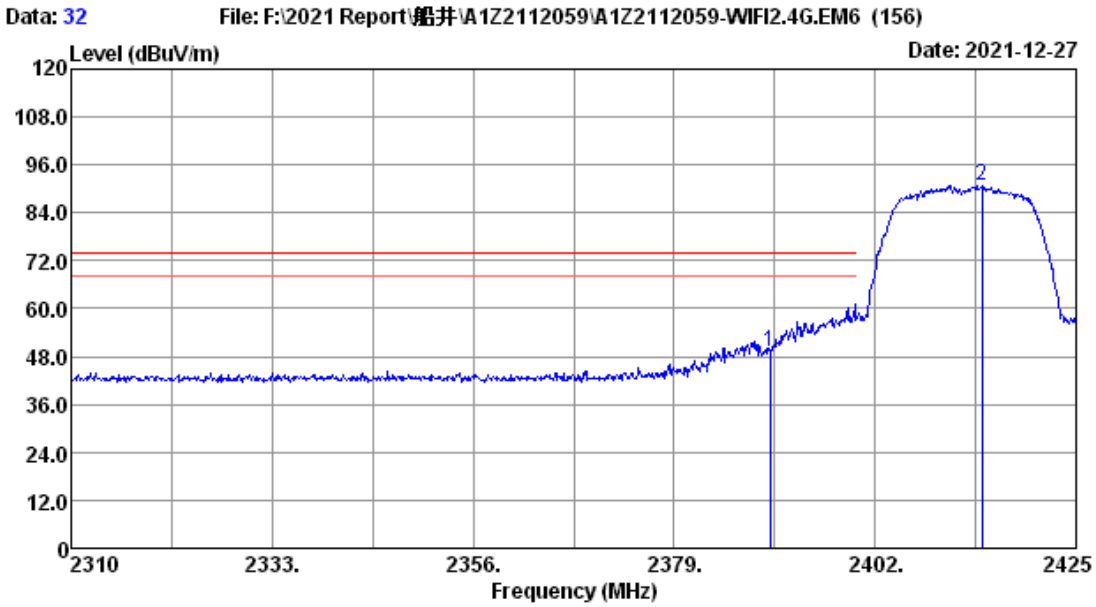
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	63.58	35.24	59.88	74.00	14.12	Peak
2	2410.40	27.93	3.66	105.86	35.24	102.21	------	------	Peak

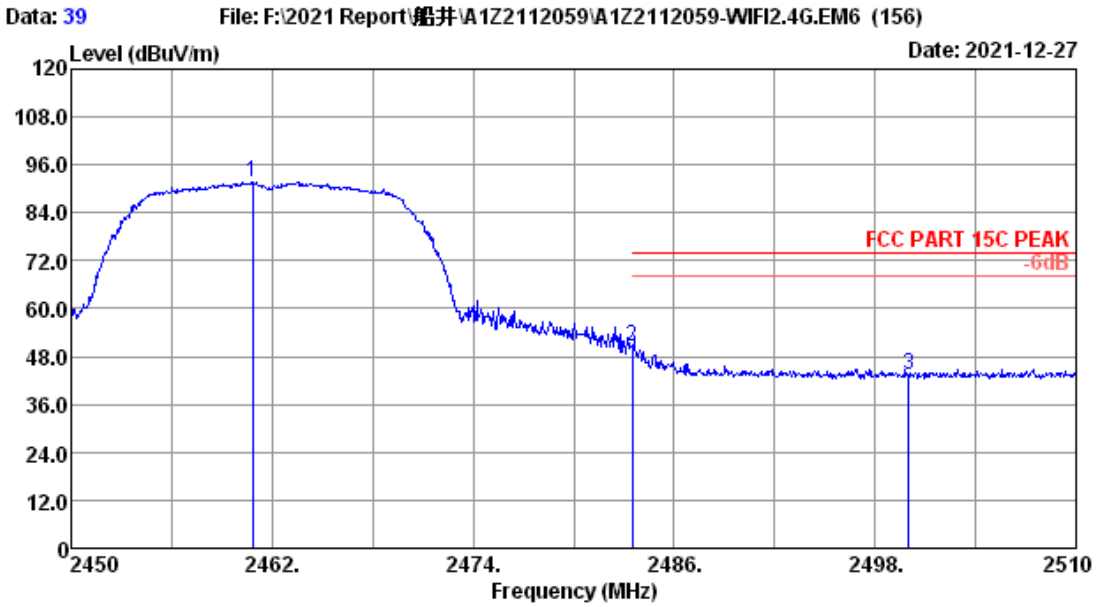
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	52.77	35.24	49.07	74.00	24.93	Peak
2	2414.19	27.93	3.66	94.28	35.24	90.63	------	------	Peak

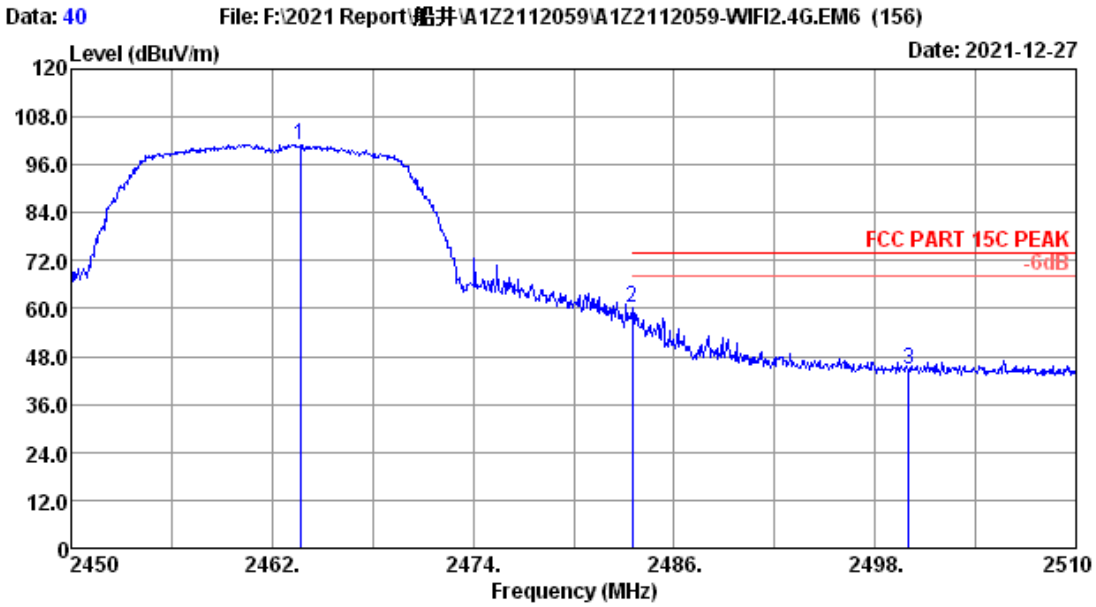
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	28.03	3.70	95.35	35.25	91.83	------	------	Peak
2	2483.50	28.07	3.71	53.82	35.25	50.35	74.00	23.65	Peak
3	2500.00	28.10	3.72	46.74	35.25	43.31	74.00	30.69	Peak

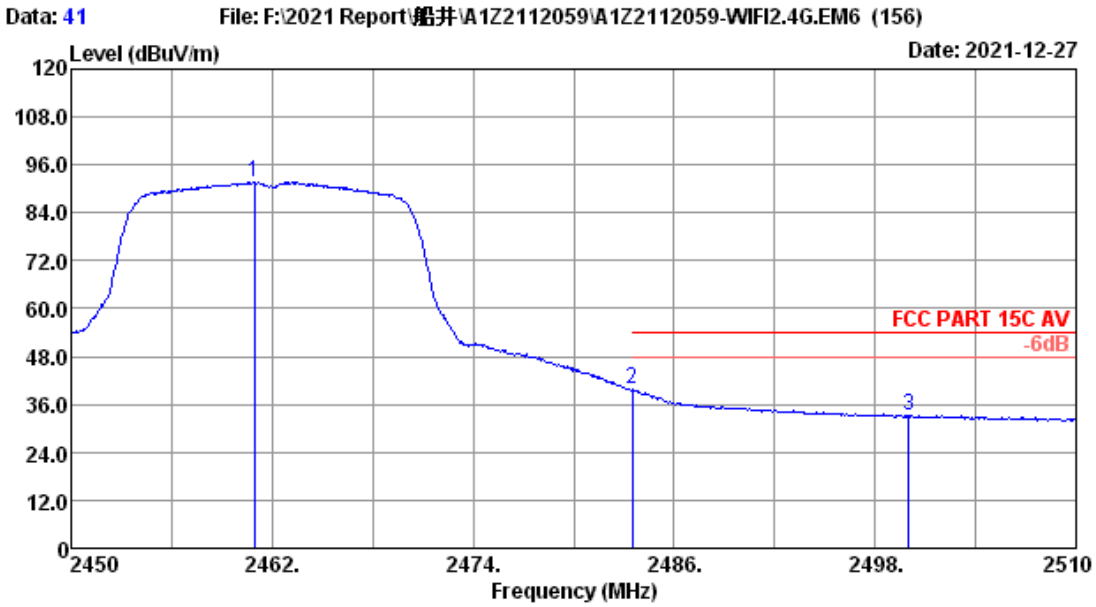
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.68	28.03	3.70	104.58	35.25	101.06	------	------	Peak
2	2483.50	28.07	3.71	63.78	35.25	60.31	74.00	13.69	Peak
3	2500.00	28.10	3.72	48.19	35.25	44.76	74.00	29.24	Peak

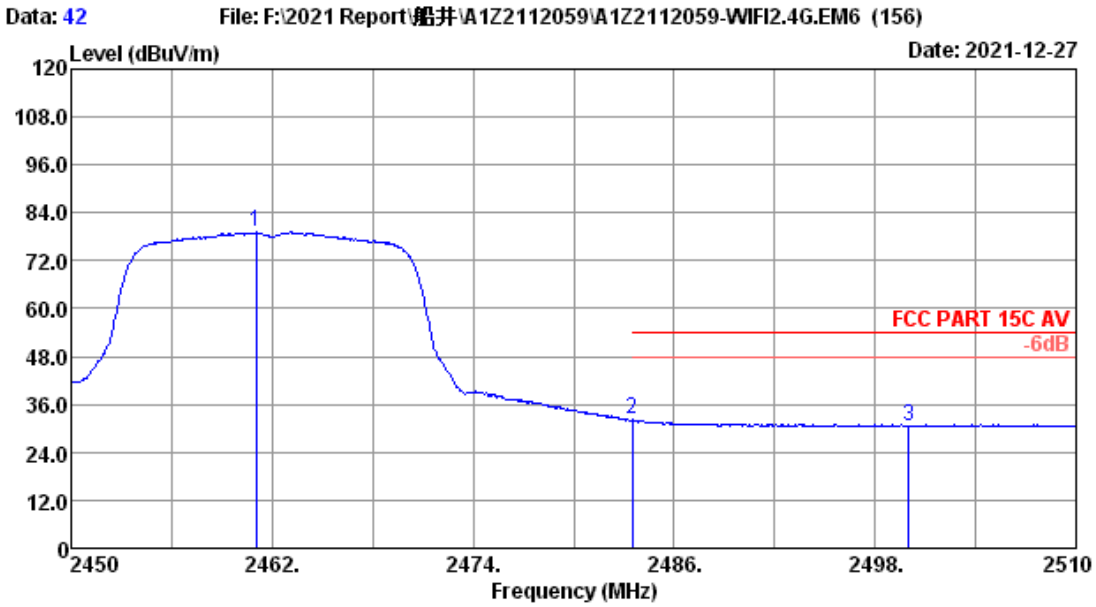
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.92	28.03	3.70	95.22	35.25	91.70	------	------	Average
2	2483.50	28.07	3.71	43.14	35.25	39.67	54.00	14.33	Average
3	2500.00	28.10	3.72	36.56	35.25	33.13	54.00	20.87	Average

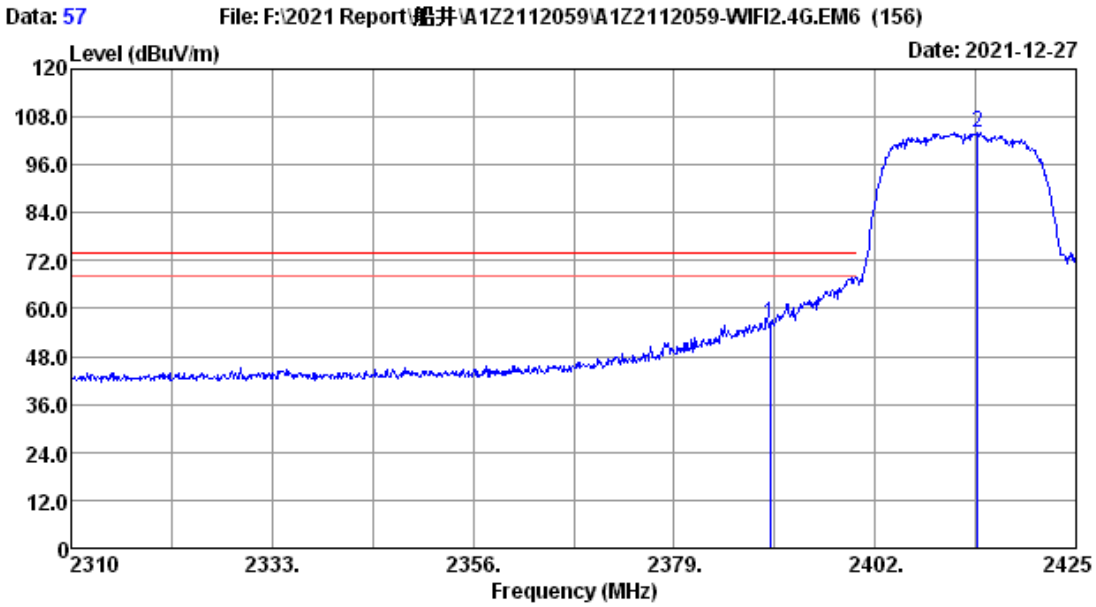
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11g 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.04	28.03	3.70	82.65	35.25	79.13	------	------	Average
2	2483.50	28.07	3.71	35.57	35.25	32.10	54.00	21.90	Average
3	2500.00	28.10	3.72	33.95	35.25	30.52	54.00	23.48	Average

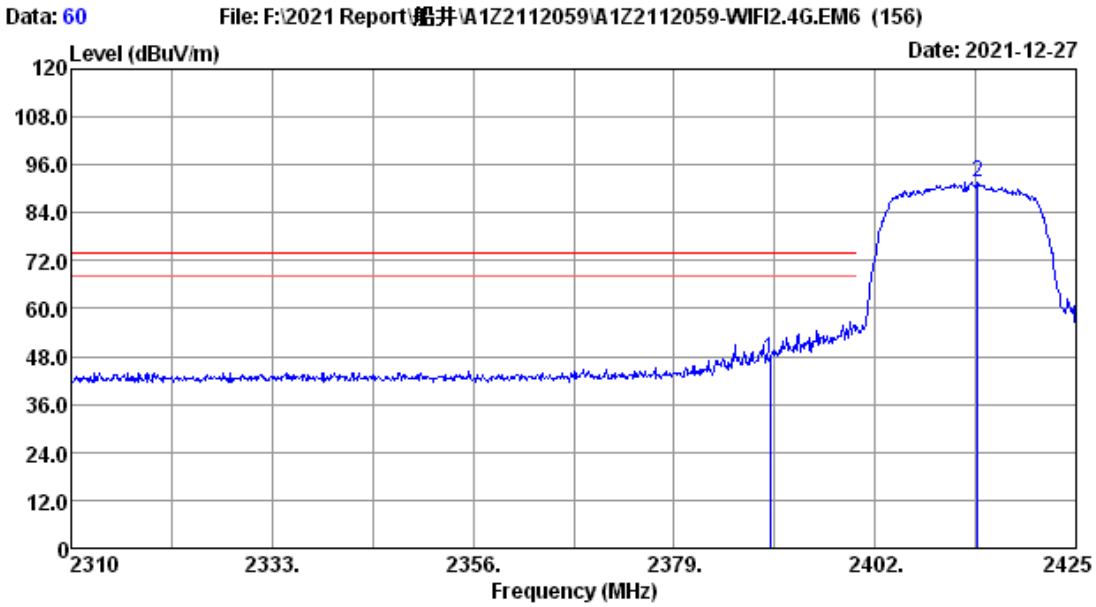
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	60.06	35.24	56.36	74.00	17.64	Peak
2	2413.73	27.93	3.66	107.78	35.24	104.13	------	------	Peak

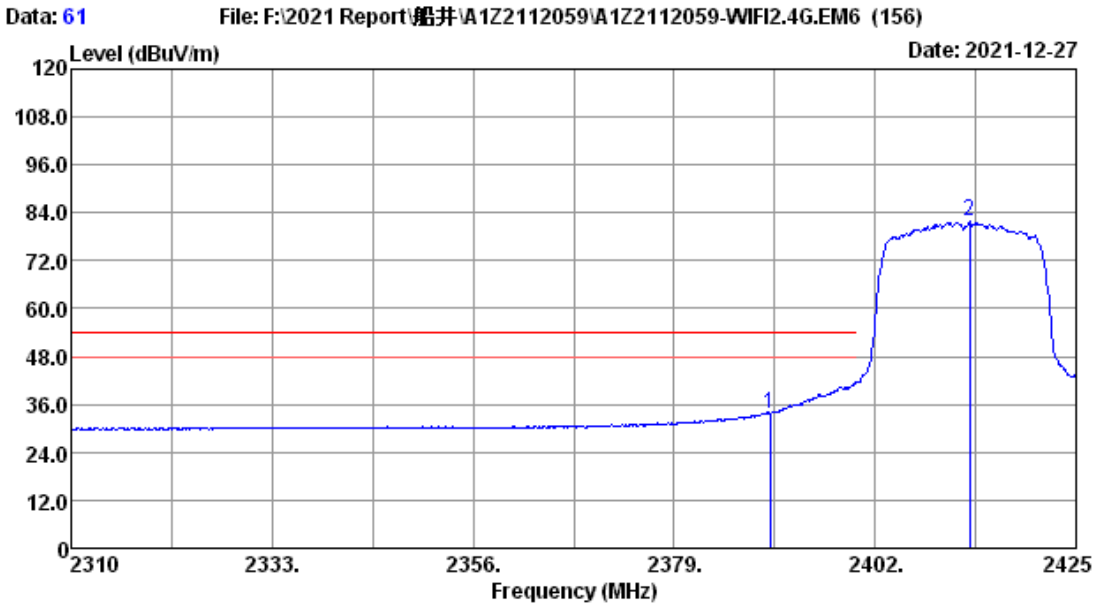
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	51.03	35.24	47.33	74.00	26.67	Peak
2	2413.73	27.93	3.66	95.45	35.24	91.80	------	------	Peak

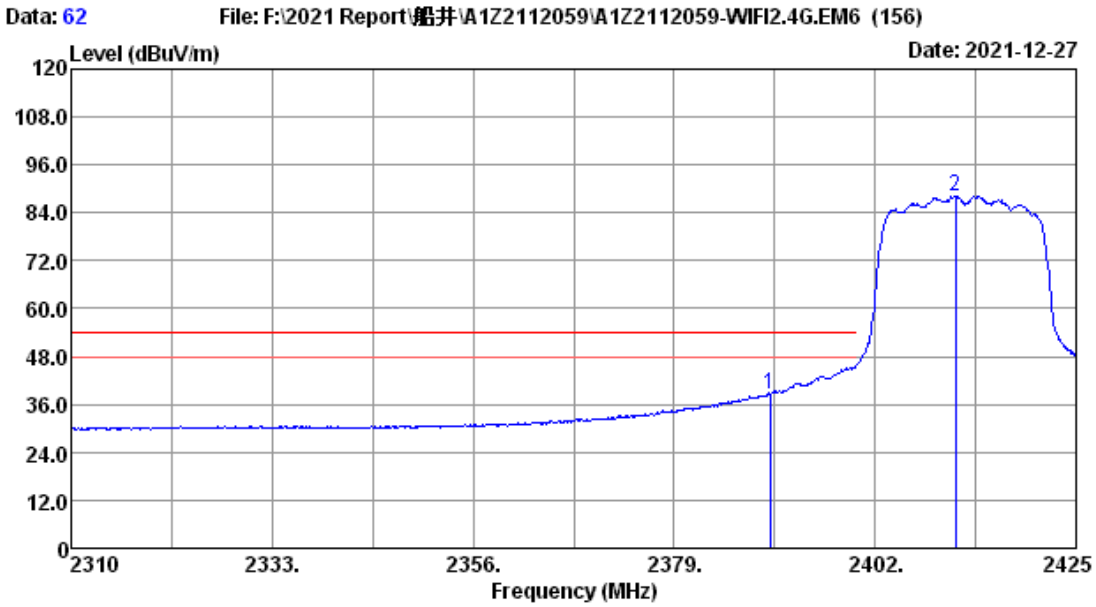
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	37.42	35.24	33.72	54.00	20.28	Average
2	2412.81	27.93	3.66	85.66	35.24	82.01	------	------	Average

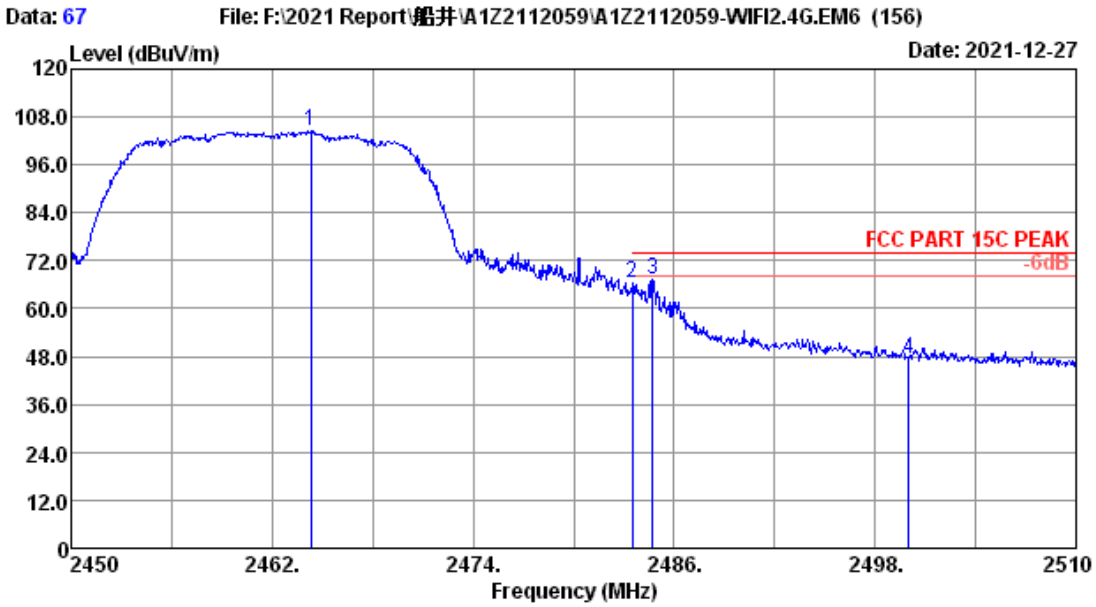
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2412MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	42.37	35.24	38.67	54.00	15.33	Average
2	2411.20	27.93	3.66	91.94	35.24	88.29	------	------	Average

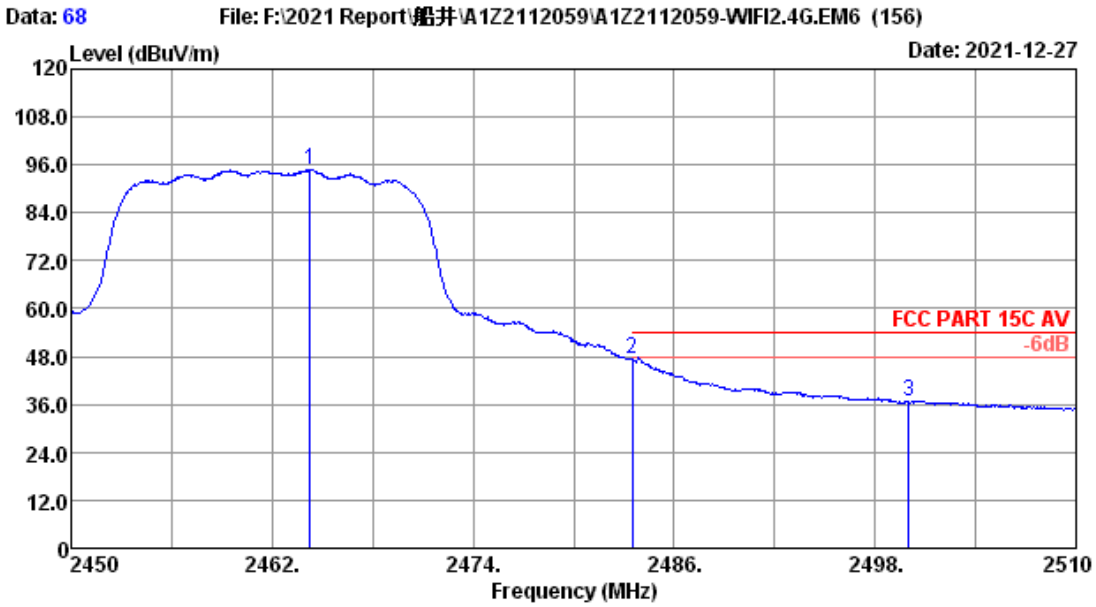
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.34	28.03	3.70	108.15	35.25	104.63	------	------	Peak
2	2483.50	28.07	3.71	69.93	35.25	66.46	74.00	7.54	Peak
3	2484.74	28.07	3.71	70.83	35.25	67.36	74.00	6.64	Peak
4	2500.00	28.10	3.72	50.80	35.25	47.37	74.00	26.63	Peak

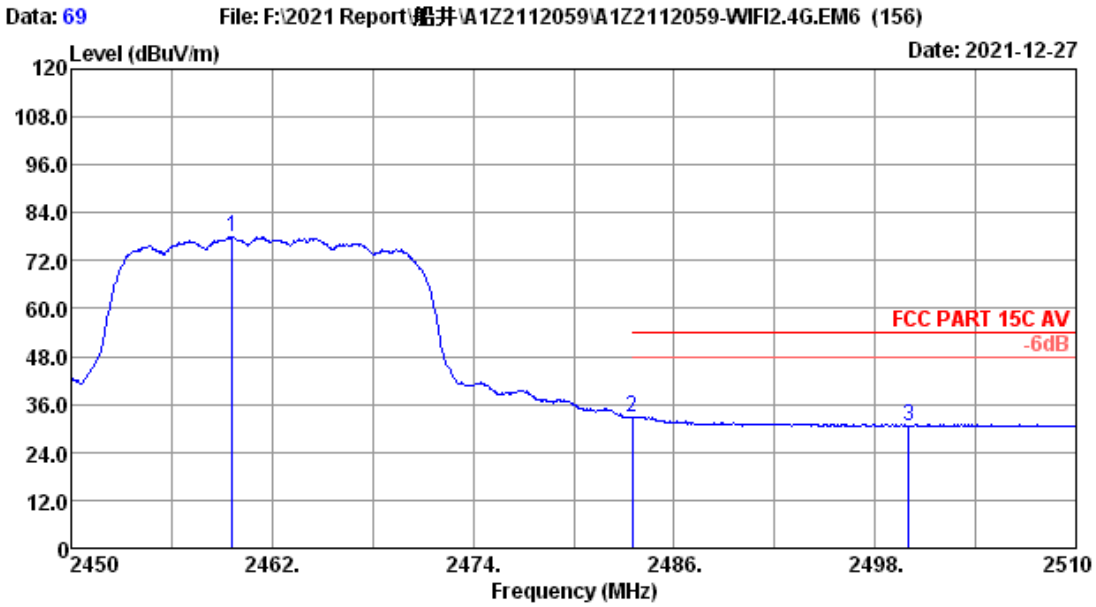
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.28	28.03	3.70	98.42	35.25	94.90	------	------	Average
2	2483.50	28.07	3.71	50.71	35.25	47.24	54.00	6.76	Average
3	2500.00	28.10	3.72	39.97	35.25	36.54	54.00	17.46	Average

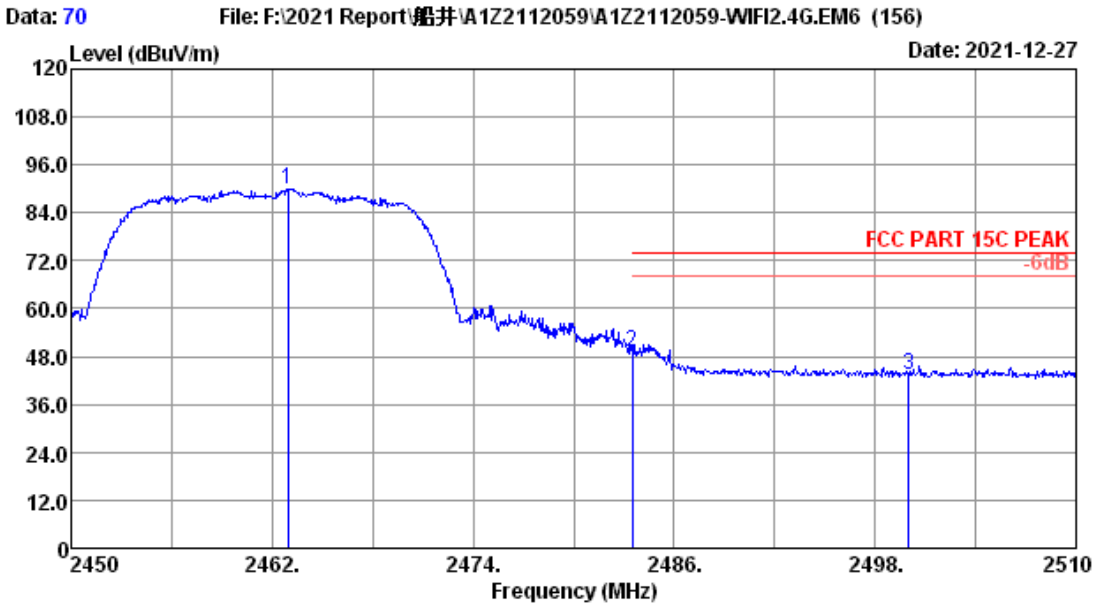
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.60	28.03	3.70	81.60	35.25	78.08	------	------	Average
2	2483.50	28.07	3.71	36.18	35.25	32.71	54.00	21.29	Average
3	2500.00	28.10	3.72	34.11	35.25	30.68	54.00	23.32	Average

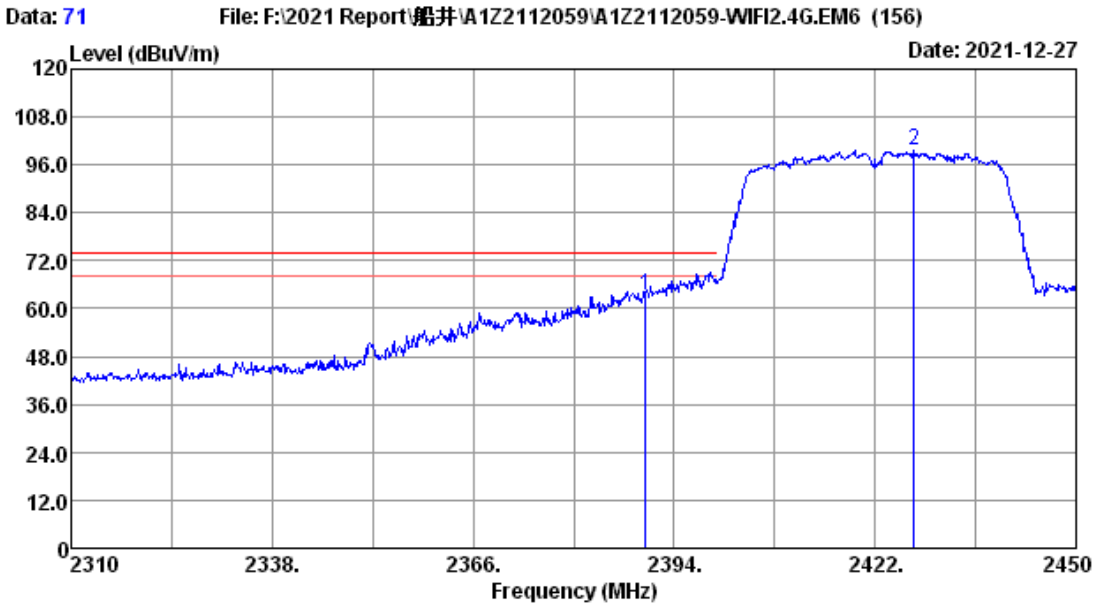
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 70
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n20 2462MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.96	28.03	3.70	93.56	35.25	90.04	------	------	Peak
2	2483.50	28.07	3.71	52.79	35.25	49.32	74.00	24.68	Peak
3	2500.00	28.10	3.72	47.01	35.25	43.58	74.00	30.42	Peak

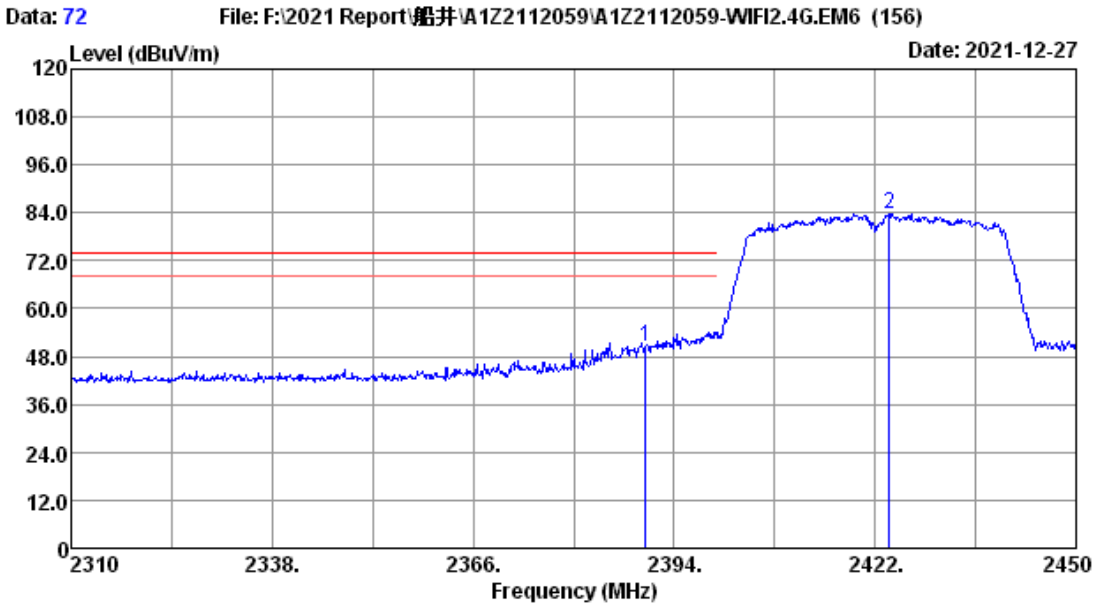
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	67.17	35.24	63.47	74.00	10.53	Peak
2	2427.46	27.96	3.67	103.34	35.24	99.73	------	------	Peak

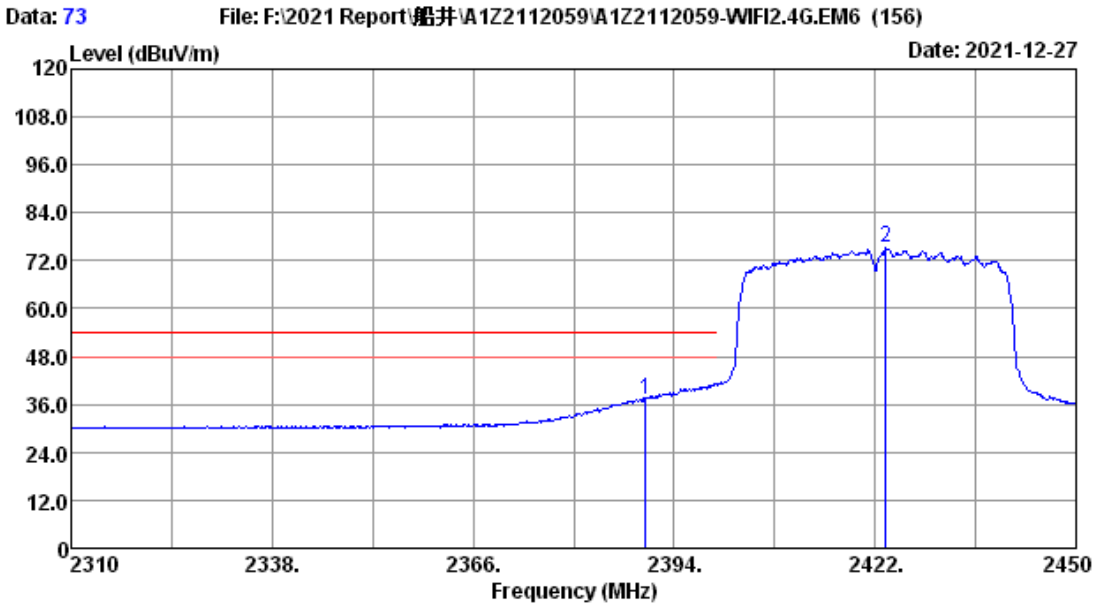
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 72
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	54.12	35.24	50.42	74.00	23.58	Peak
2	2423.96	27.96	3.67	87.36	35.24	83.75	------	------	Peak

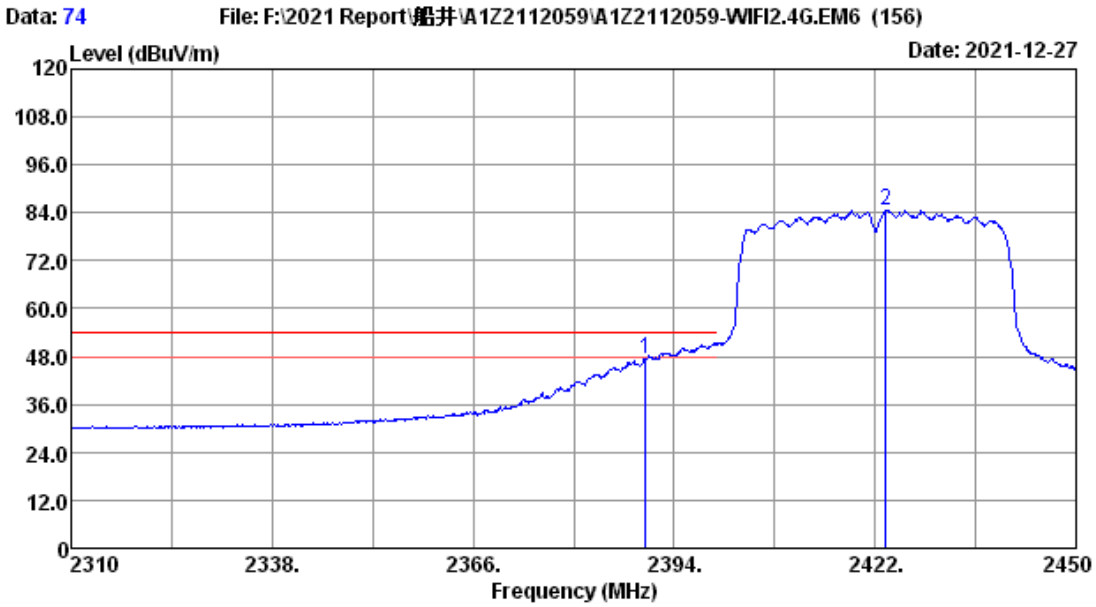
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	40.95	35.24	37.25	54.00	16.75	Average
2	2423.54	27.96	3.67	78.75	35.24	75.14	------	------	Average

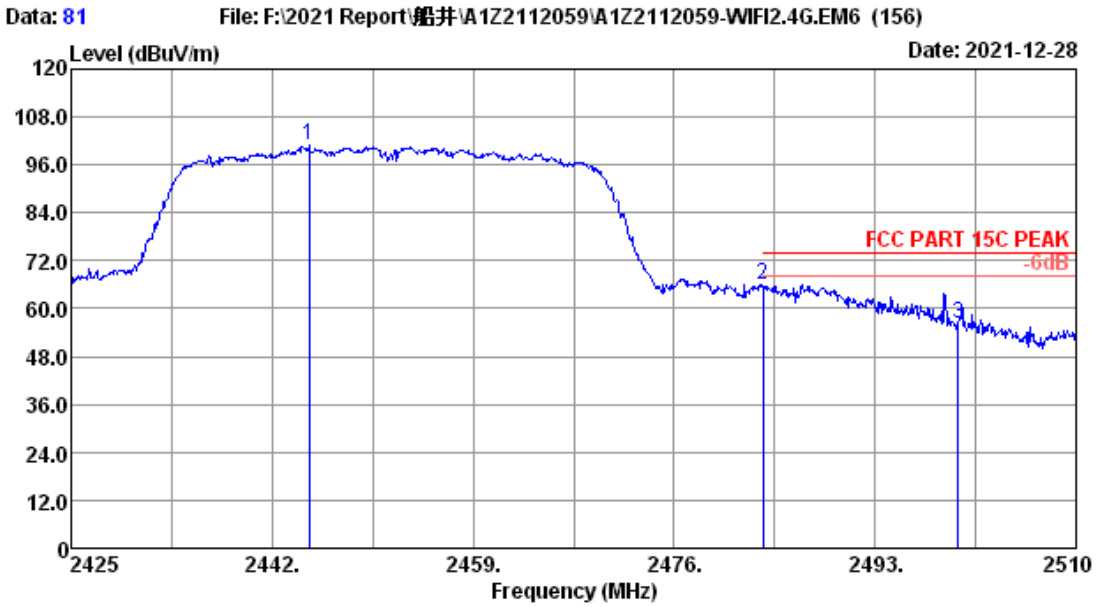
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2422MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.89	3.65	51.01	35.24	47.31	54.00	6.69	Average
2	2423.54	27.96	3.67	88.15	35.24	84.54	------	------	Average

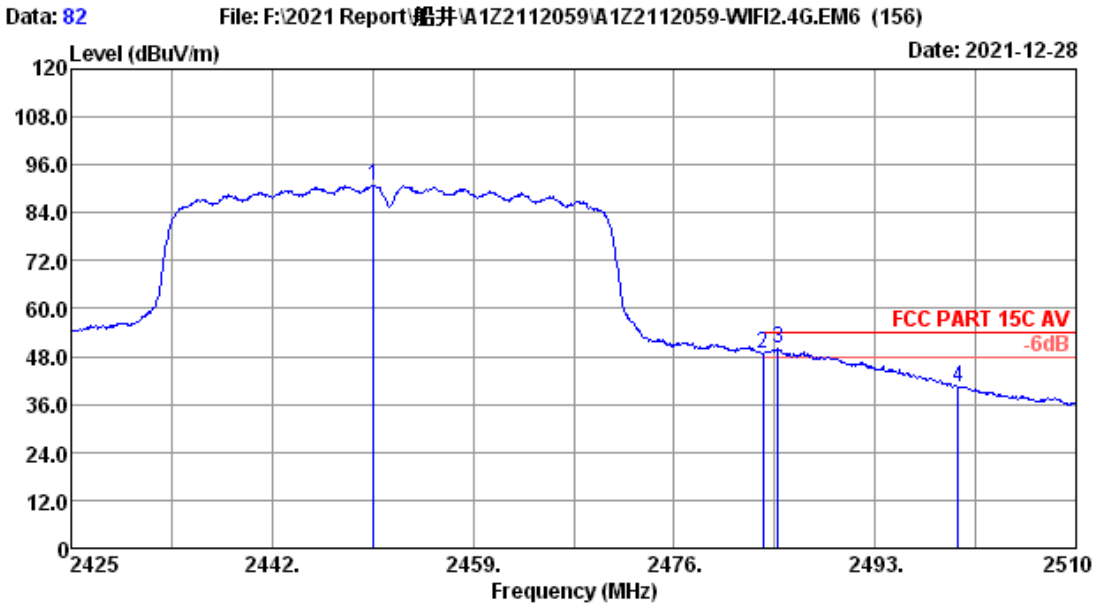
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2445.15	28.00	3.68	104.57	35.25	101.00	------	------	Peak
2	2483.50	28.07	3.71	69.23	35.25	65.76	74.00	8.24	Peak
3	2500.00	28.10	3.72	59.74	35.25	56.31	74.00	17.69	Peak

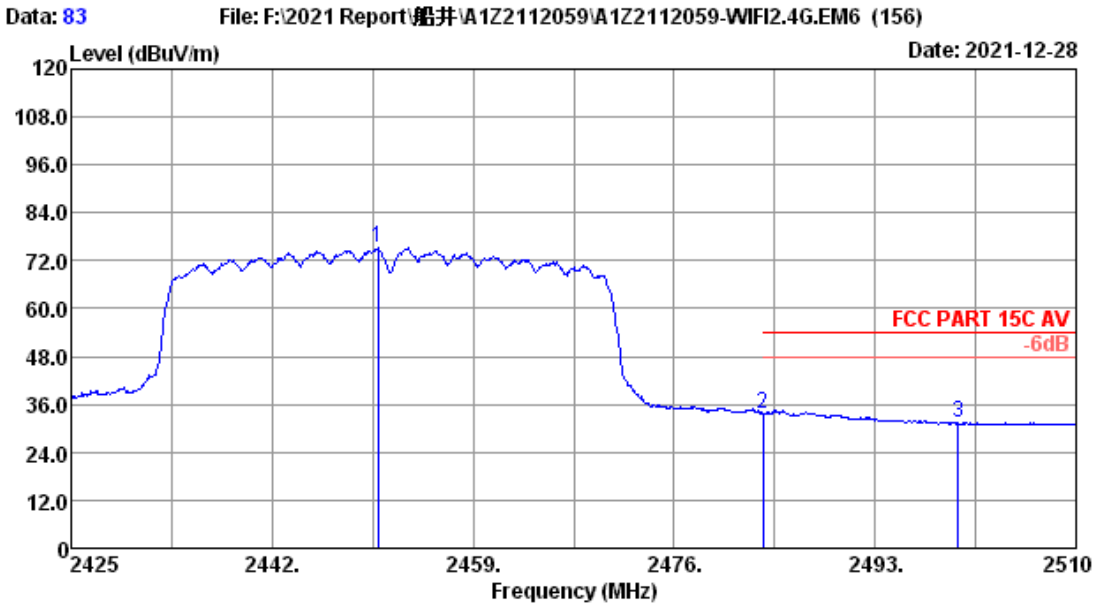
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2450.59	28.00	3.68	94.50	35.25	90.93	------	------	Average
2	2483.50	28.07	3.71	52.33	35.25	48.86	54.00	5.14	Average
3	2484.76	28.07	3.71	53.29	35.25	49.82	54.00	4.18	Average
4	2500.00	28.10	3.72	43.57	35.25	40.14	54.00	13.86	Average

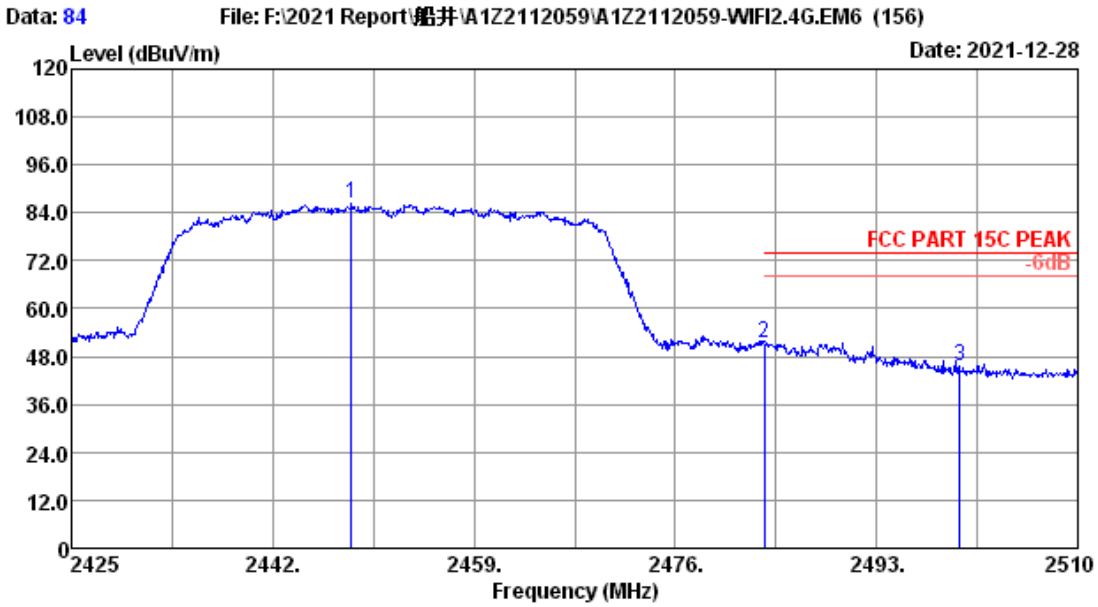
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2450.93	28.00	3.68	78.71	35.25	75.14	------	------	Average
2	2483.50	28.07	3.71	37.23	35.25	33.76	54.00	20.24	Average
3	2500.00	28.10	3.72	34.78	35.25	31.35	54.00	22.65	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 22.1*C/51.5% Engineer : Lynn
Test Mode : 11n40 2452MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2448.63	28.00	3.68	90.05	35.25	86.48	------	------	Peak
2	2483.50	28.07	3.71	54.61	35.25	51.14	74.00	22.86	Peak
3	2500.00	28.10	3.72	48.91	35.25	45.48	74.00	28.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.07,21	1 Year

7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

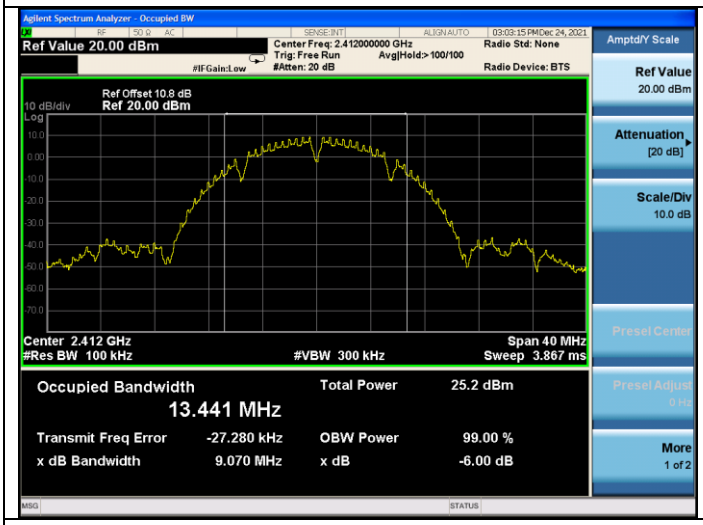
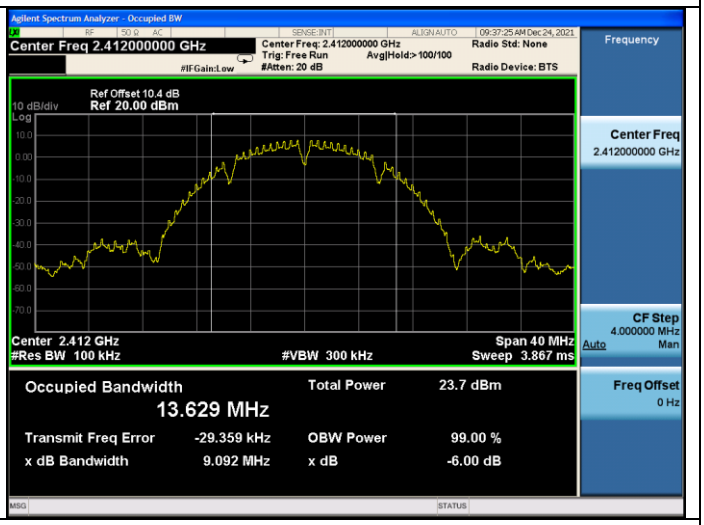
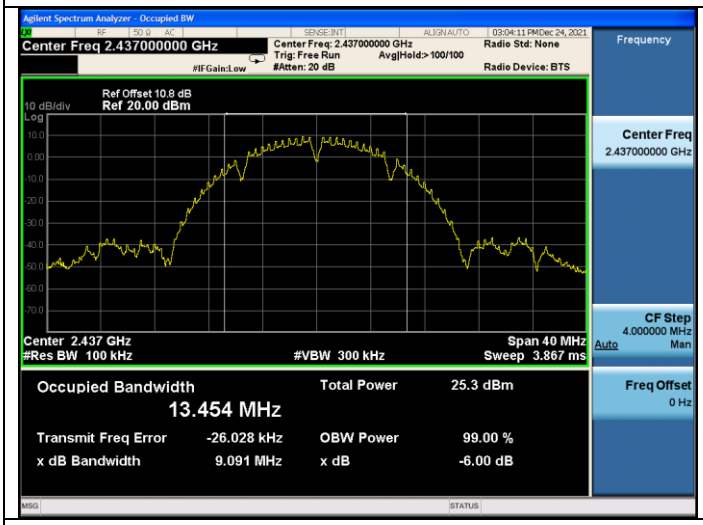
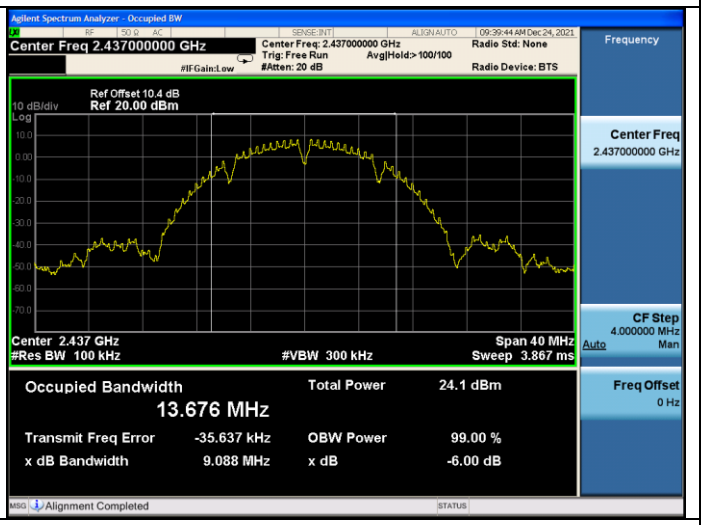
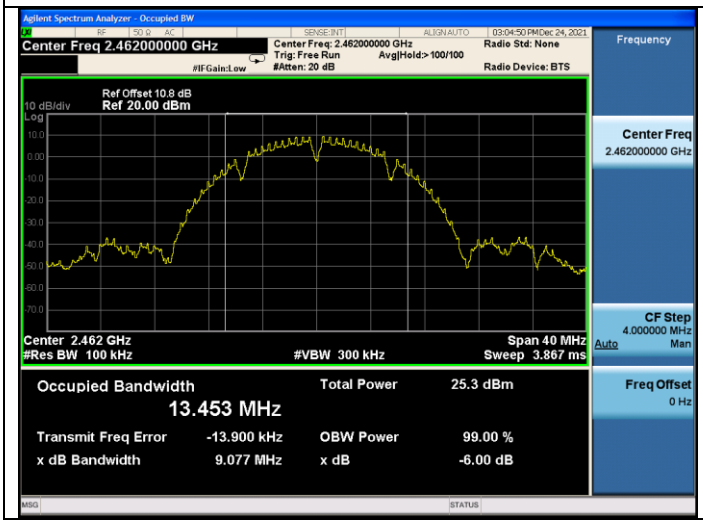
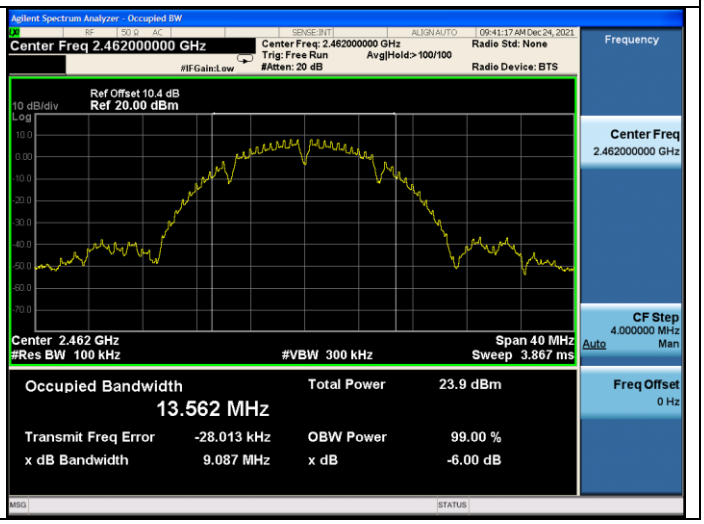
7.3.Test Procedure

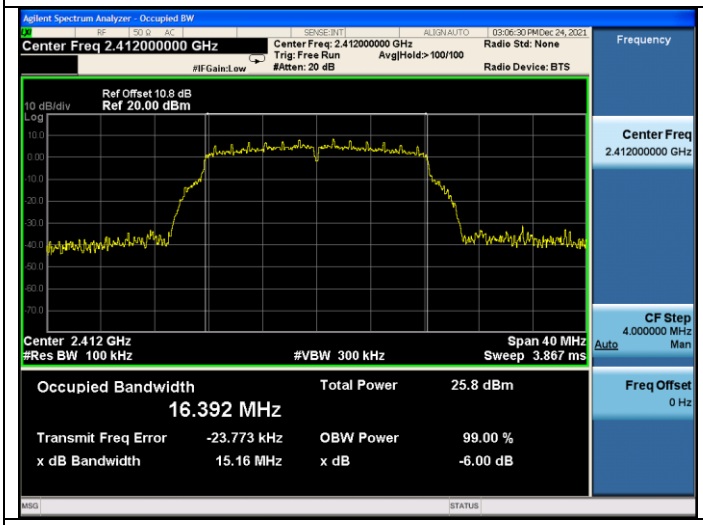
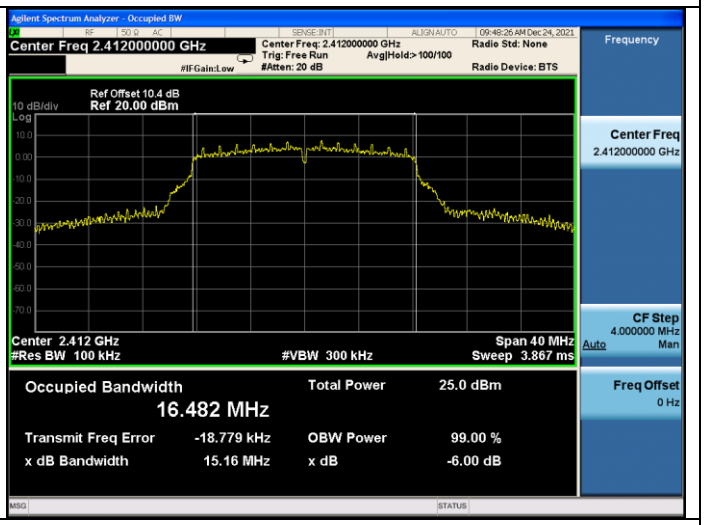
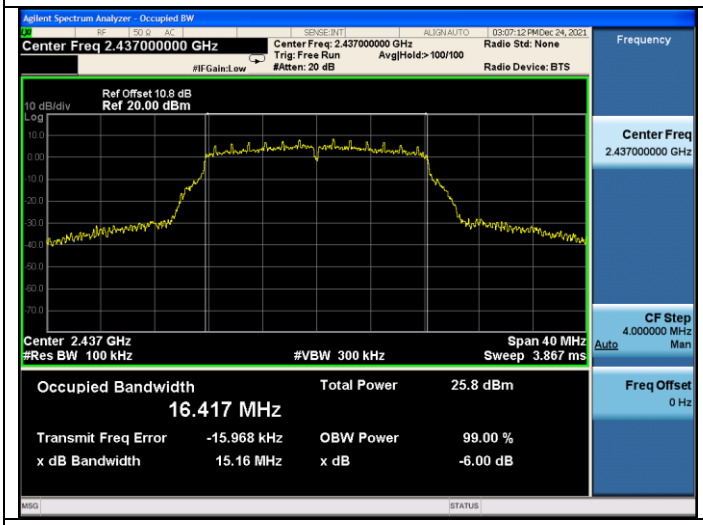
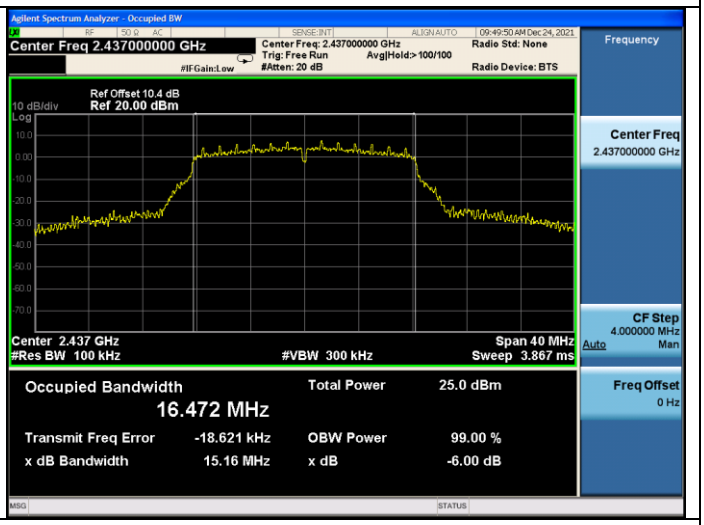
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4.Test Results

EUT: WiFi module		
M/N: U9W35		
Test date: 2021-12-27	Pressure: 102.3±1.0 kpa	Humidity: 53.3±3.0%
Tested by: Lynn	Test site: RF site	Temperature:25.2±0.6 ℃

Test Mode	CH	6dB bandwidth (MHz)		Limit (kHz)
		ANT B	ANT A	
11b	CH1	9.070	9.092	≧ 500
	CH6	9.091	9.088	≧ 500
	CH11	9.077	9.087	≧ 500
11g	CH1	15.16	15.16	≧ 500
	CH6	15.16	15.16	≧ 500
	CH11	15.16	15.16	≧ 500
11n HT20	CH1	15.16	15.16	≧ 500
	CH6	15.16	15.16	≧ 500
	CH11	15.16	15.17	≧ 500
11n HT40	CH3	35.19	35.18	≧ 500
	CH6	35.15	35.14	≧ 500
	CH9	35.19	35.19	≧ 500
Conclusion：PASS				

ANT B:	**ANT A:**
Test Mode: IEEE 802.11b Test CH1: 2412MHz	Test Mode: IEEE 802.11b Test CH1: 2412MHz
	
Test CH6: 2437MHz	Test CH6: 2437MHz
	
Test CH11: 2462MHz	Test CH11: 2462MHz
	

ANT B:	**ANT A:**
Test Mode: IEEE 802.11g Test CH1: 2412MHz	Test Mode: IEEE 802.11g Test CH1: 2412MHz
	
Test CH6: 2437MHz	Test CH6: 2437MHz
	
Test CH11: 2462MHz	Test CH11: 2462MHz