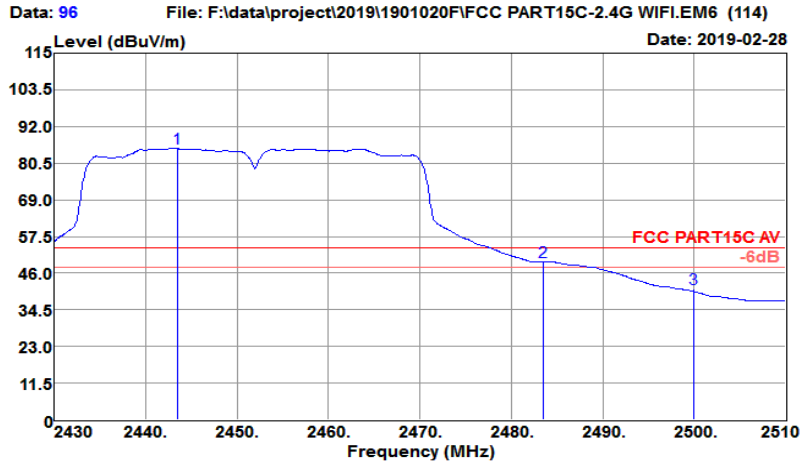
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		

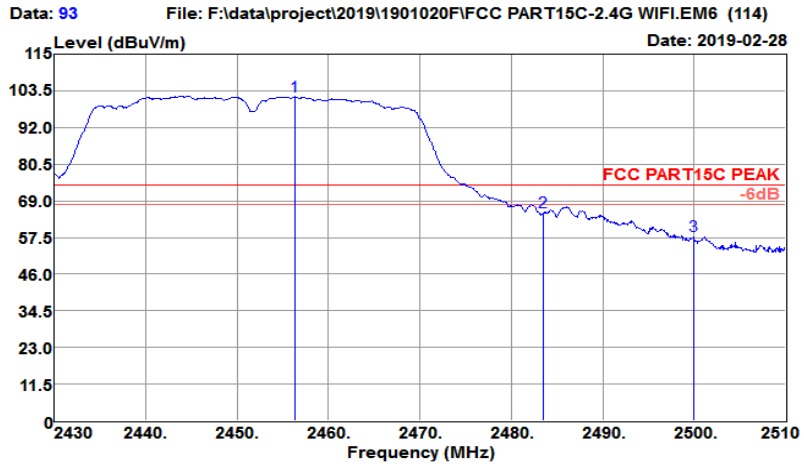


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2443.440	90.37	27.25	3.67	36.22	85.07	54.00	31.07	Average
2483.500	54.96	27.36	3.68	36.33	49.67	54.00	-4.33	Average
2500.000	46.47	27.40	3.68	36.37	41.18	54.00	-12.82	Average

11N40 High channel:2452MHz

Vertical:

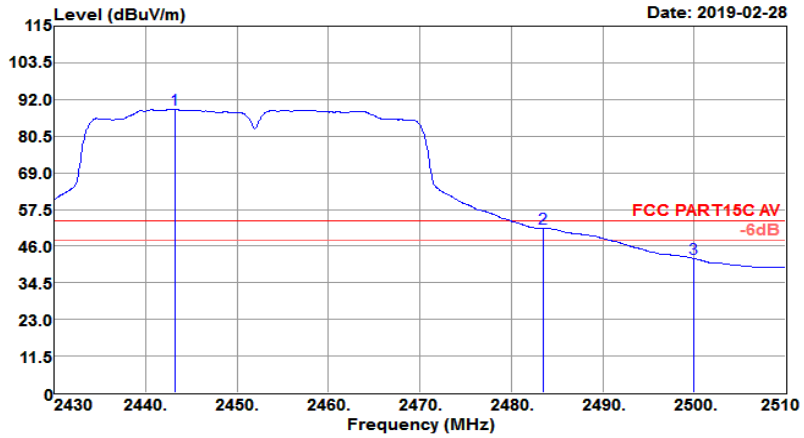
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2456.320	106.92	27.29	3.67	36.25	101.63	74.00	27.63	Peak
2483.500	70.76	27.36	3.68	36.33	65.47	74.00	-8.53	Peak
2500.000	63.32	27.40	3.68	36.37	58.03	74.00	-15.97	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		

Data: 94 File: F:\data\project\2019\1901020F\FCC PART15C-2.4G WIFI.EM6 (114)



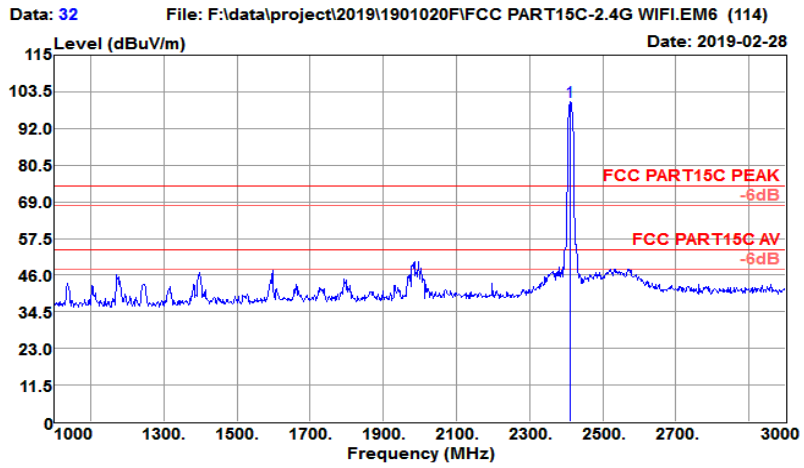
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2443.280	94.12	27.25	3.67	36.22	88.82	54.00	34.82	Average
2483.520	56.93	27.36	3.68	36.33	51.64	54.00	-2.36	Average
2500.000	47.36	27.40	3.68	36.37	42.07	54.00	-11.93	Average

4.5.5 Test Result of Radiated Spurious Emission (1GHz ~ 10th Harmonic)

11B Low channel:2412MHz

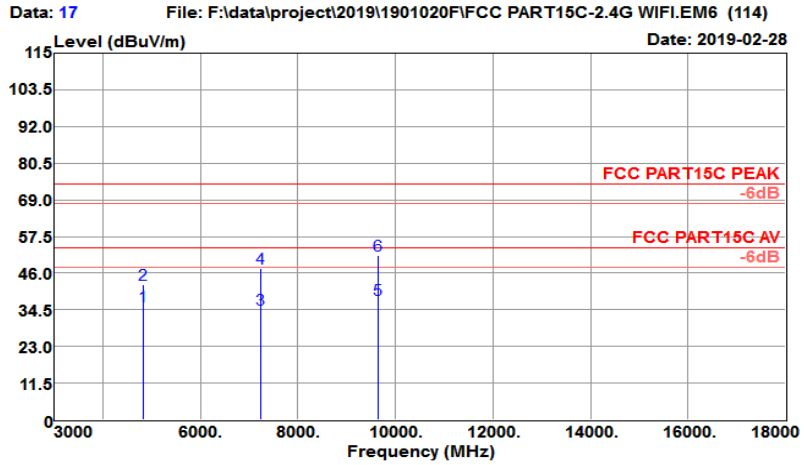
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		



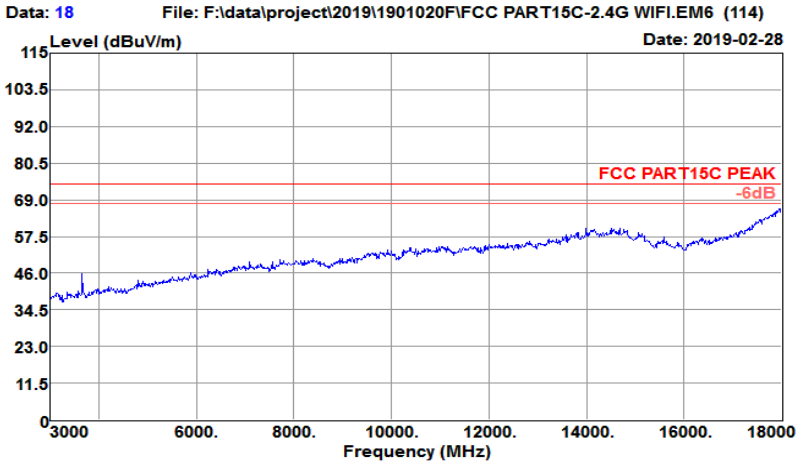
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2412.000	105.70	27.17	3.65	36.14	100.38	74.00	26.38	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4824.000	35.03	31.28	5.44	36.26	35.49	54.00	-18.51	Average
4824.000	42.05	31.28	5.44	36.26	42.51	74.00	-31.49	Peak
7236.000	25.98	35.94	7.02	34.27	34.67	54.00	-19.33	Average
7236.000	38.81	35.94	7.02	34.27	47.50	74.00	-26.50	Peak
9648.000	25.99	37.87	7.82	34.15	37.53	54.00	-16.47	Average
9648.000	39.94	37.87	7.82	34.15	51.48	74.00	-22.52	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		

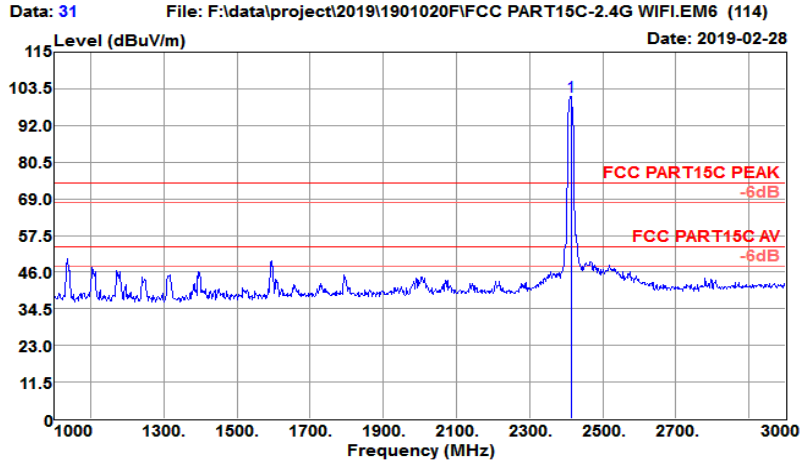


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11B Low channel:2412MHz

Vertical:

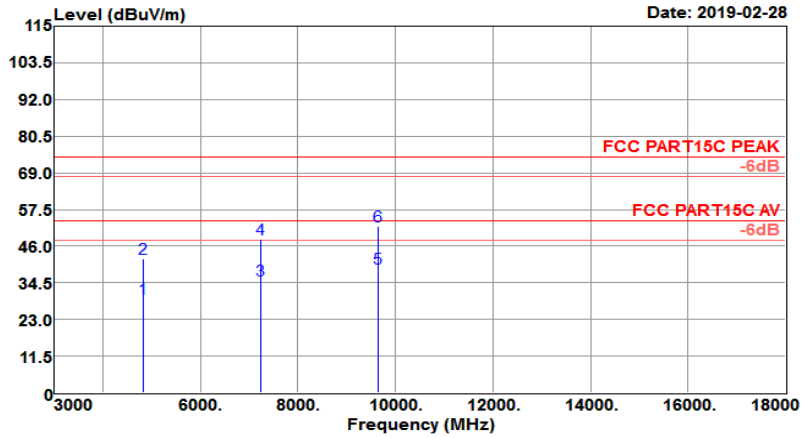
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2414.000	106.34	27.18	3.65	36.14	101.03	74.00	27.03	Peak

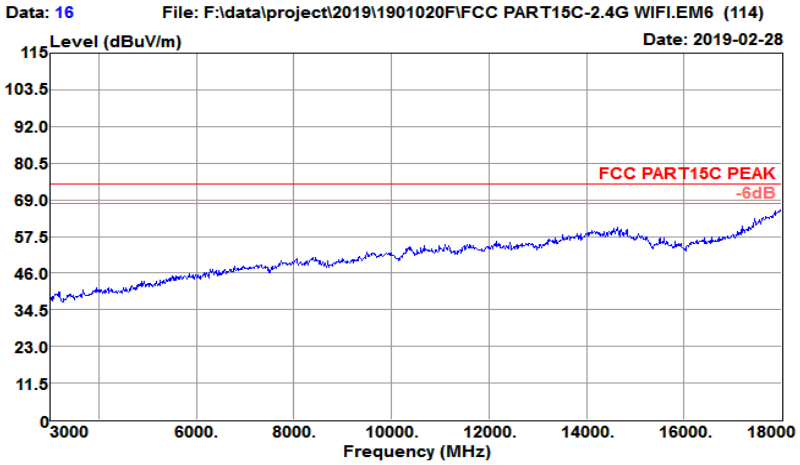
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		

Data: 15 File: F:\data\project\2019\1901020F\FCC PART15C-2.4G WIFI.EM6 (114)



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4824.000	29.01	31.28	5.44	36.26	29.47	54.00	-24.53	Average
4824.000	41.75	31.28	5.44	36.26	42.21	74.00	-31.79	Peak
7236.000	26.53	35.94	7.02	34.27	35.22	54.00	-18.78	Average
7236.000	39.35	35.94	7.02	34.27	48.04	74.00	-25.96	Peak
9648.000	27.33	37.87	7.82	34.15	38.87	54.00	-15.13	Average
9648.000	40.62	37.87	7.82	34.15	52.16	74.00	-21.84	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH01(2412MHz)		

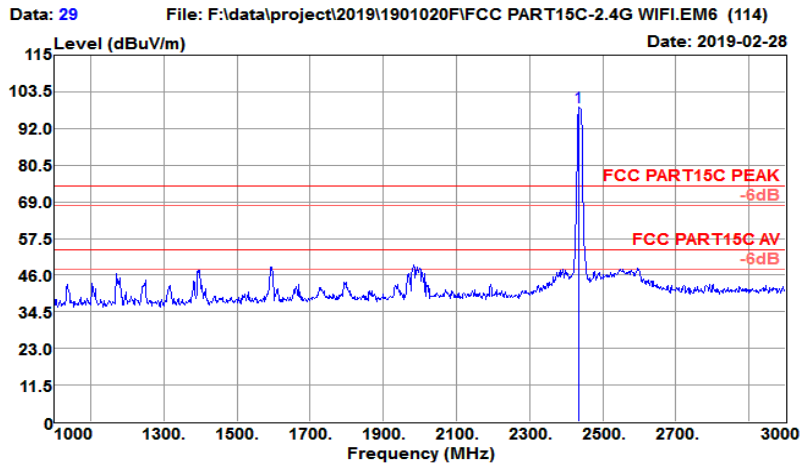


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11B Middle channel:2437MHz

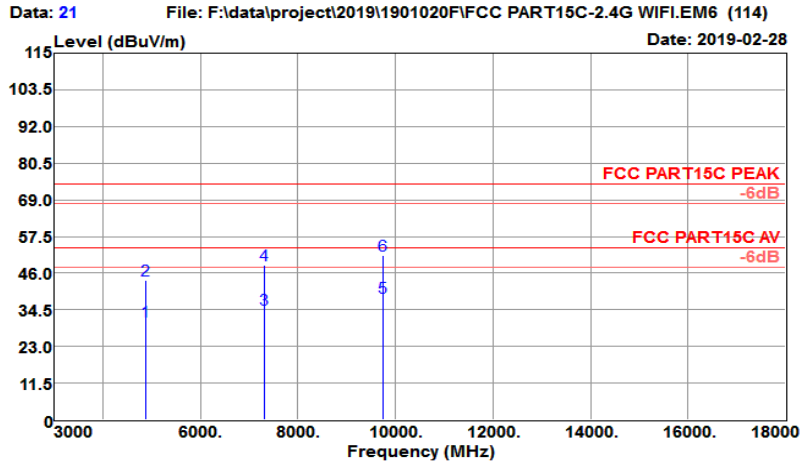
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		



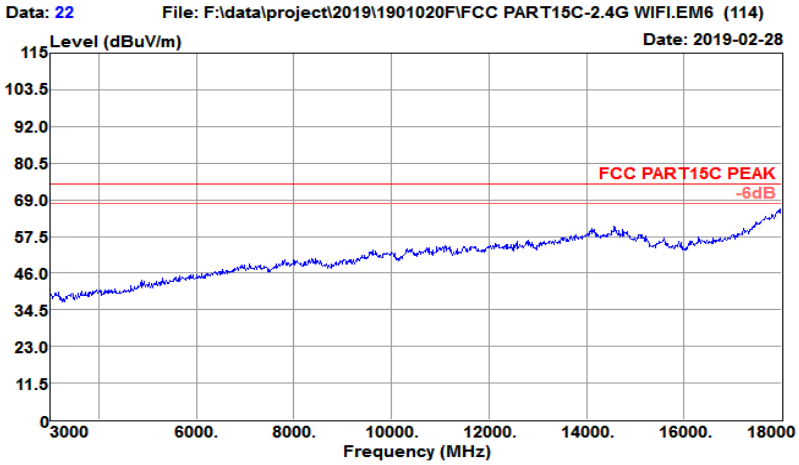
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2436.000	103.97	27.23	3.66	36.20	98.66	74.00	24.66	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	30.25	31.40	5.41	36.24	30.82	54.00	-23.18	Average
4874.000	43.13	31.40	5.41	36.24	43.70	74.00	-30.30	Peak
7311.000	25.69	36.12	7.24	34.35	34.70	54.00	-19.30	Average
7311.000	39.46	36.12	7.24	34.35	48.47	74.00	-25.53	Peak
9748.000	26.38	38.05	7.96	34.19	38.20	54.00	-15.80	Average
9748.000	39.87	38.05	7.96	34.19	51.69	74.00	-22.31	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		

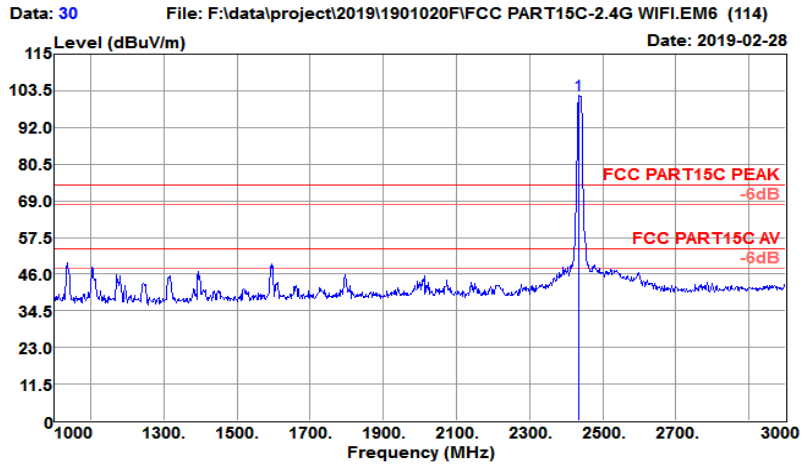


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11B Middle channel:2437MHz

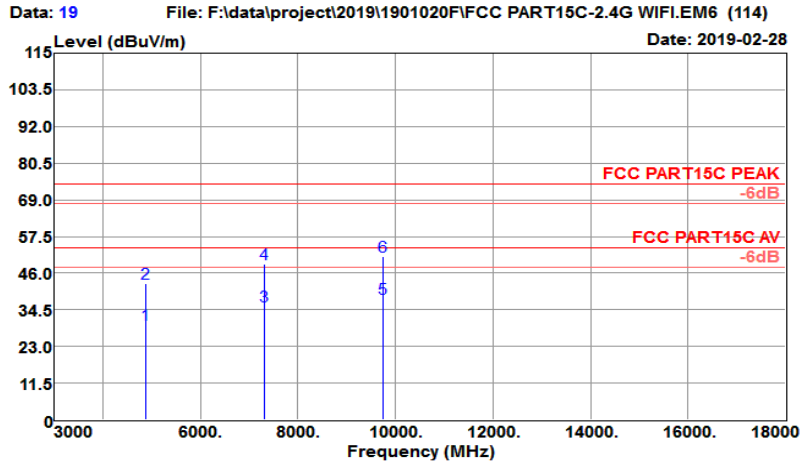
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		



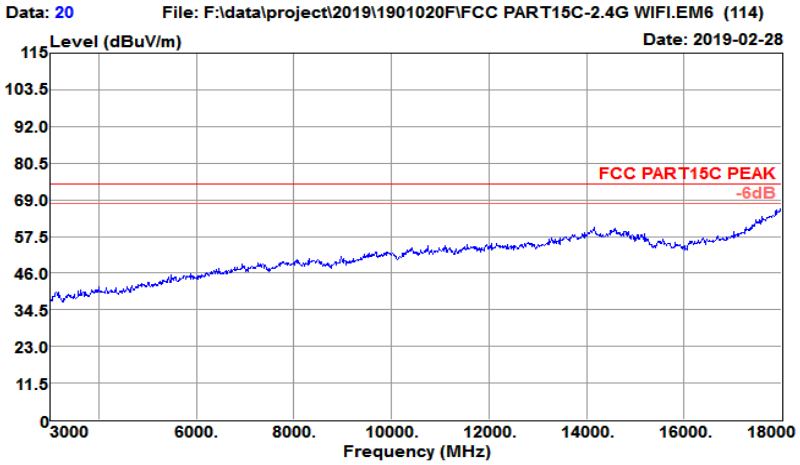
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2436.000	107.43	27.23	3.66	36.20	102.12	74.00	28.12	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.35	31.40	5.41	36.24	29.92	54.00	-24.08	Average
4874.000	42.14	31.40	5.41	36.24	42.71	74.00	-31.29	Peak
7311.000	26.58	36.12	7.24	34.35	35.59	54.00	-18.41	Average
7311.000	39.81	36.12	7.24	34.35	48.82	74.00	-25.18	Peak
9748.000	26.10	38.05	7.96	34.19	37.92	54.00	-16.08	Average
9748.000	39.37	38.05	7.96	34.19	51.19	74.00	-22.81	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH06(2437MHz)		

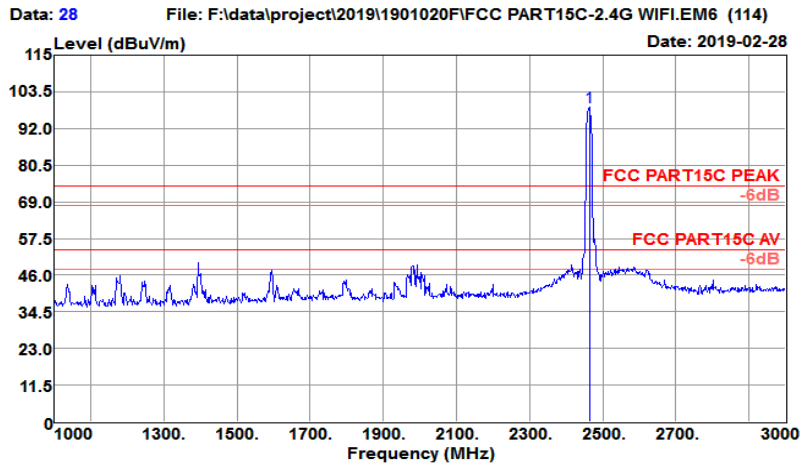


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11B High channel:2462MHz

Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2464.000	103.93	27.31	3.67	36.27	98.64	74.00	24.64	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		

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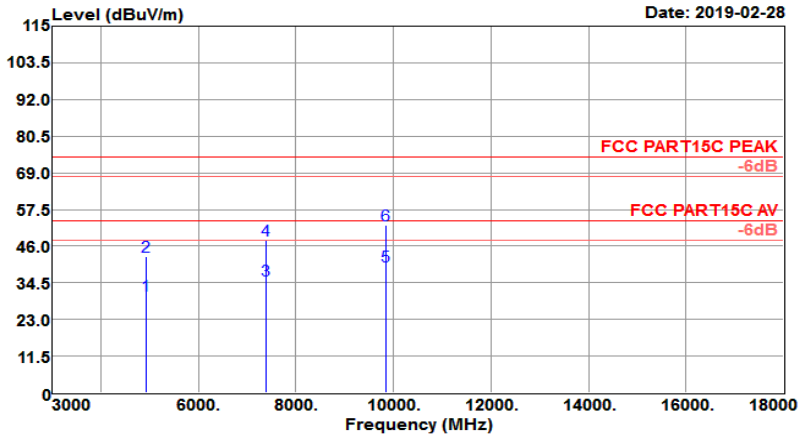
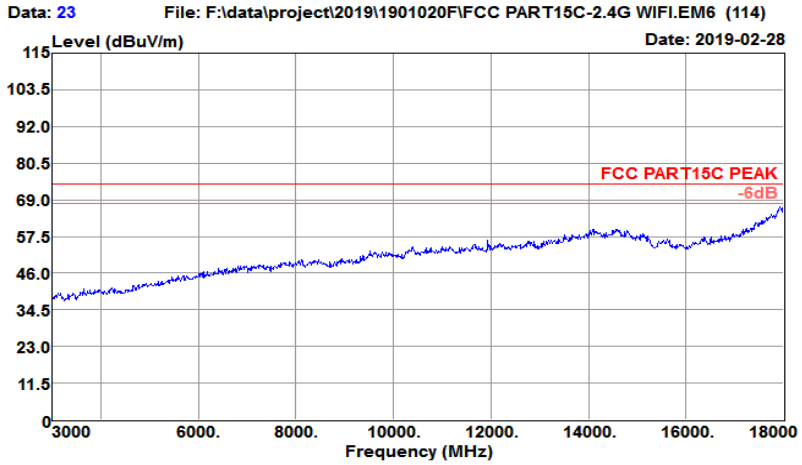


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	29.89	31.52	5.38	36.23	30.56	54.00	-23.44	Average
4924.000	42.15	31.52	5.38	36.23	42.82	74.00	-31.18	Peak
7386.000	25.96	36.29	7.46	34.42	35.29	54.00	-18.71	Average
7386.000	38.48	36.29	7.46	34.42	47.81	74.00	-26.19	Peak
9848.000	27.67	38.23	8.04	34.23	39.71	54.00	-14.29	Average
9848.000	40.51	38.23	8.04	34.23	52.55	74.00	-21.45	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		

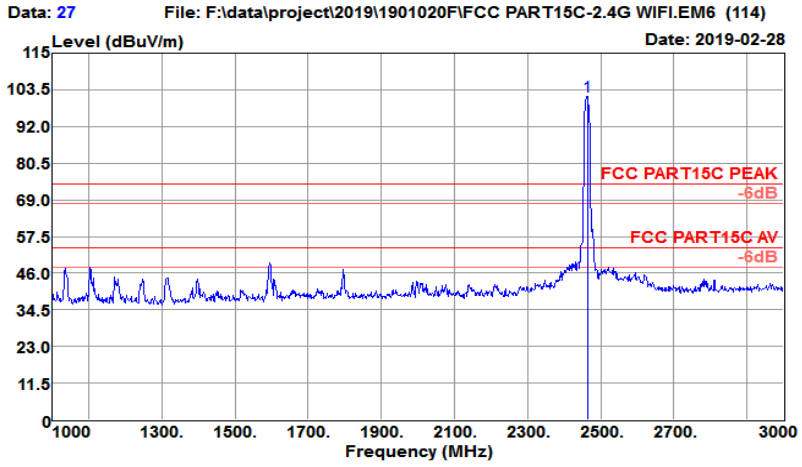


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11B High channel:2462MHz

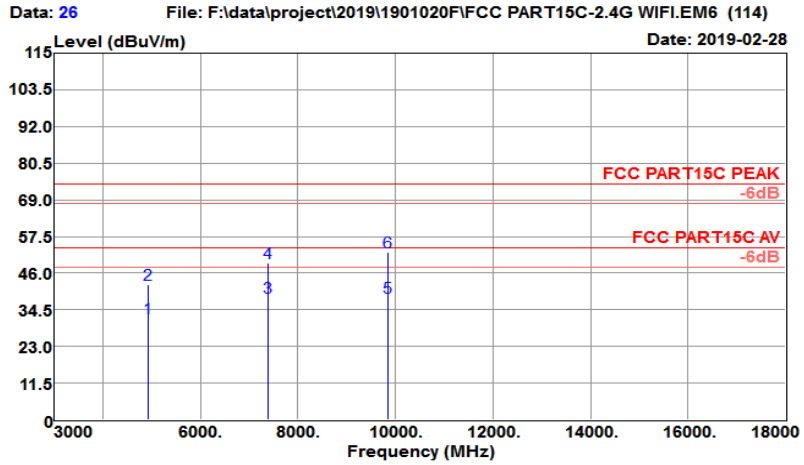
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		



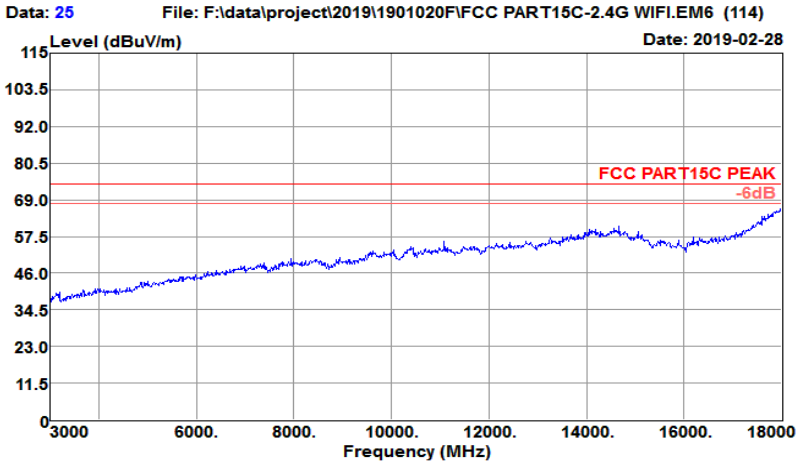
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2464.000	106.85	27.31	3.67	36.27	101.56	74.00	27.56	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	31.30	31.52	5.38	36.23	31.97	54.00	-22.03	Average
4924.000	41.87	31.52	5.38	36.23	42.54	74.00	-31.46	Peak
7386.000	29.02	36.29	7.46	34.42	38.35	54.00	-15.65	Average
7386.000	39.71	36.29	7.46	34.42	49.04	74.00	-24.96	Peak
9848.000	26.28	38.23	8.04	34.23	38.32	54.00	-15.68	Average
9848.000	40.44	38.23	8.04	34.23	52.48	74.00	-21.52	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11b CH11(2462MHz)		

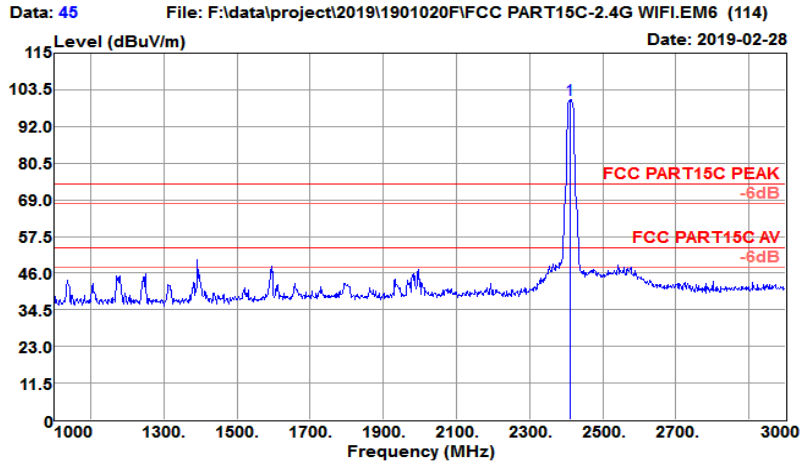


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G Low channel:2412MHz

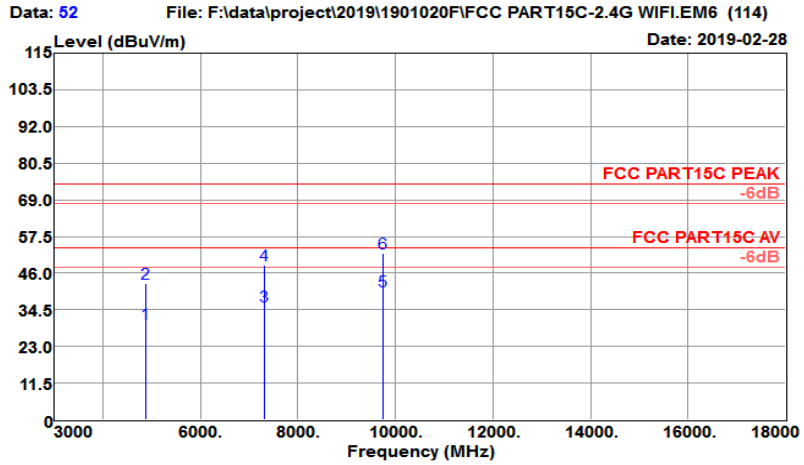
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH01(2412MHz)		



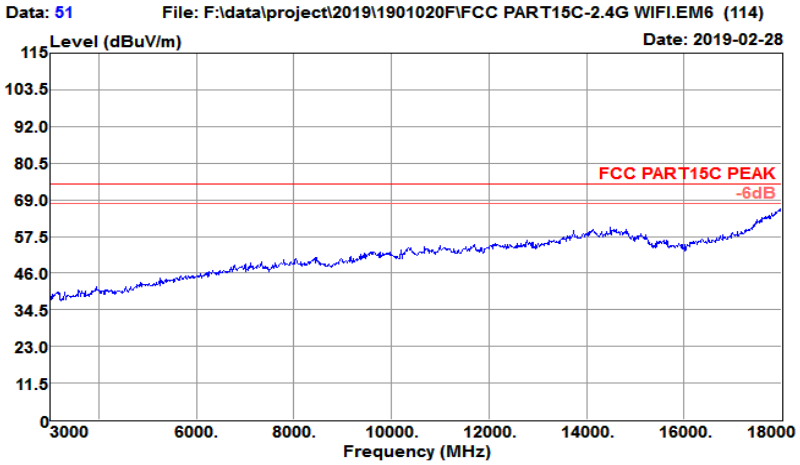
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2410.000	105.72	27.17	3.65	36.13	100.41	74.00	26.41	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.66	31.40	5.41	36.24	30.23	54.00	-23.77	Average
4874.000	42.16	31.40	5.41	36.24	42.73	74.00	-31.27	Peak
7311.000	26.75	36.12	7.24	34.35	35.76	54.00	-18.24	Average
7311.000	39.42	36.12	7.24	34.35	48.43	74.00	-25.57	Peak
9748.000	28.46	38.05	7.96	34.19	40.28	54.00	-13.72	Average
9748.000	40.56	38.05	7.96	34.19	52.38	74.00	-21.62	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		

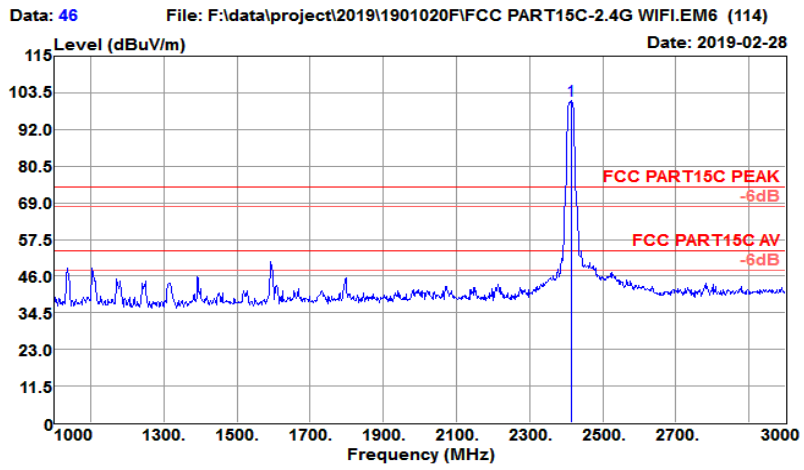


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G Low channel:2412MHz

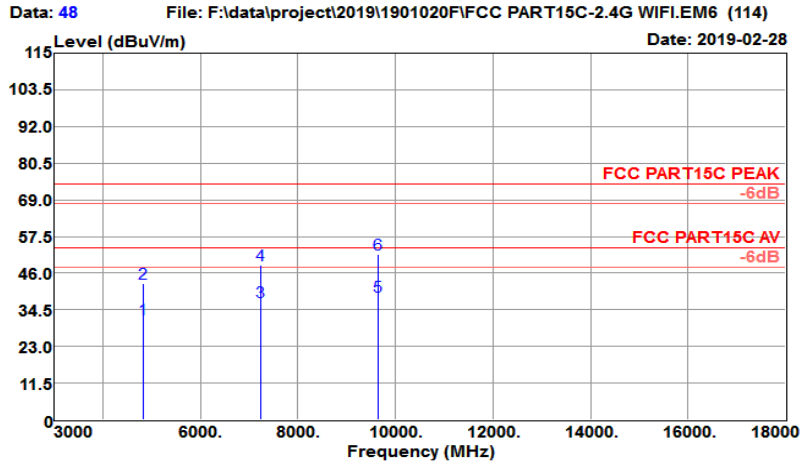
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH01(2412MHz)		



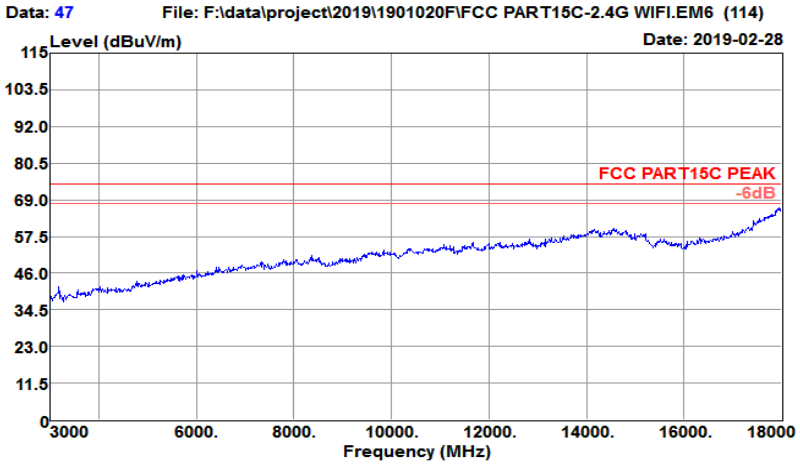
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2414.000	106.33	27.18	3.65	36.14	101.02	74.00	27.02	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH01(2412MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4824.000	30.94	31.28	5.44	36.26	31.40	54.00	-22.60	Average
4824.000	42.25	31.28	5.44	36.26	42.71	74.00	-31.29	Peak
7236.000	28.36	35.94	7.02	34.27	37.05	54.00	-16.95	Average
7236.000	39.82	35.94	7.02	34.27	48.51	74.00	-25.49	Peak
9648.000	27.17	37.87	7.82	34.15	38.71	54.00	-15.29	Average
9648.000	40.51	37.87	7.82	34.15	52.05	74.00	-21.95	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH01(2412MHz)		

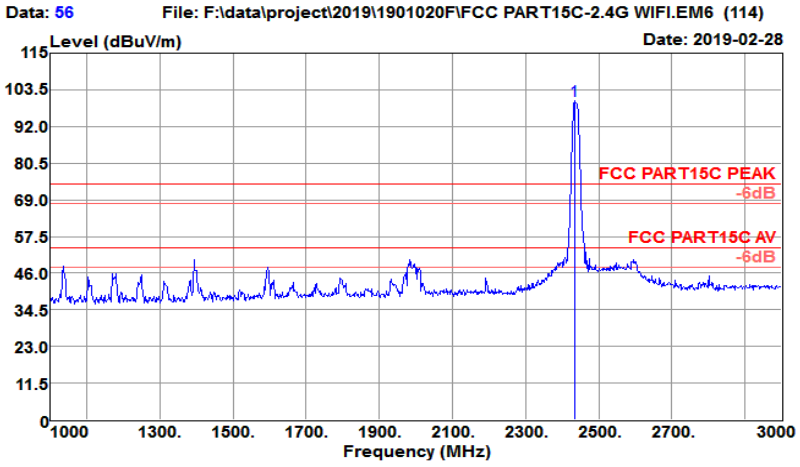


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G Middle channel:2437MHz

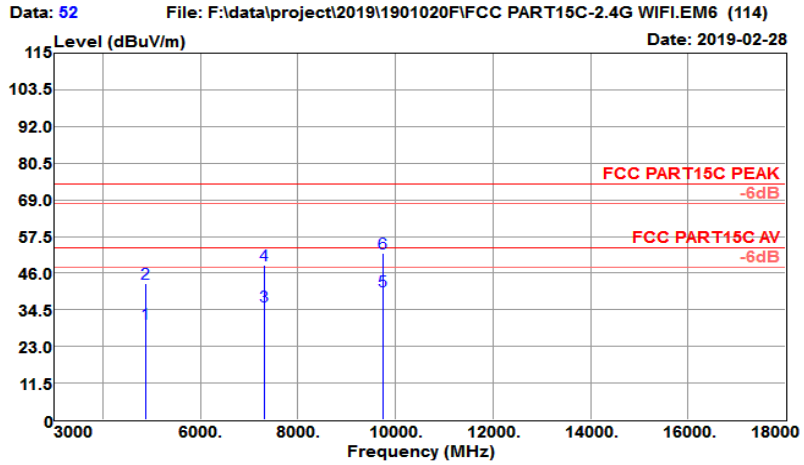
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		



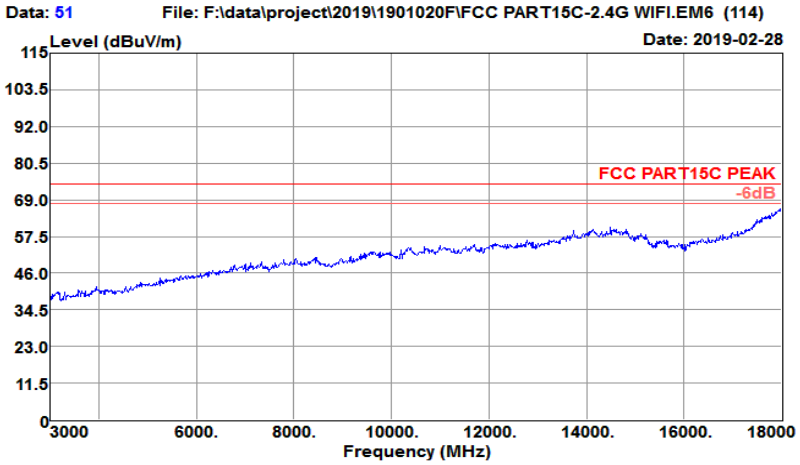
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2434.000	105.24	27.23	3.66	36.20	99.93	74.00	25.93	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.66	31.40	5.41	36.24	30.23	54.00	-23.77	Average
4874.000	42.16	31.40	5.41	36.24	42.73	74.00	-31.27	Peak
7311.000	26.75	36.12	7.24	34.35	35.76	54.00	-18.24	Average
7311.000	39.42	36.12	7.24	34.35	48.43	74.00	-25.57	Peak
9748.000	28.46	38.05	7.96	34.19	40.28	54.00	-13.72	Average
9748.000	40.56	38.05	7.96	34.19	52.38	74.00	-21.62	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		

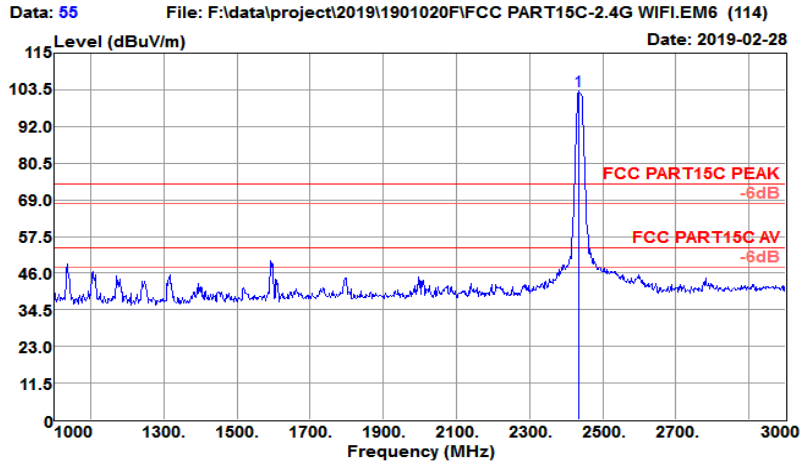


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G Middle channel:2437MHz

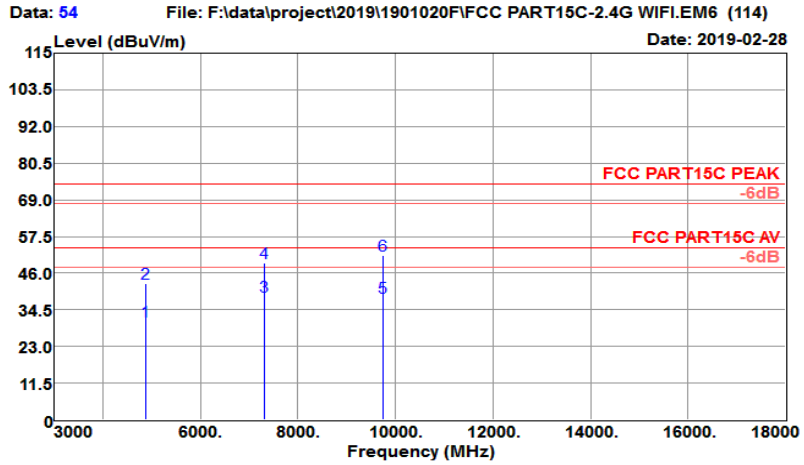
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		



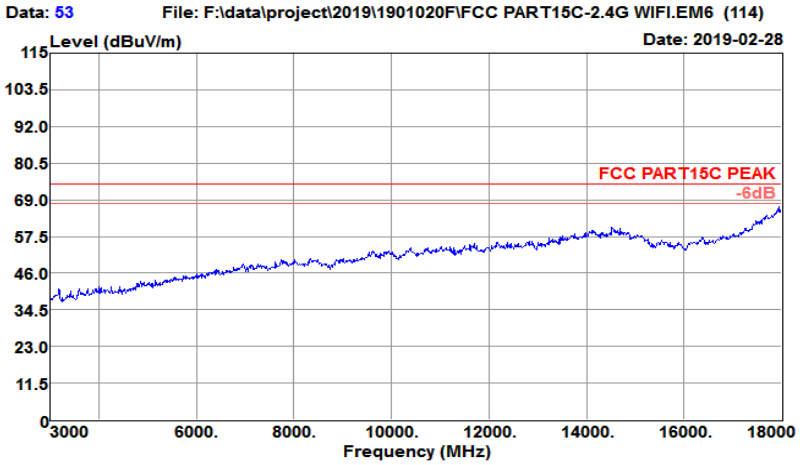
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2434.000	108.40	27.23	3.66	36.20	103.09	74.00	29.09	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	30.18	31.40	5.41	36.24	30.75	54.00	-23.25	Average
4874.000	42.17	31.40	5.41	36.24	42.74	74.00	-31.26	Peak
7311.000	29.64	36.12	7.24	34.35	38.65	54.00	-15.35	Average
7311.000	40.14	36.12	7.24	34.35	49.15	74.00	-24.85	Peak
9748.000	26.39	38.05	7.96	34.19	38.21	54.00	-15.79	Average
9748.000	39.62	38.05	7.96	34.19	51.44	74.00	-22.56	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		

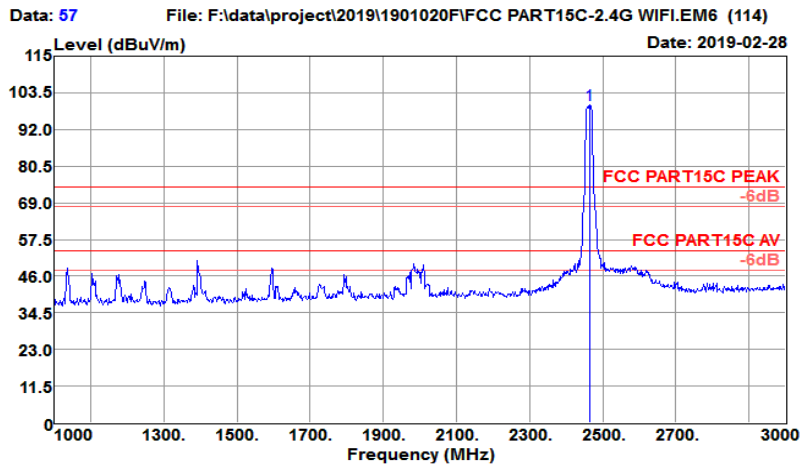


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G High channel:2462MHz

Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2464.000	104.95	27.31	3.67	36.27	99.66	74.00	25.66	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		

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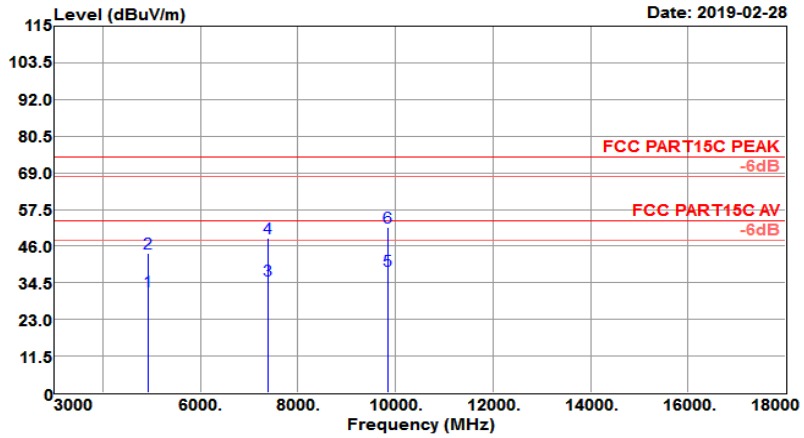
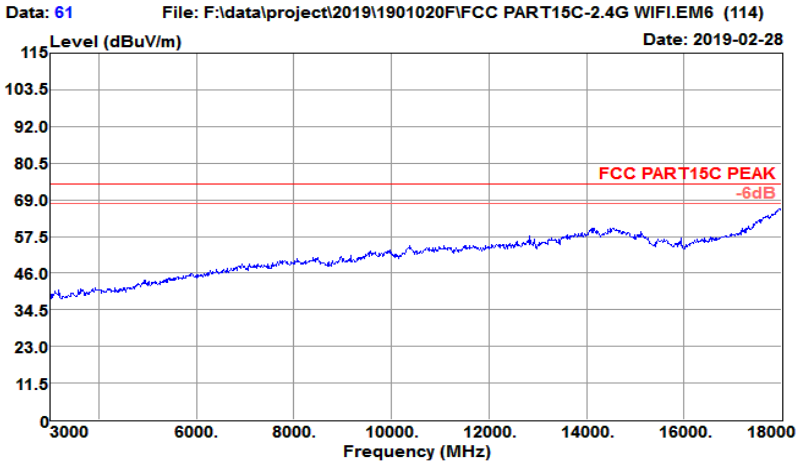


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	31.26	31.52	5.38	36.23	31.93	54.00	-22.07	Average
4924.000	43.06	31.52	5.38	36.23	43.73	74.00	-30.27	Peak
7386.000	25.89	36.29	7.46	34.42	35.22	54.00	-18.78	Average
7386.000	39.26	36.29	7.46	34.42	48.59	74.00	-25.41	Peak
9848.000	26.38	38.23	8.04	34.23	38.42	54.00	-15.58	Average
9848.000	39.97	38.23	8.04	34.23	52.01	74.00	-21.99	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		

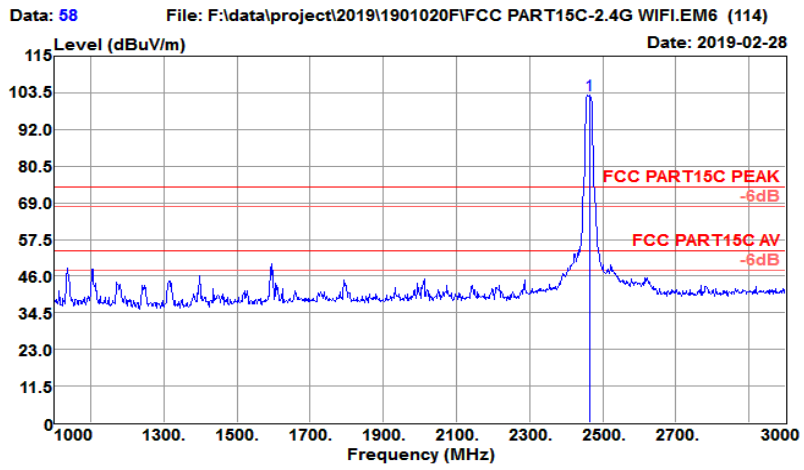


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11G High channel:2462MHz

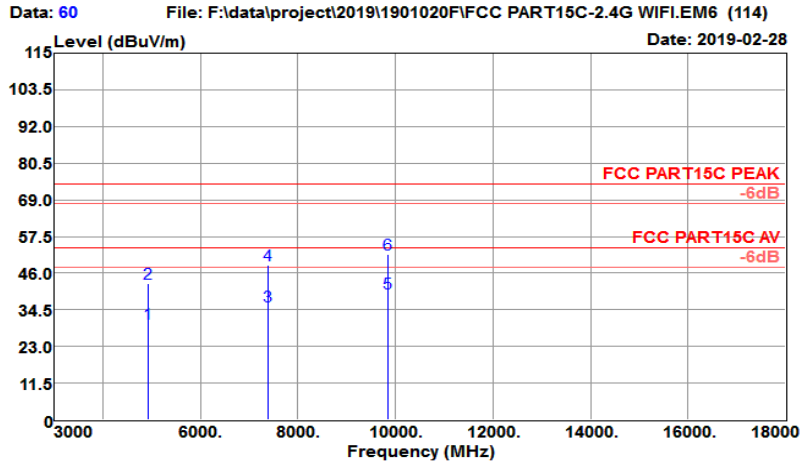
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		



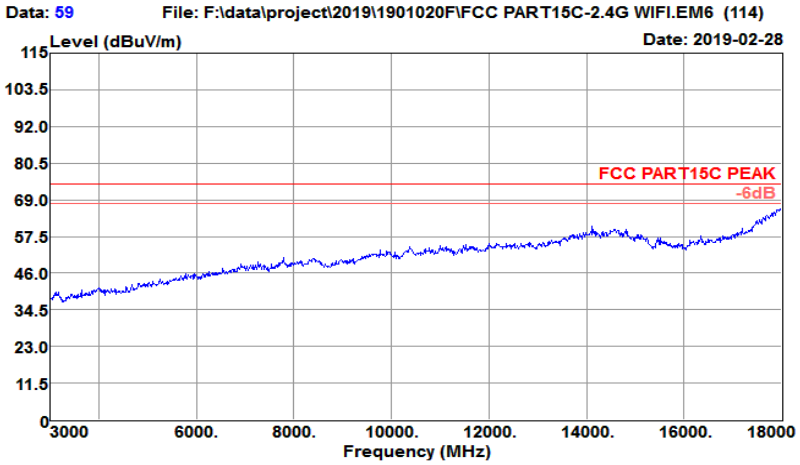
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2464.000	108.19	27.31	3.67	36.27	102.90	74.00	28.90	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	29.69	31.52	5.38	36.23	30.36	54.00	-23.64	Average
4924.000	42.08	31.52	5.38	36.23	42.75	74.00	-31.25	Peak
7386.000	26.19	36.29	7.46	34.42	35.52	54.00	-18.48	Average
7386.000	39.27	36.29	7.46	34.42	48.60	74.00	-25.40	Peak
9848.000	27.66	38.23	8.04	34.23	39.70	54.00	-14.30	Average
9848.000	39.82	38.23	8.04	34.23	51.86	74.00	-22.14	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH11(2462MHz)		

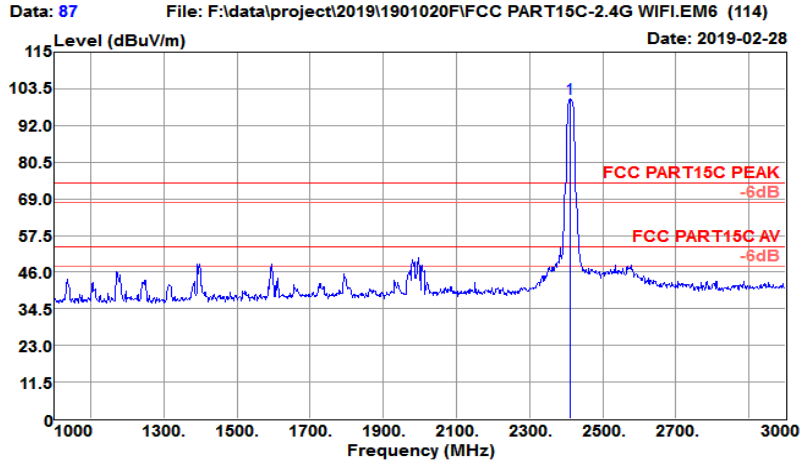


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 Low channel:2412MHz

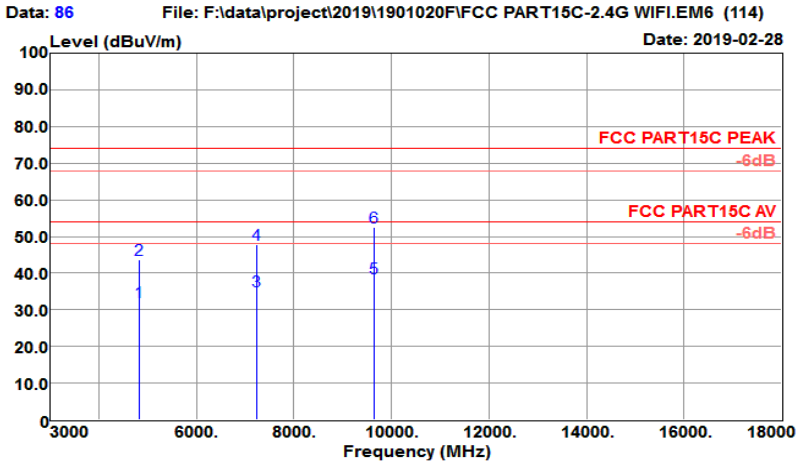
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		



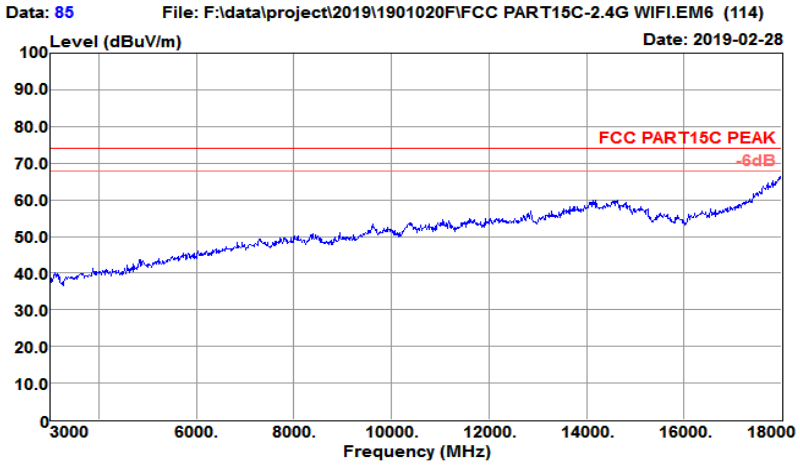
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2412.000	105.75	27.17	3.65	36.14	100.43	74.00	26.43	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4824.000	31.68	31.28	5.44	36.26	32.14	54.00	-21.86	Average
4824.000	43.15	31.28	5.44	36.26	43.61	74.00	-30.39	Peak
7236.000	26.33	35.94	7.02	34.27	35.02	54.00	-18.98	Average
7236.000	39.25	35.94	7.02	34.27	47.94	74.00	-26.06	Peak
9648.000	27.02	37.87	7.82	34.15	38.56	54.00	-15.44	Average
9648.000	40.84	37.87	7.82	34.15	52.38	74.00	-21.62	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		

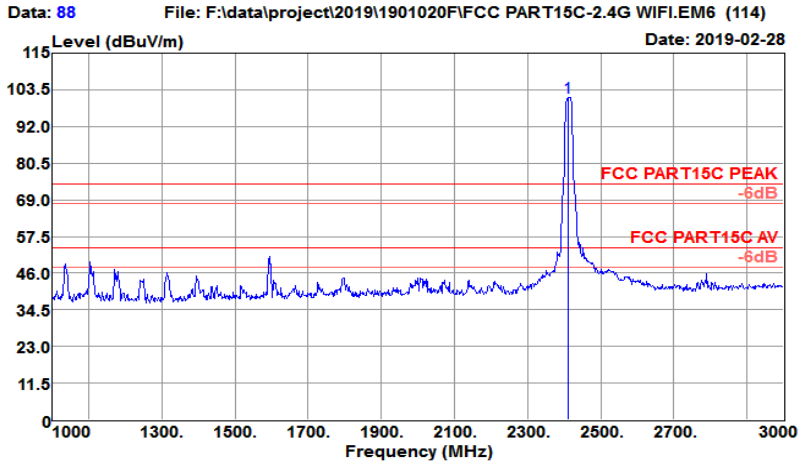


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 Low channel:2412MHz

Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2410.000	106.56	27.17	3.65	36.13	101.25	74.00	27.25	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		

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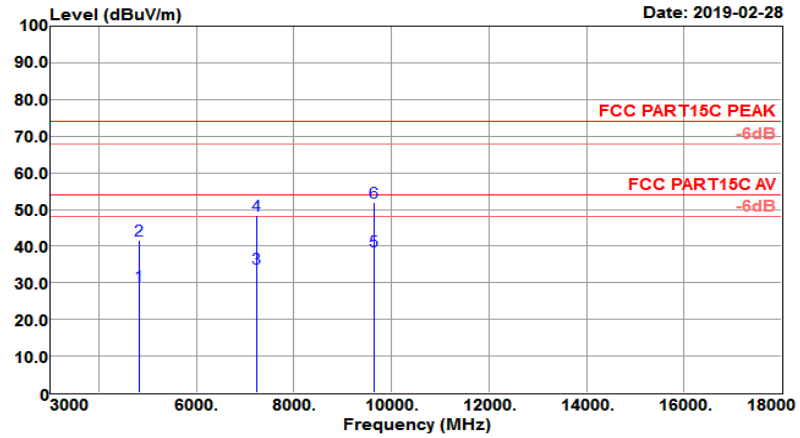
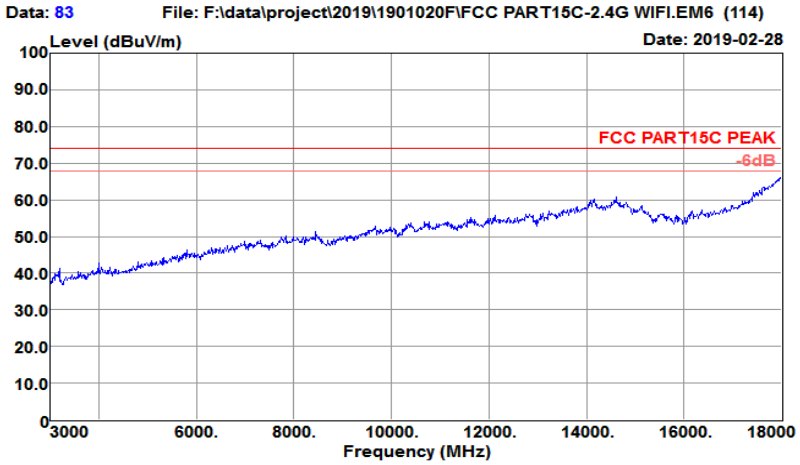


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4824.000	28.66	31.28	5.44	36.26	29.12	54.00	-24.88	Average
4824.000	41.29	31.28	5.44	36.26	41.75	74.00	-32.25	Peak
7236.000	25.39	35.94	7.02	34.27	34.08	54.00	-19.92	Average
7236.000	39.65	35.94	7.02	34.27	48.34	74.00	-25.66	Peak
9648.000	27.17	37.87	7.82	34.15	38.71	54.00	-15.29	Average
9648.000	40.35	37.87	7.82	34.15	51.89	74.00	-22.11	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH01(2412MHz)		

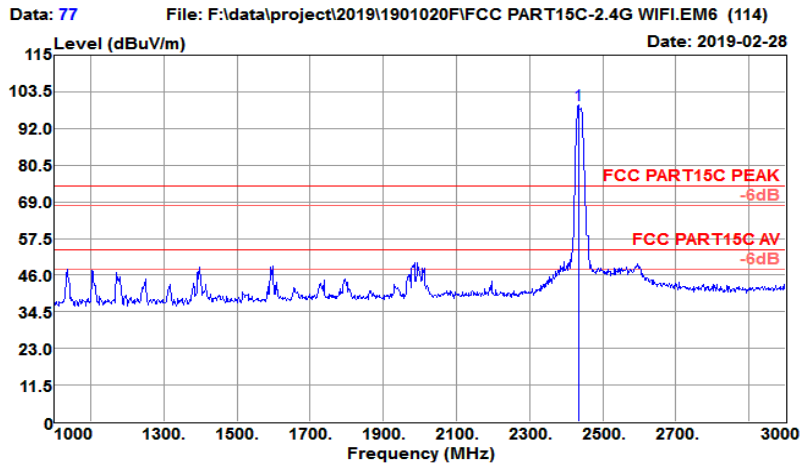


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 Middle channel:2437MHz

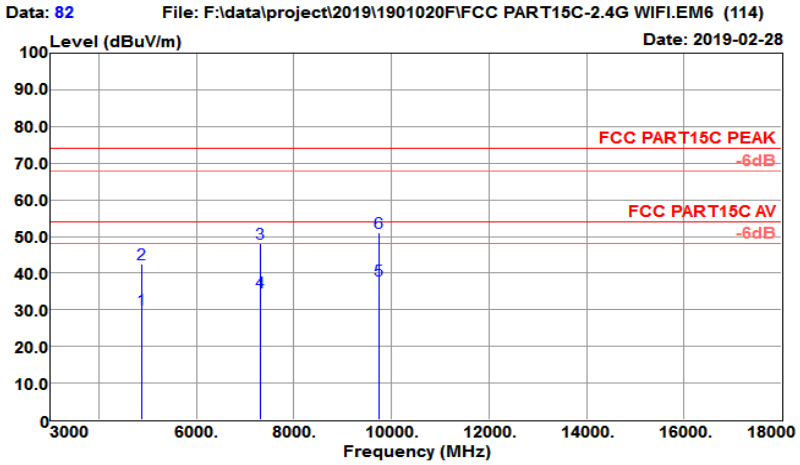
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		



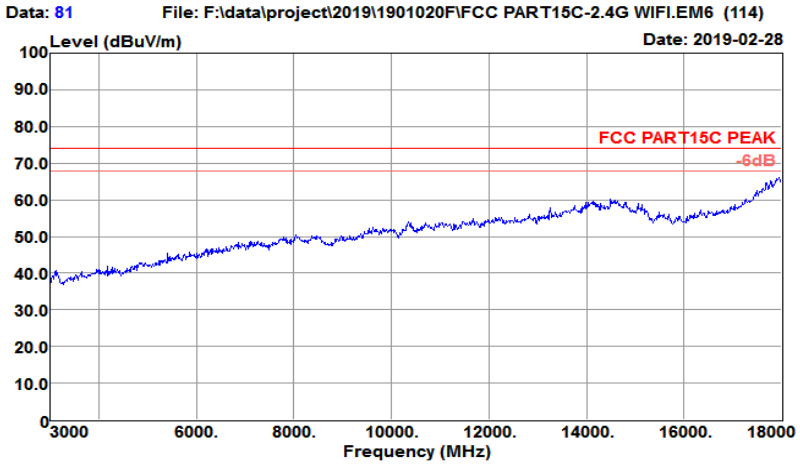
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2434.000	104.67	27.23	3.66	36.20	99.36	74.00	25.36	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.67	31.40	5.41	36.24	30.24	54.00	-23.76	Average
4874.000	41.82	31.40	5.41	36.24	42.39	74.00	-31.61	Peak
7305.000	39.12	36.10	7.22	34.34	48.10	74.00	-25.90	Peak
7311.000	25.69	36.12	7.24	34.35	34.70	54.00	-19.30	Average
9748.000	26.39	38.05	7.96	34.19	38.21	54.00	-15.79	Average
9748.000	39.14	38.05	7.96	34.19	50.96	74.00	-23.04	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		

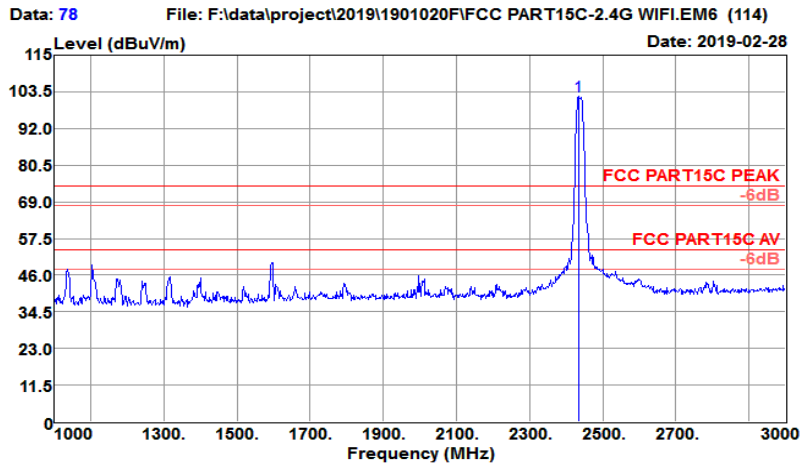


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 Middle channel:2437MHz

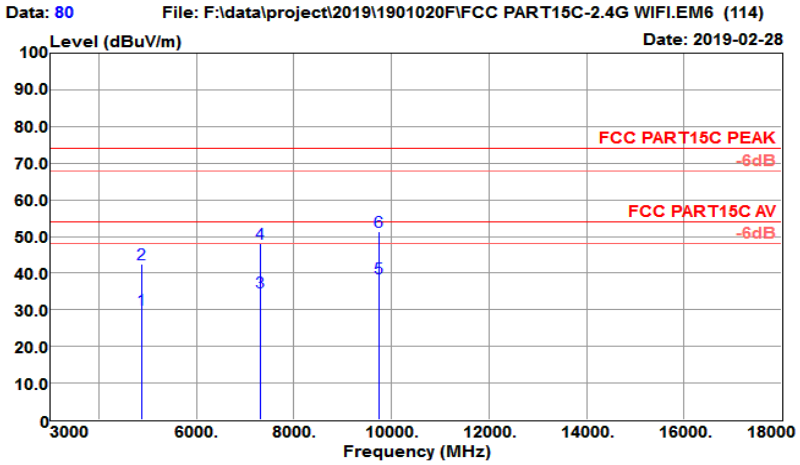
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		



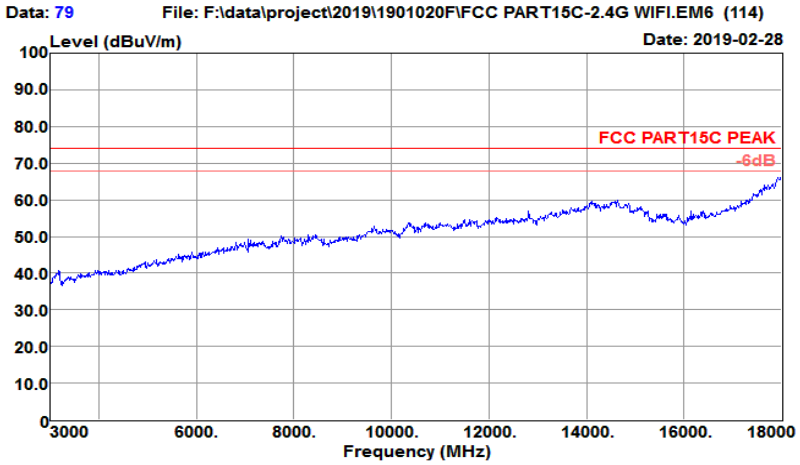
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2434.000	107.39	27.23	3.66	36.20	102.08	74.00	28.08	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.66	31.40	5.41	36.24	30.23	54.00	-23.77	Average
4874.000	42.00	31.40	5.41	36.24	42.57	74.00	-31.43	Peak
7311.000	25.68	36.12	7.24	34.35	34.69	54.00	-19.31	Average
7311.000	39.06	36.12	7.24	34.35	48.07	74.00	-25.93	Peak
9748.000	26.98	38.05	7.96	34.19	38.80	54.00	-15.20	Average
9748.000	39.43	38.05	7.96	34.19	51.25	74.00	-22.75	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH06(2437MHz)		

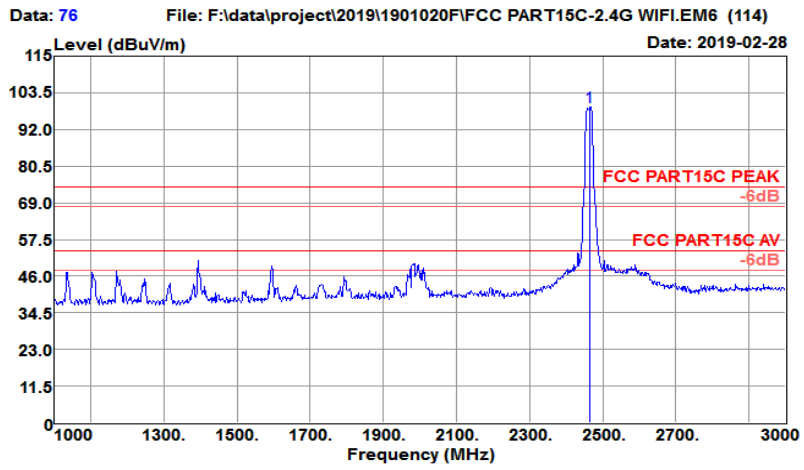


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 High channel:2462MHz

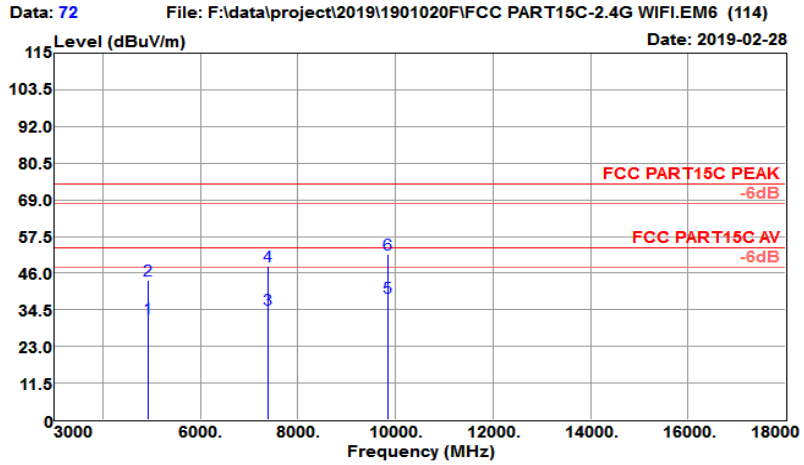
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		



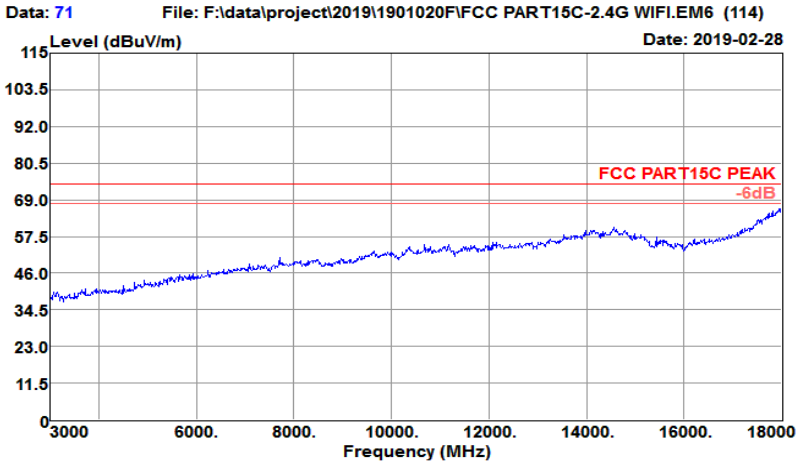
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2466.000	104.36	27.31	3.67	36.28	99.06	74.00	25.06	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	31.29	31.52	5.38	36.23	31.96	54.00	-22.04	Average
4924.000	42.94	31.52	5.38	36.23	43.61	74.00	-30.39	Peak
7386.000	25.16	36.29	7.46	34.42	34.49	54.00	-19.51	Average
7386.000	38.83	36.29	7.46	34.42	48.16	74.00	-25.84	Peak
9848.000	26.18	38.23	8.04	34.23	38.22	54.00	-15.78	Average
9848.000	39.75	38.23	8.04	34.23	51.79	74.00	-22.21	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		

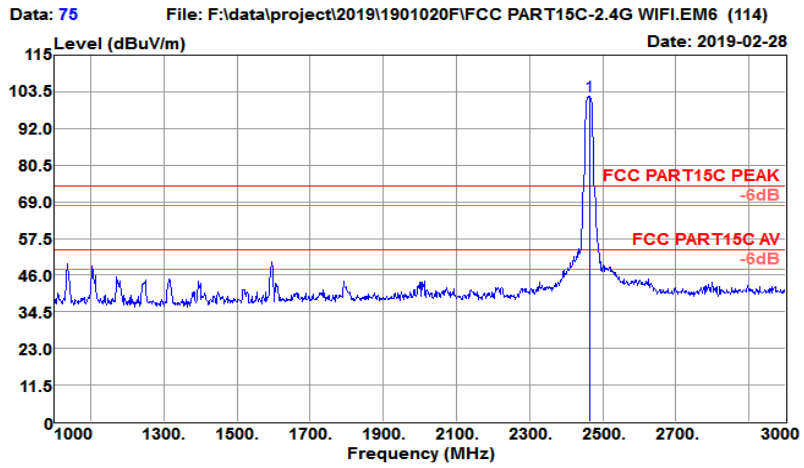


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N20 High channel:2462MHz

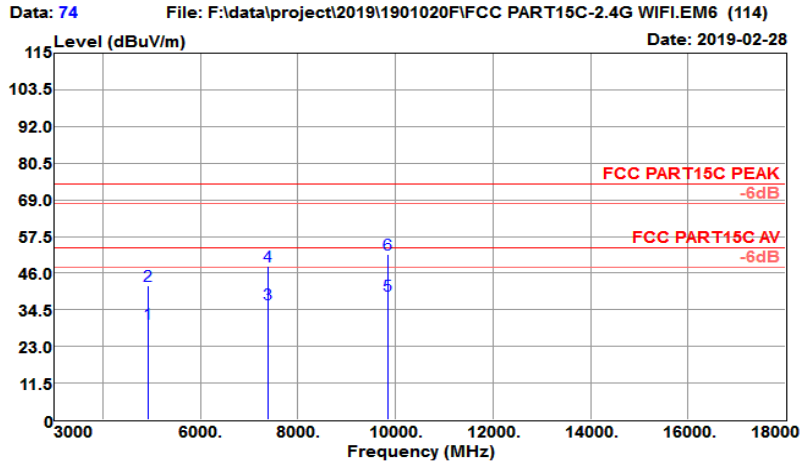
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		



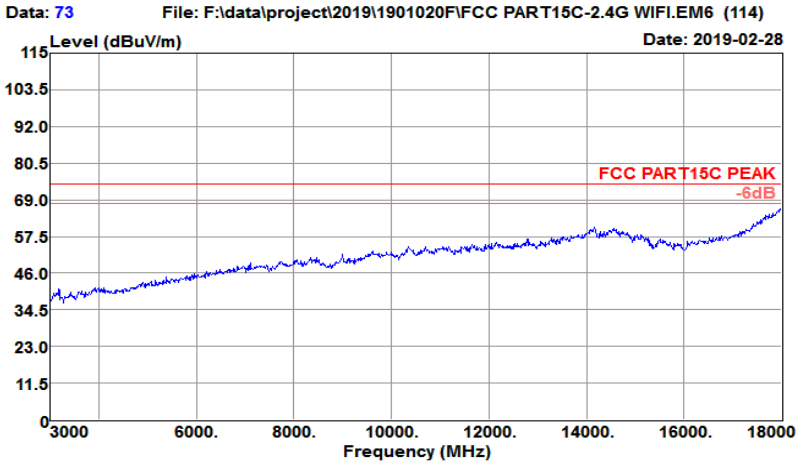
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2466.000	107.34	27.31	3.67	36.28	102.04	74.00	28.04	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4924.000	29.68	31.52	5.38	36.23	30.35	54.00	-23.65	Average
4924.000	41.33	31.52	5.38	36.23	42.00	74.00	-32.00	Peak
7386.000	26.98	36.29	7.46	34.42	36.31	54.00	-17.69	Average
7386.000	39.00	36.29	7.46	34.42	48.33	74.00	-25.67	Peak
9848.000	27.15	38.23	8.04	34.23	39.19	54.00	-14.81	Average
9848.000	39.79	38.23	8.04	34.23	51.83	74.00	-22.17	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT20 CH11(2462MHz)		

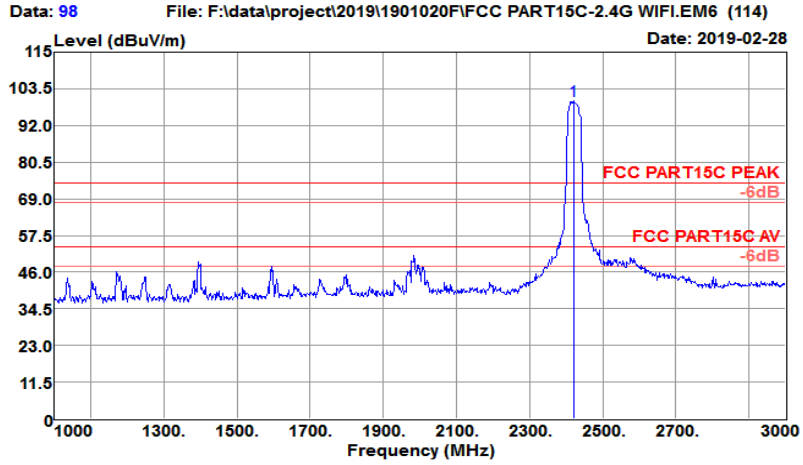


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N40 High channel:2422MHz

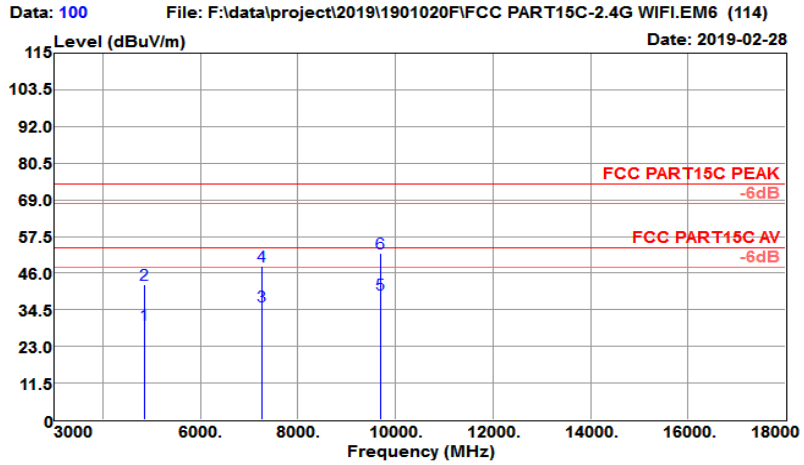
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		



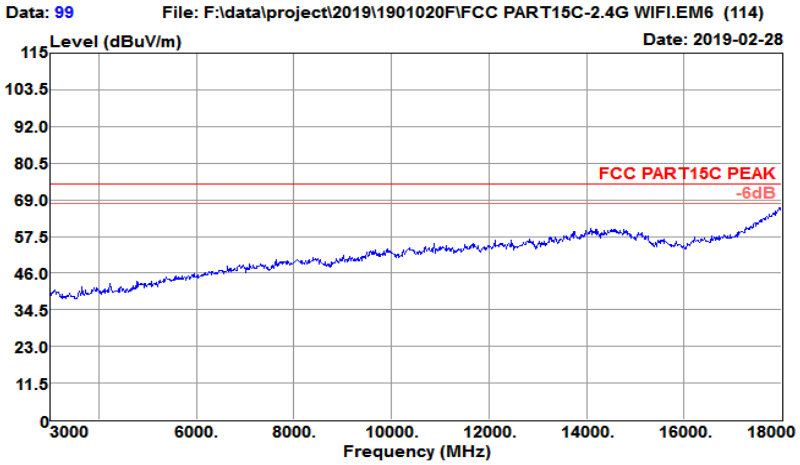
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2420.000	105.06	27.19	3.66	36.16	99.75	74.00	25.75	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4844.000	29.28	31.33	5.43	36.25	29.79	54.00	-24.21	Average
4844.000	42.04	31.33	5.43	36.25	42.55	74.00	-31.45	Peak
7266.000	26.76	36.01	7.11	34.30	35.58	54.00	-18.42	Average
7266.000	39.48	36.01	7.11	34.30	48.30	74.00	-25.70	Peak
9688.000	27.82	37.94	7.88	34.16	39.48	54.00	-14.52	Average
9688.000	40.60	37.94	7.88	34.16	52.26	74.00	-21.74	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		

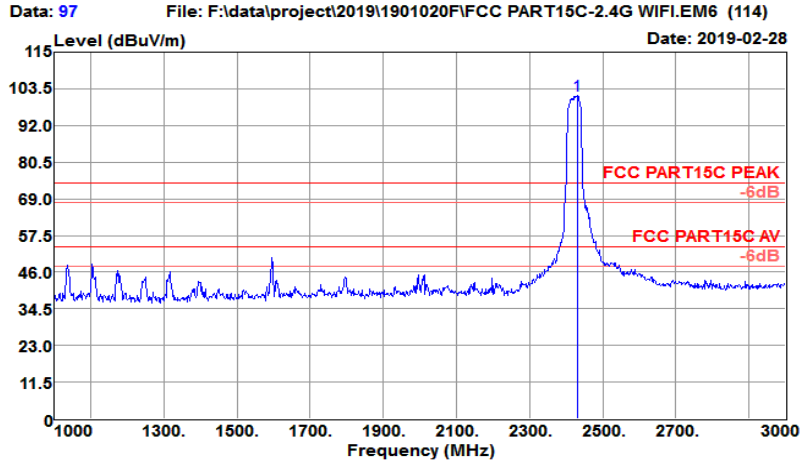


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11N40 High channel:2422MHz

Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2432.000	106.62	27.22	3.66	36.19	101.31	74.00	27.31	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		

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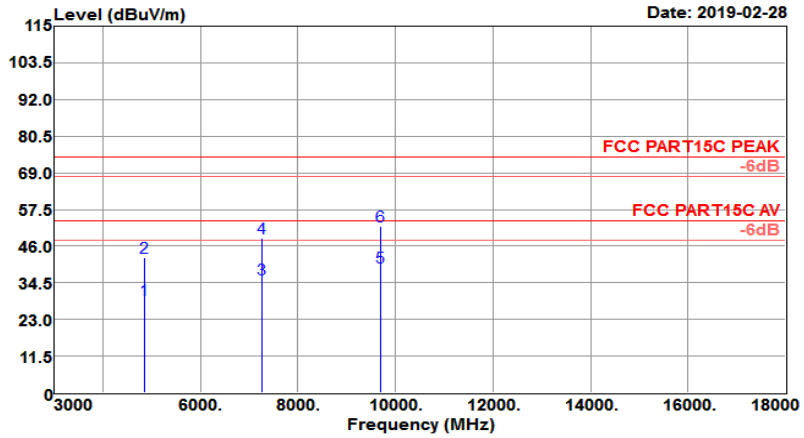
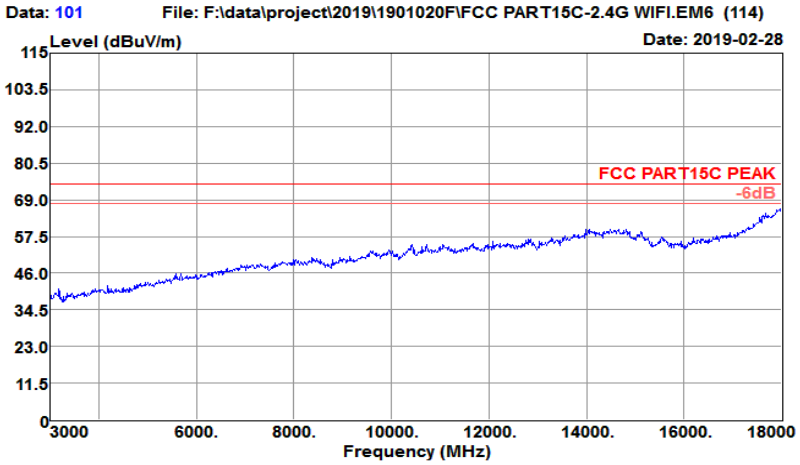


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4844.000	28.61	31.33	5.43	36.25	29.12	54.00	-24.88	Average
4844.000	41.75	31.33	5.43	36.25	42.26	74.00	-31.74	Peak
7266.000	26.77	36.01	7.11	34.30	35.59	54.00	-18.41	Average
7266.000	39.87	36.01	7.11	34.30	48.69	74.00	-25.31	Peak
9688.000	27.55	37.94	7.88	34.16	39.21	54.00	-14.79	Average
9688.000	40.59	37.94	7.88	34.16	52.25	74.00	-21.75	Peak

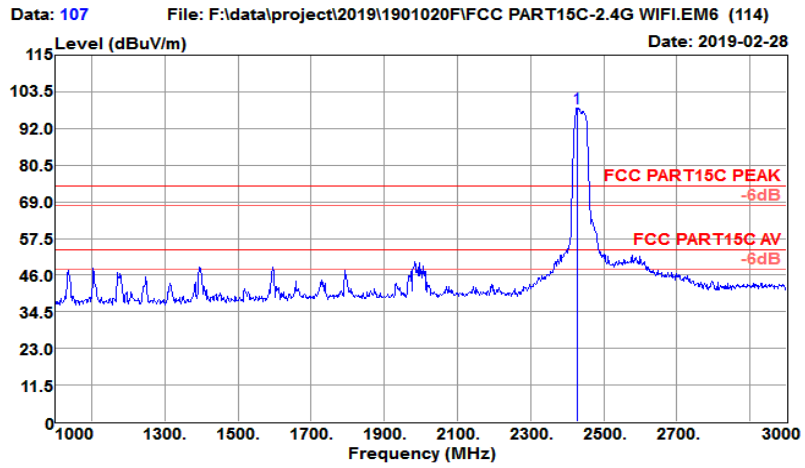
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH03(2422MHz)		



11N40 High channel:2437MHz

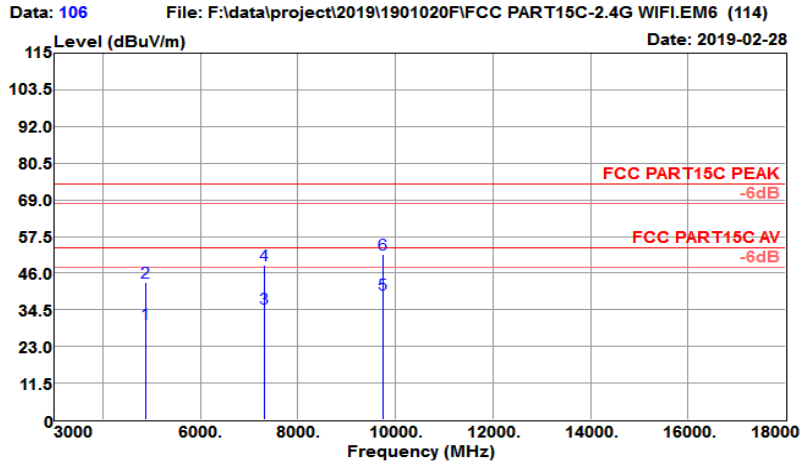
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



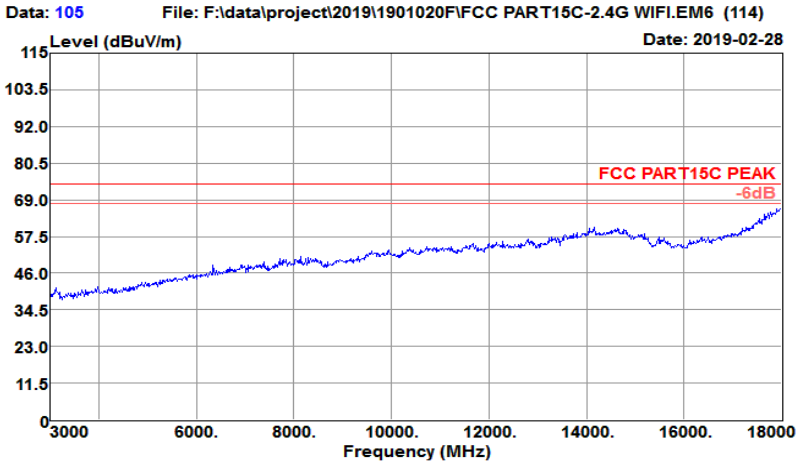
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2428.000	103.77	27.21	3.66	36.18	98.46	74.00	24.46	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.67	31.40	5.41	36.24	30.24	54.00	-23.76	Average
4874.000	42.60	31.40	5.41	36.24	43.17	74.00	-30.83	Peak
7311.000	25.98	36.12	7.24	34.35	34.99	54.00	-19.01	Average
7311.000	39.56	36.12	7.24	34.35	48.57	74.00	-25.43	Peak
9748.000	27.49	38.05	7.96	34.19	39.31	54.00	-14.69	Average
9748.000	40.14	38.05	7.96	34.19	51.96	74.00	-22.04	Peak

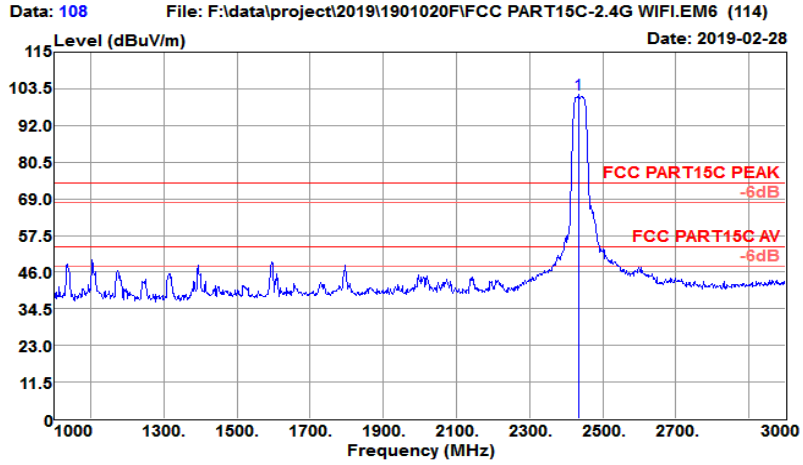
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



11N40 High channel:2437MHz

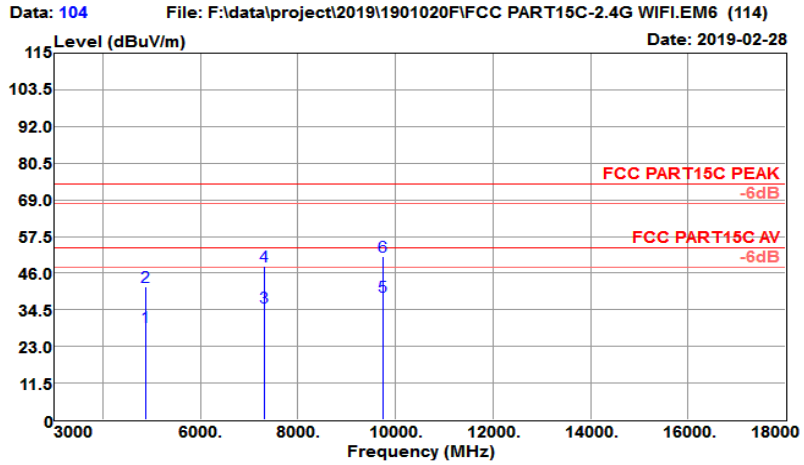
Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



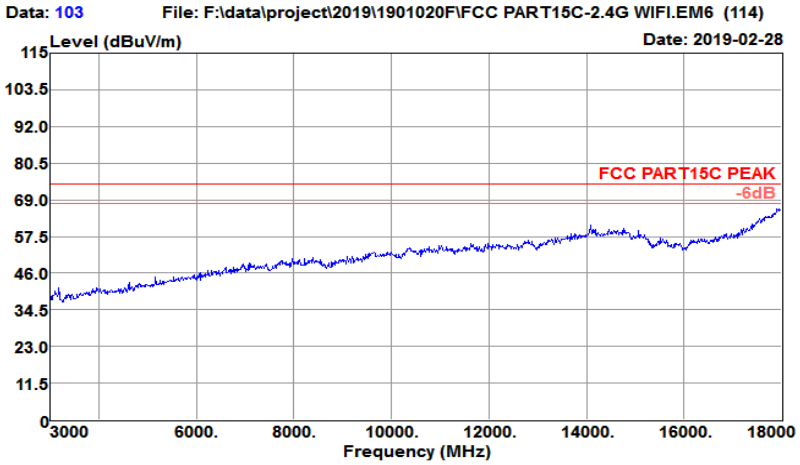
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2436.000	107.03	27.23	3.66	36.20	101.72	74.00	27.72	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4874.000	28.68	31.40	5.41	36.24	29.25	54.00	-24.75	Average
4874.000	41.18	31.40	5.41	36.24	41.75	74.00	-32.25	Peak
7311.000	26.39	36.12	7.24	34.35	35.40	54.00	-18.60	Average
7311.000	39.30	36.12	7.24	34.35	48.31	74.00	-25.69	Peak
9748.000	27.02	38.05	7.96	34.19	38.84	54.00	-15.16	Average
9748.000	39.57	38.05	7.96	34.19	51.39	74.00	-22.61	Peak

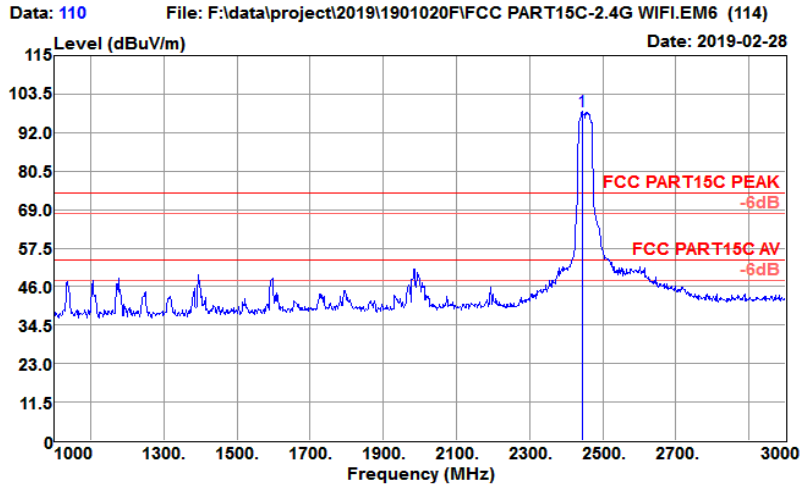
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH06(2437MHz)		



11N40 High channel:2452MHz

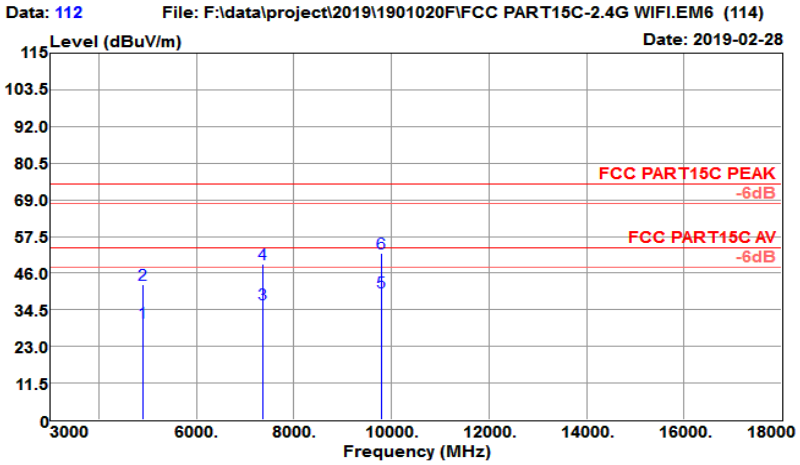
Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



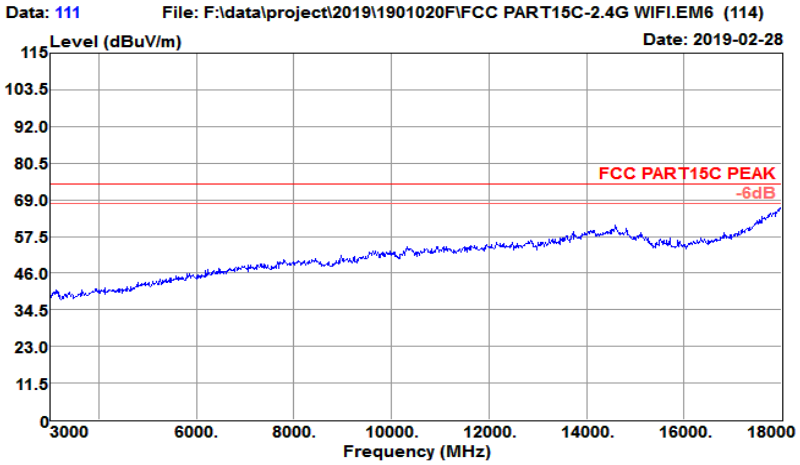
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2444.000	103.60	27.25	3.67	36.22	98.30	74.00	24.30	Peak

Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4904.000	29.96	31.47	5.39	36.23	30.59	54.00	-23.41	Average
4904.000	41.77	31.47	5.39	36.23	42.40	74.00	-31.60	Peak
7356.000	27.19	36.22	7.37	34.39	36.39	54.00	-17.61	Average
7356.000	39.52	36.22	7.37	34.39	48.72	74.00	-25.28	Peak
9808.000	28.04	38.15	8.03	34.22	40.00	54.00	-14.00	Average
9808.000	40.37	38.15	8.03	34.22	52.33	74.00	-21.67	Peak

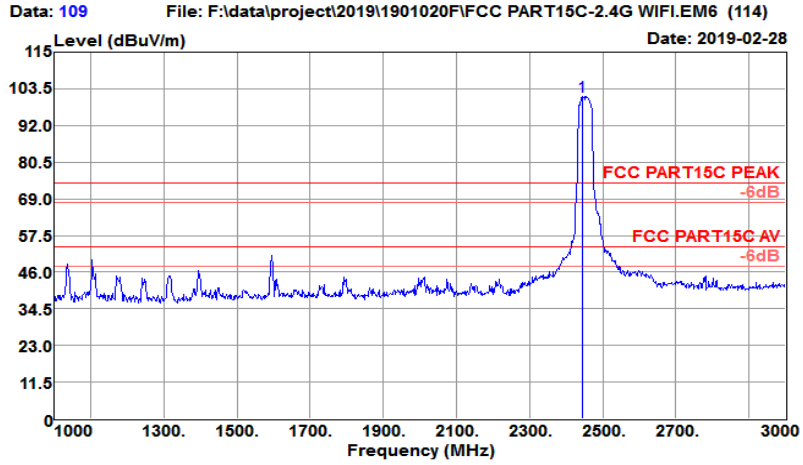
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



11N40 High channel:2452MHz

Vertical:

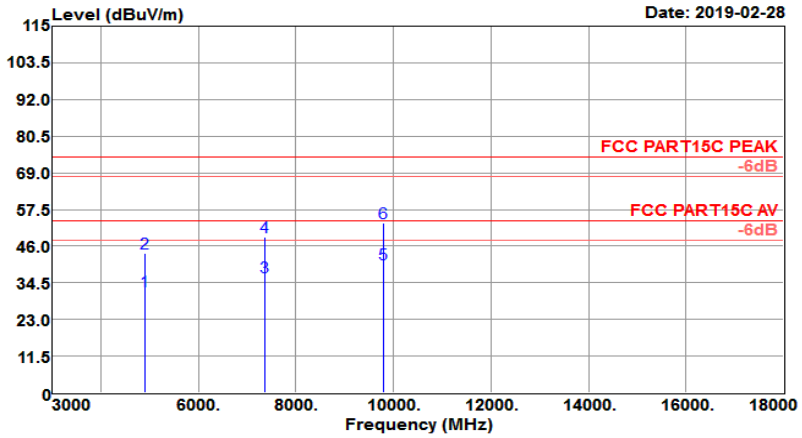
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
2444.000	106.50	27.25	3.67	36.22	101.20	74.00	27.20	Peak

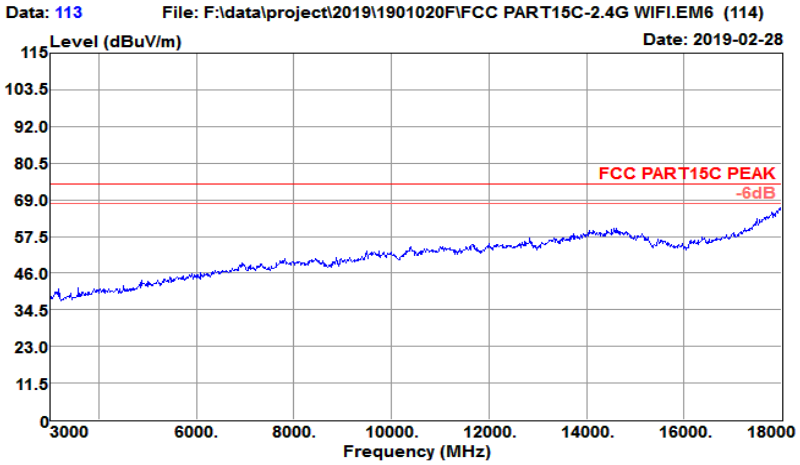
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		

Data: 114 File: F:\data\project\2019\1901020F\FCC PART15C-2.4G WIFI.EM6 (114)



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4904.000	31.29	31.47	5.39	36.23	31.92	54.00	-22.08	Average
4904.000	43.29	31.47	5.39	36.23	43.92	74.00	-30.08	Peak
7356.000	27.03	36.22	7.37	34.39	36.23	54.00	-17.77	Average
7356.000	39.54	36.22	7.37	34.39	48.74	74.00	-25.26	Peak
9808.000	28.27	38.15	8.03	34.22	40.23	54.00	-13.77	Average
9808.000	41.19	38.15	8.03	34.22	53.15	74.00	-20.85	Peak

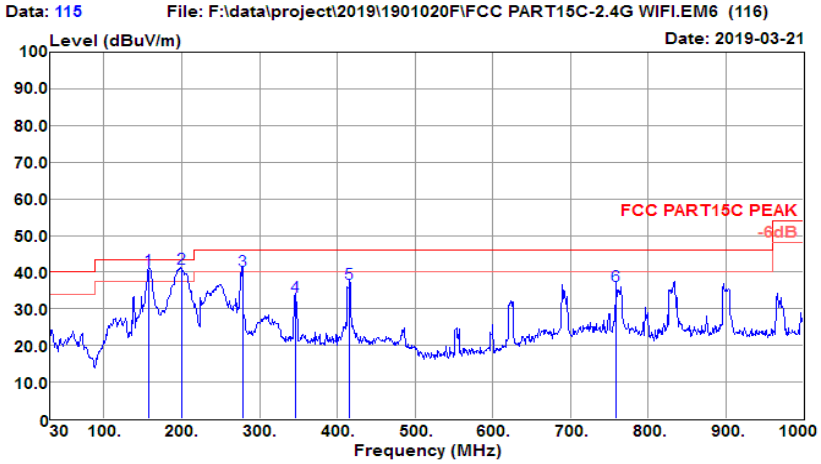
Test Site	: 3m Chamber	Temp/Humi	: 21℃/63%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11n HT40 CH09(2452MHz)		



4.5.6 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)

Horizontal:

Test Site	: 3m Chamber	Temp/Humi	: 19℃/60%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: HORIZONTAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		

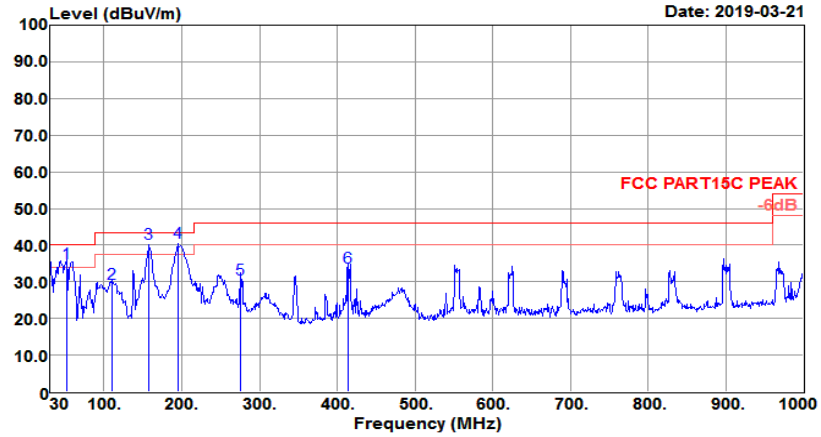


Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
158.100	56.64	14.20	2.47	32.51	40.80	43.50	-2.70	QP
199.700	60.84	9.92	2.81	32.55	41.02	43.50	-2.48	QP
278.320	57.45	12.25	3.31	32.53	40.48	46.00	-5.52	QP
347.190	48.10	13.80	3.81	32.49	33.22	46.00	-12.78	QP
416.060	50.07	15.07	4.09	32.48	36.75	46.00	-9.25	QP
759.440	42.88	20.35	5.68	32.70	36.21	46.00	-9.79	QP

Vertical:

Test Site	: 3m Chamber	Temp/Humi	: 19℃/60%
Tested by	: Damon	Power rating	: AC120V/60Hz
EUT	: all in one	Pol/Phase	: VERTICAL
Model No.	: GK-MWZE501		
Test Mode	: 802.11g CH06(2437MHz)		

Data: 116 File: F:\data\project\2019\1901020F\FCC PART15C-2.4G WIFI.EM6 (116)



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV	dBuV/m	dB	
51.340	52.85	13.39	1.41	32.58	35.07	40.00	-4.93	QP
109.540	48.88	11.15	2.05	32.45	29.63	43.50	-13.87	QP
158.040	56.41	14.20	2.47	32.51	40.57	43.50	-2.93	QP
194.900	60.30	10.21	2.79	32.55	40.75	43.50	-2.75	QP
275.410	47.64	12.16	3.28	32.53	30.55	46.00	-15.45	QP
414.120	47.32	15.04	4.08	32.48	33.96	46.00	-12.04	QP

4.6 AC Conducted Emission Measurement

4.6.1 Limit of AC Conducted Emission

FCC §15.207

IC RSS-GEN 8.8

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

4.6.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

Connect EUT to the power mains through a line impedance stabilization network (LISN).

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

The FCC states that a 50 ohm, 50 microhenry LISN should be used.

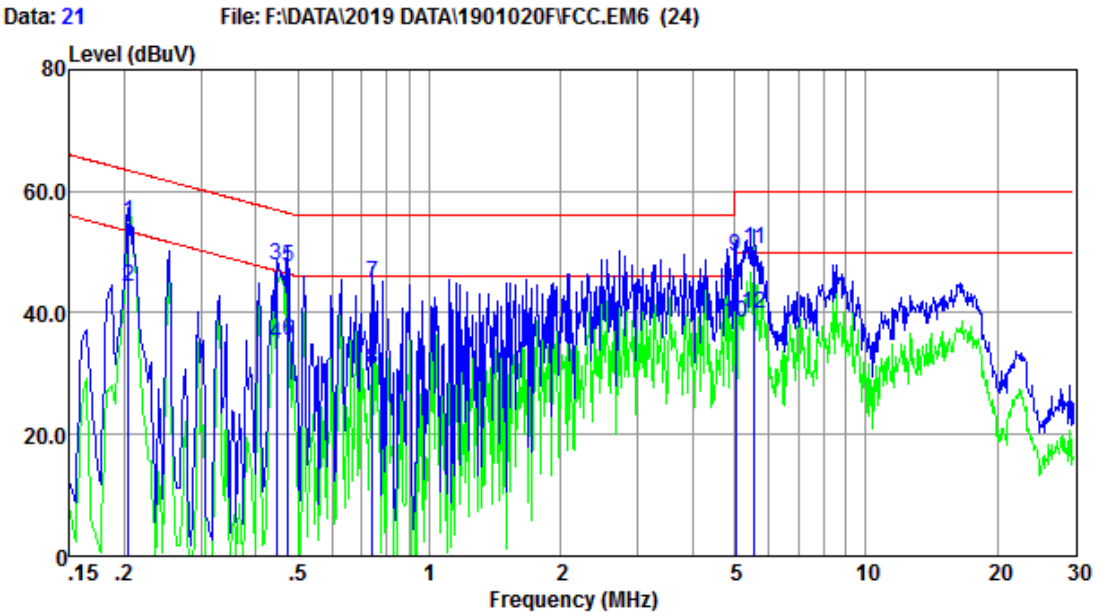
Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was searched.

Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

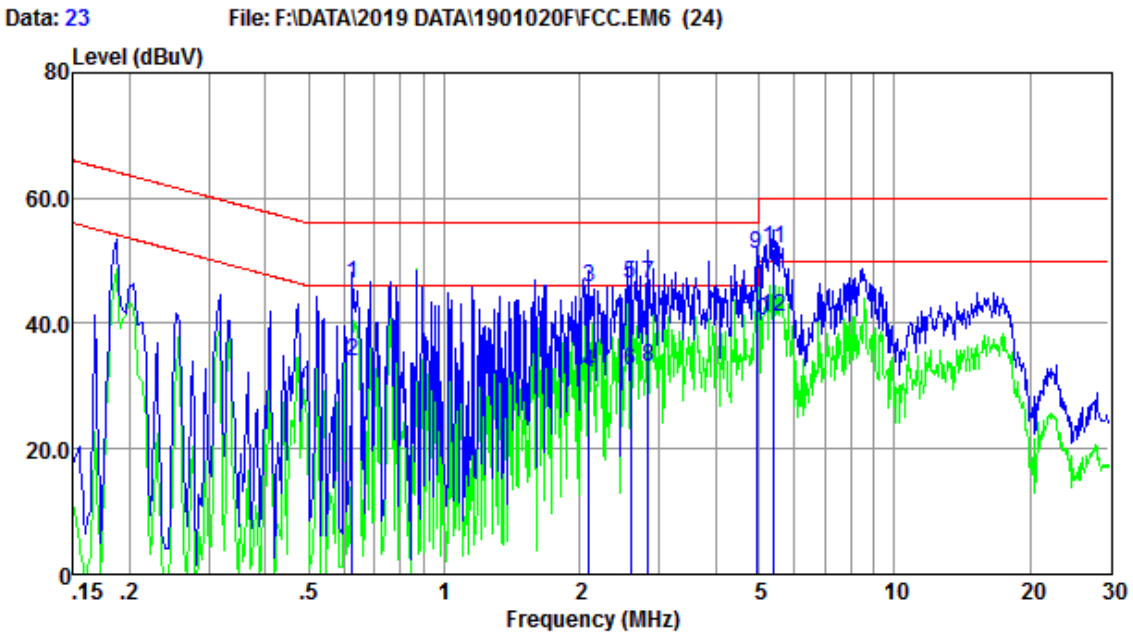
4.6.3 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Damon Zhang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Mode 1		



Freq	Reading level	LISN/ISN factor	Cable loss	level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.204	45.20	9.56	0.01	54.77	63.45	-8.68	QP
0.204	34.60	9.56	0.01	44.17	53.45	-9.28	Average
0.447	38.10	9.58	0.02	47.70	56.93	-9.23	QP
0.447	25.10	9.58	0.02	34.70	46.93	-12.23	Average
0.474	38.00	9.58	0.02	47.60	56.45	-8.85	QP
0.474	25.70	9.58	0.02	35.30	46.45	-11.15	Average
0.739	35.21	9.59	0.03	44.83	56.00	-11.17	QP
0.739	21.00	9.59	0.03	30.62	46.00	-15.38	Average
5.031	39.60	9.67	0.03	49.30	60.00	-10.70	QP
5.031	28.70	9.67	0.03	38.40	50.00	-11.60	Average
5.564	40.70	9.68	0.03	50.41	60.00	-9.59	QP
5.564	30.10	9.68	0.03	39.81	50.00	-10.19	Average

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Damon Zhang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Idel + WLAN Idel + Earphone + Cable (Charging from Adapter) + SD Card+USB flash disk+display		



Freq	Reading level	LISN/ISN factor	Cable loss		Limit level	Over limit	Remark
MHz	dBuV	dB	dB	level dBuV	dBuV	dB	
0.624	36.60	9.63	0.03	46.26	56.00	-9.74	QP
0.624	24.20	9.63	0.03	33.86	46.00	-12.14	Average
2.099	36.10	9.65	0.03	45.78	56.00	-10.22	QP
2.099	22.40	9.65	0.03	32.08	46.00	-13.92	Average
2.594	36.60	9.66	0.03	46.29	56.00	-9.71	QP
2.594	22.80	9.66	0.03	32.49	46.00	-13.51	Average
2.839	36.70	9.67	0.03	46.40	56.00	-9.60	QP
2.839	23.30	9.67	0.03	33.00	46.00	-13.00	Average
4.926	41.20	9.72	0.03	50.95	56.00	-5.05	QP
4.926	30.60	9.72	0.03	40.35	46.00	-5.65	Average
5.390	42.20	9.73	0.03	51.96	60.00	-8.04	QP
5.390	31.30	9.73	0.03	41.06	50.00	-8.94	Average

4.7 Antenna Requirements

4.7.1 Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded..

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 Antenna Connected Construction

An embedded-in antenna design is used.

4.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2019/1/23	2020/1/22	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2019/1/23	2020/1/22	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2019/1/23	2020/1/22	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2019/1/23	2020/1/22	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2019/1/23	2020/1/22	Conducted
Thermal Chamber	Sanmtest	SMC-408-CD	2435	2018/7/5	2019/7/4	Conducted
Base Station	R&S	CMW 270	101231	2019/1/23	2020/1/22	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2018/04/10	2019/04/09	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2019/1/23	2020/1/22	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2019/2/18	2020/2/17	Radiation
Amplifier	Sonoma	310	363917	2019/1/22	2020/1/21	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2019/1/22	2020/1/21	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2018/7/18	2019/7/17	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2017/3/3	2020/3/2	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2017-03-03	2020-03-02	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2017-03-03	2020-03-02	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2018-06-20	2021-06-19	Radiation
Test Software	Auidx	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation

N/A: No Calibration Required

6 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.67dB
Radiated emissions	30MHz ~ 1GMHz	5.05dB
	1GHz ~ 18GHz	5.06 dB
	18GHz ~ 40GHz	3.65dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

----------End of the report----------