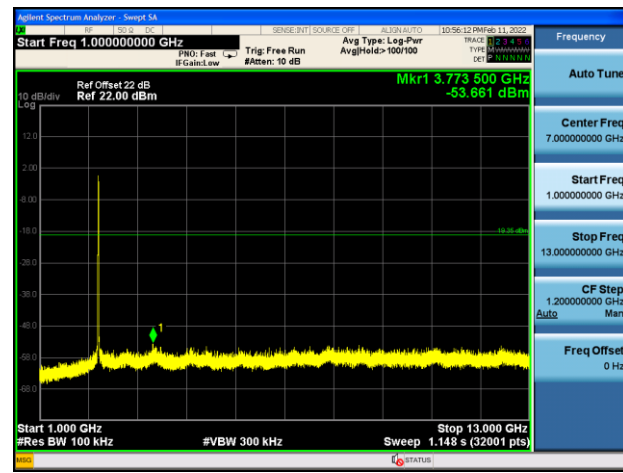
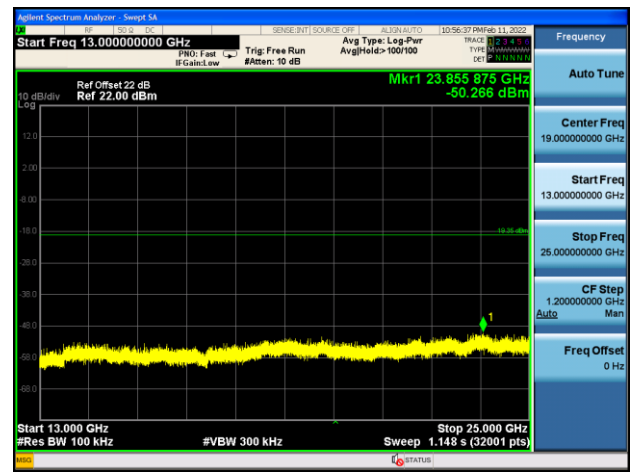


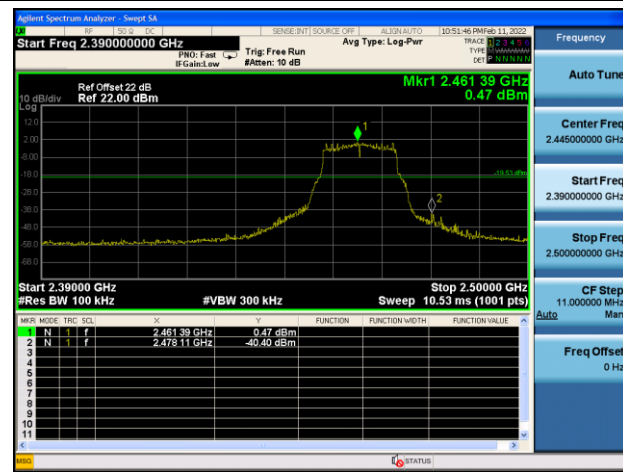
802.11 g CH06 (2437MHz)



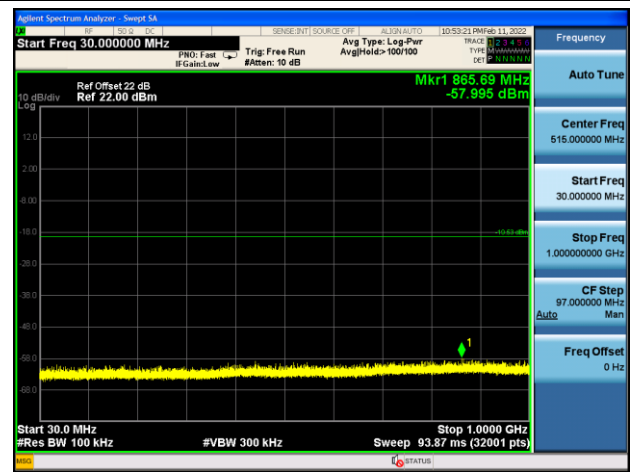
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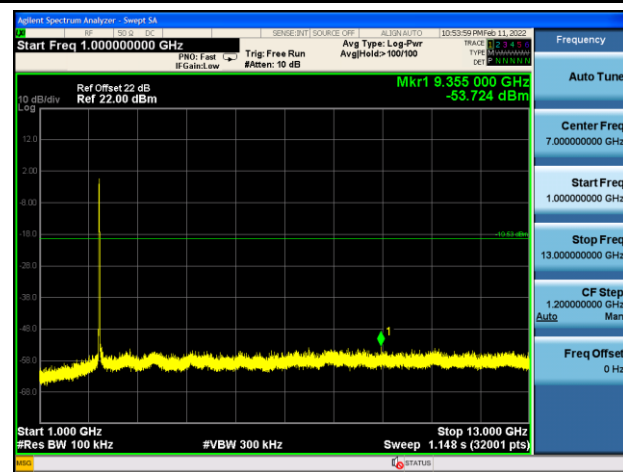
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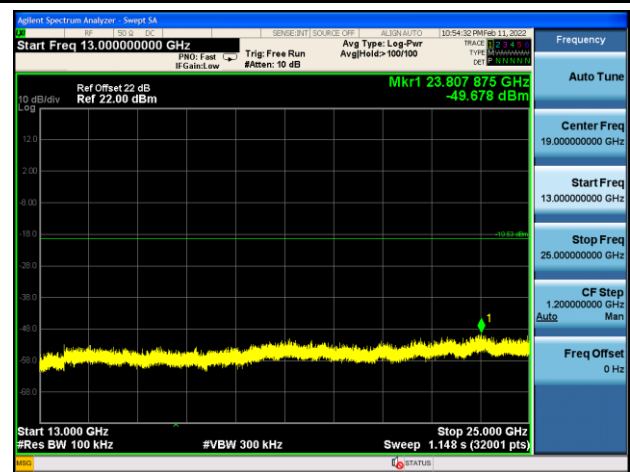
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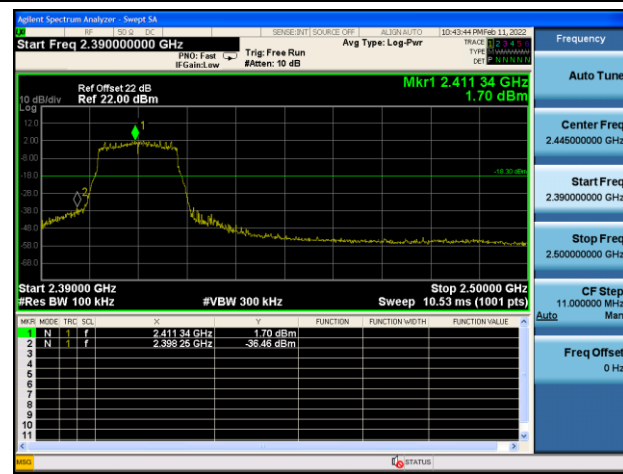
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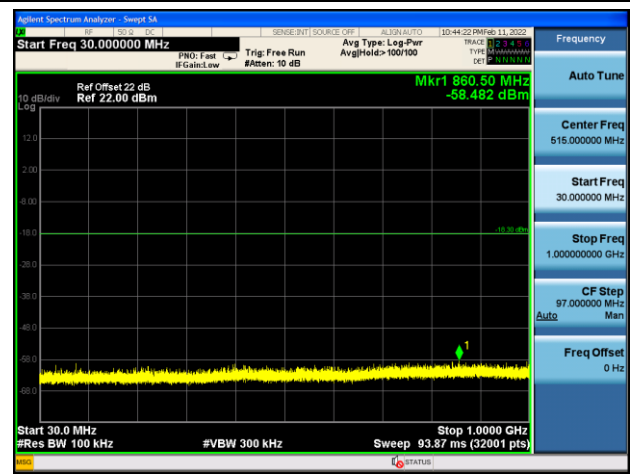
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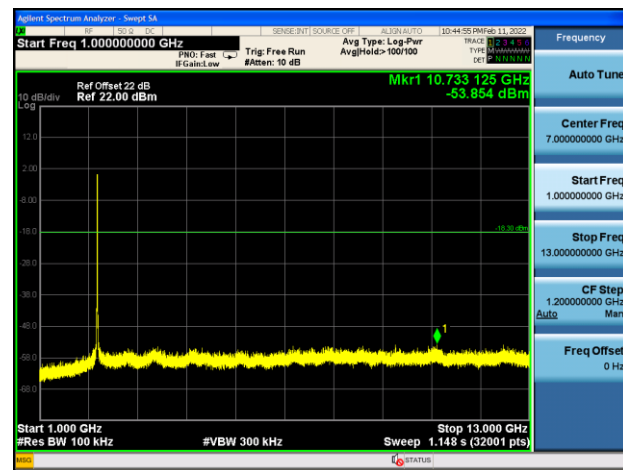
802.11 n20 CH01 (2412MHz)



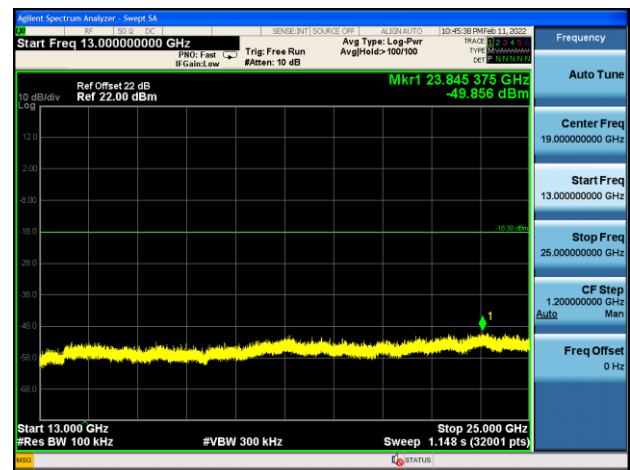
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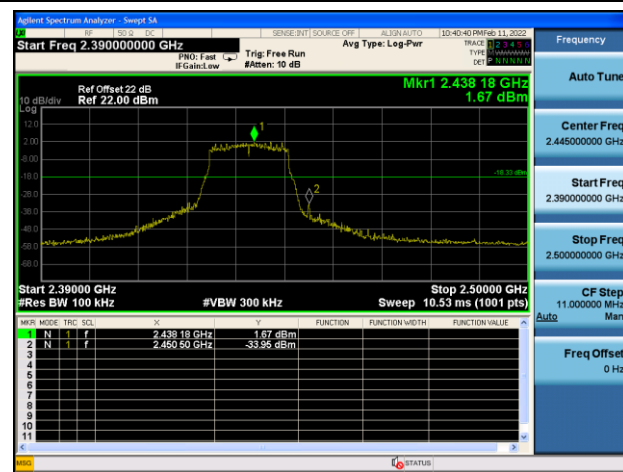
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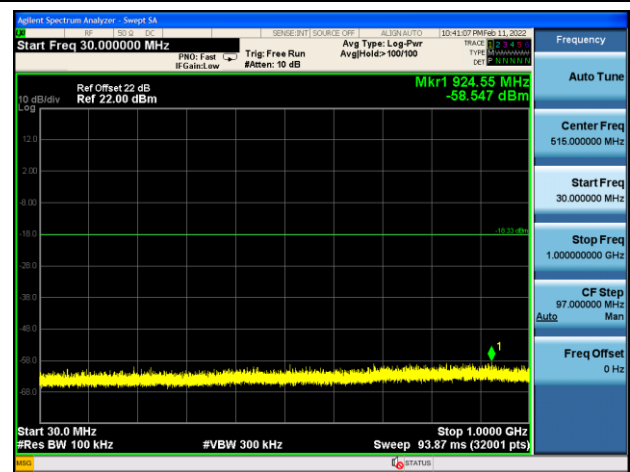
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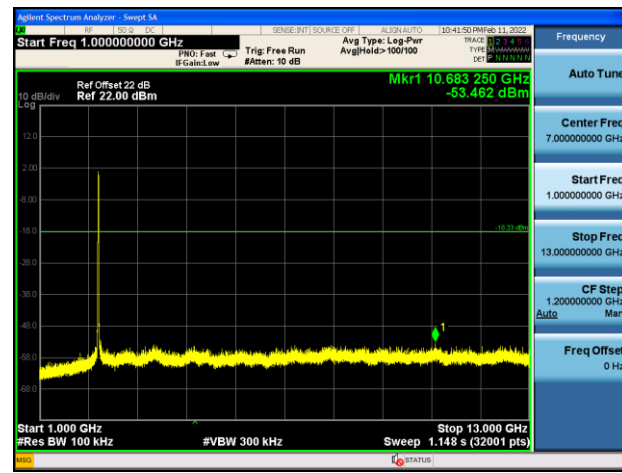
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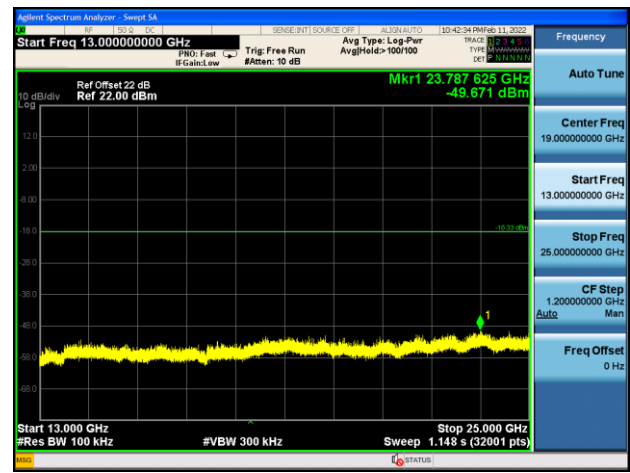
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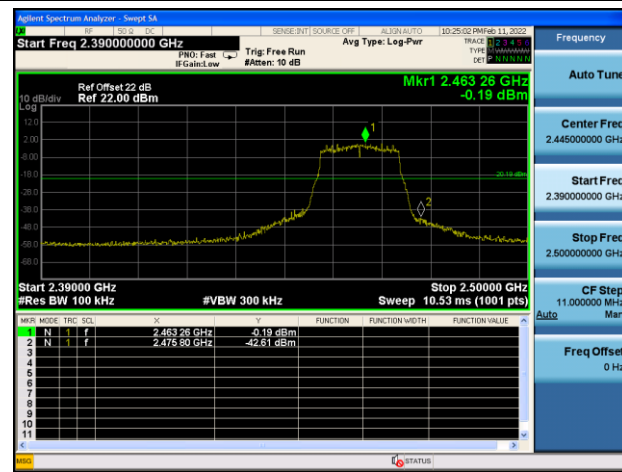
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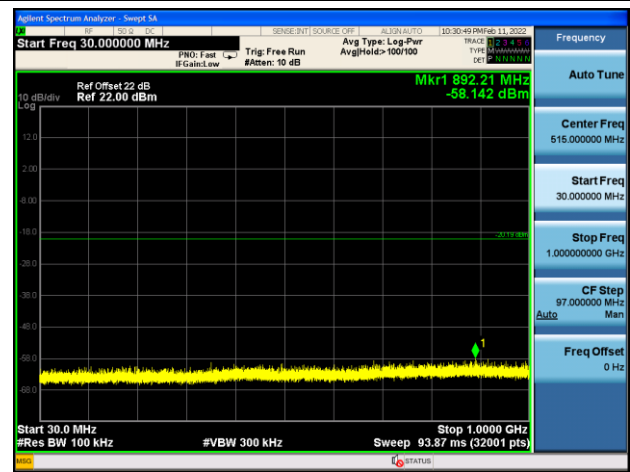
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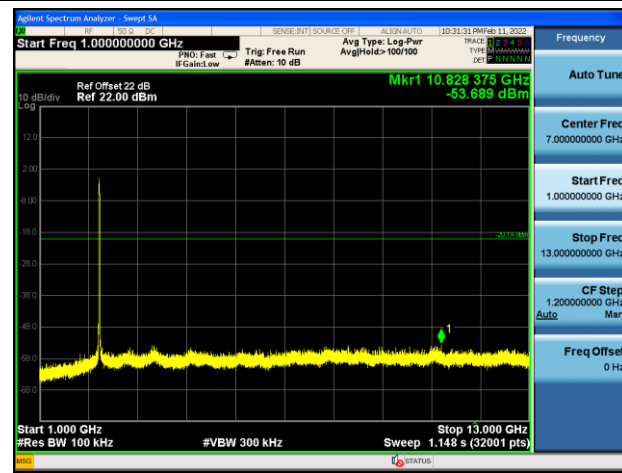
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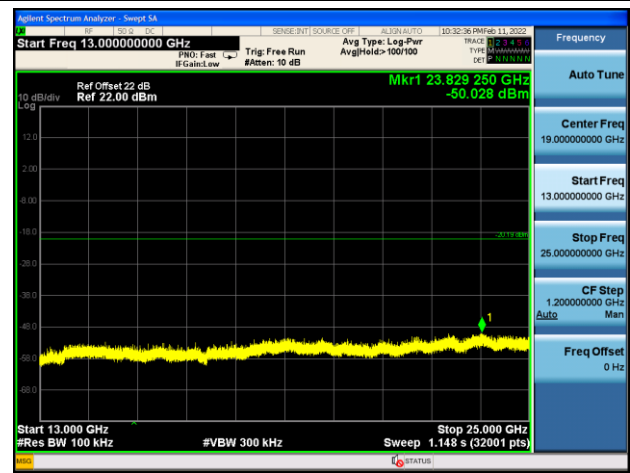
802.11 n20 CH11 (2462MHz)



802.11 n20 CH11 (2462MHz)

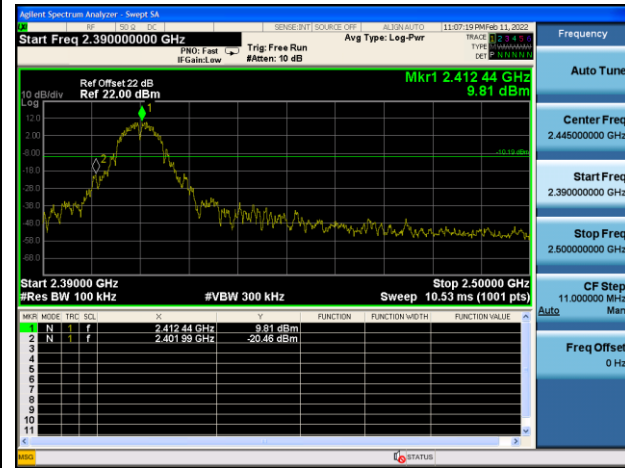


802.11 n20 CH11 (2462MHz)

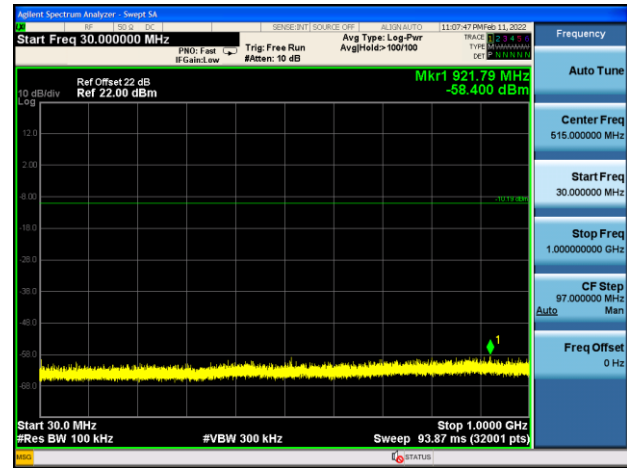


Antenna 1

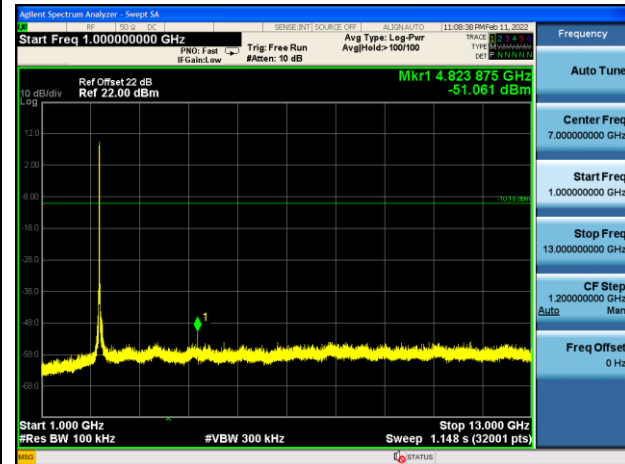
802.11 b CH01 (2412MHz)



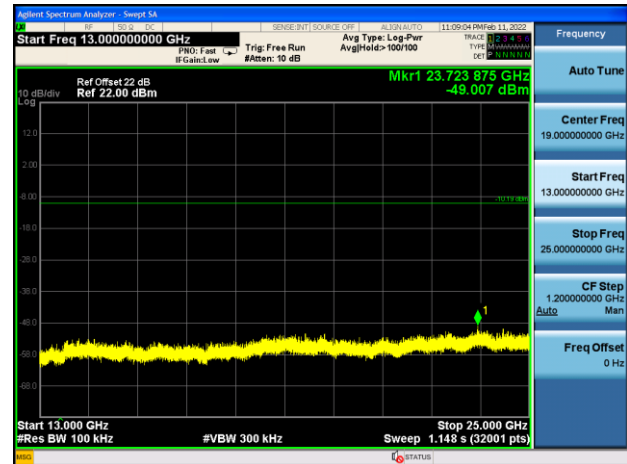
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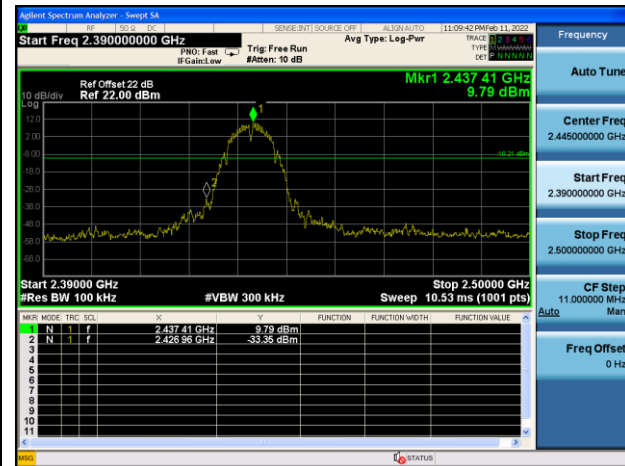
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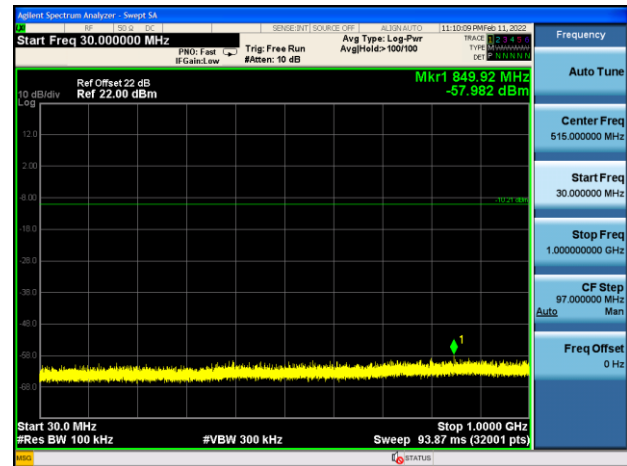
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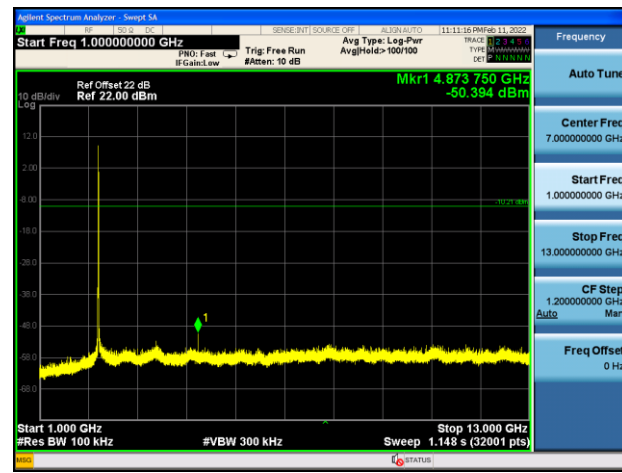
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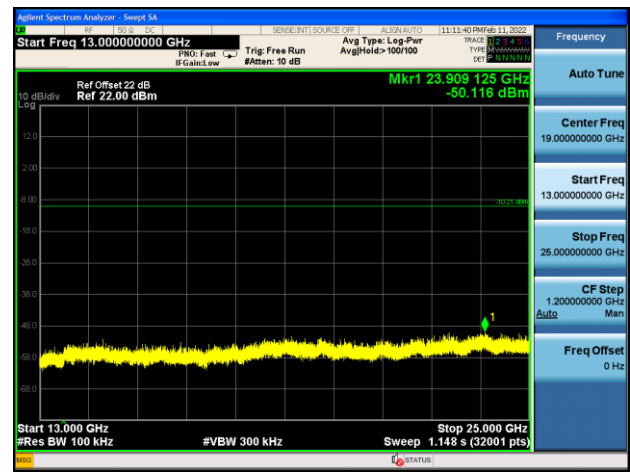
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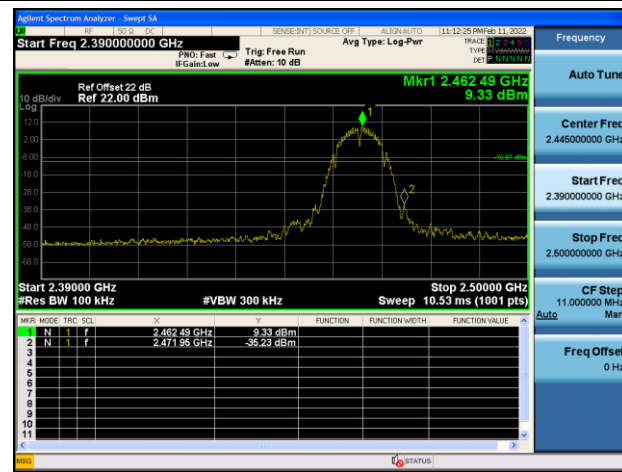
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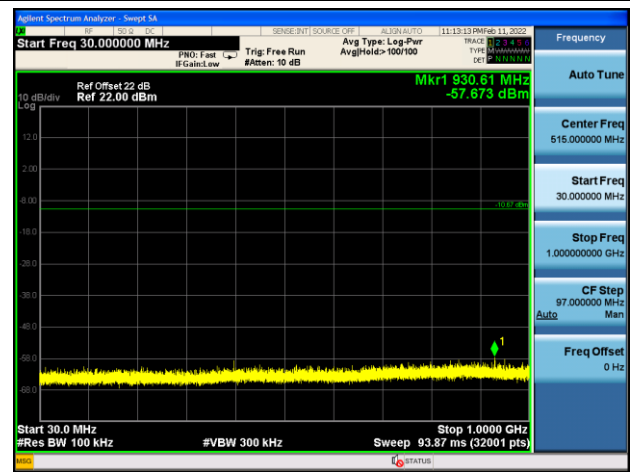
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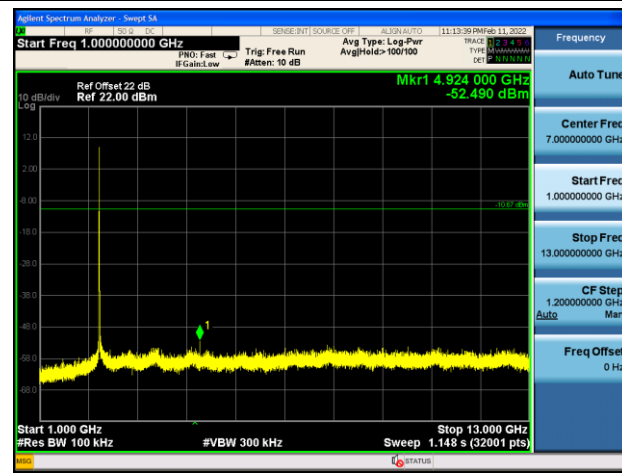
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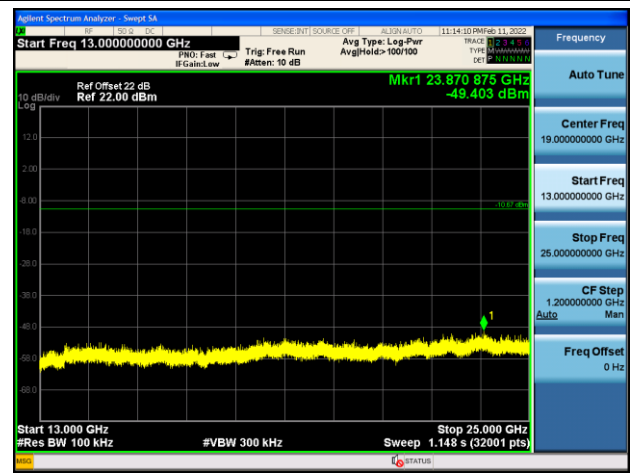
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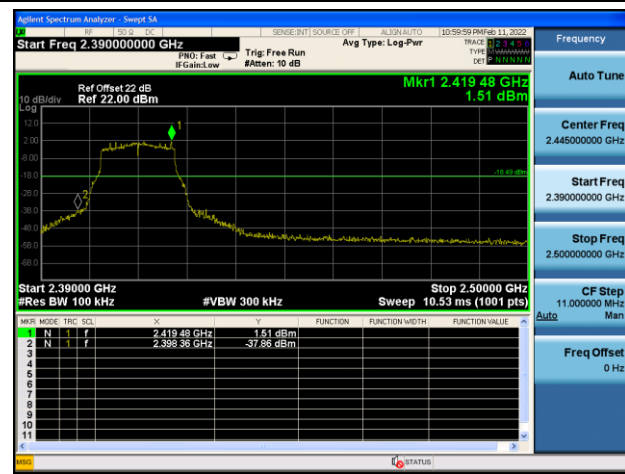
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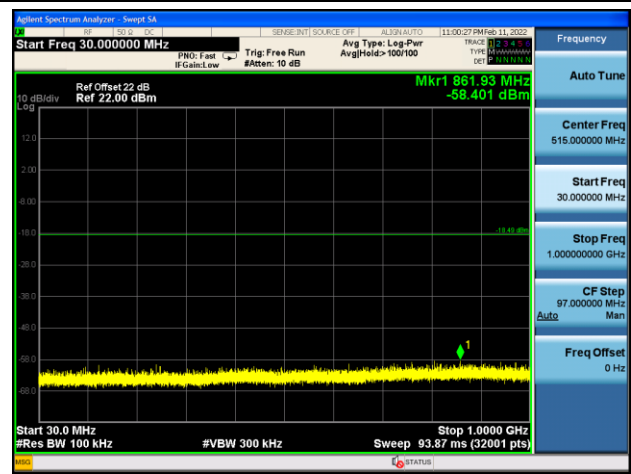
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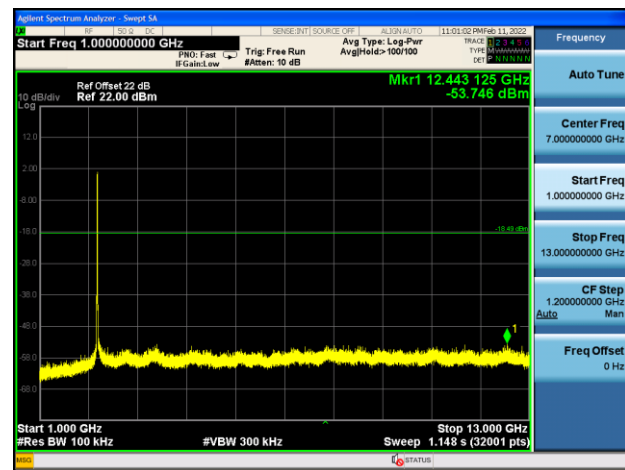
802.11 g CH01 (2412MHz)



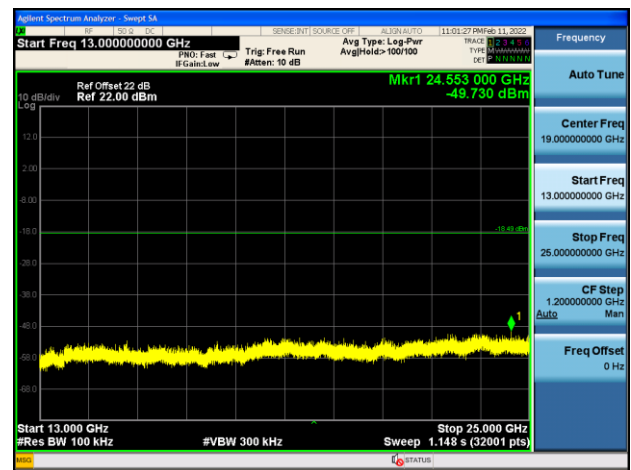
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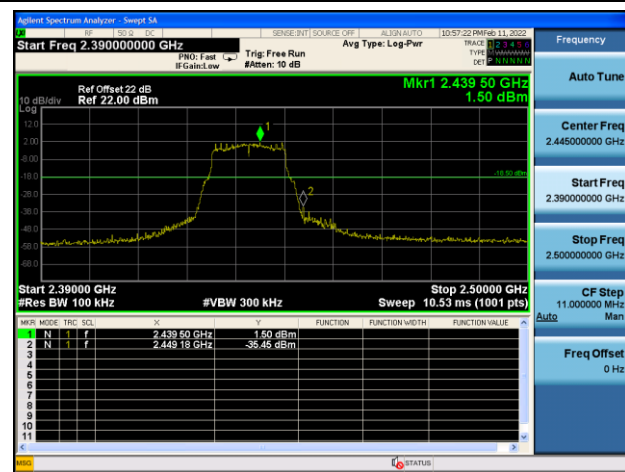
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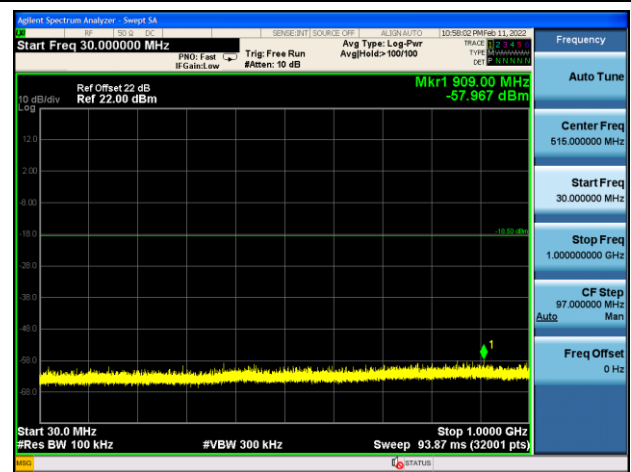
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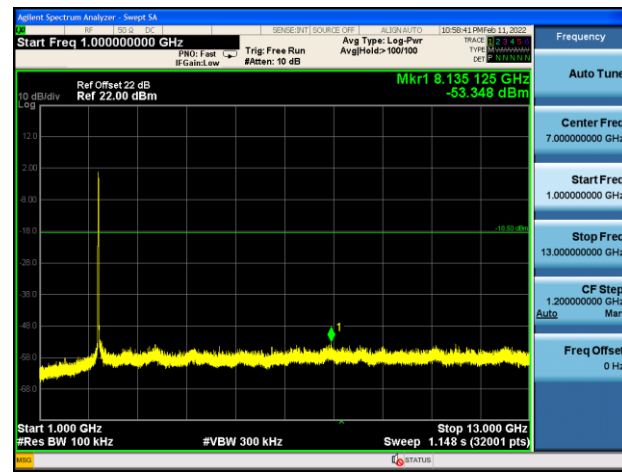
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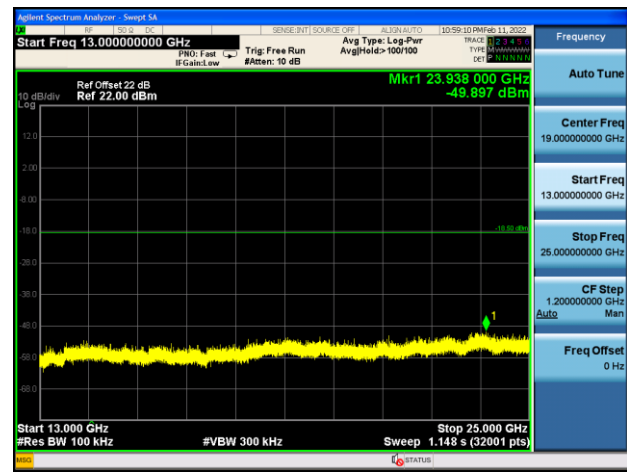
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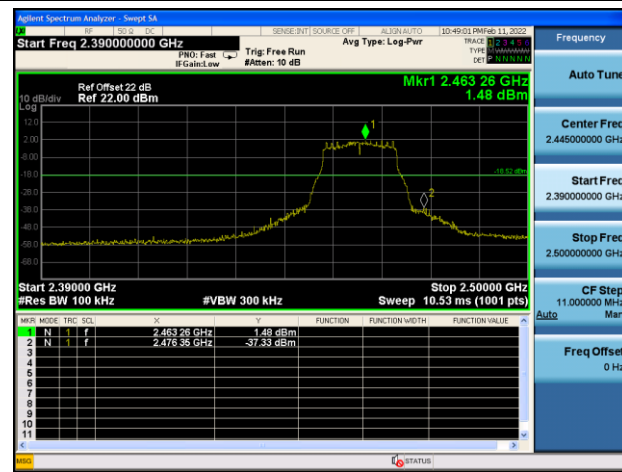
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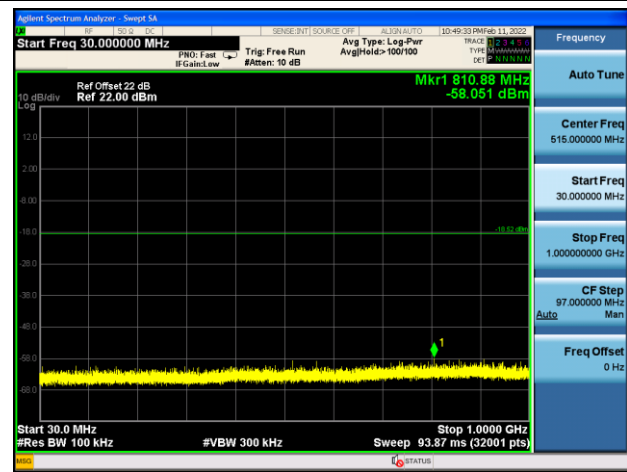
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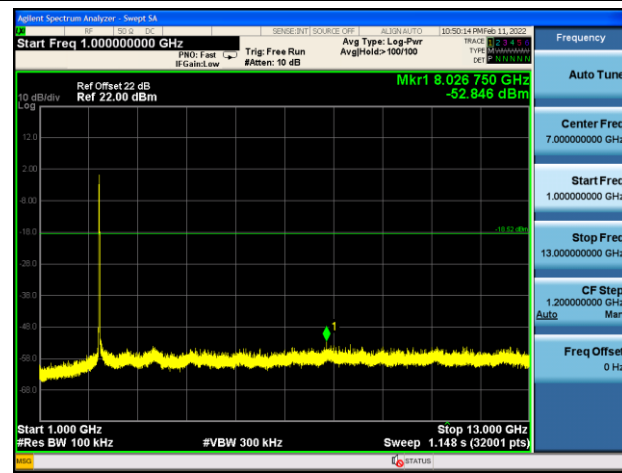
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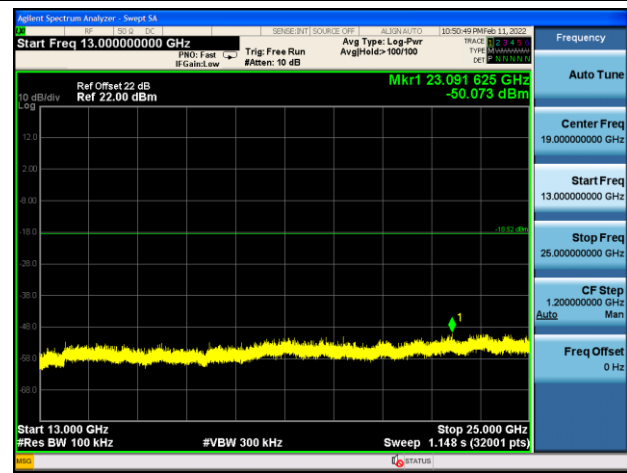
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802.11 g CH11 (2462MHz)



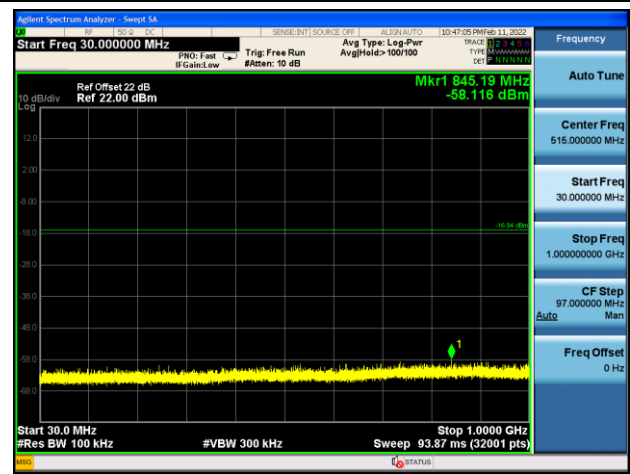
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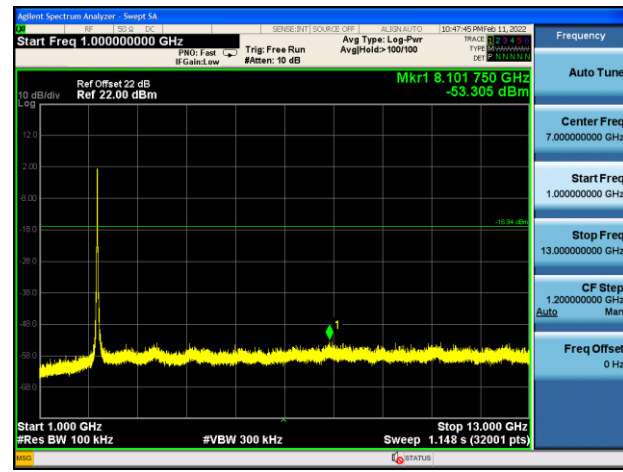
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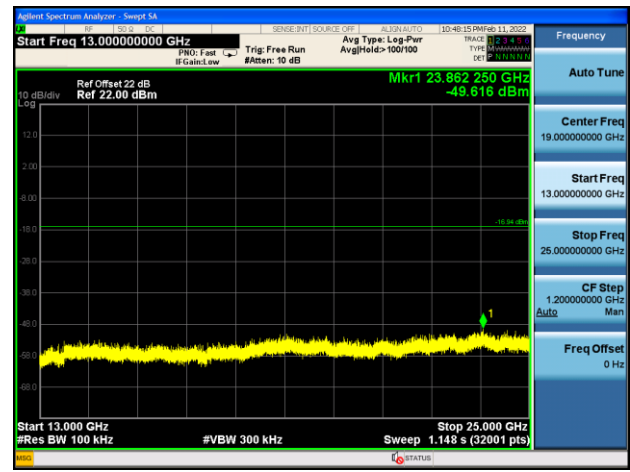
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802.11 n20 CH01 (2412MHz)



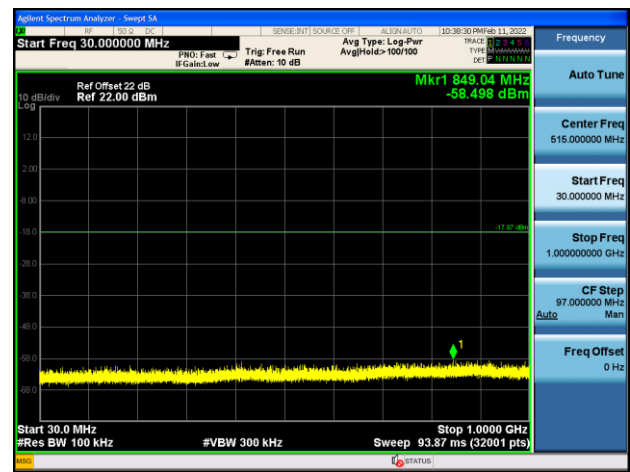
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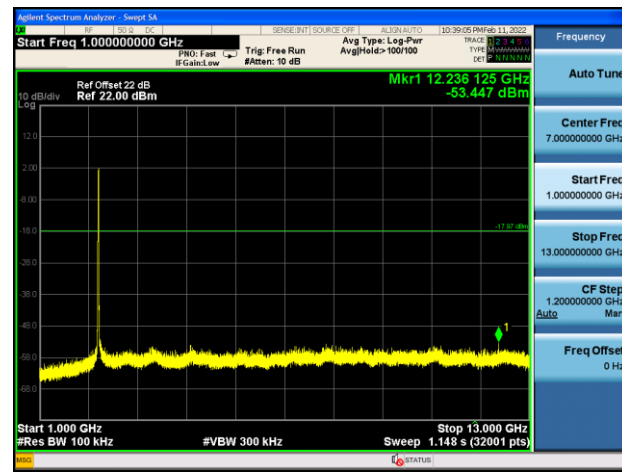
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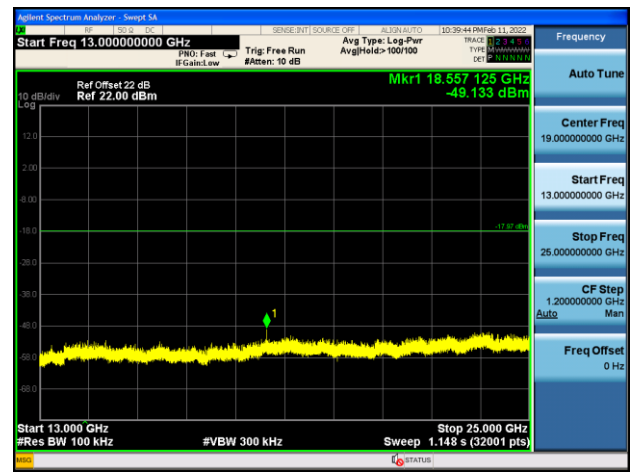
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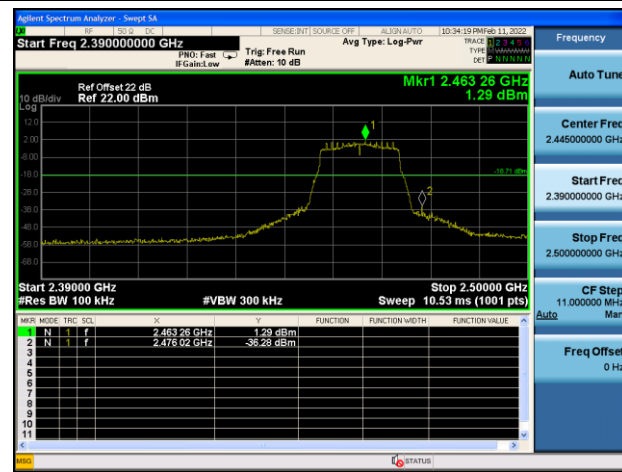
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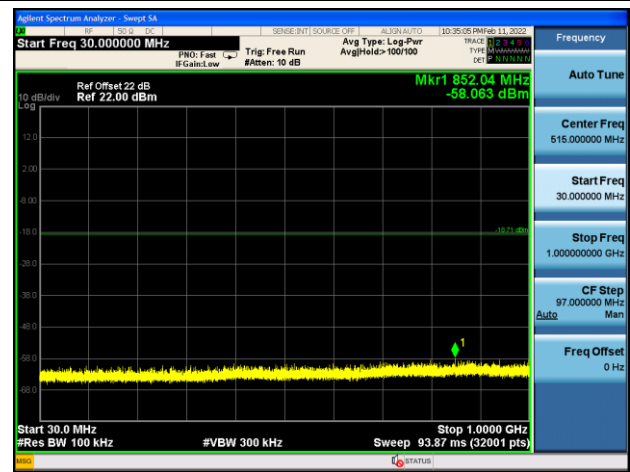
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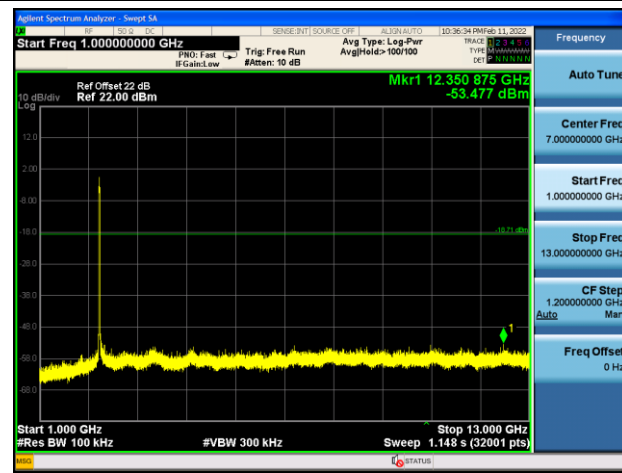
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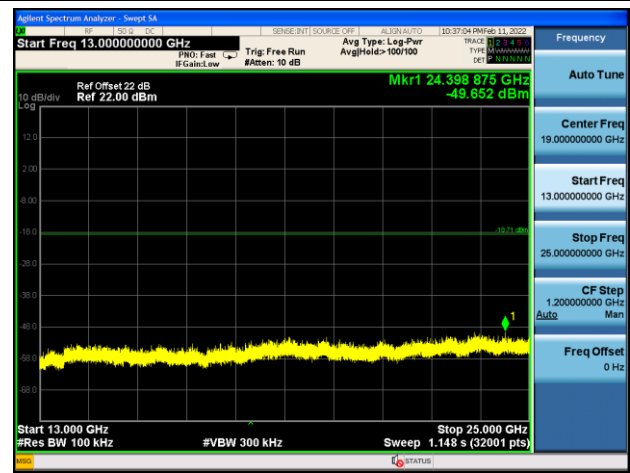
802.11 n20 CH11 (2462MHz)



802.11 n20 CH11 (2462MHz)



802.11 n20 CH11 (2462MHz)



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

KDB 558074 D01v05r02- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v05r02- Section 12.2.4 (peak power measurements)

KDB 558074 D01v05r02- Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW $\geq 1/T$

4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

5. Detector = Peak

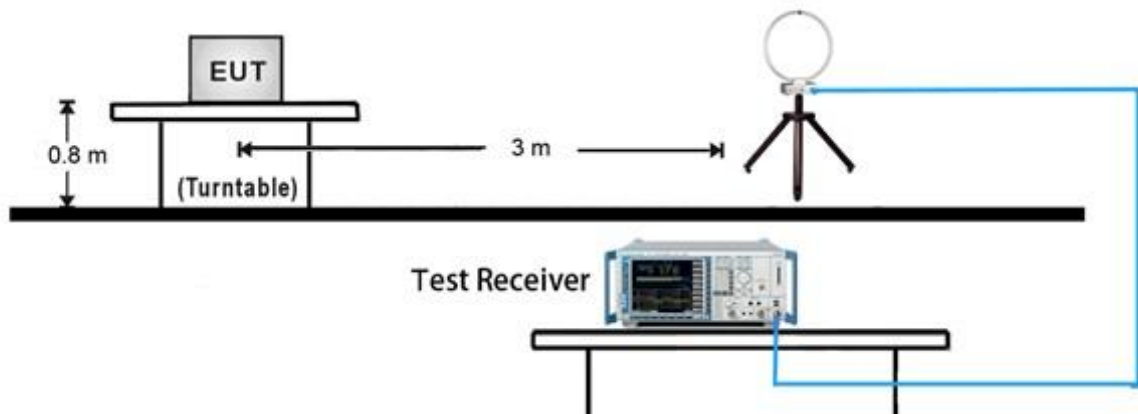
6. Sweep time = auto

7. Trace mode = max hold

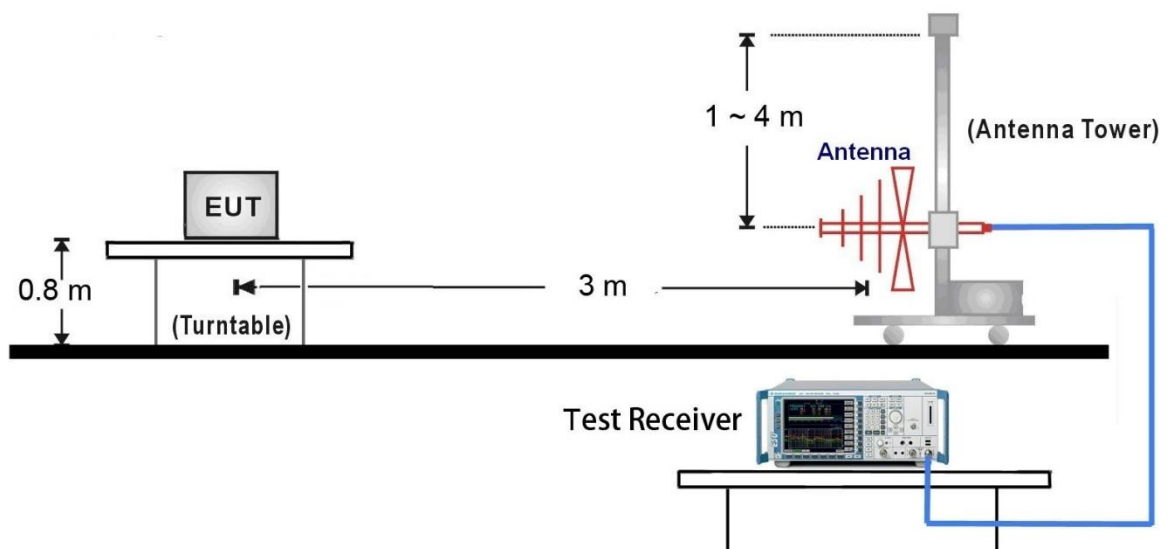
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

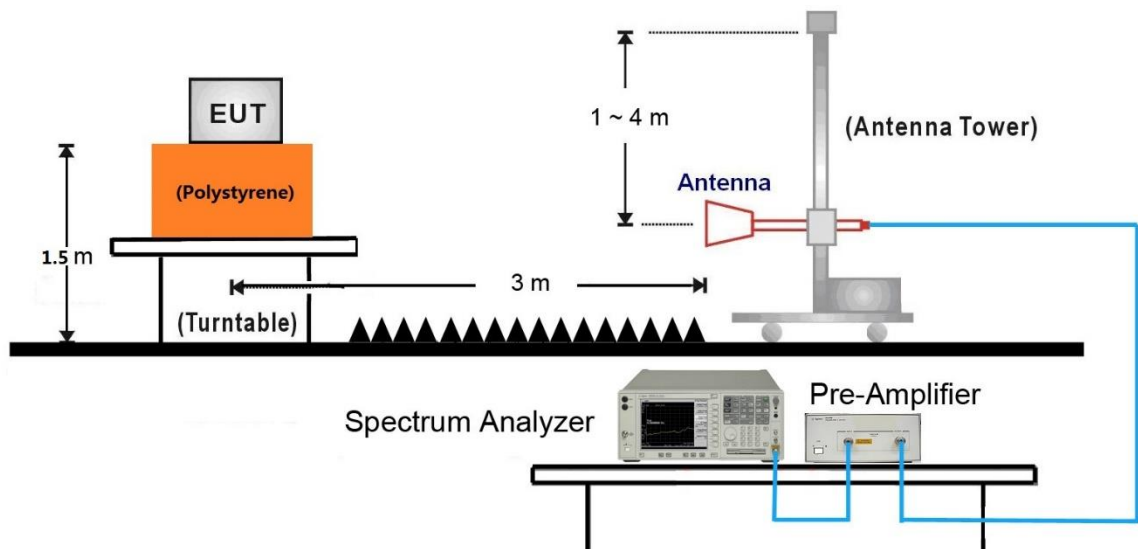
9kHz ~ 30MHz Test Setup:



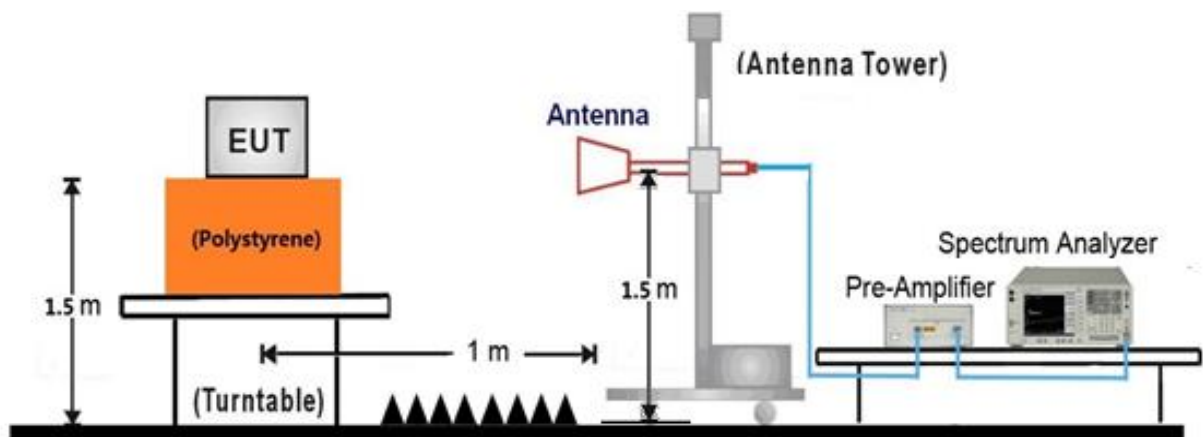
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

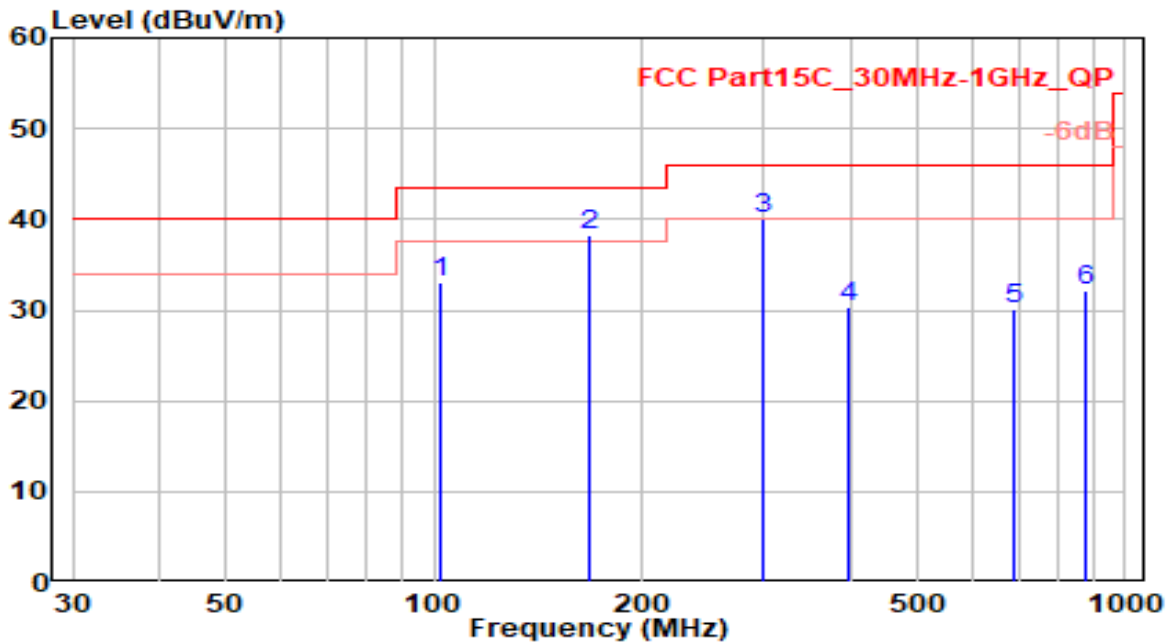


18GHz ~25GHz Test Setup:



7.6.5. Test Result

EUT	Module	Date of Test	2022-01-13
Factor	VULB 9162	Temp. / Humidity	20°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH6_ANT 0+1	Test Voltage	AC 120V/60Hz

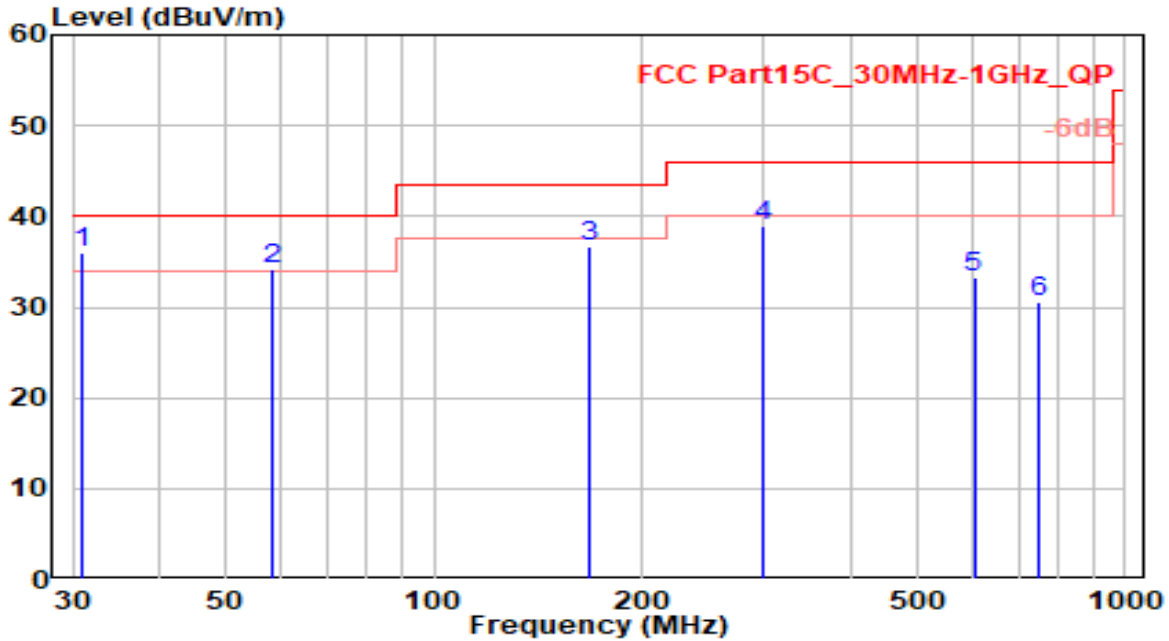


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	101.780	13.84	19.24	33.07	-10.43	43.50	150	275	QP
2	* 167.740	21.61	16.56	38.17	-5.33	43.50	150	165	QP
3	299.660	18.67	21.35	40.02	-5.98	46.00	100	175	QP
4	399.570	6.30	24.03	30.33	-15.67	46.00	100	200	QP
5	690.570	1.22	28.78	30.00	-16.00	46.00	100	225	QP
6	876.810	0.83	31.30	32.14	-13.86	46.00	100	0	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data / test setup is not presented in the report.

EUT	Module	Date of Test	2022-01-13
Factor	VULB 9162	Temp. / Humidity	20°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH6_ANT 0+1	Test Voltage	AC 120V/60Hz

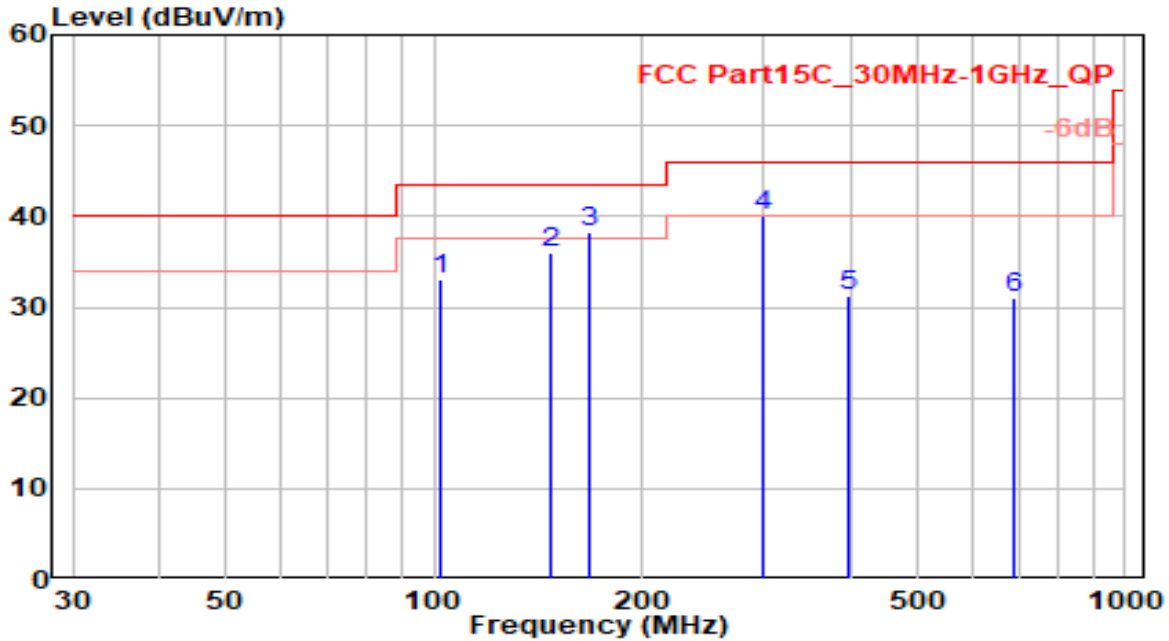


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	30.970	18.60	17.43	36.03	-3.97	40.00	100	305	QP
2		58.130	13.96	20.34	34.30	-5.70	40.00	100	290	QP
3		167.740	20.03	16.56	36.59	-6.91	43.50	100	355	QP
4		299.660	17.55	21.35	38.90	-7.10	46.00	150	0	QP
5		604.240	5.43	27.74	33.17	-12.83	46.00	100	250	QP
6		749.740	0.95	29.60	30.55	-15.45	46.00	150	30	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data / test setup is not presented in the report.

EUT	Module	Date of Test	2022-01-13
Factor	VULB 9162	Temp. / Humidity	20°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_RX_CH6_ANT 0+1	Test Voltage	AC 120V/60Hz

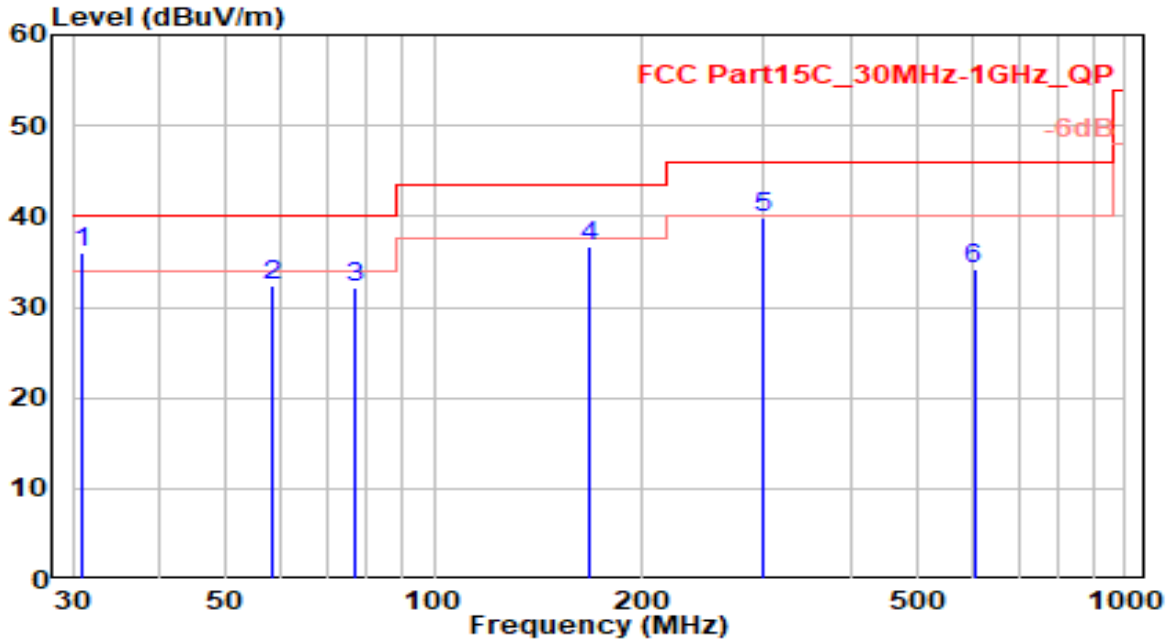


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	101.780	13.84	19.24	33.07	-10.43	43.50	150	275	QP
2	147.370	20.36	15.71	36.07	-7.43	43.50	150	280	QP
3	* 167.740	21.61	16.56	38.17	-5.33	43.50	150	165	QP
4	299.660	18.67	21.35	40.02	-5.98	46.00	100	175	QP
5	399.570	7.30	24.03	31.33	-14.67	46.00	100	200	QP
6	690.570	2.22	28.78	31.00	-15.00	46.00	100	225	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data / test setup is not presented in the report.

EUT	Module	Date of Test	2022-01-13
Factor	VULB 9162	Temp. / Humidity	20°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_RX_CH6_ANT 0+1	Test Voltage	AC 120V/60Hz

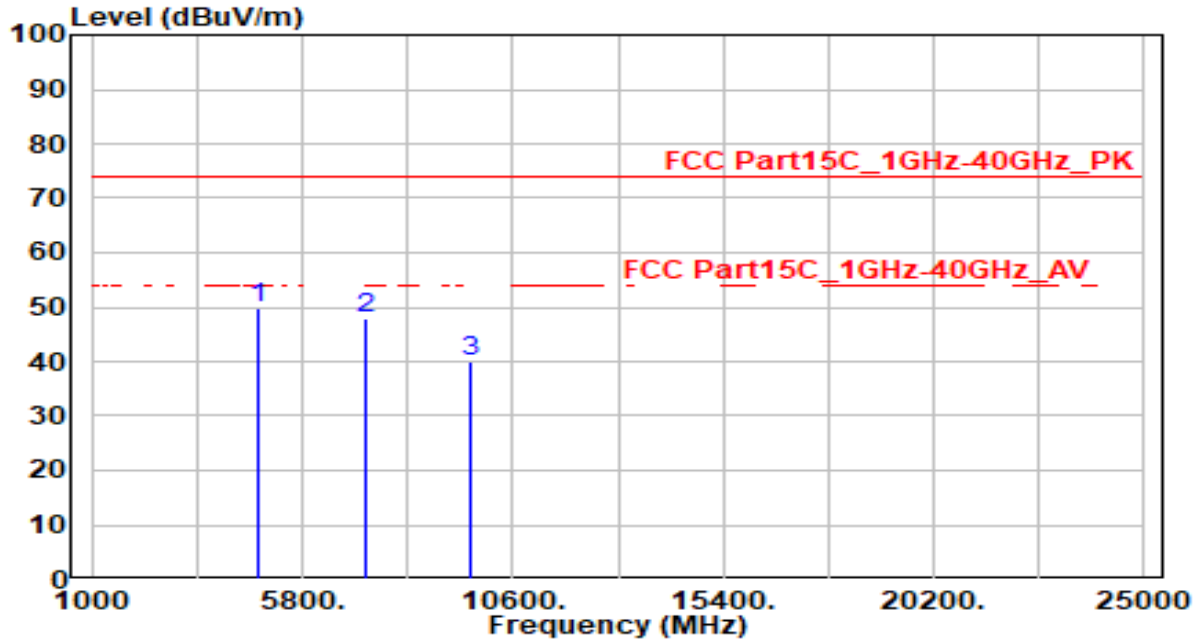


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	30.970	18.60	17.43	36.03	-3.97	40.00	100	305	QP
2		58.130	11.96	20.34	32.30	-7.70	40.00	100	285	QP
3		76.560	17.20	15.01	32.21	-7.79	40.00	150	235	QP
4		167.740	20.03	16.56	36.59	-6.91	43.50	100	355	QP
5		299.660	18.55	21.35	39.90	-6.10	46.00	150	0	QP
6		604.240	6.43	27.74	34.17	-11.83	46.00	100	250	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data / test setup is not presented in the report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

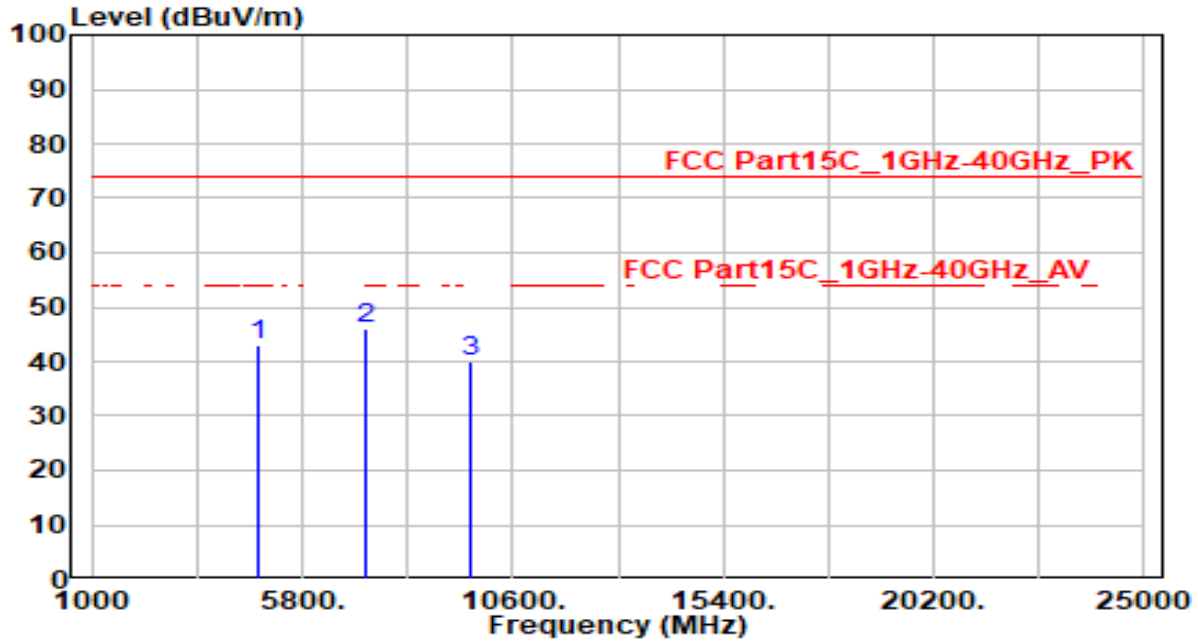


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4824.000	49.91	-0.02	49.89	-24.11	74.00	100	360	Peak
2	7236.000	42.76	5.01	47.77	-26.23	74.00	100	360	Peak
3	9648.000	35.43	4.69	40.12	-33.88	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

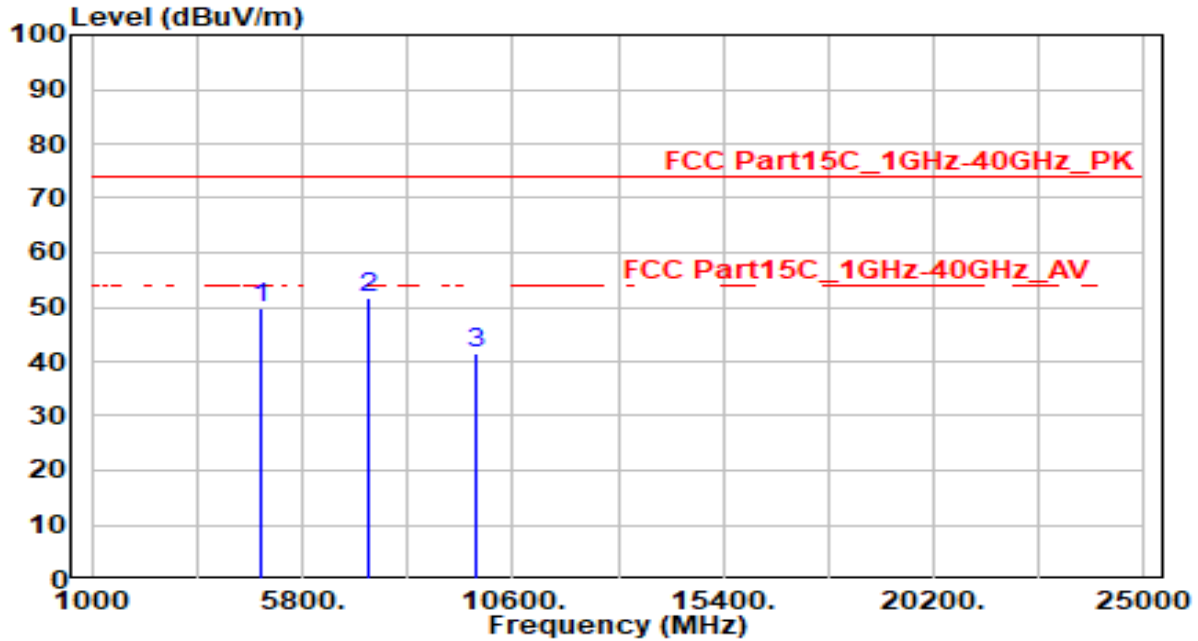


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	42.91	-0.02	42.89	-31.11	74.00	100	360	Peak
2	* 7236.000	41.05	5.01	46.06	-27.94	74.00	100	360	Peak
3	9648.000	35.23	4.69	39.92	-34.08	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

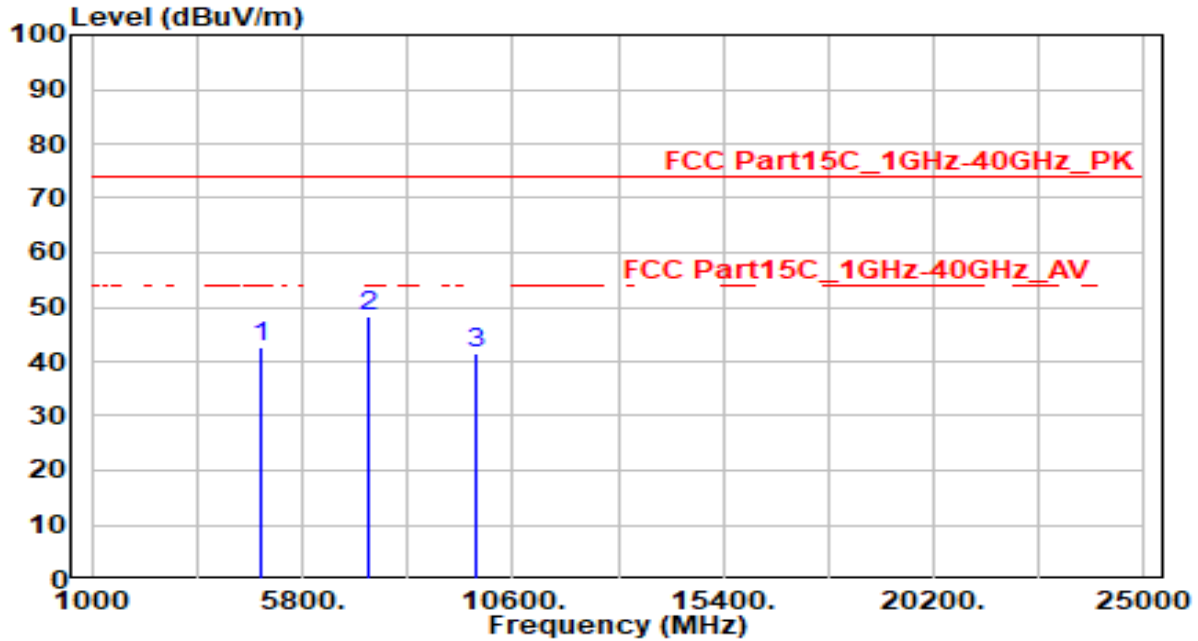


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	49.89	0.08	49.97	-24.03	74.00	100	360	Peak
2	* 7311.000	46.70	5.09	51.79	-22.21	74.00	100	360	Peak
3	9748.000	36.80	4.73	41.53	-32.47	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

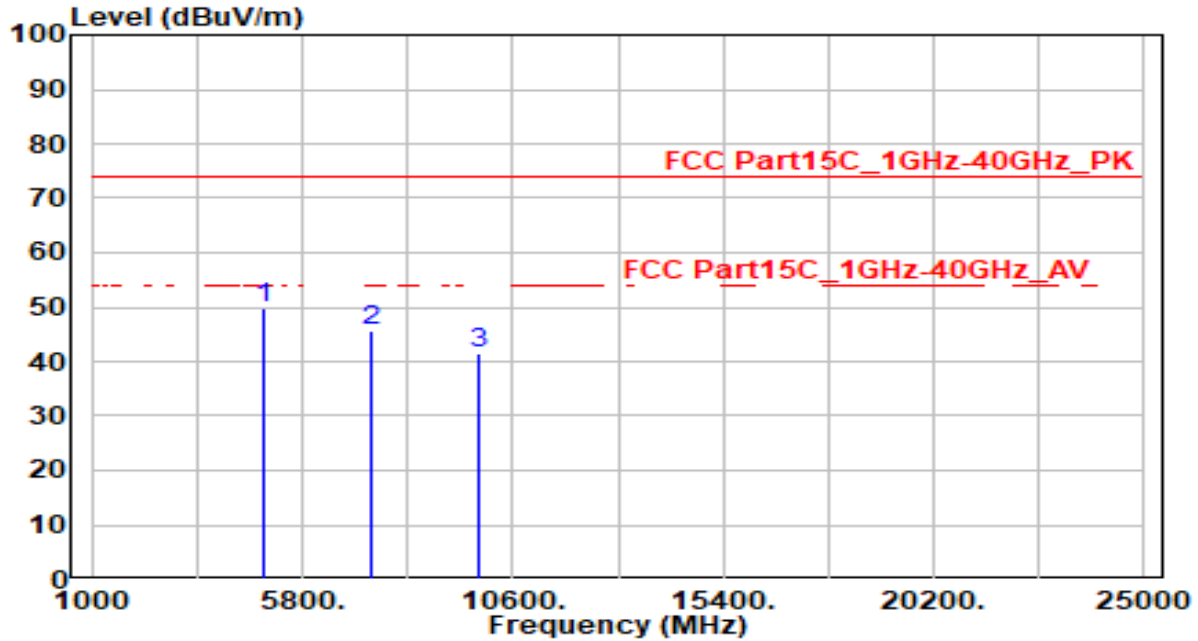


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	42.72	0.08	42.80	-31.20	74.00	100	360	Peak
2	* 7311.000	43.03	5.09	48.12	-25.88	74.00	100	360	Peak
3	9748.000	36.75	4.73	41.48	-32.52	74.00	100	360	Peak

Note:

1. " *" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

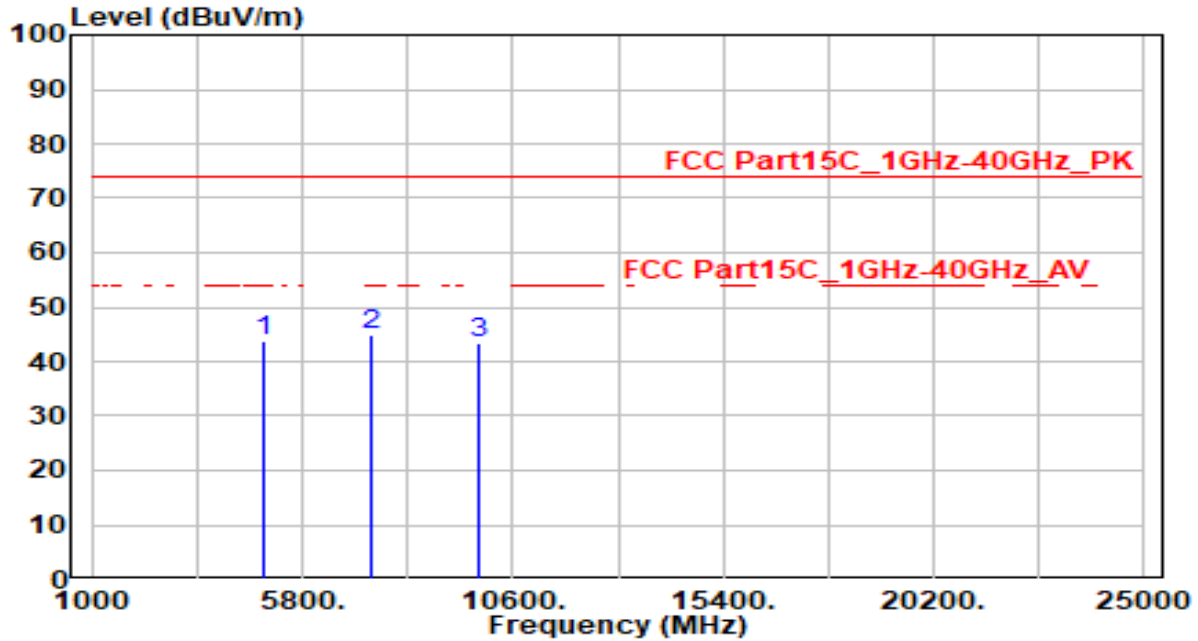


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4924.000	49.71	0.19	49.91	-24.09	74.00	100	360	Peak
2	7386.000	40.64	5.16	45.80	-28.20	74.00	100	360	Peak
3	9848.000	36.63	4.75	41.38	-32.62	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

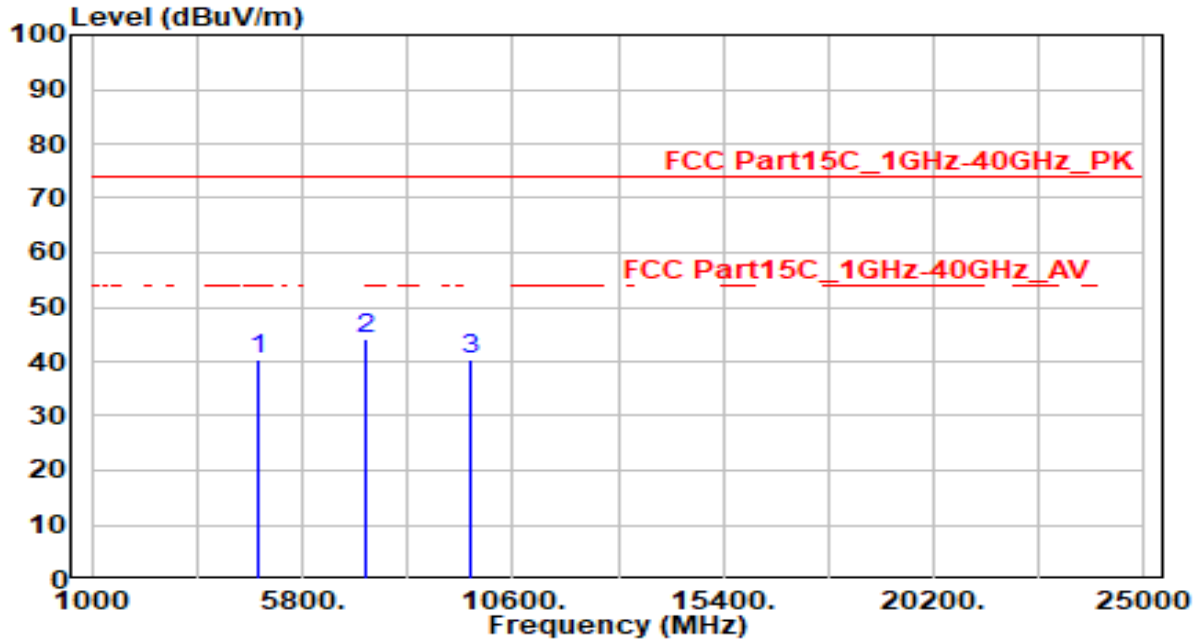


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	43.67	0.19	43.86	-30.14	74.00	100	360	Peak
2	* 7386.000	39.75	5.16	44.91	-29.09	74.00	100	360	Peak
3	9848.000	38.74	4.75	43.49	-30.51	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

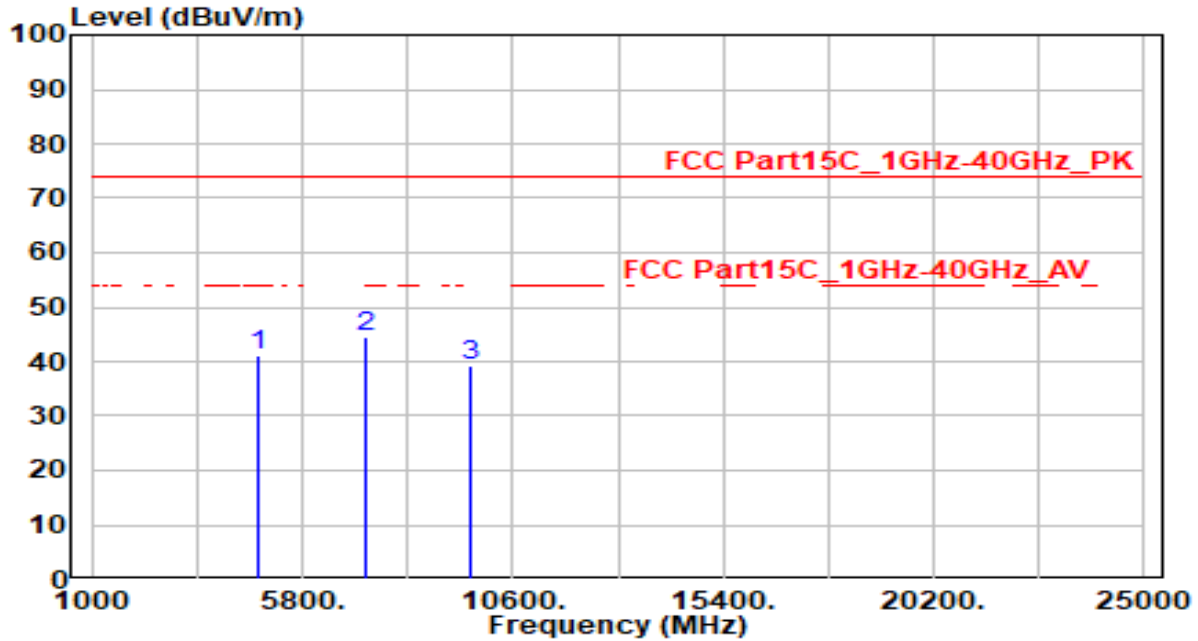


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.34	-0.02	40.31	-33.69	74.00	100	360	Peak
2	* 7236.000	39.08	5.01	44.09	-29.91	74.00	100	360	Peak
3	9648.000	35.53	4.69	40.22	-33.78	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

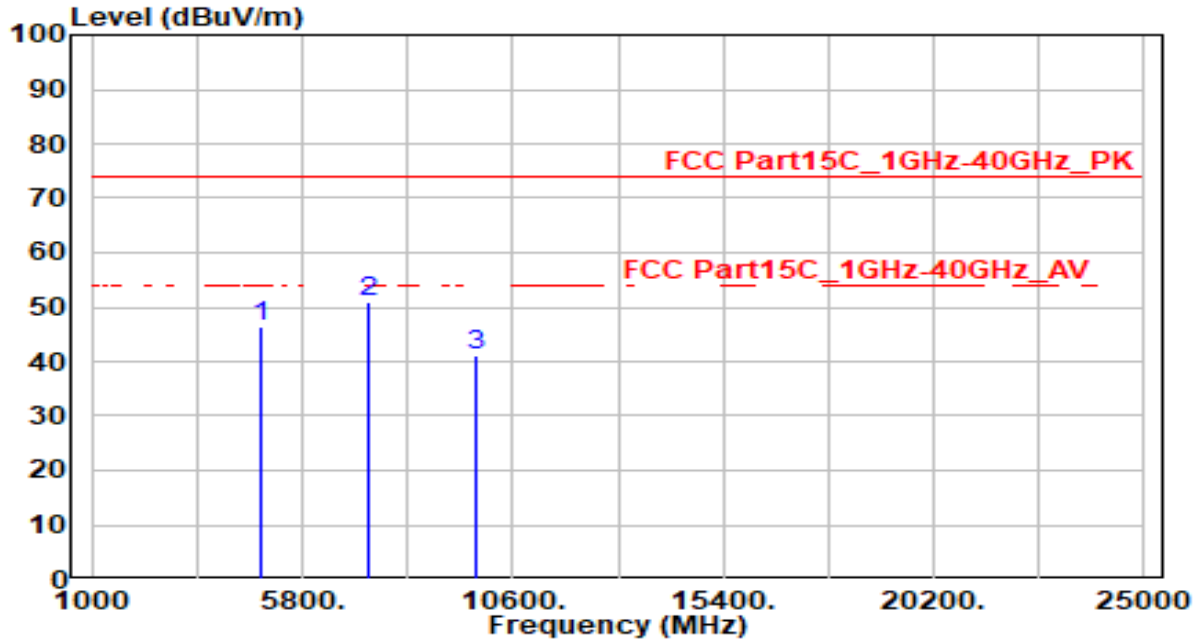


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	41.11	-0.02	41.09	-32.91	74.00	100	360	Peak
2	* 7236.000	39.38	5.01	44.39	-29.61	74.00	100	360	Peak
3	9648.000	34.60	4.69	39.29	-34.71	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

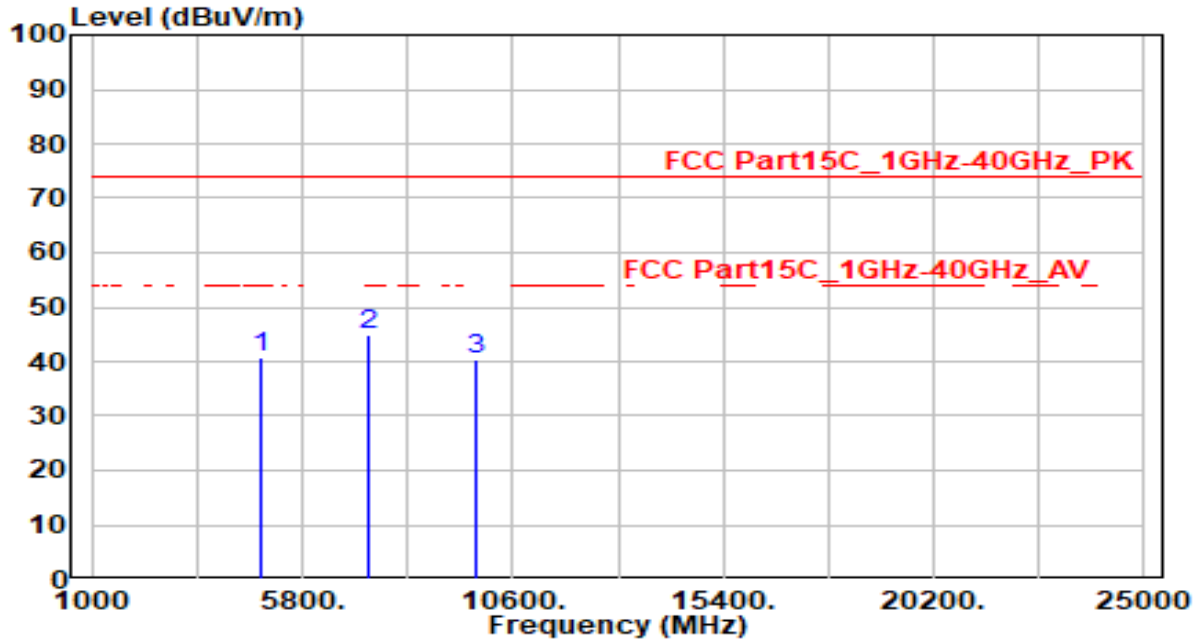


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	46.48	0.08	46.56	-27.44	74.00	100	360	Peak
2	* 7311.000	45.89	5.09	50.98	-23.02	74.00	100	360	Peak
3	9748.000	36.33	4.73	41.06	-32.94	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

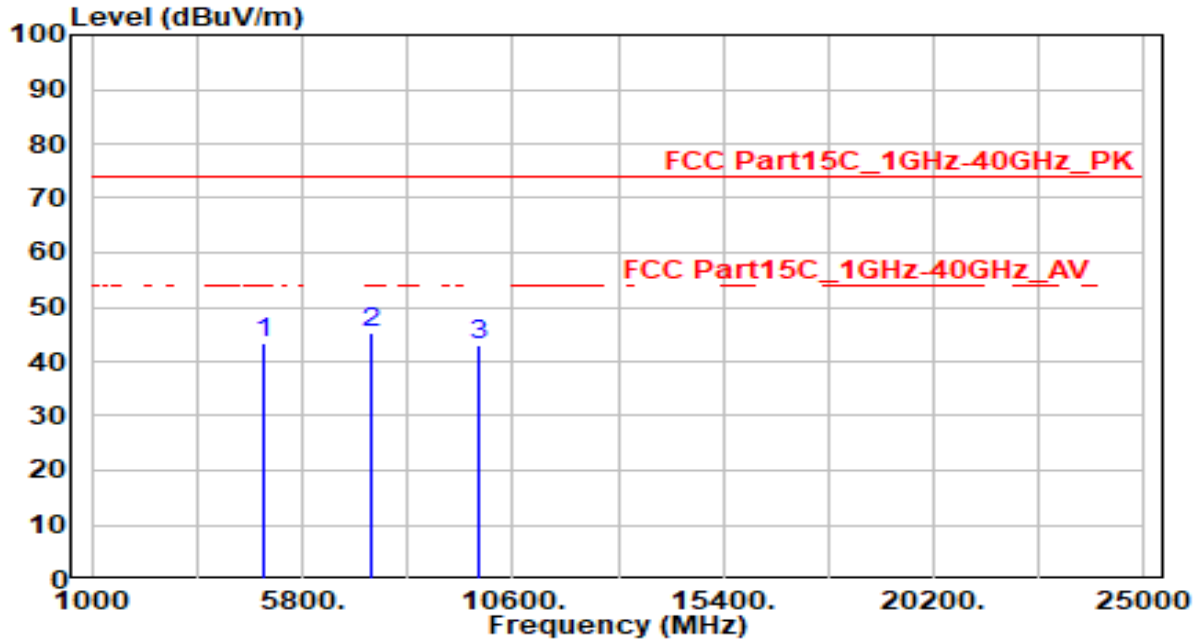


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.83	0.08	40.91	-33.09	74.00	100	360	Peak
2	* 7311.000	39.78	5.09	44.87	-29.13	74.00	100	360	Peak
3	9748.000	35.60	4.73	40.33	-33.67	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

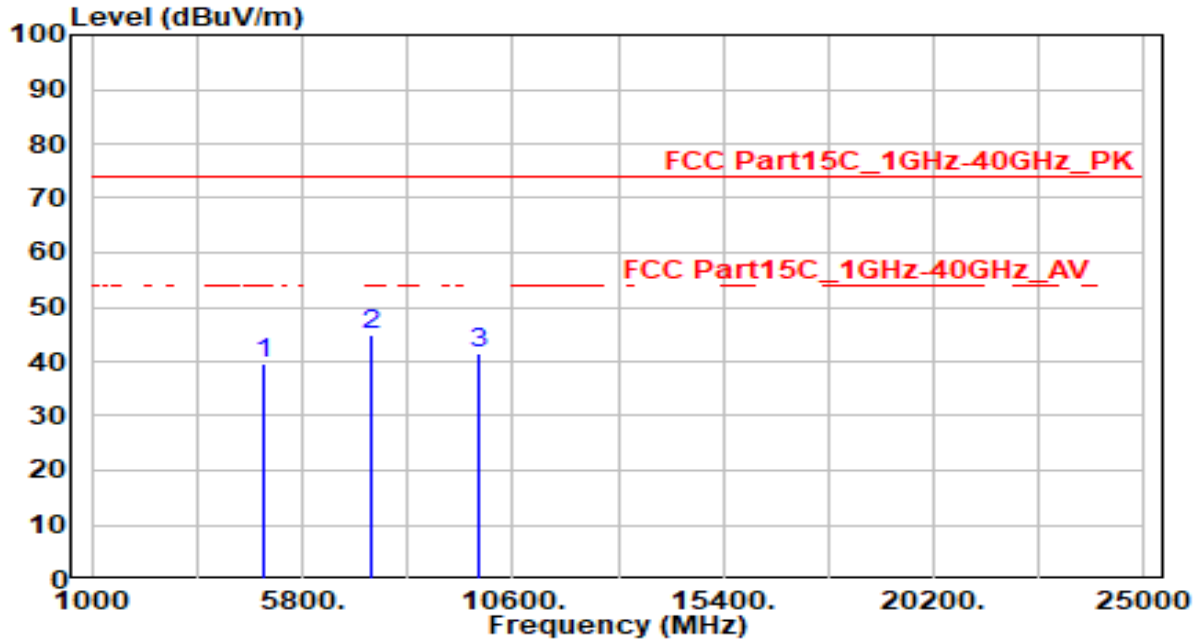


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	43.07	0.19	43.27	-30.73	74.00	100	360	Peak
2	* 7386.000	39.98	5.16	45.14	-28.86	74.00	100	360	Peak
3	9848.000	38.13	4.75	42.88	-31.12	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

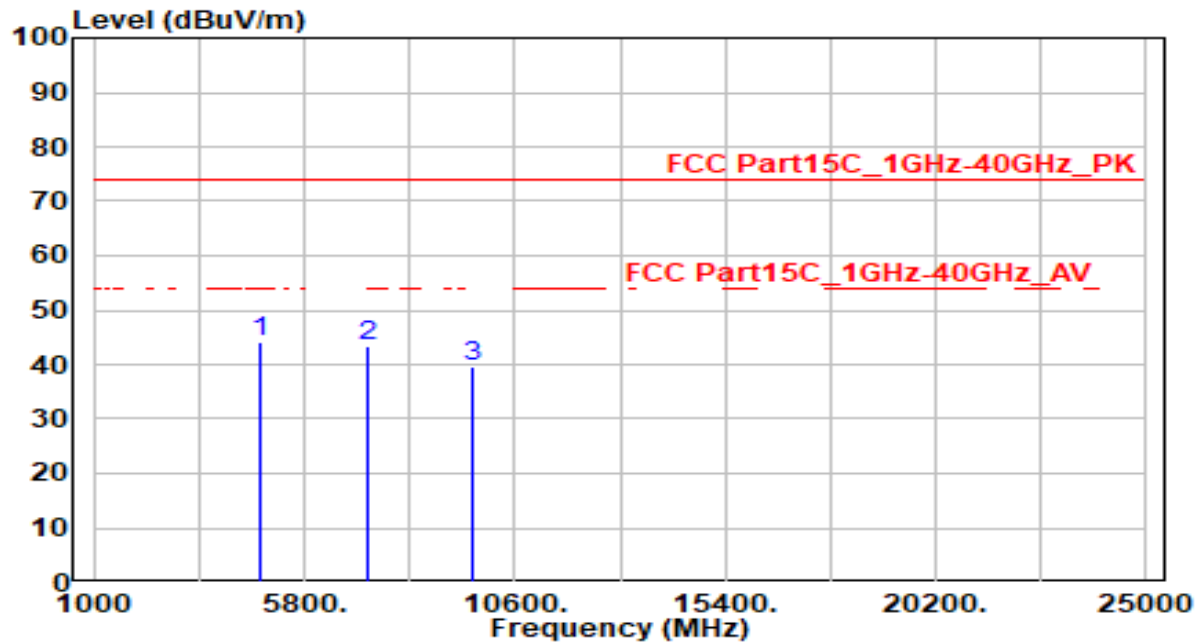


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	39.57	0.19	39.76	-34.24	74.00	100	360	Peak
2	* 7386.000	39.68	5.16	44.84	-29.16	74.00	100	360	Peak
3	9848.000	36.61	4.75	41.36	-32.64	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

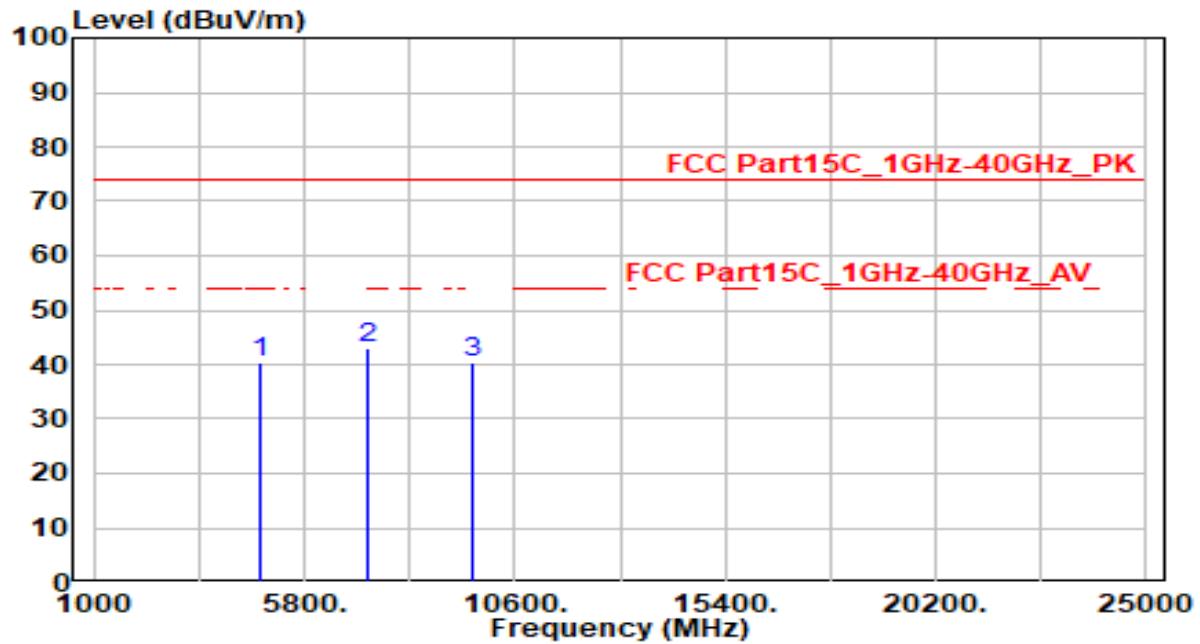


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4824.000	44.13	-0.02	44.11	-29.89	74.00	100	360	Peak
2	7236.000	38.56	5.01	43.57	-30.43	74.00	100	360	Peak
3	9648.000	34.76	4.69	39.45	-34.55	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

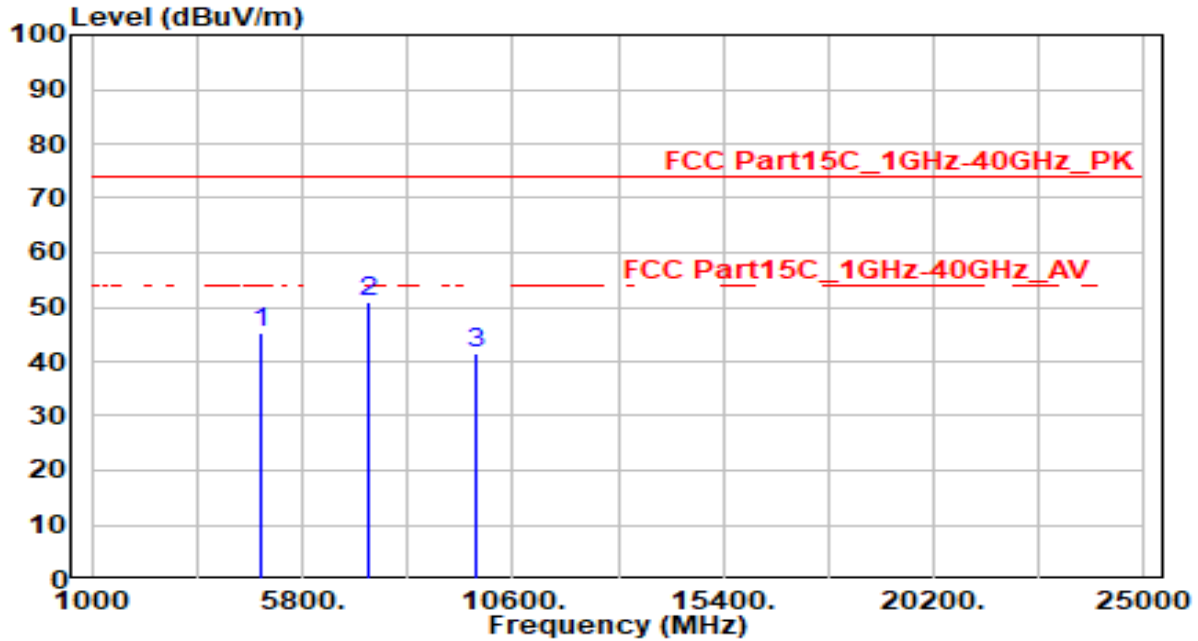


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.35	-0.02	40.33	-33.67	74.00	100	360	Peak
2	* 7236.000	37.97	5.01	42.98	-31.02	74.00	100	360	Peak
3	9648.000	35.83	4.69	40.52	-33.48	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

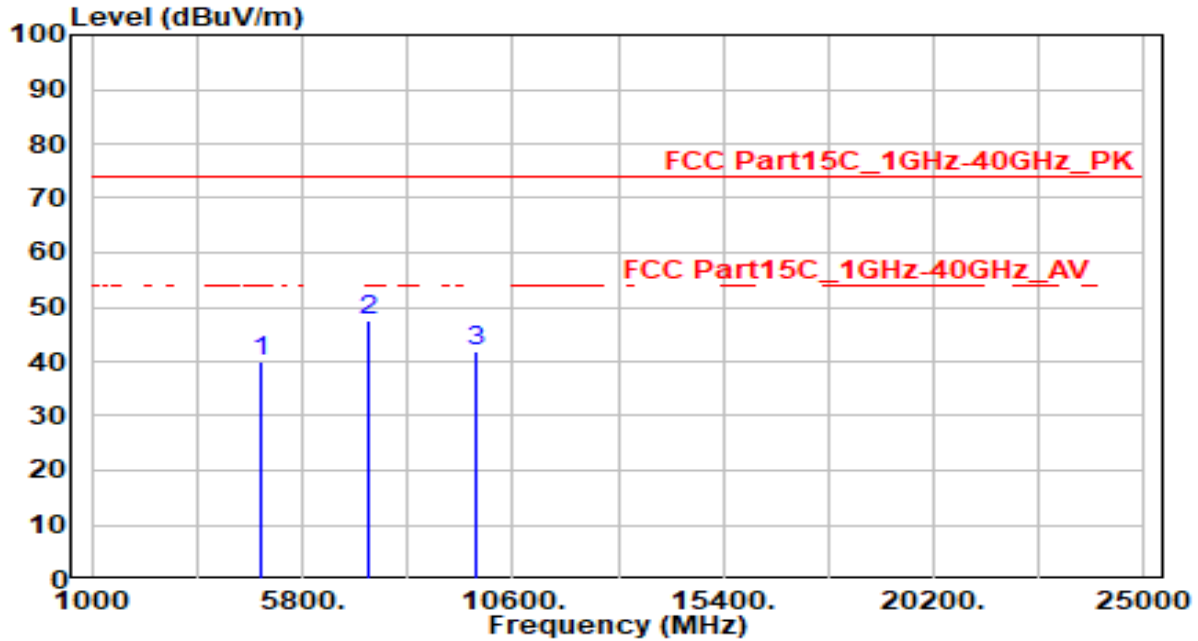


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	45.37	0.08	45.46	-28.54	74.00	100	360	Peak
2	* 7311.000	45.77	5.09	50.86	-23.14	74.00	100	360	Peak
3	9748.000	36.66	4.73	41.39	-32.61	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

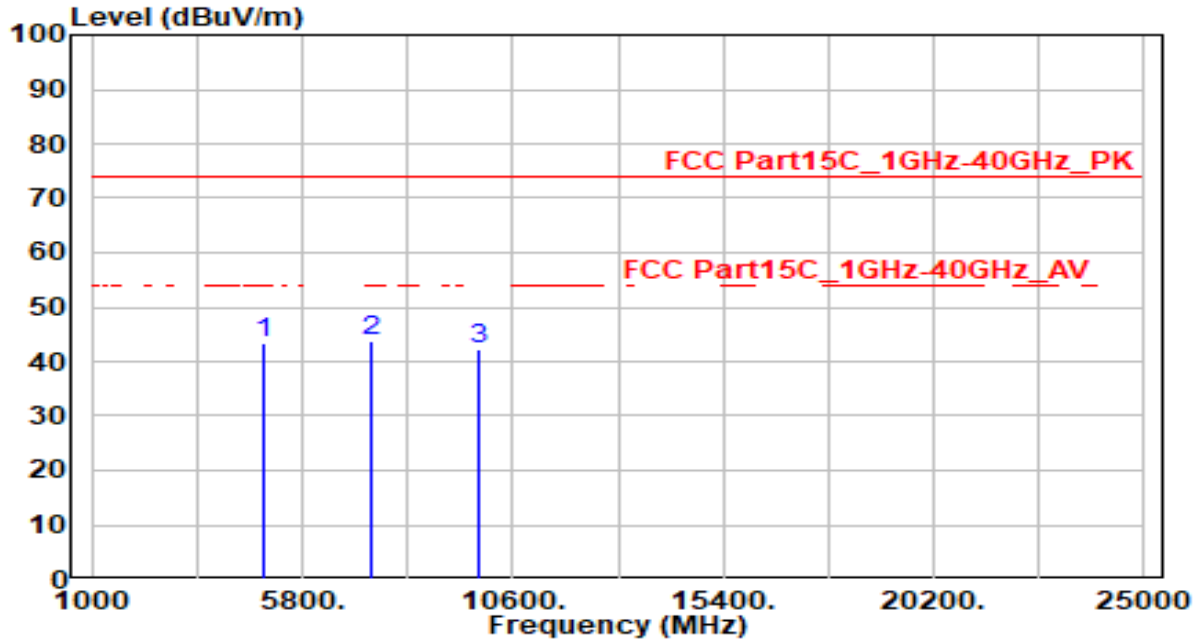


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	39.75	0.08	39.84	-34.16	74.00	100	360	Peak
2	* 7311.000	42.42	5.09	47.51	-26.49	74.00	100	360	Peak
3	9748.000	37.08	4.73	41.81	-32.19	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

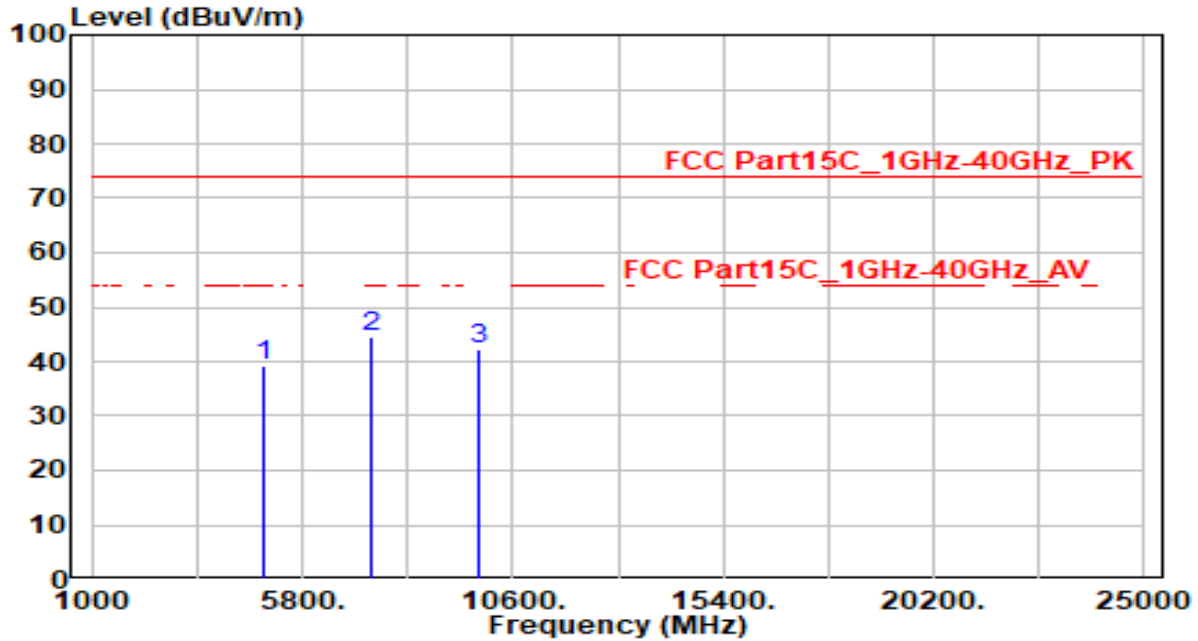


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	43.13	0.19	43.32	-30.68	74.00	100	360	Peak
2	* 7386.000	38.50	5.16	43.66	-30.34	74.00	100	360	Peak
3	9848.000	37.33	4.75	42.08	-31.92	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

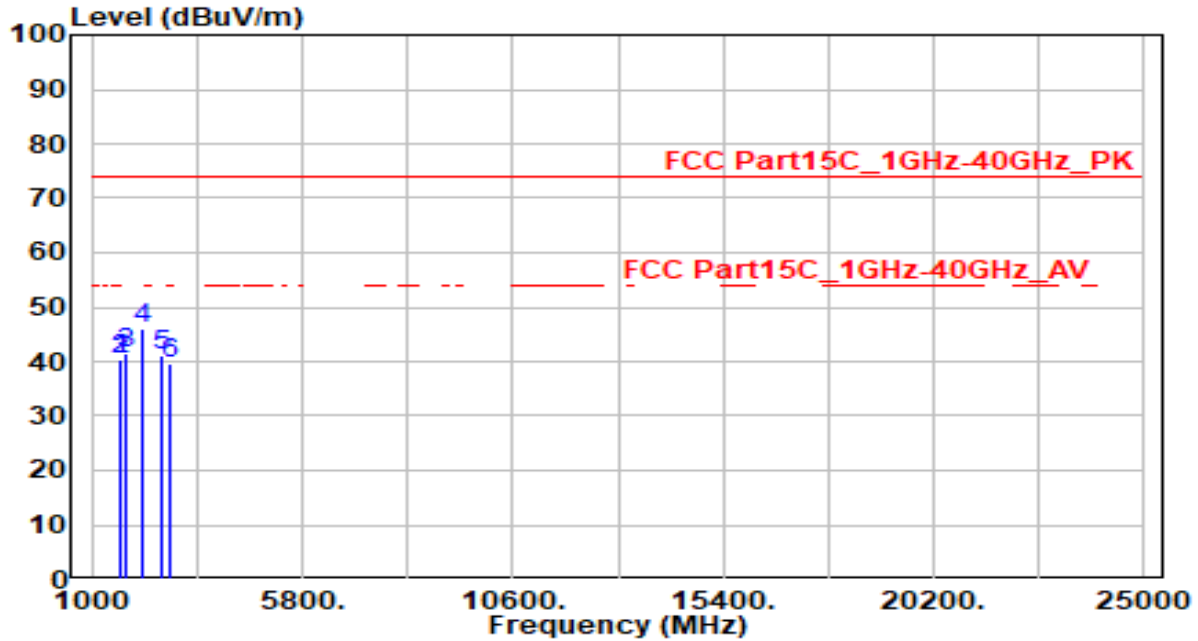


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	39.12	0.19	39.31	-34.69	74.00	100	360	Peak
2	* 7386.000	39.54	5.16	44.70	-29.30	74.00	100	360	Peak
3	9848.000	37.53	4.75	42.28	-31.72	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

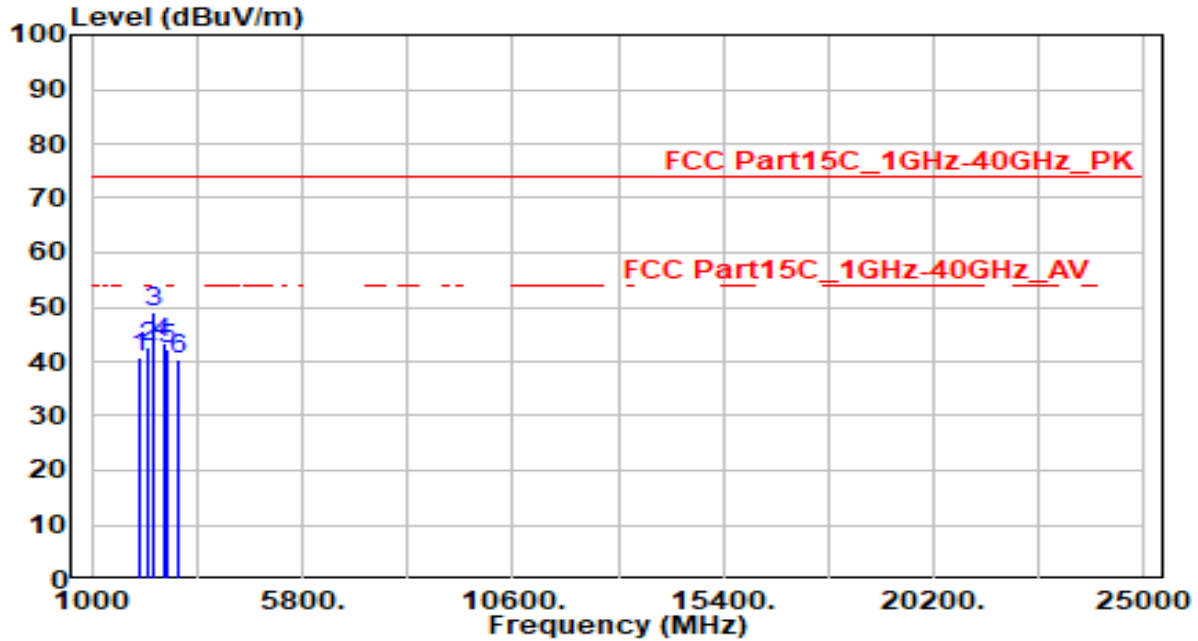


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	1640.156	47.70	-7.36	40.34	-33.66	74.00	100	360	Peak
2	1640.156	47.70	-7.36	40.34	-33.66	74.00	100	360	Peak
3	1759.688	48.75	-7.20	41.54	-32.46	74.00	100	360	Peak
4	* 2155.469	51.44	-5.53	45.91	-28.09	74.00	100	360	Peak
5	2623.500	45.72	-4.76	40.96	-33.04	74.00	100	360	Peak
6	2796.156	43.44	-3.98	39.46	-34.54	74.00	100	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2108.188	46.30	-5.65	40.65	-33.35	74.00	100	360	Peak
2	2288.281	47.85	-5.30	42.55	-31.45	74.00	100	360	Peak
3	* 2391.875	54.17	-5.13	49.04	-24.96	74.00	100	360	Peak
4	2627.219	48.06	-4.74	43.31	-30.69	74.00	100	360	Peak
5	2717.531	46.47	-4.34	42.13	-31.87	74.00	100	360	Peak
6	2996.438	43.79	-3.55	40.24	-33.76	74.00	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 * RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

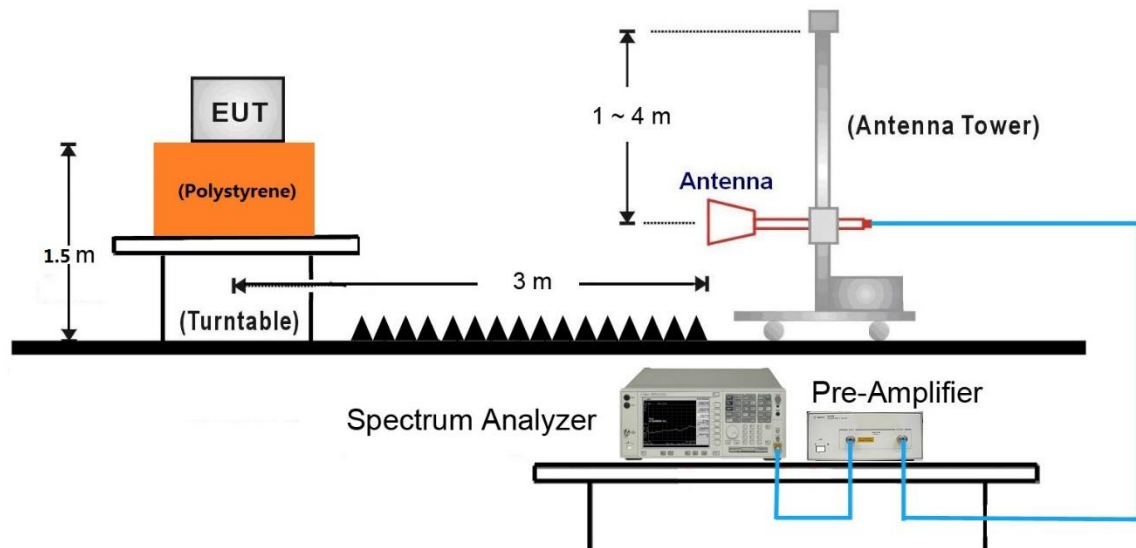
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

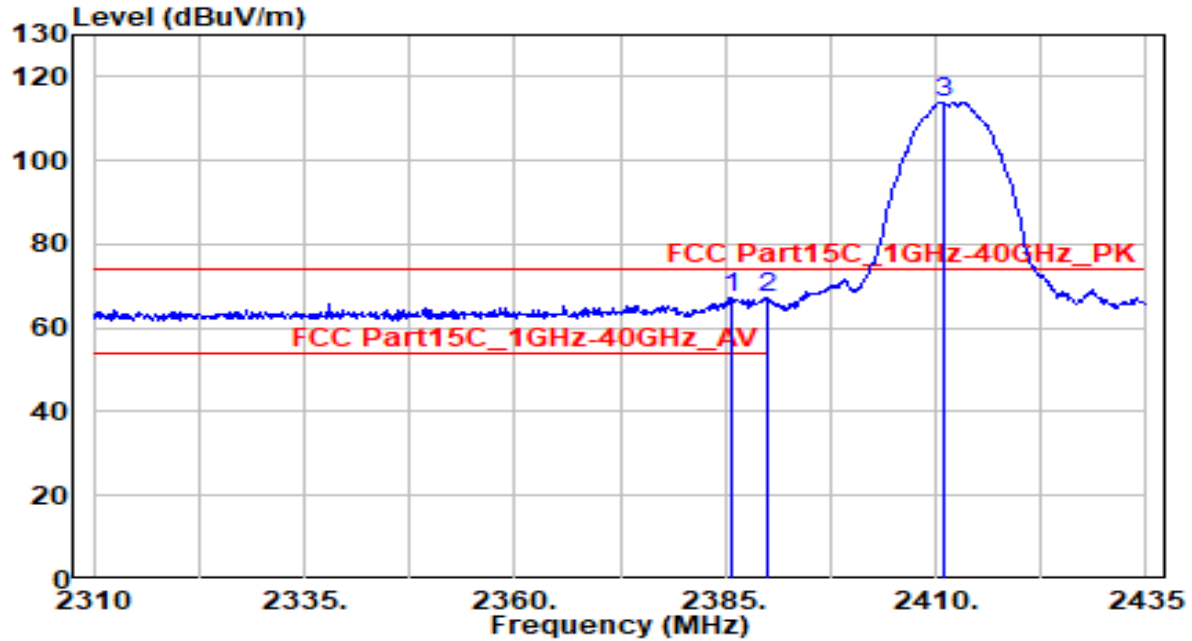
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

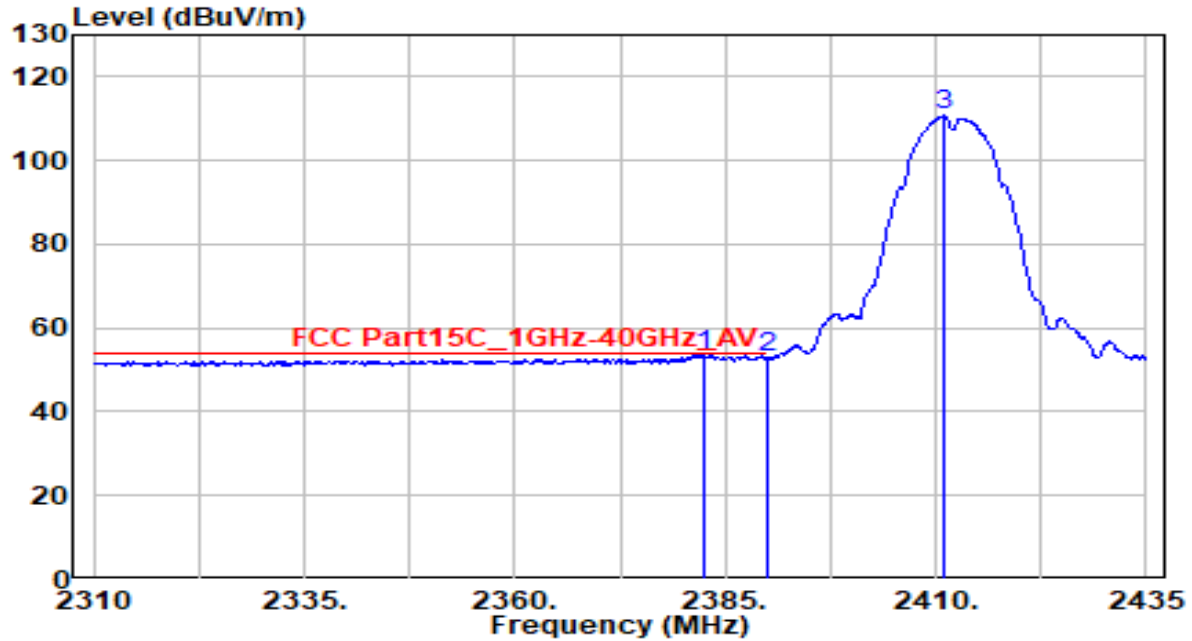


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2385.625	36.54	30.79	67.33	-6.67	74.00	150	15	Peak
2		2390.000	36.16	30.80	66.97	-7.03	74.00	150	15	Peak
3		2410.875	83.17	30.85	114.02	N/A	N/A	150	15	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

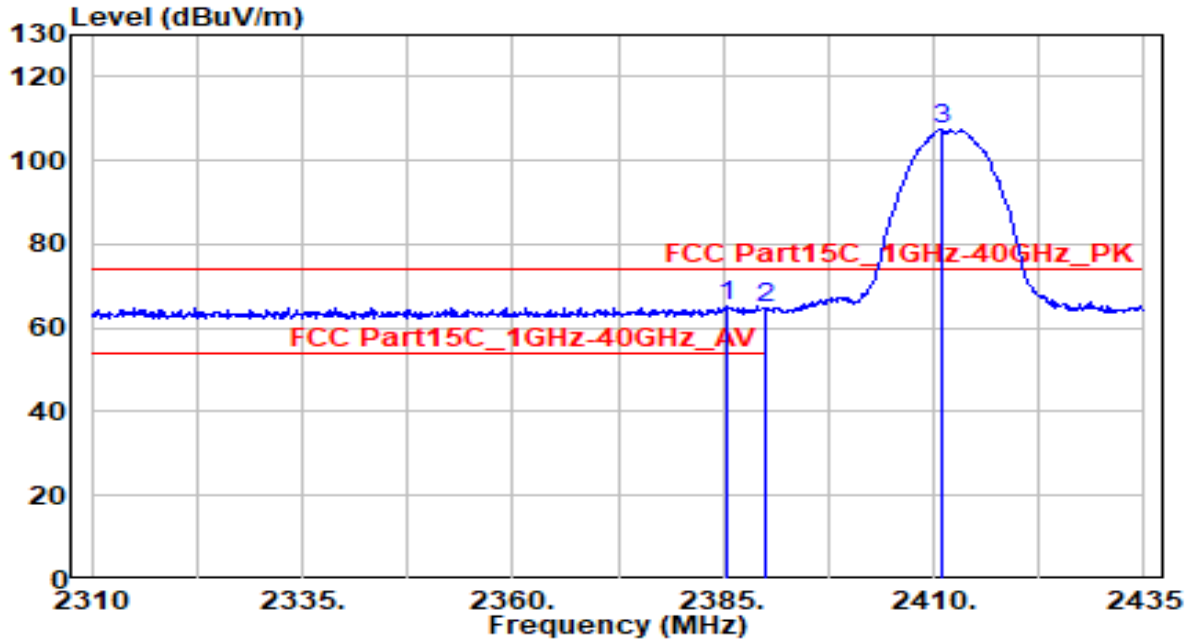


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2382.625	22.78	30.79	53.57	-0.43	54.00	150	15	Average
2		2390.000	21.98	30.80	52.79	-1.21	54.00	150	15	Average
3		2411.000	79.79	30.85	110.64	N/A	N/A	150	15	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

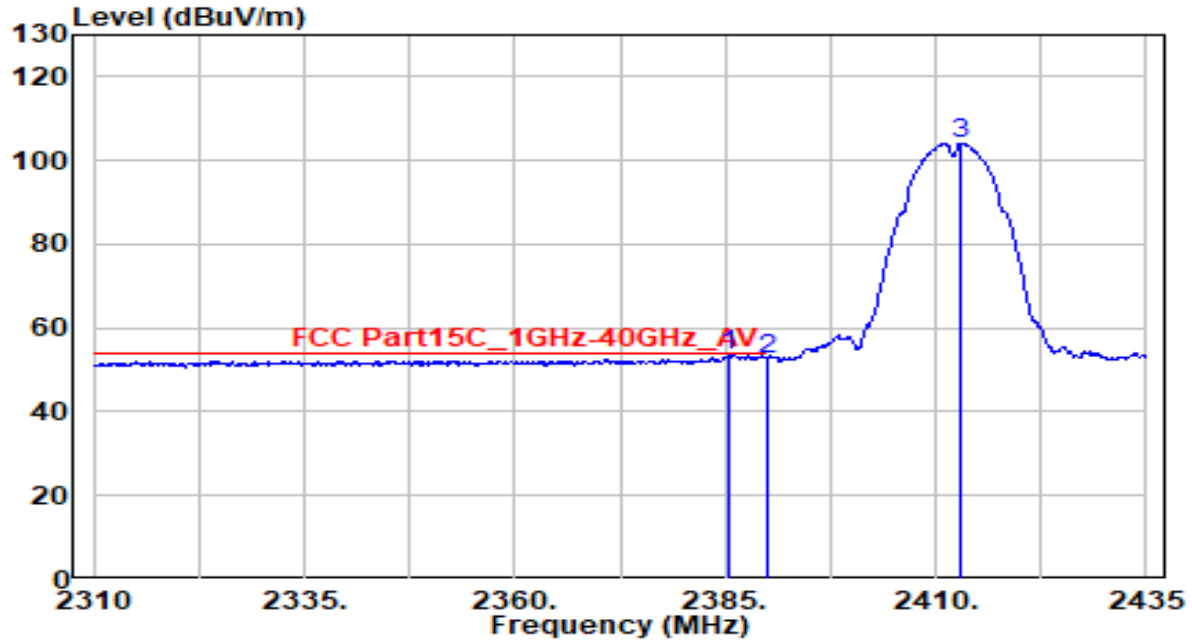


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2385.375	34.26	30.79	65.05	-8.95	74.00	300	310	Peak
2	2390.000	33.93	30.80	64.73	-9.27	74.00	300	310	Peak
3	2410.875	76.52	30.85	107.36	N/A	N/A	300	310	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C /64%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

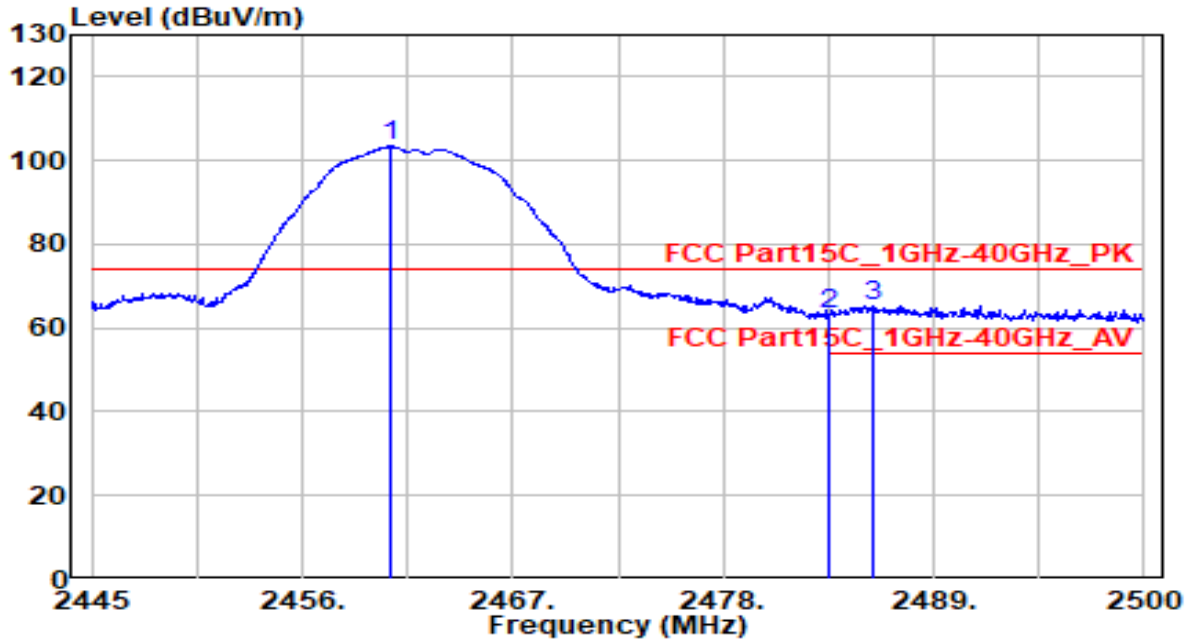


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2385.500	22.78	30.79	53.57	-0.43	54.00	300	310	Average
2		2390.000	21.76	30.80	52.57	-1.43	54.00	300	310	Average
3		2413.000	73.37	30.85	104.22	N/A	N/A	300	310	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C /64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

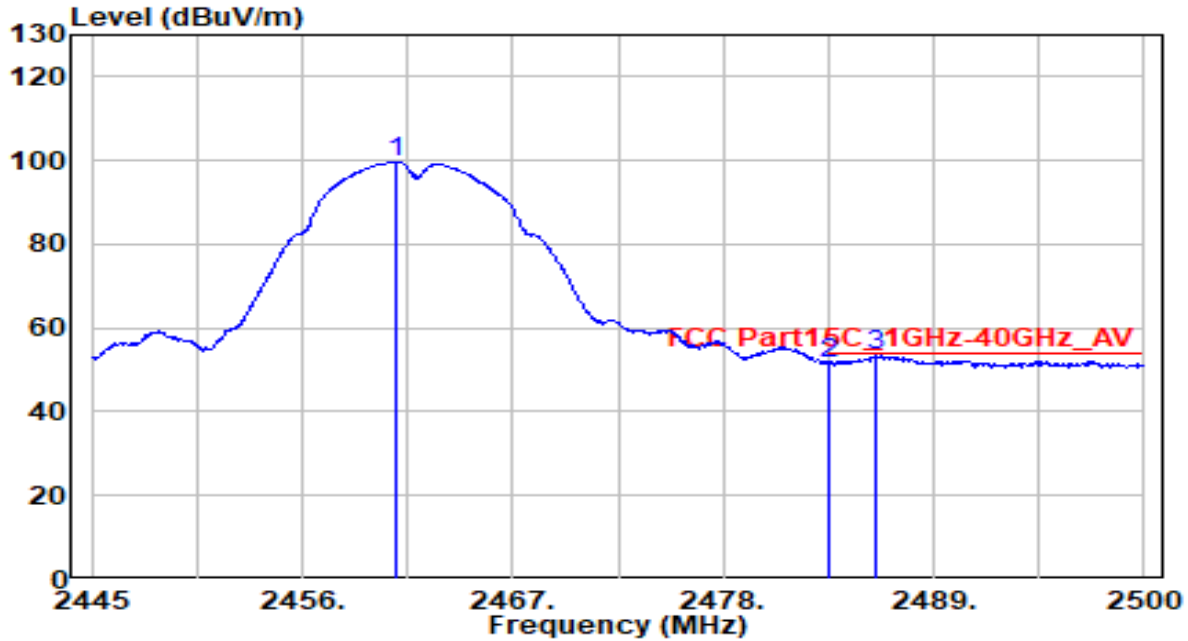


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.675	72.37	30.94	103.31	N/A	N/A	330	350	Peak
2	2483.500	32.23	30.99	63.22	-10.78	74.00	330	350	Peak
3	* 2485.865	34.27	30.99	65.27	-8.73	74.00	330	350	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Module	Date of Test	2022-01-18
Factor	DRH18-E	Temp. / Humidity	21°C / 64%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.840	68.79	30.94	99.74	N/A	N/A	330	350	Average
2	2483.500	20.28	30.99	51.27	-2.73	54.00	330	350	Average
3	* 2486.030	22.50	30.99	53.49	-0.51	54.00	330	350	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.