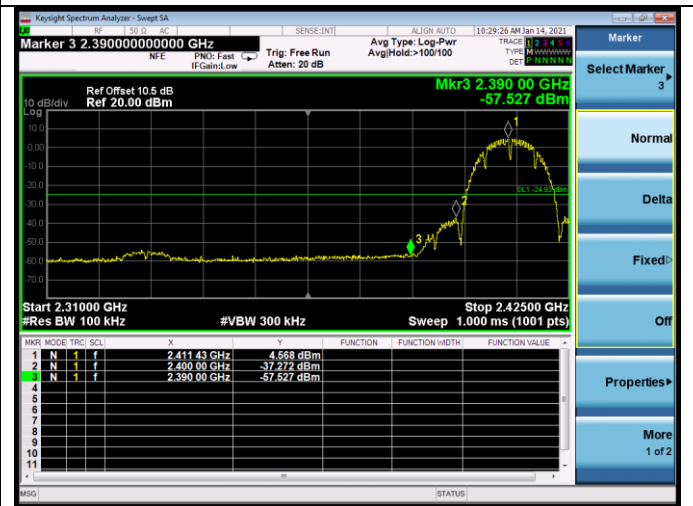
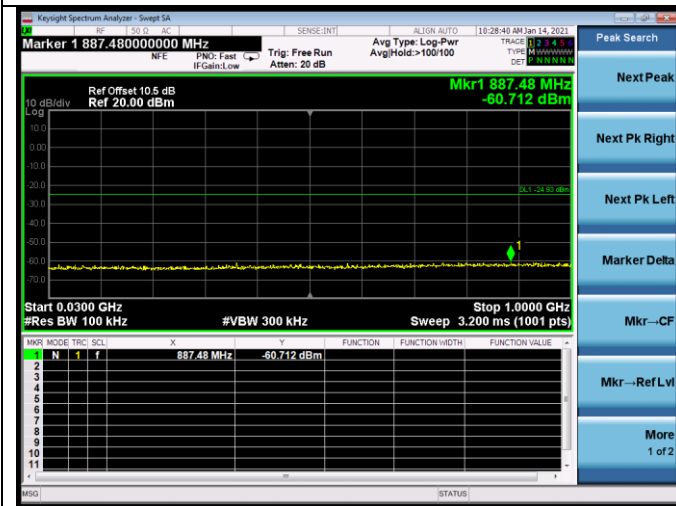
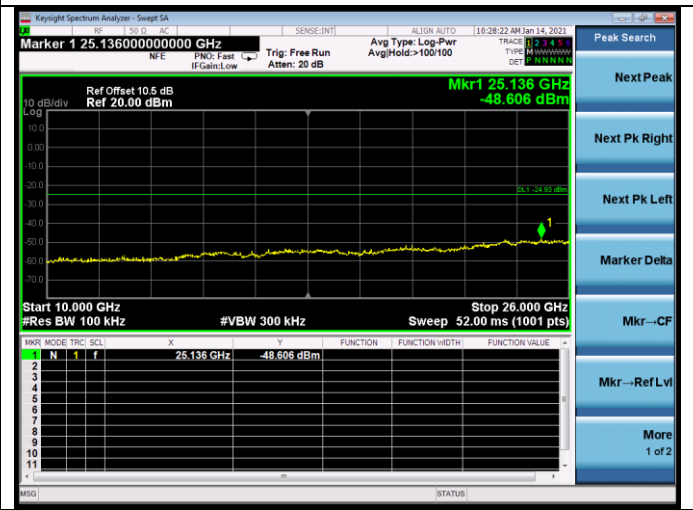
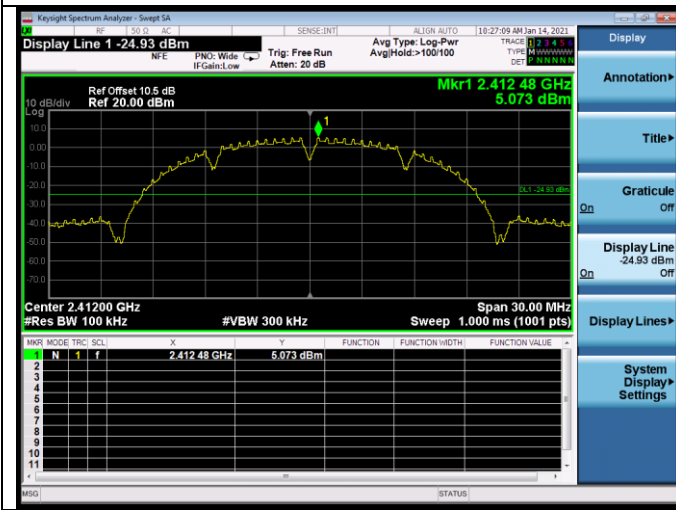


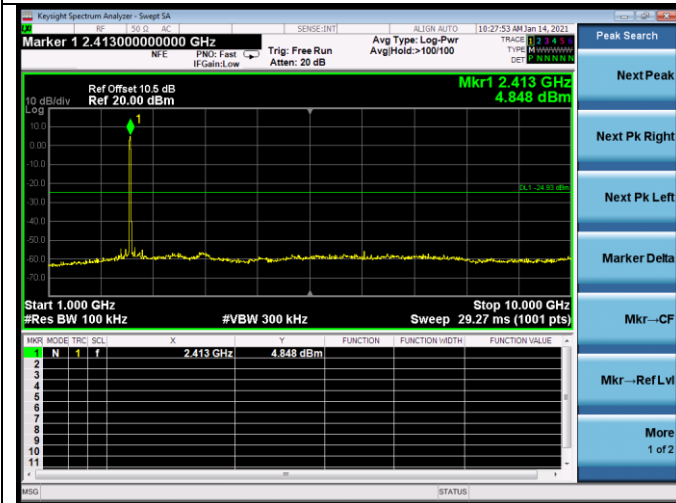
ANTB:

Test Mode: IEEE 802.11b

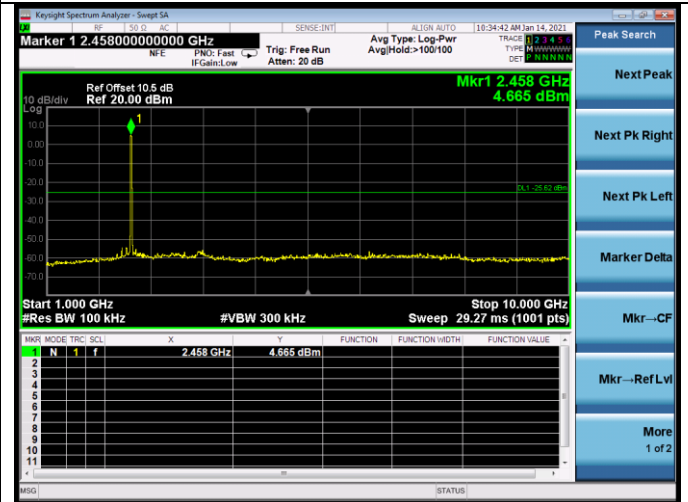
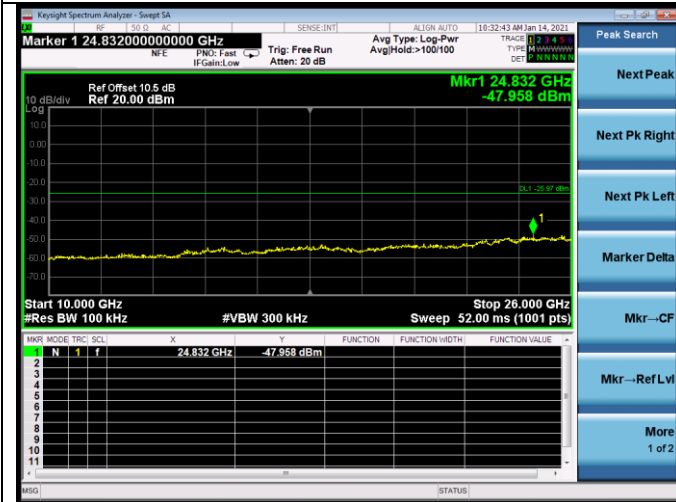
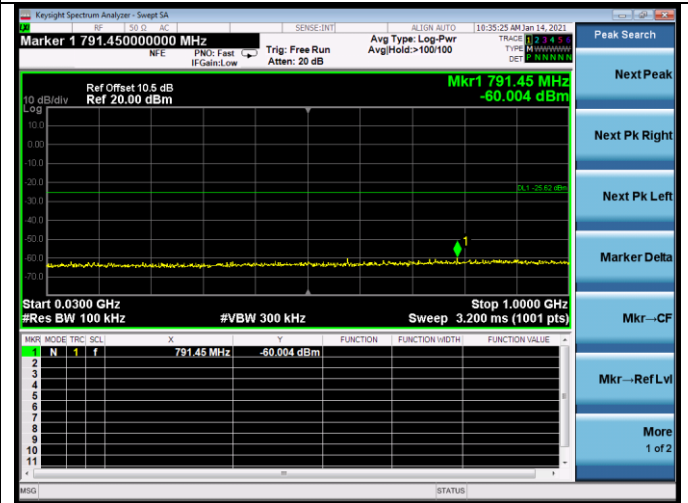
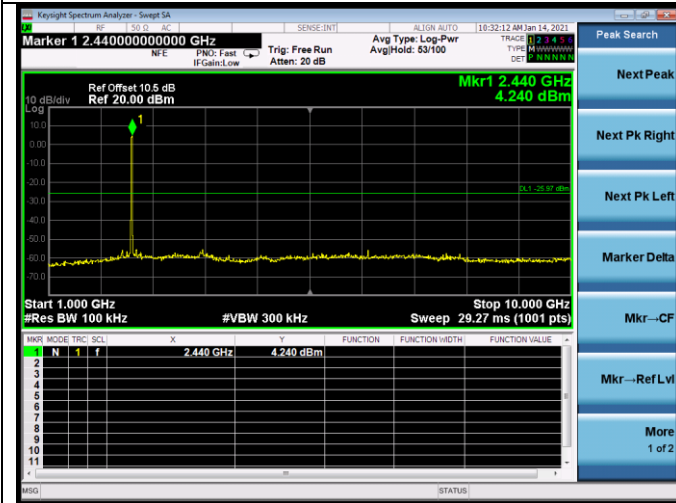
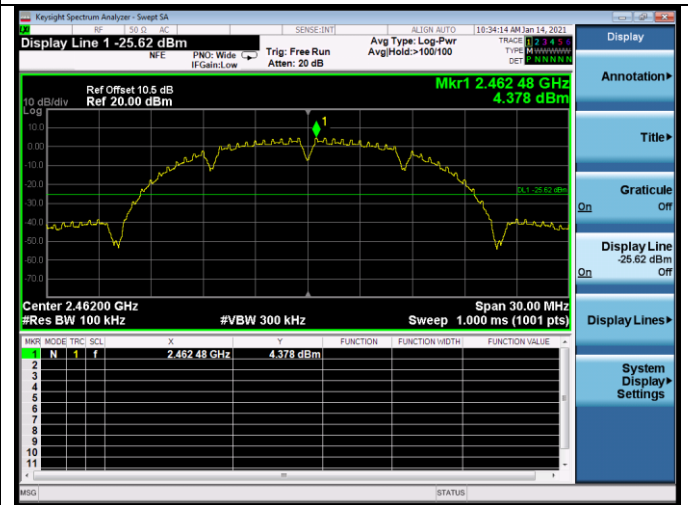
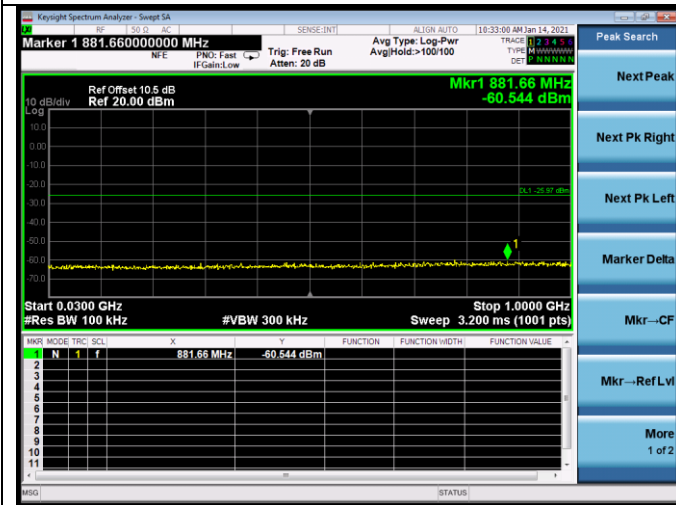
Test CH1: 2412MHz

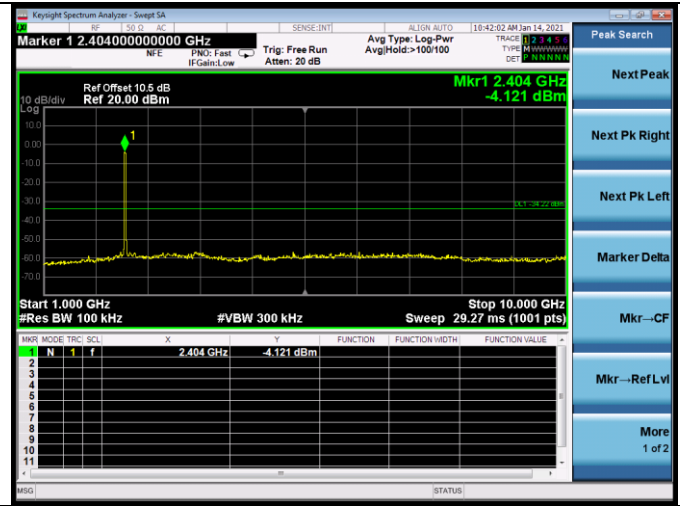
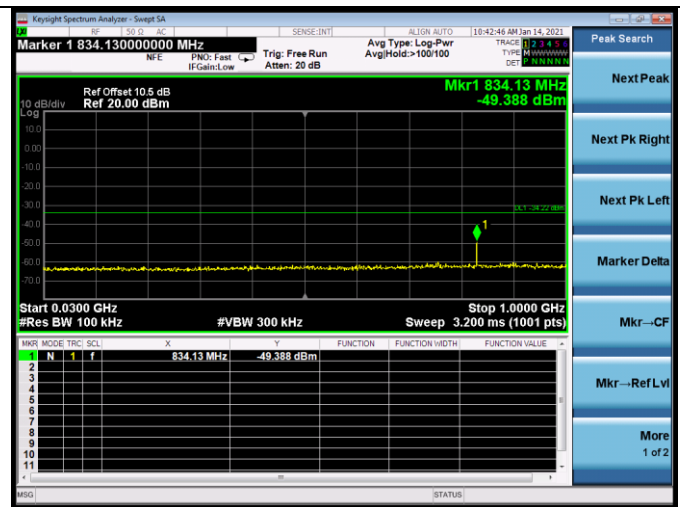
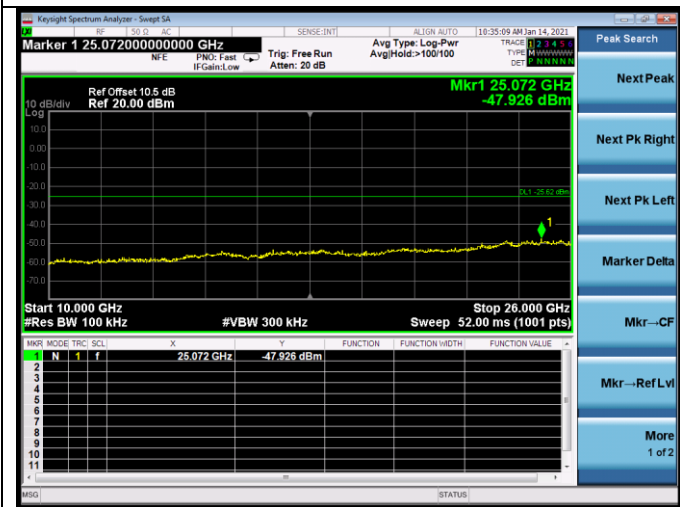


Test CH6: 2437MHz

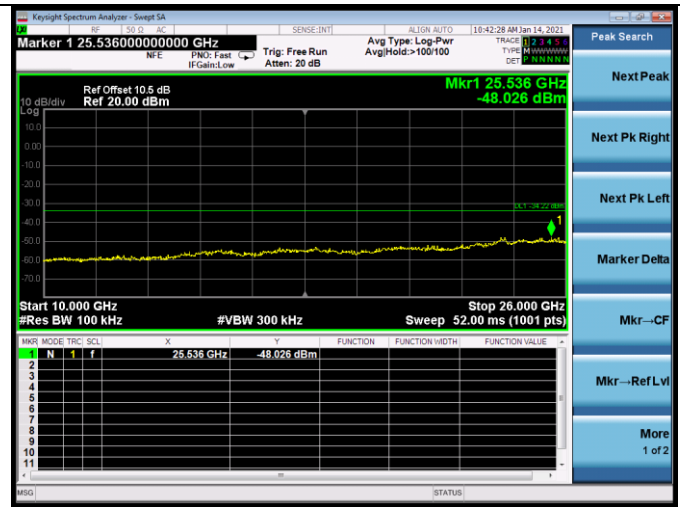
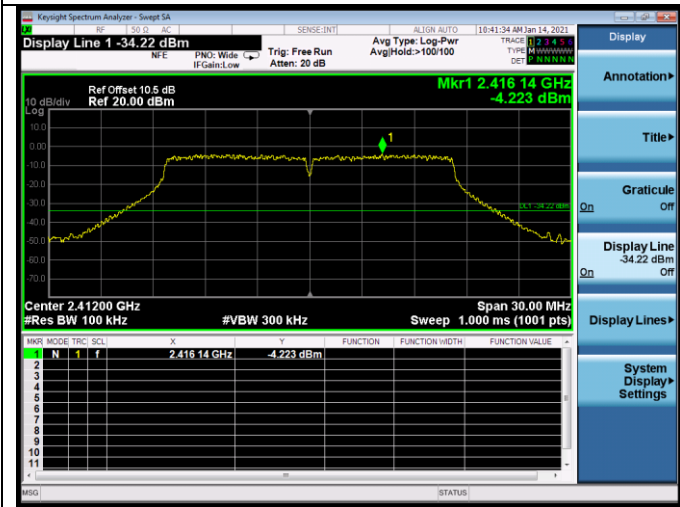


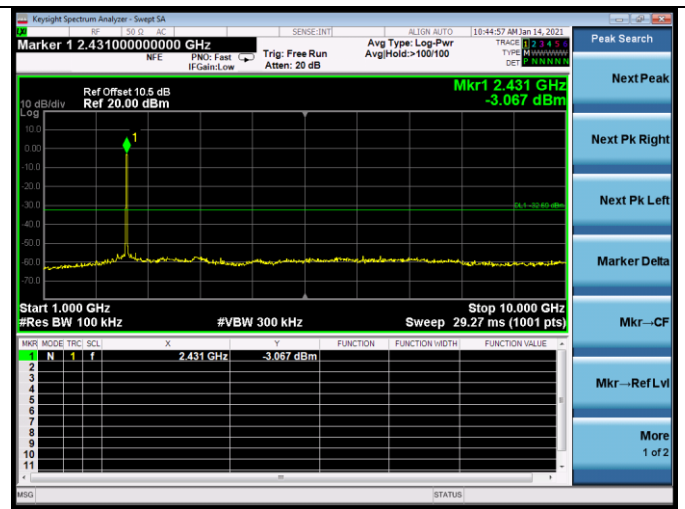
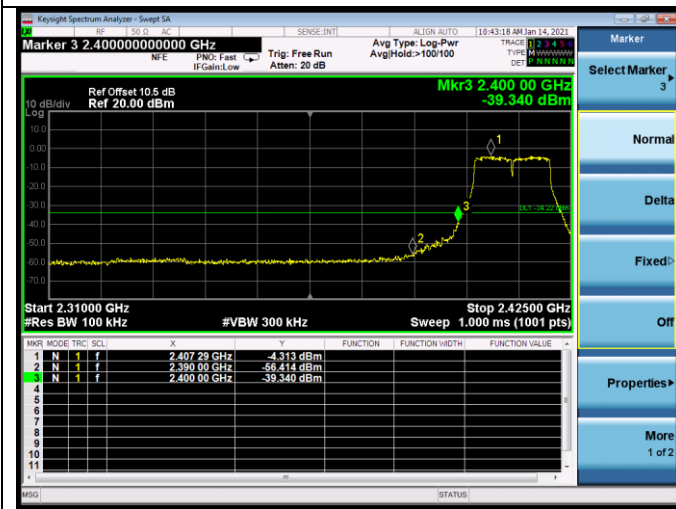
Test CH11: 2462MHz



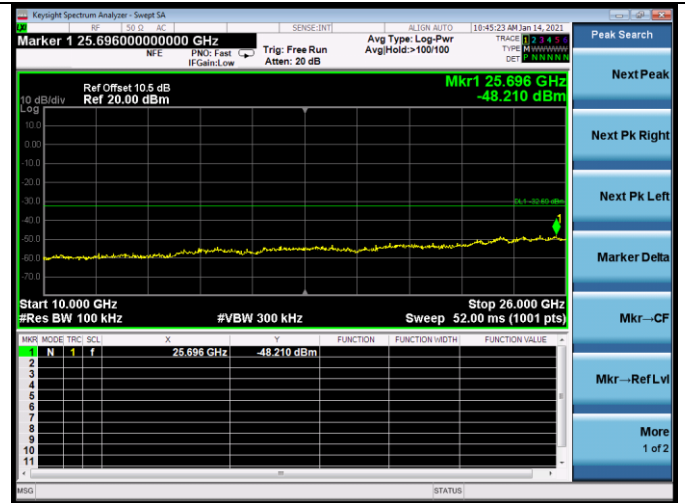
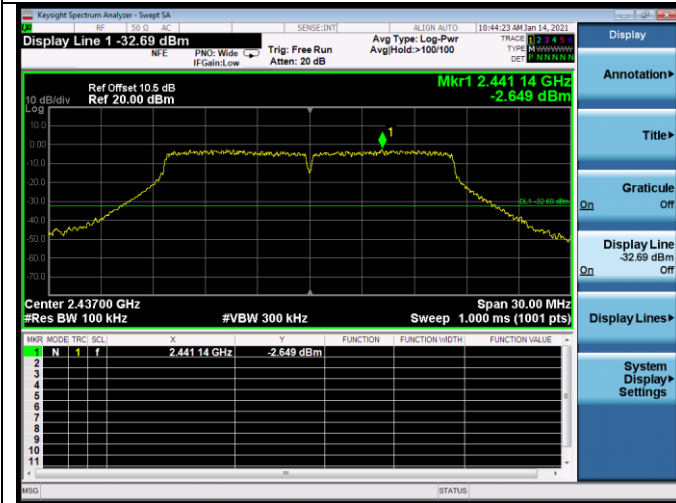


Test Mode: IEEE 802.11g
 Test CH1: 2412MHz

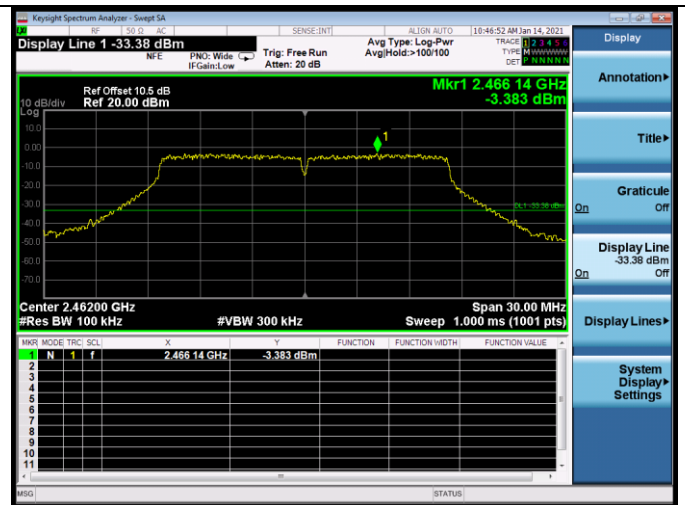
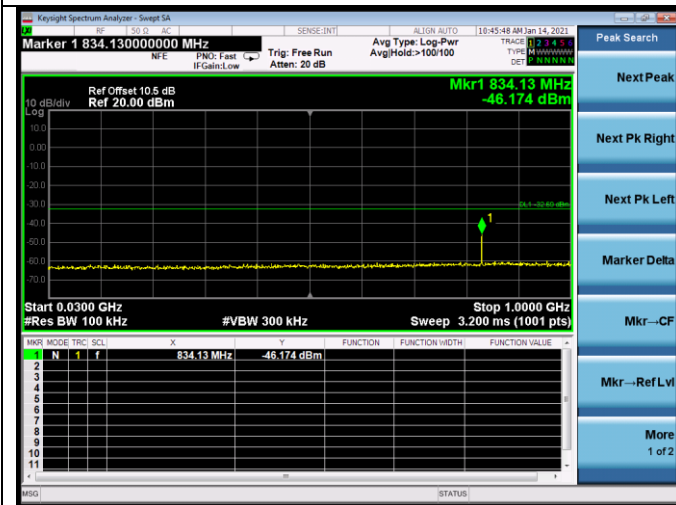


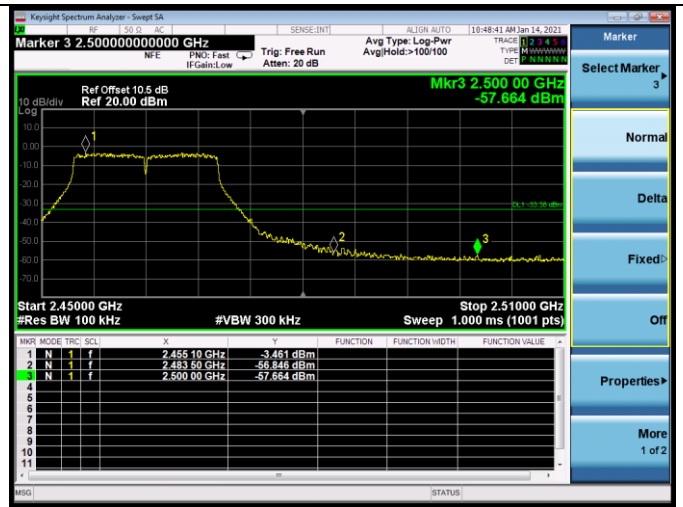
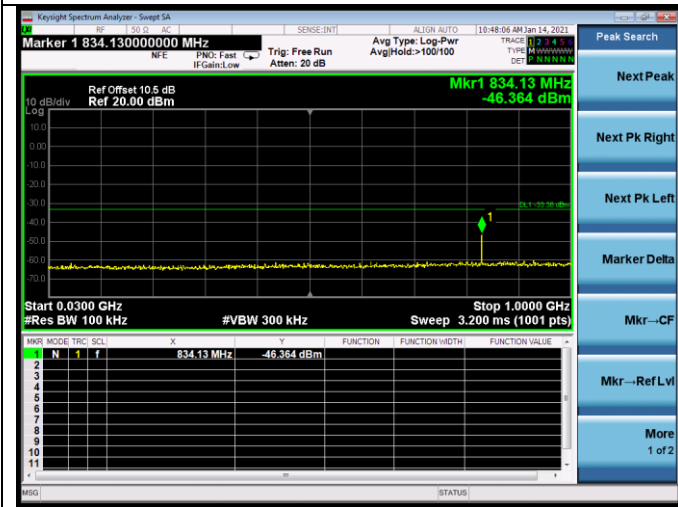


Test CH6: 2437MHz

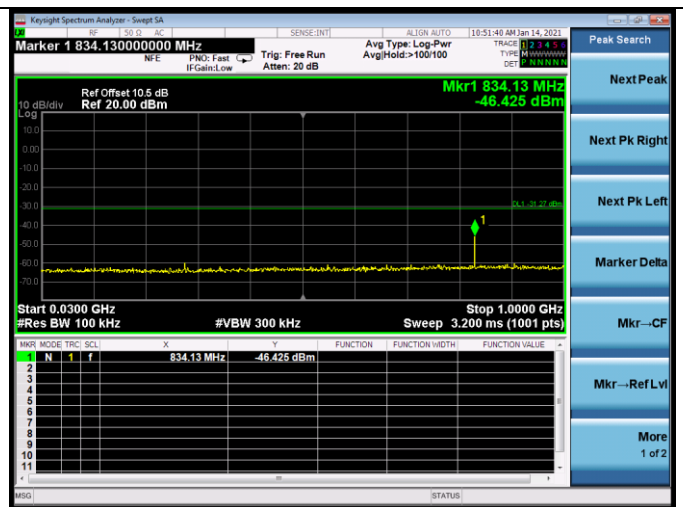
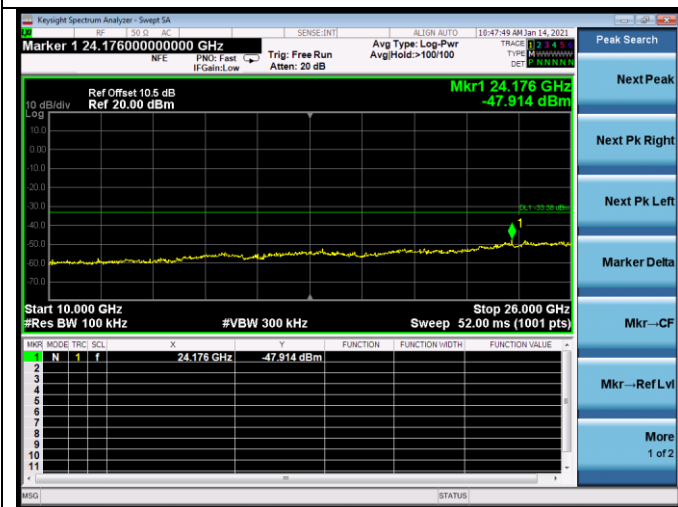
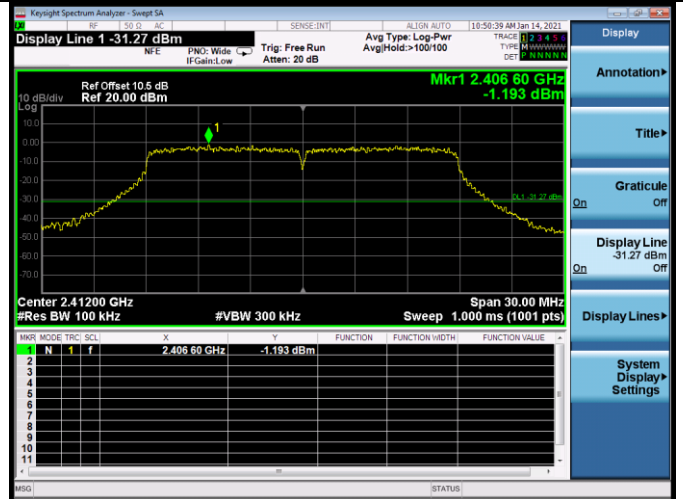
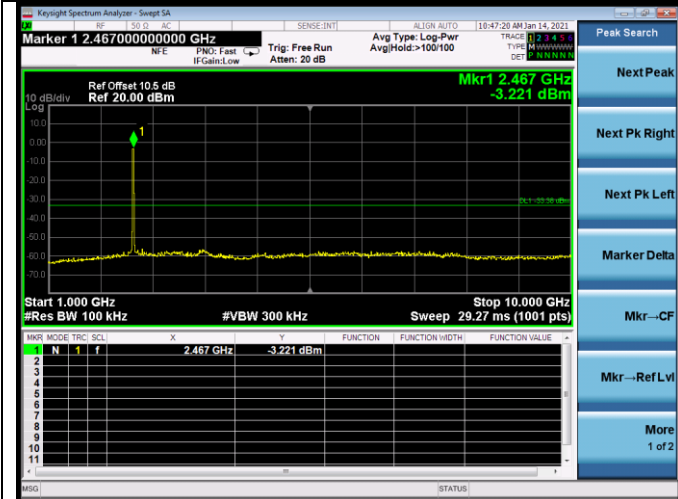


Test CH11: 2462MHz

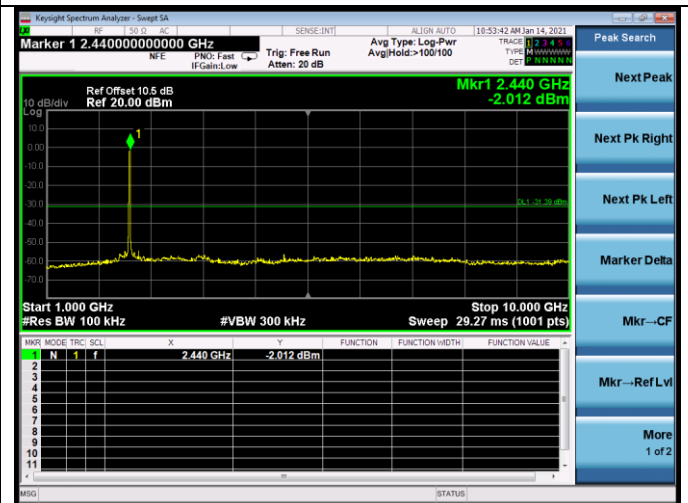
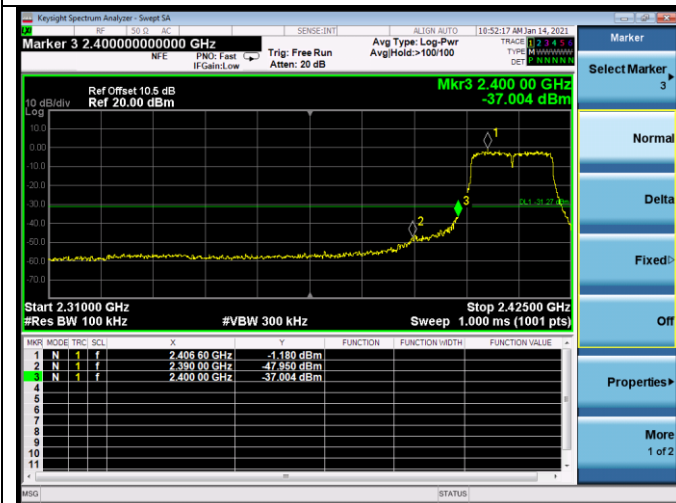
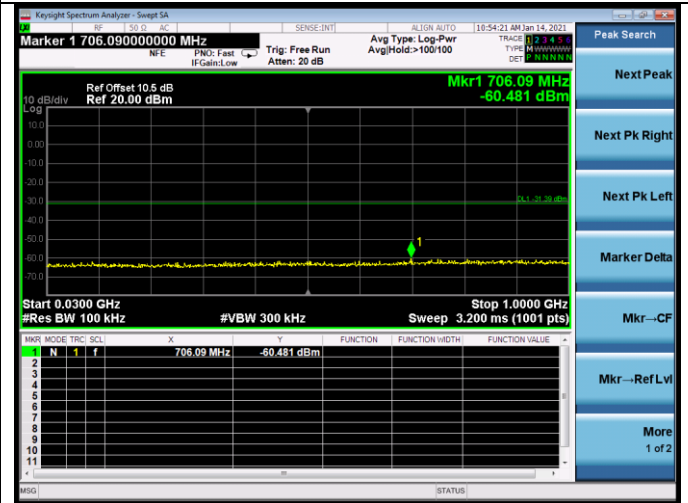
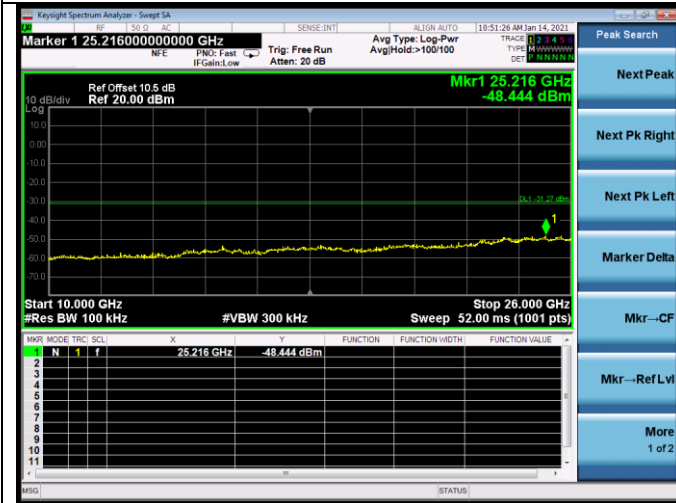
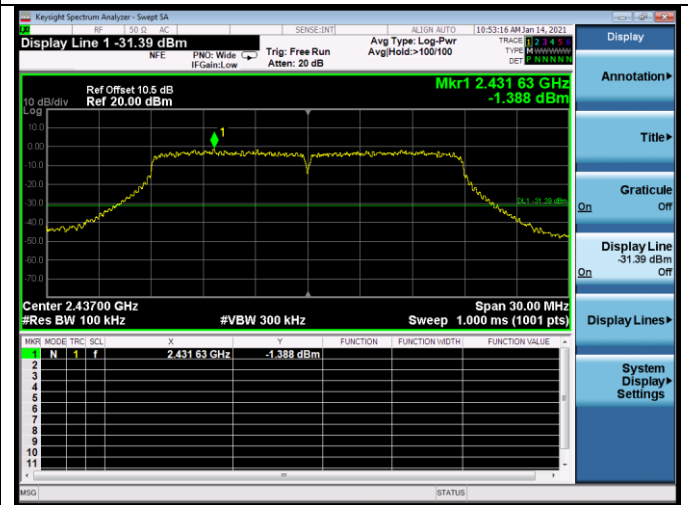
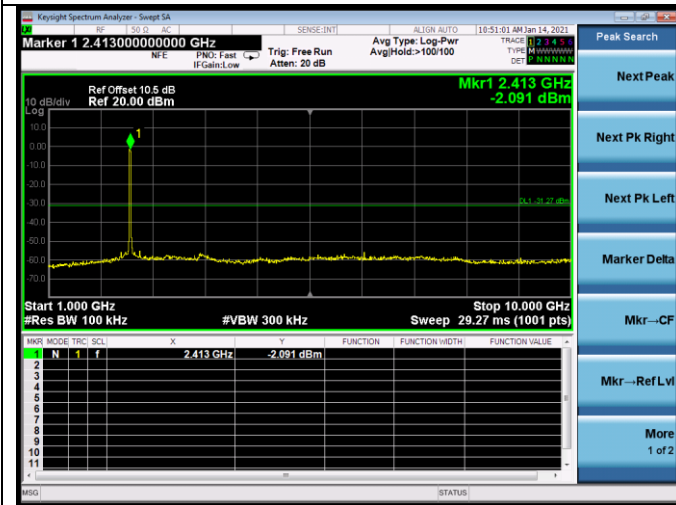


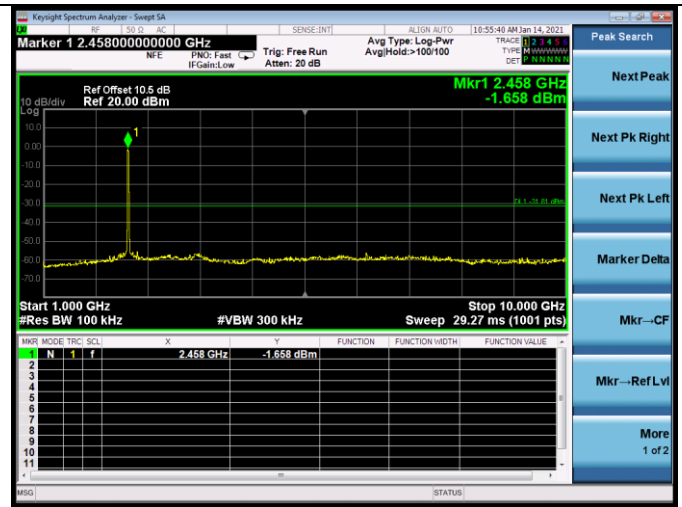
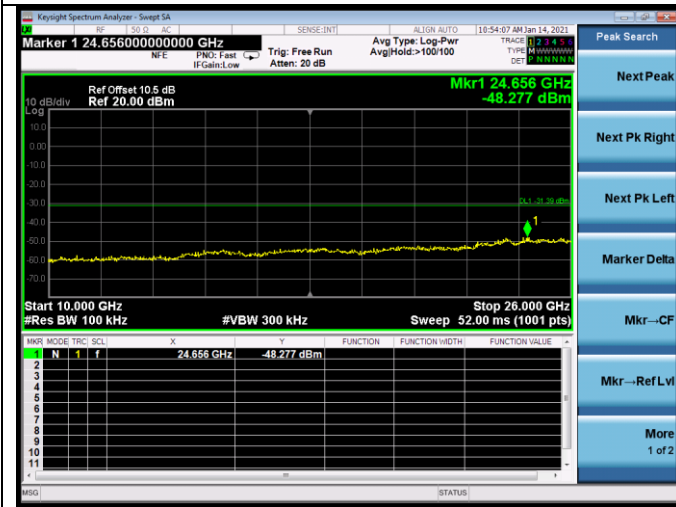


Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

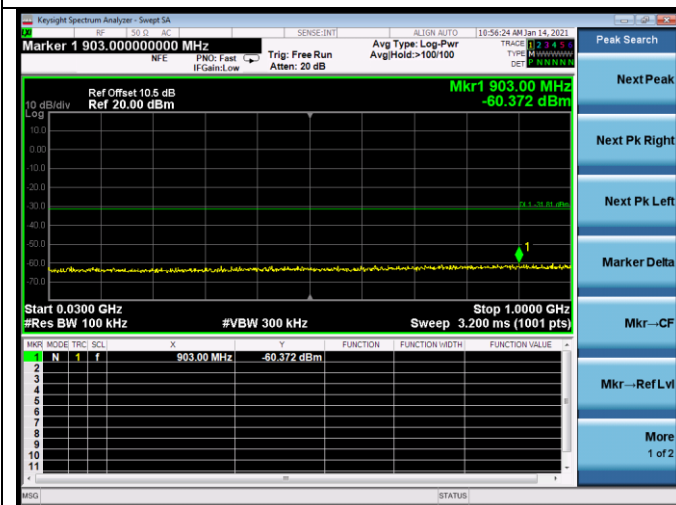
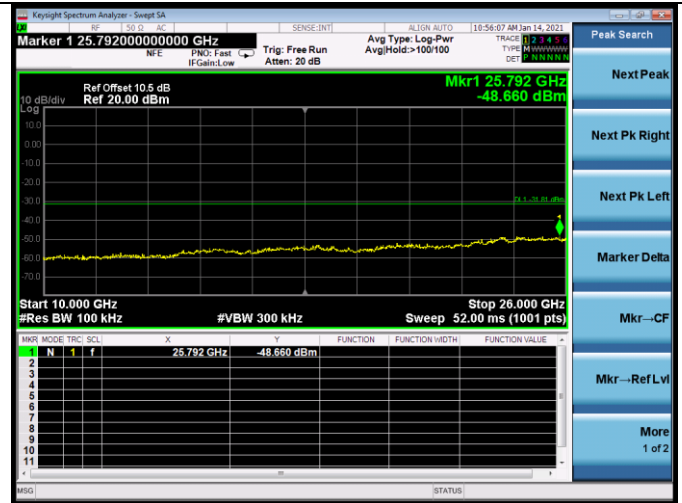
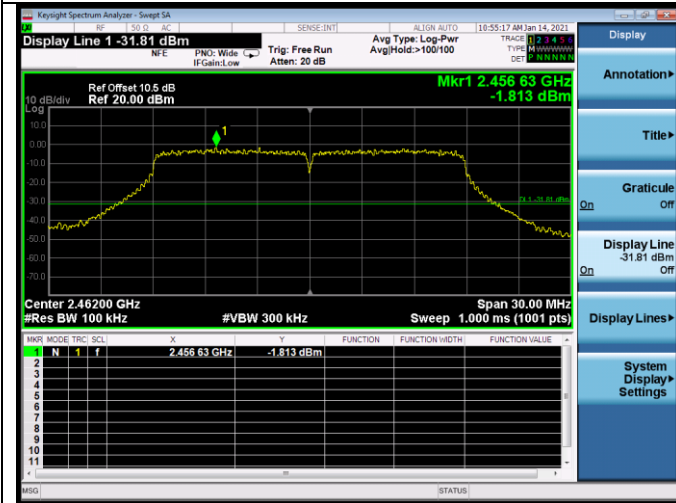


Test CH6: 2437MHz

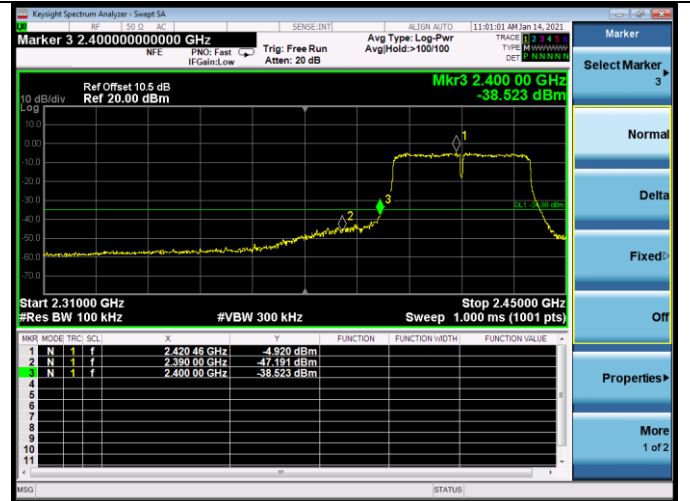
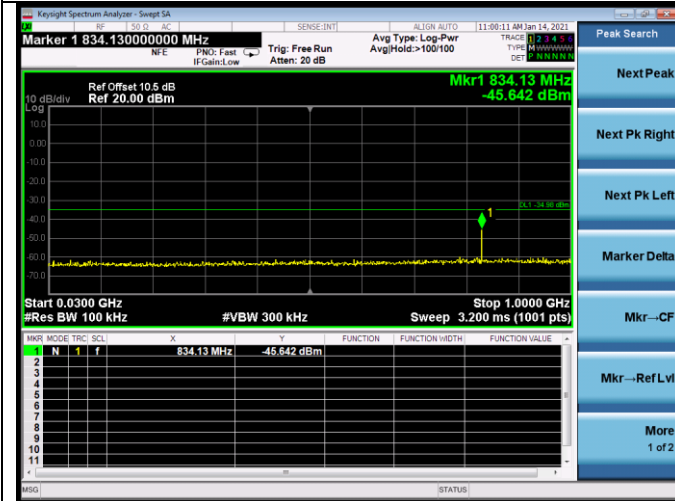
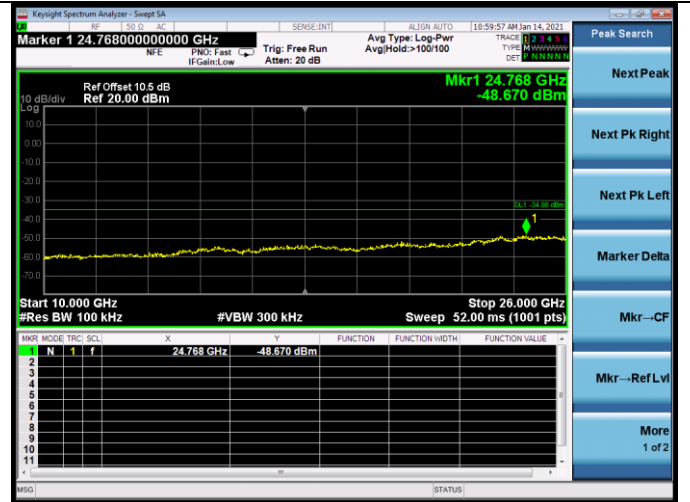
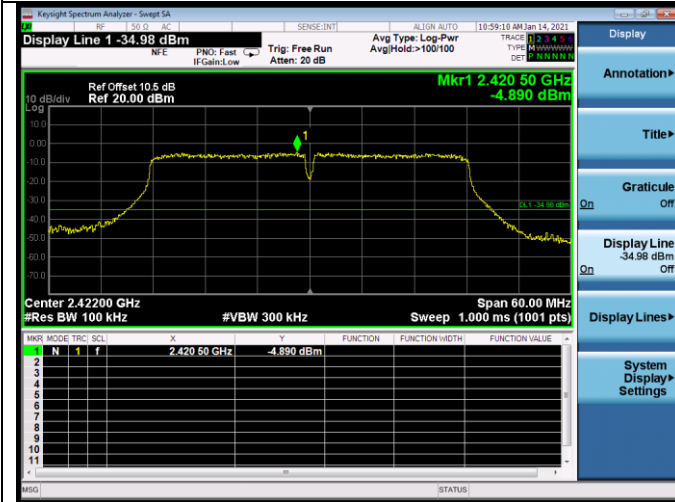




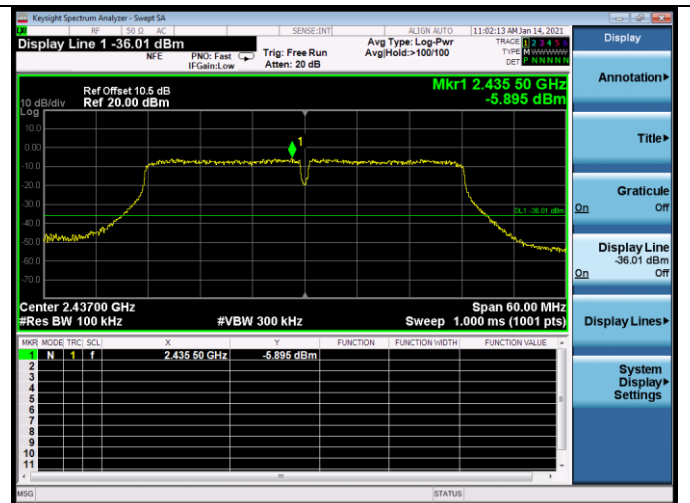
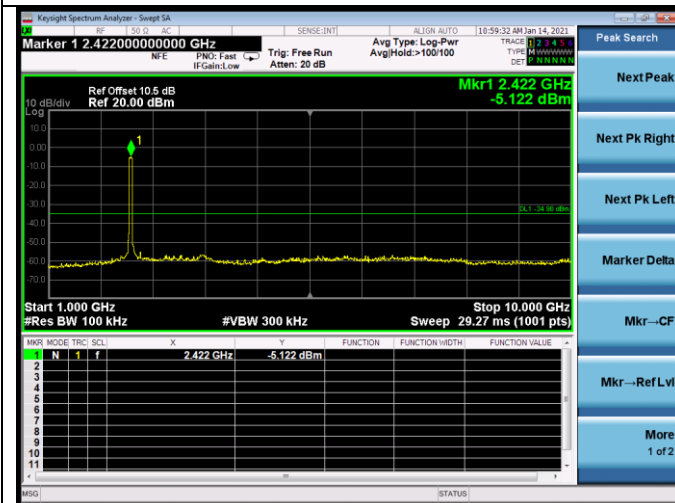
Test CH11: 2462MHz



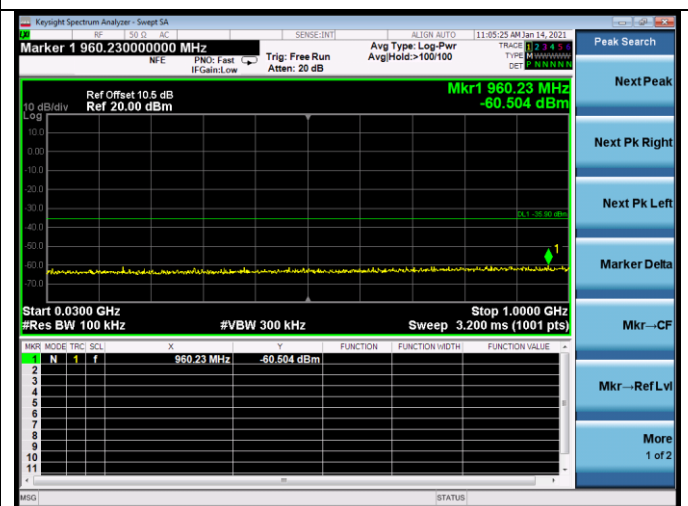
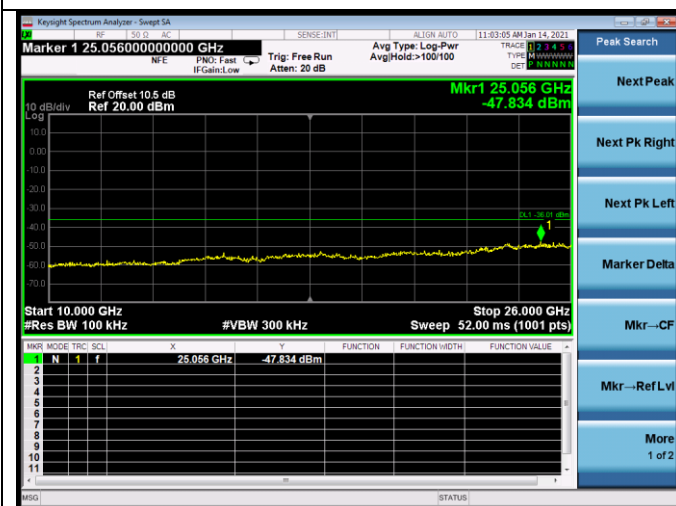
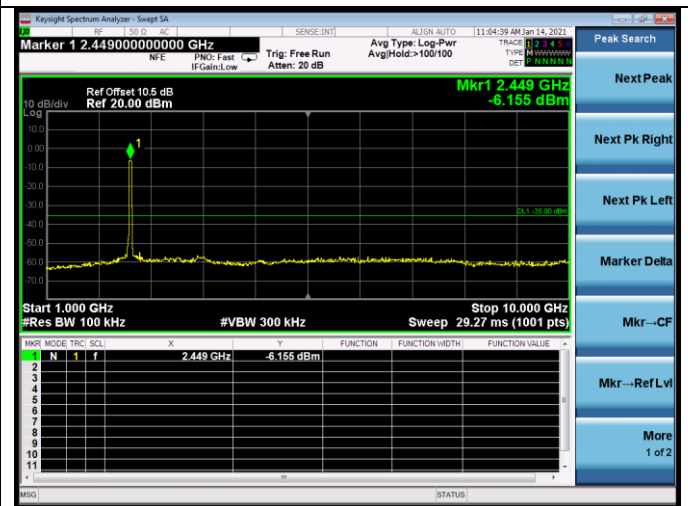
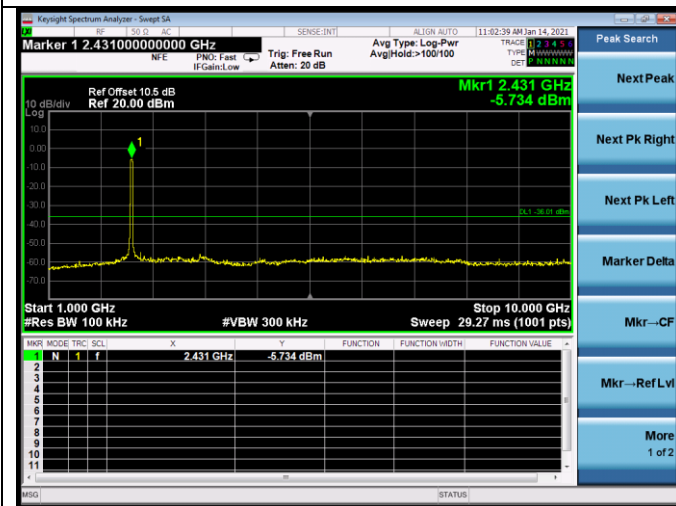
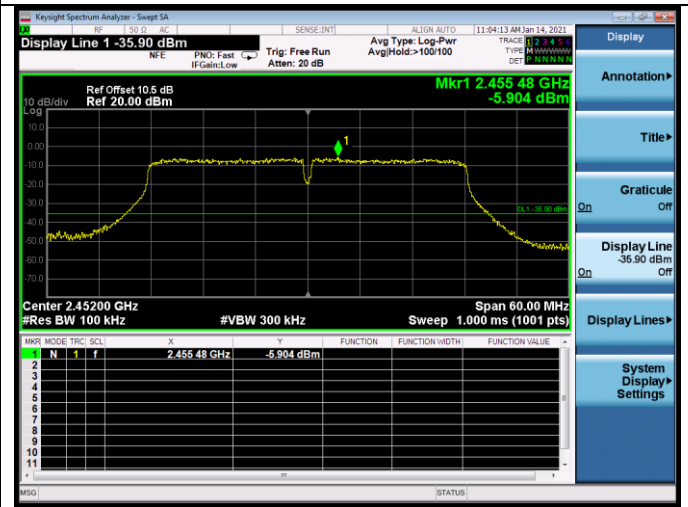
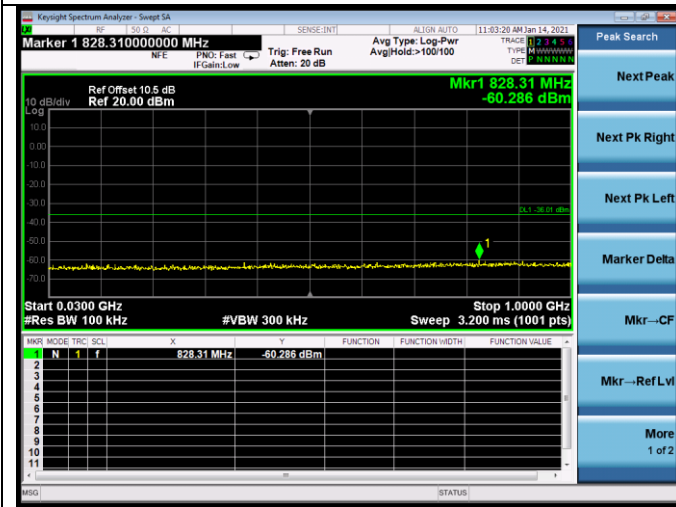
Test Mode: IEEE 802.11n HT40
 Test CH3: 2422MHz



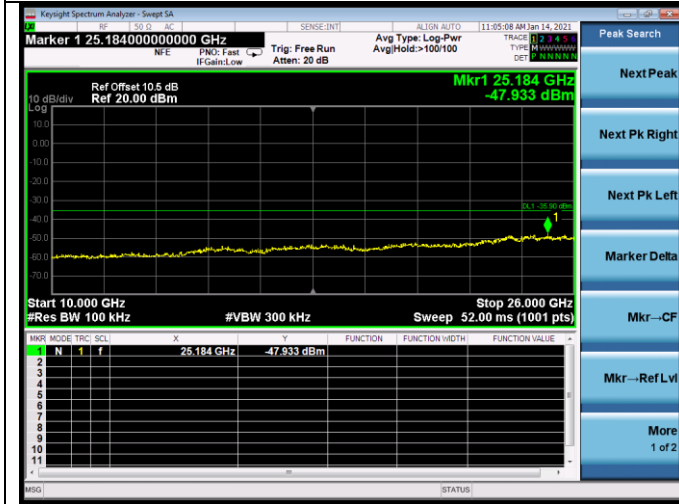
Test CH6: 2437MHz



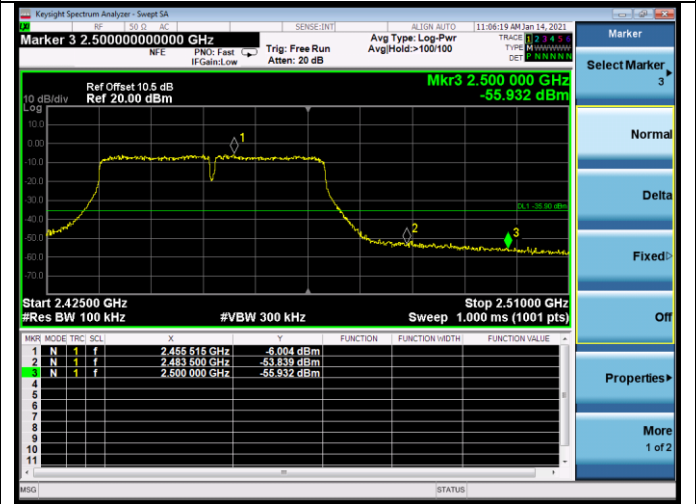
Test CH9: 2452MHz



Test CH9: 2452MHz



Test CH9: 2452MHz



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.12,20	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.11,20	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jul.30,20	1 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

6.2. Limit

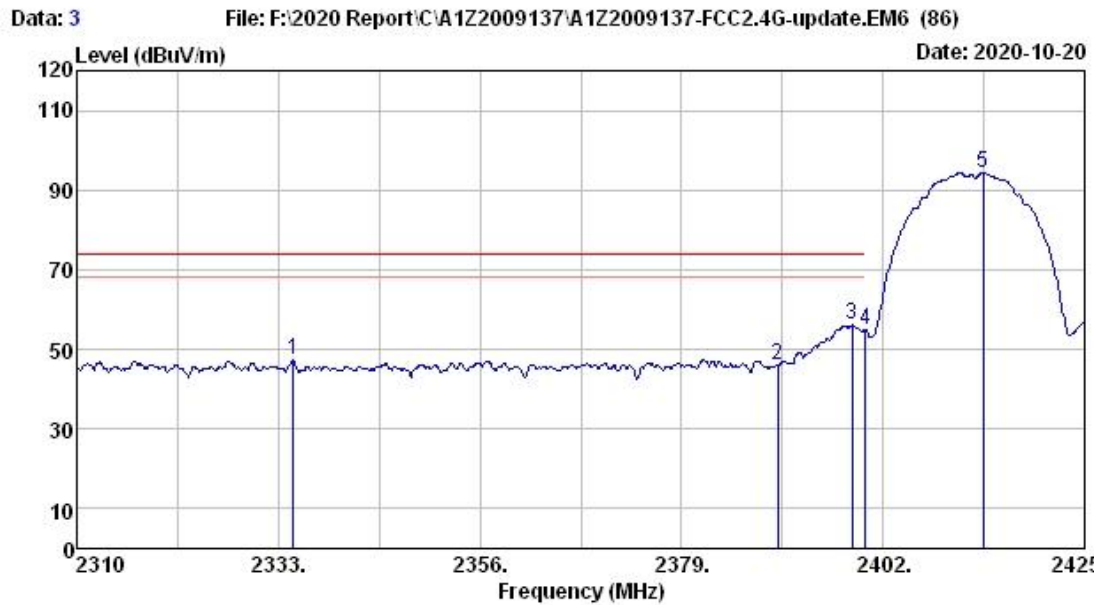
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

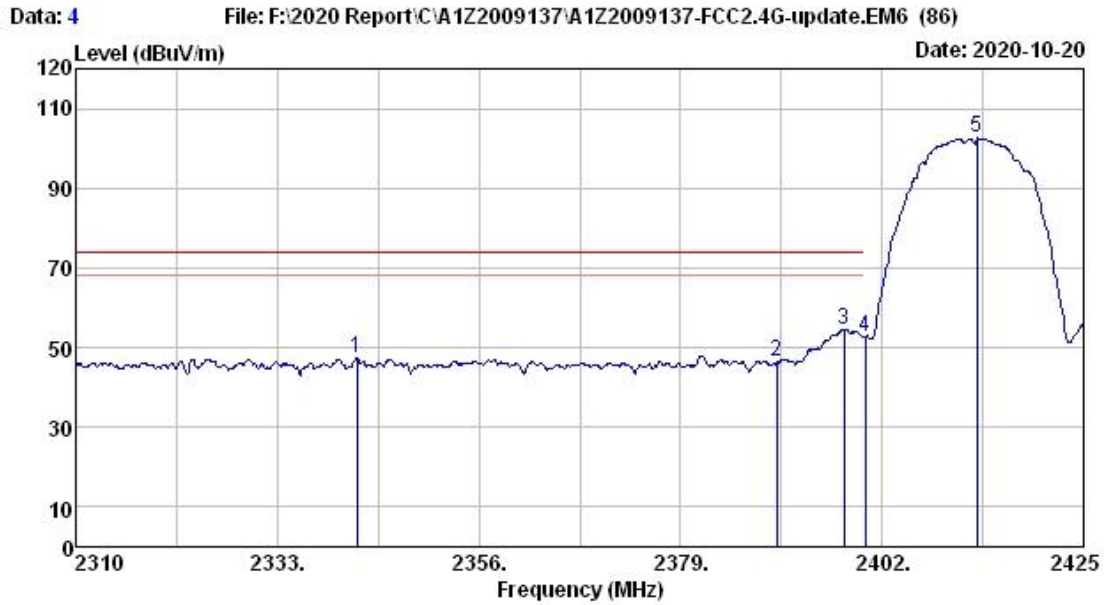
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.1°C/51.5% Engineer : Garry
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

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	2334.73	27.69	5.95	47.06	33.50	47.20	74.00	26.80	Peak
2	2390.00	27.79	5.98	45.71	33.48	46.00	74.00	28.00	Peak
3	2398.44	27.79	5.98	55.75	33.48	56.04	74.00	17.96	Peak
4	2400.00	27.79	5.98	54.56	33.48	54.85	74.00	19.15	Peak
5	2413.39	27.83	5.99	93.96	33.48	94.30	-----	-----	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.

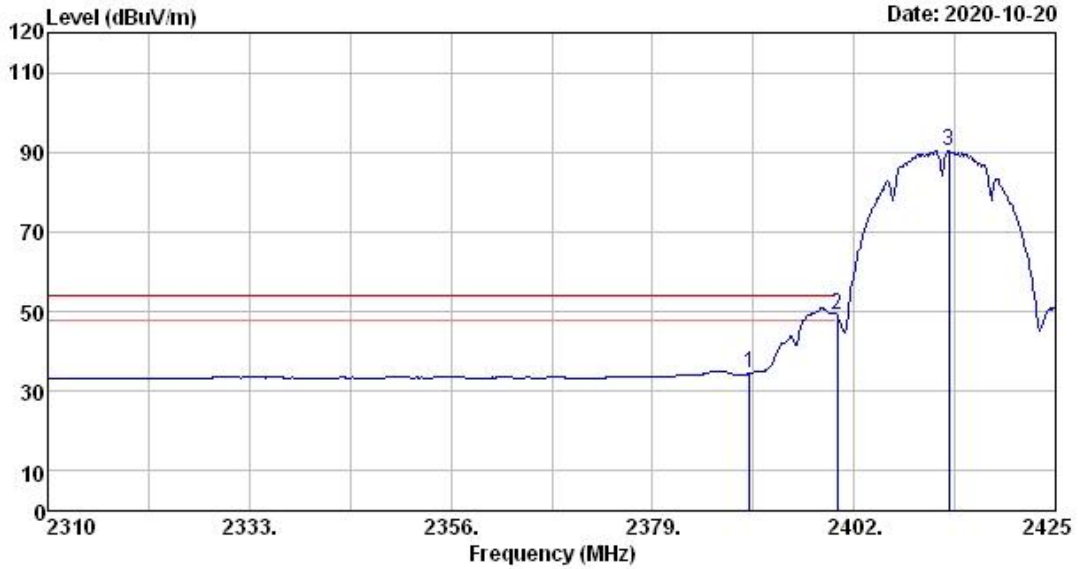


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.1°C/51.5% Engineer : Garry
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

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	2342.09	27.69	5.95	47.18	33.50	47.32	74.00	26.68	Peak
2	2390.00	27.79	5.98	45.98	33.48	46.27	74.00	27.73	Peak
3	2397.63	27.79	5.98	54.36	33.48	54.65	74.00	19.35	Peak
4	2400.05	27.79	5.98	52.36	33.48	52.65	-----	-----	Peak
5	2412.81	27.83	5.99	102.50	33.48	102.84	-----	-----	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.

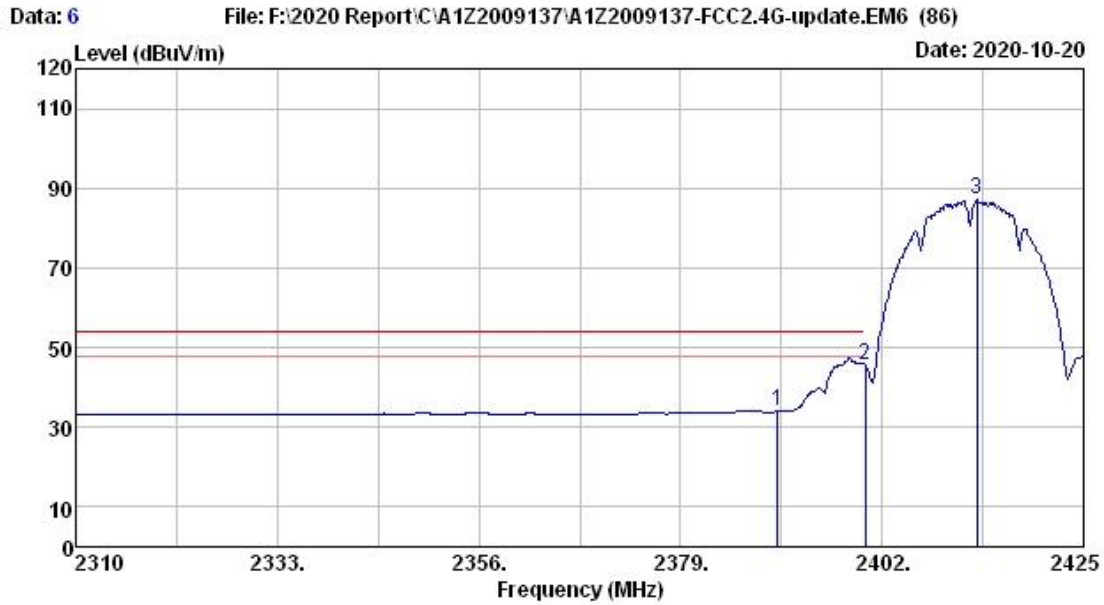
Data: 5 File: F:\2020 Report\C\A1Z2009137\A1Z2009137-FCC2.4G-update.EM6 (86) Date: 2020-10-20



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.1°C/51.5% Engineer : Garry
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

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	2390.04	27.79	5.98	34.14	33.48	34.43	54.00	19.57	Average
2	2400.05	27.79	5.98	48.80	33.48	49.09	-----	-----	Average
3	2412.81	27.83	5.99	90.20	33.48	90.54	-----	-----	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.

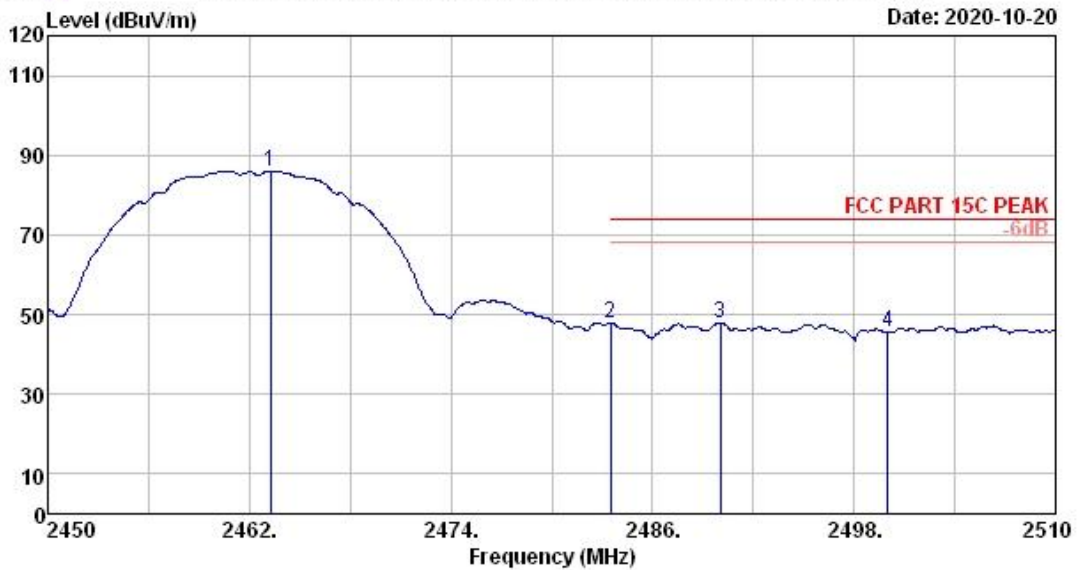


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.1°C/51.5% Engineer : Garry
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

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	2390.04	27.79	5.98	33.68	33.48	33.97	54.00	20.03	Average
2	2400.05	27.79	5.98	45.21	33.48	45.50	-----	-----	Average
3	2412.81	27.83	5.99	86.70	33.48	87.04	-----	-----	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.

Data: 19 File: F:\2020 Report\C\A1Z2009137\A1Z2009137-FCC2.4G-update.EM6 (86) Date: 2020-10-20



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.1°C/51.5% Engineer : Garry
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : 802.11b 2462MHz Tx Mode

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	2463.26	27.93	6.02	85.61	33.46	86.10	-----	-----	Peak
2	2483.50	27.97	6.03	47.30	33.46	47.84	74.00	26.16	Peak
3	2490.02	28.00	6.04	47.38	33.45	47.97	74.00	26.03	Peak
4	2500.00	28.00	6.04	44.97	33.45	45.56	74.00	28.44	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.