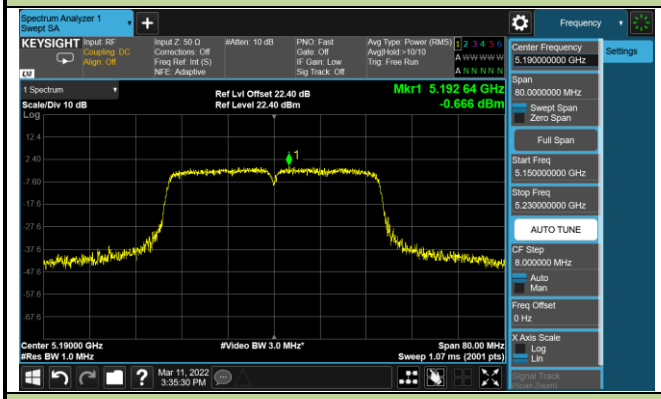
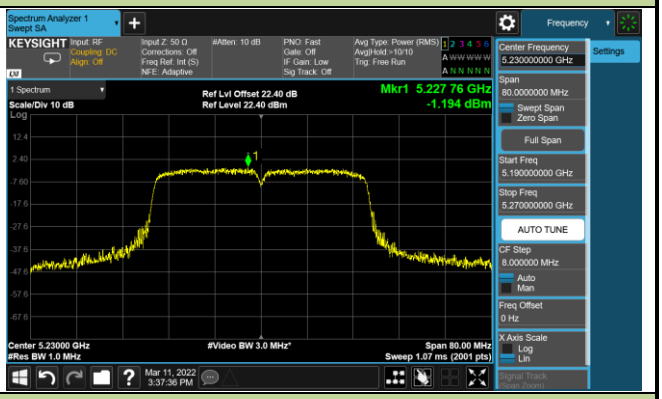
802.11n-HT40 Power Spectral Density

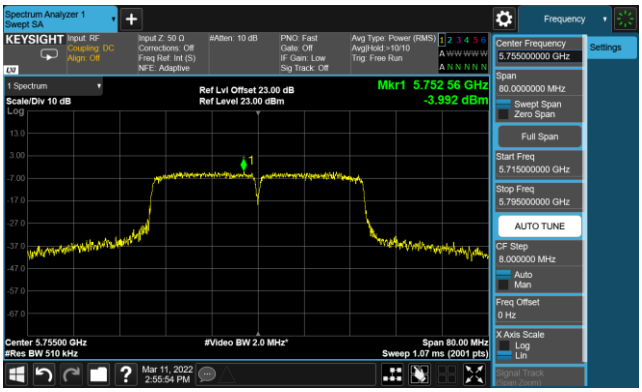
Channel 38 (5190MHz)



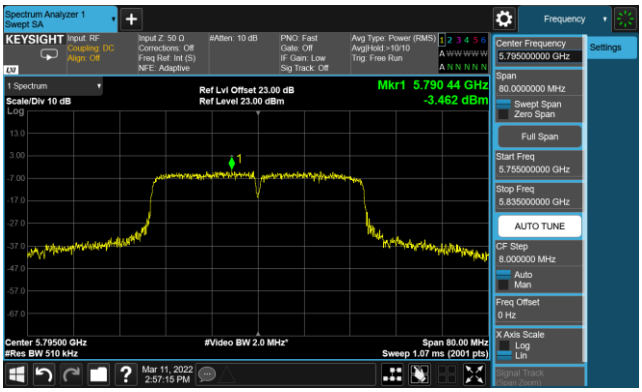
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



7.7. Radiated Spurious Emission 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

KDB 789033 D02v02r01 – Section G

7.7.3. Test Setting

Peak Measurements above 1GHz

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

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

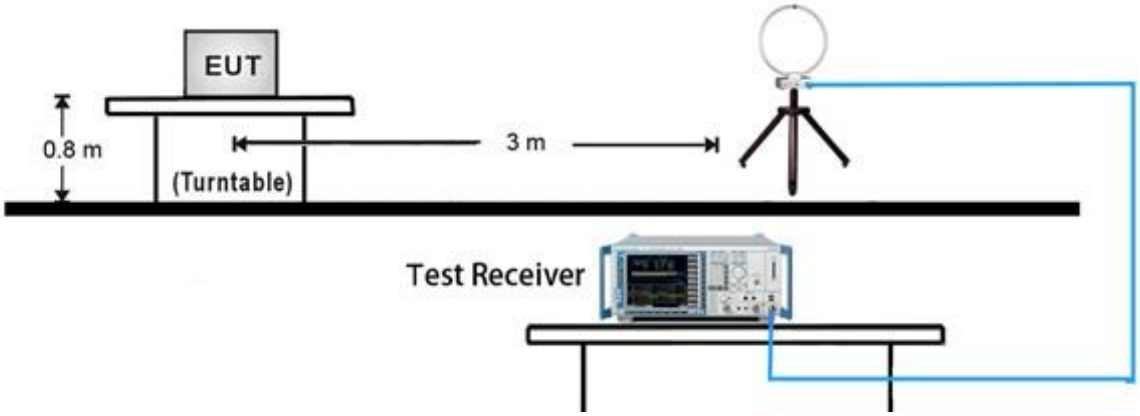
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be > 2 x span/RBW)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

Quasi-Peak & Average Measurements below 30MHz

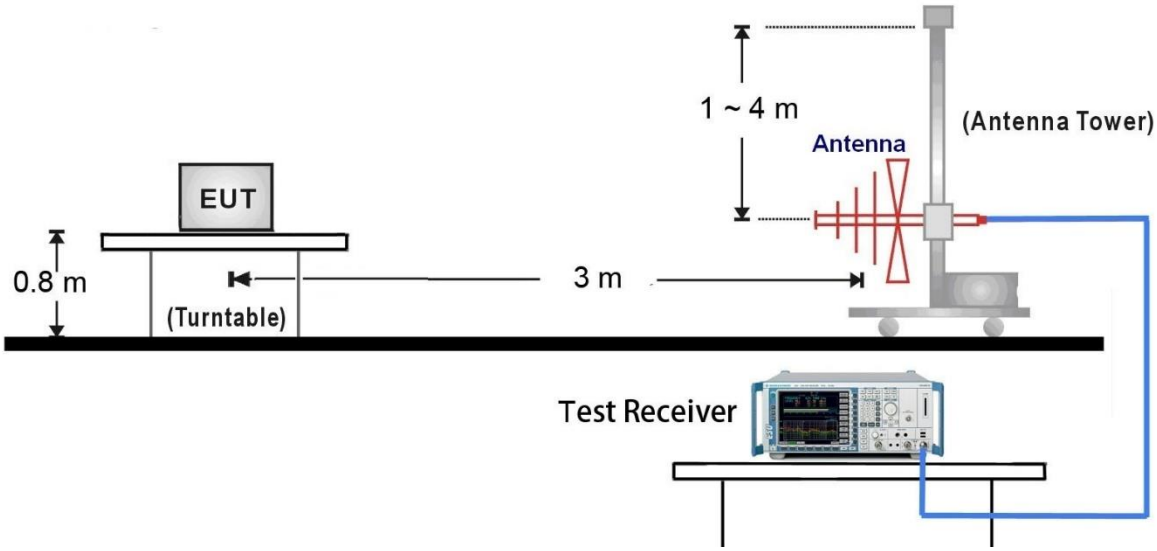
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 200Hz for 9kHz to 150kHz frequency; RBW = 9kHz for 0.15MHz to 30MHz frequency
4. Detector = CISPR quasi-peak or power average (Average)
5. Sweep time = auto couple
6. Trace was allowed to stabilize

7.7.4. Test Setup

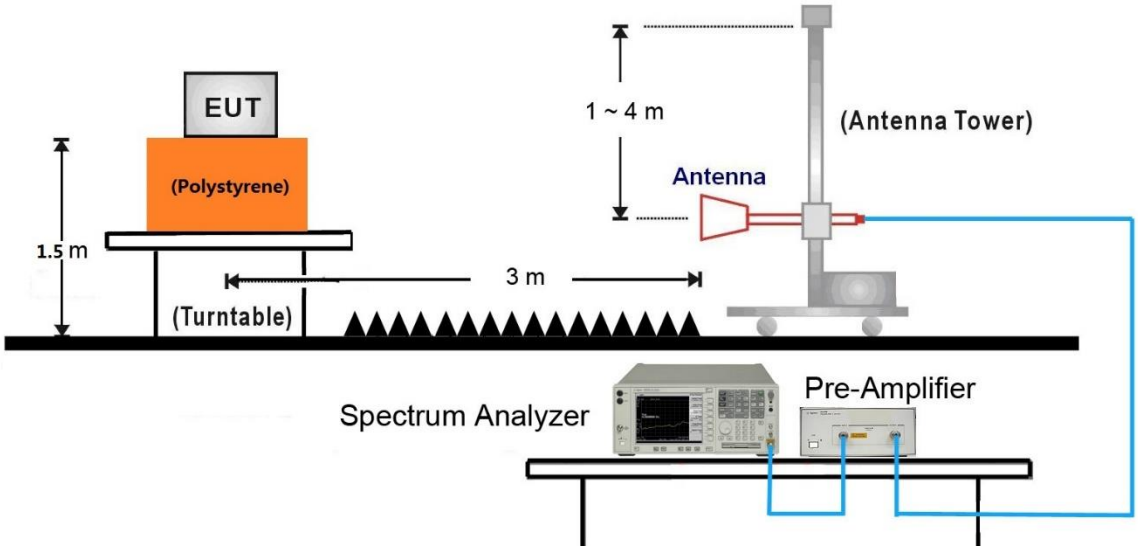
9kHz ~ 30MHz Test Setup:



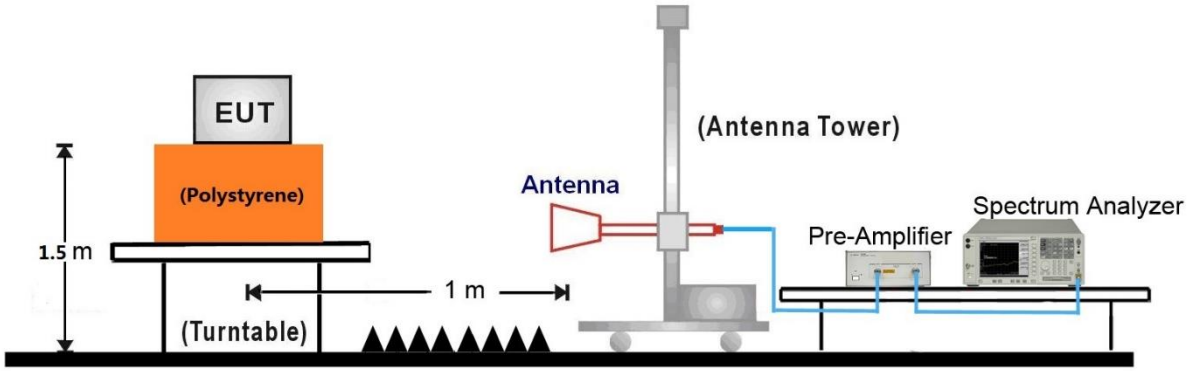
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:

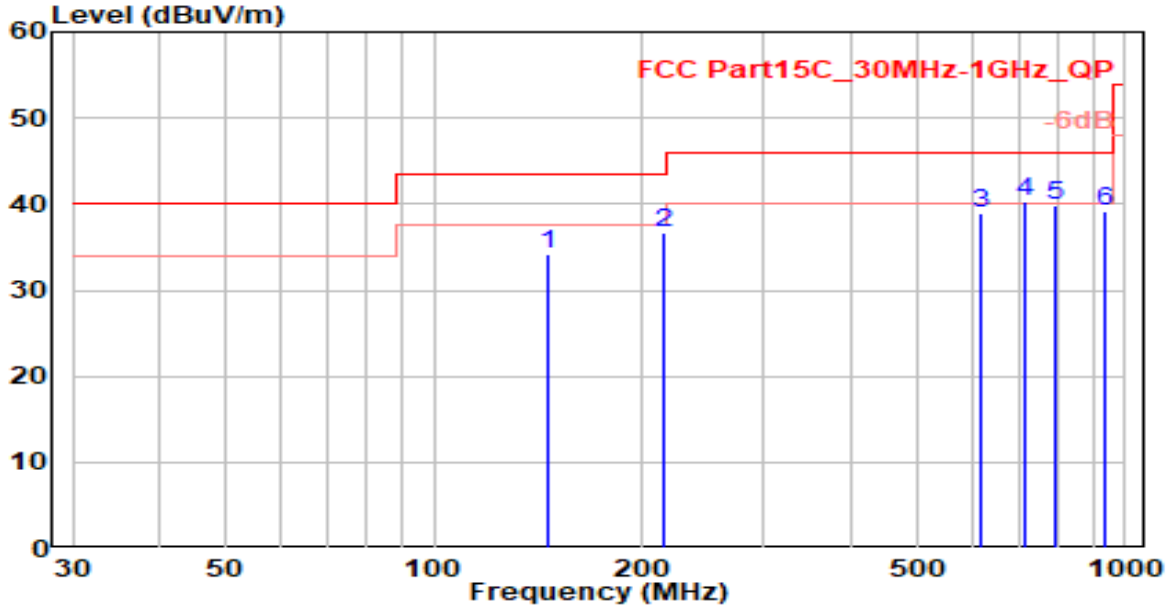


18GHz ~40GHz Test Setup:



7.7.5. Test Result

EUT	Smart Projector	Date of Test	2022-02-21
Factor	VULB 9162	Temp. / Humidity	19°C /63%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

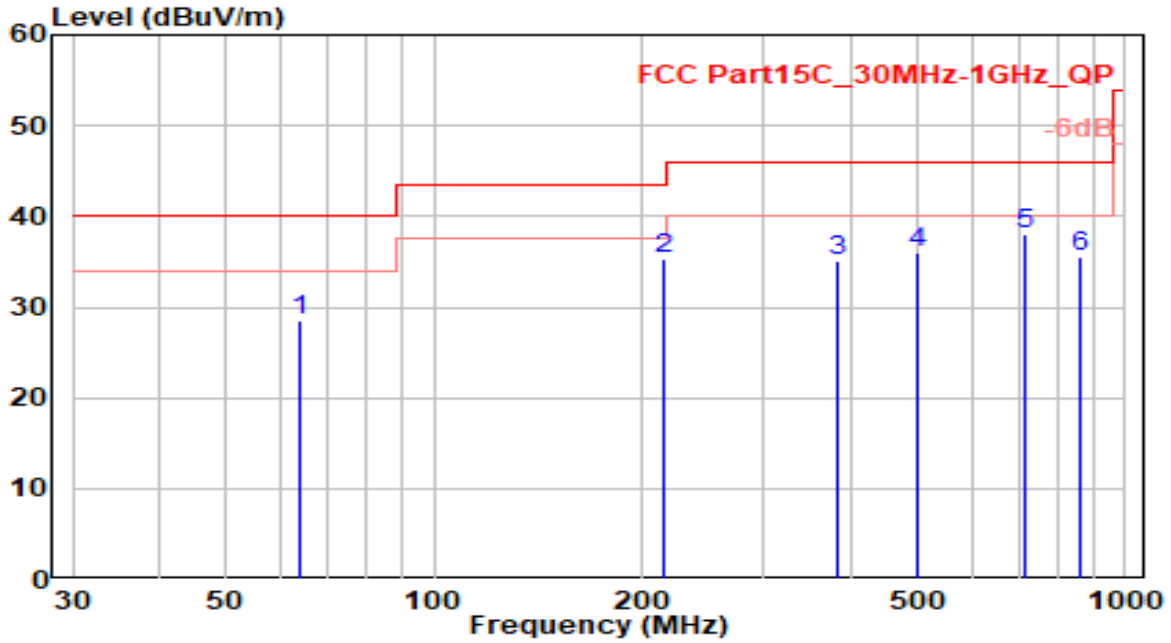


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		146.400	18.42	15.69	34.11	-9.39	43.50	200	300	QP
2		215.270	17.74	18.86	36.60	-6.90	43.50	150	325	QP
3		619.760	11.17	27.88	39.05	-6.95	46.00	125	355	QP
4	*	718.700	11.14	29.18	40.31	-5.69	46.00	100	135	QP
5		790.480	9.92	29.84	39.76	-6.24	46.00	100	145	QP
6		934.040	7.43	31.63	39.07	-6.93	46.00	100	300	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 (frequencyrangefrom9kHz to 30MHz and 18GHz to 40GHz)is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

EUT	Smart Projector	Date of Test	2022-02-21
Factor	VULB 9162	Temp. / Humidity	19°C /63%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

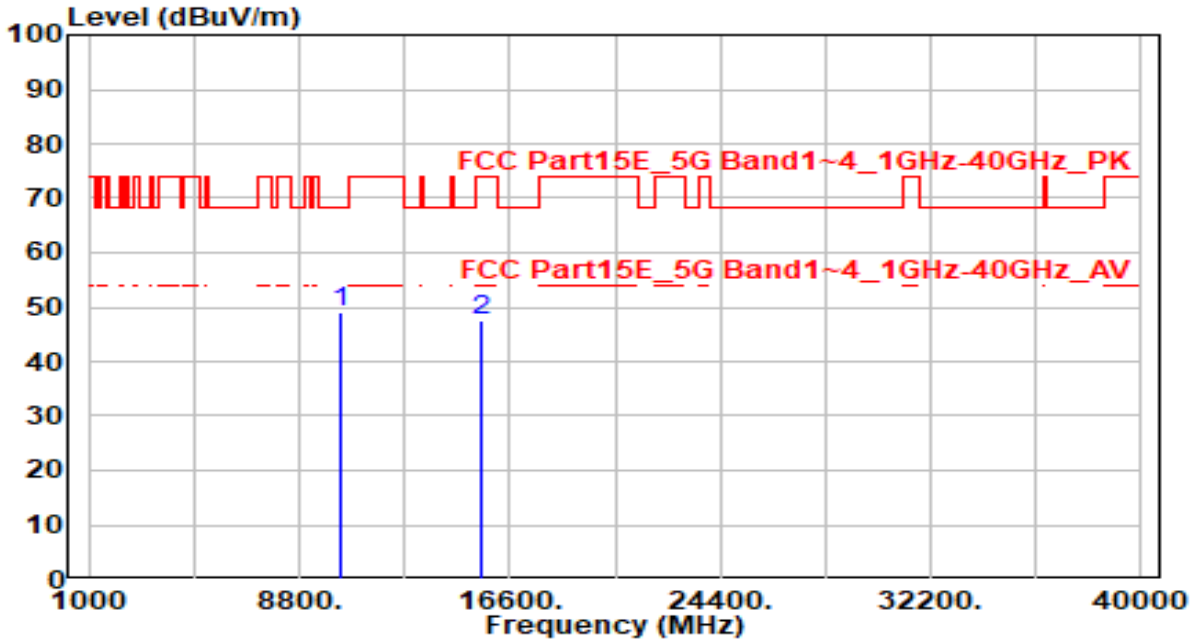


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		63.950	9.89	18.56	28.45	-11.55	40.00	120	360	QP
2		215.270	16.43	18.86	35.28	-8.22	43.50	100	80	QP
3		383.080	11.51	23.67	35.19	-10.81	46.00	100	280	QP
4		502.390	10.18	25.75	35.94	-10.06	46.00	100	230	QP
5	*	718.700	8.83	29.18	38.01	-7.99	46.00	150	15	QP
6		862.260	4.45	31.09	35.55	-10.45	46.00	100	25	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 (frequencyrangefrom9kHz to 30MHz and 18GHz to 40GHz)is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

EUT	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

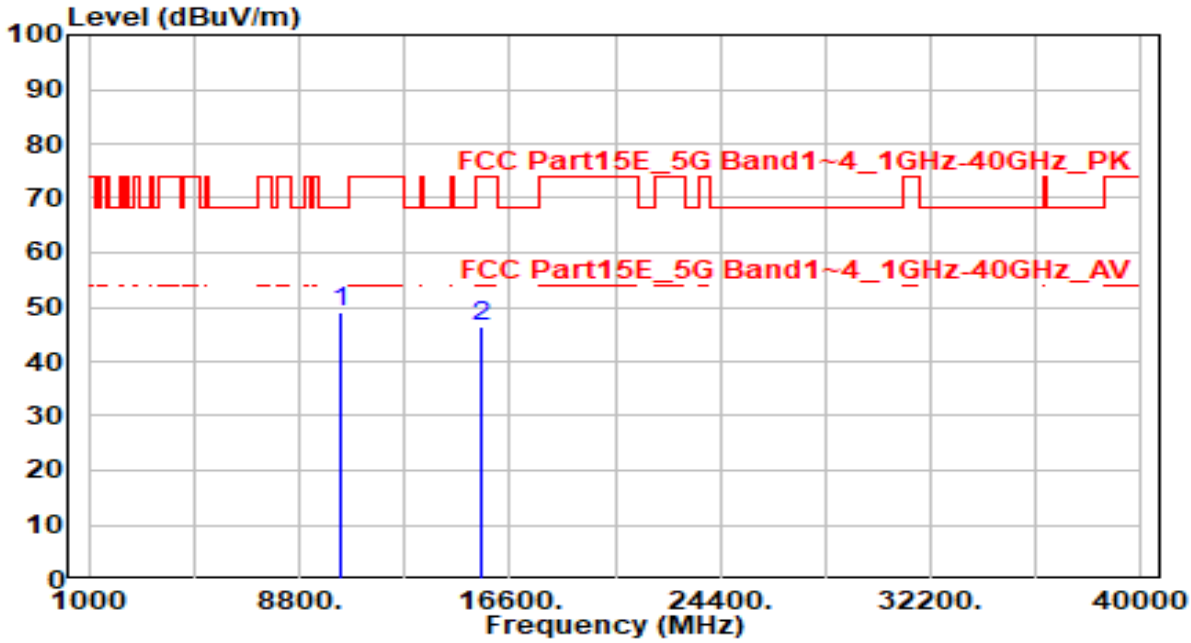


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10360.000	44.75	4.29	49.04	-19.16	68.20	200	95	Peak
2		15540.000	40.70	6.82	47.52	-26.48	74.00	205	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

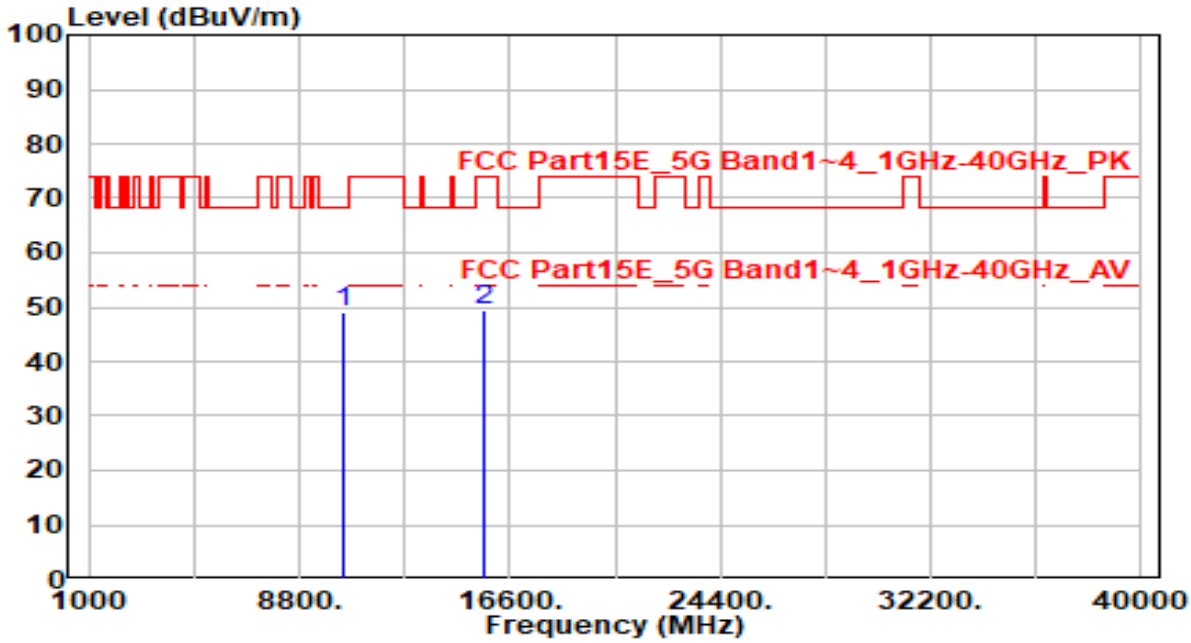


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10360.000	44.92	4.29	49.21	-18.99	68.20	200	105	Peak
2		15540.000	39.61	6.82	46.43	-27.57	74.00	240	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz

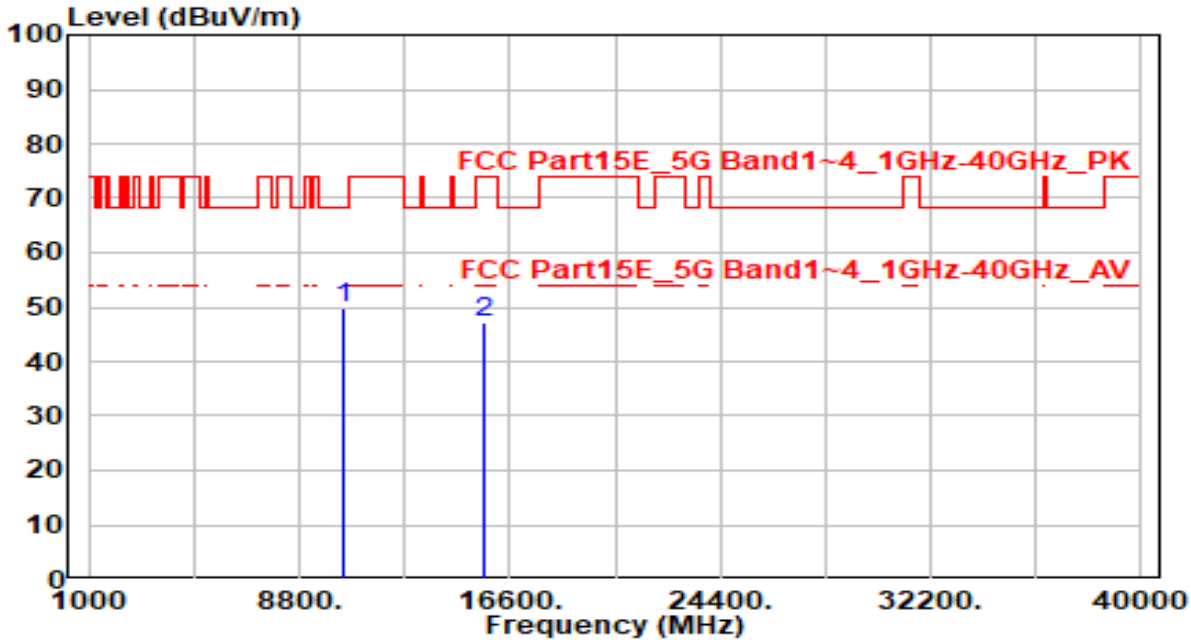


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10440.000	44.72	4.38	49.10	-19.10	68.20	300	60	Peak
2		15660.000	42.39	6.86	49.26	-24.74	74.00	300	250	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz

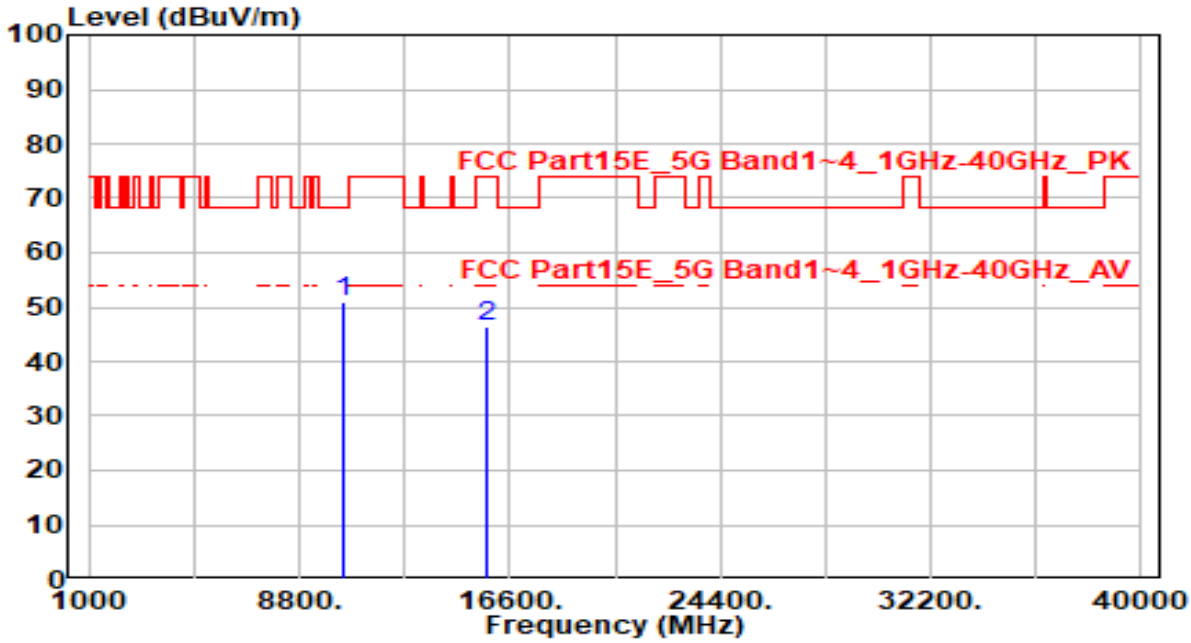


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10440.000	45.42	4.38	49.79	-18.41	68.20	300	330	Peak
2		15660.000	40.38	6.86	47.24	-26.76	74.00	100	245	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 48_ANT 0	Test Voltage	AC 120V/60Hz

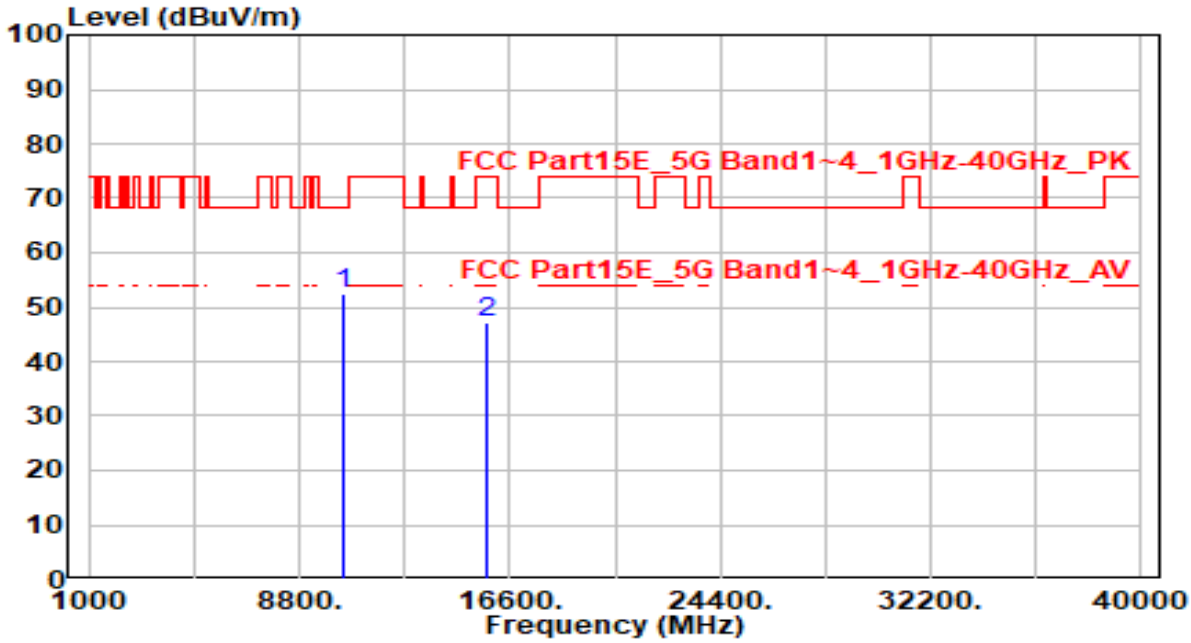


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10480.000	46.65	4.43	51.08	-17.12	68.20	285	0	Peak
2		15720.000	39.63	6.90	46.54	-27.46	74.00	100	15	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 48_ANT 0	Test Voltage	AC 120V/60Hz

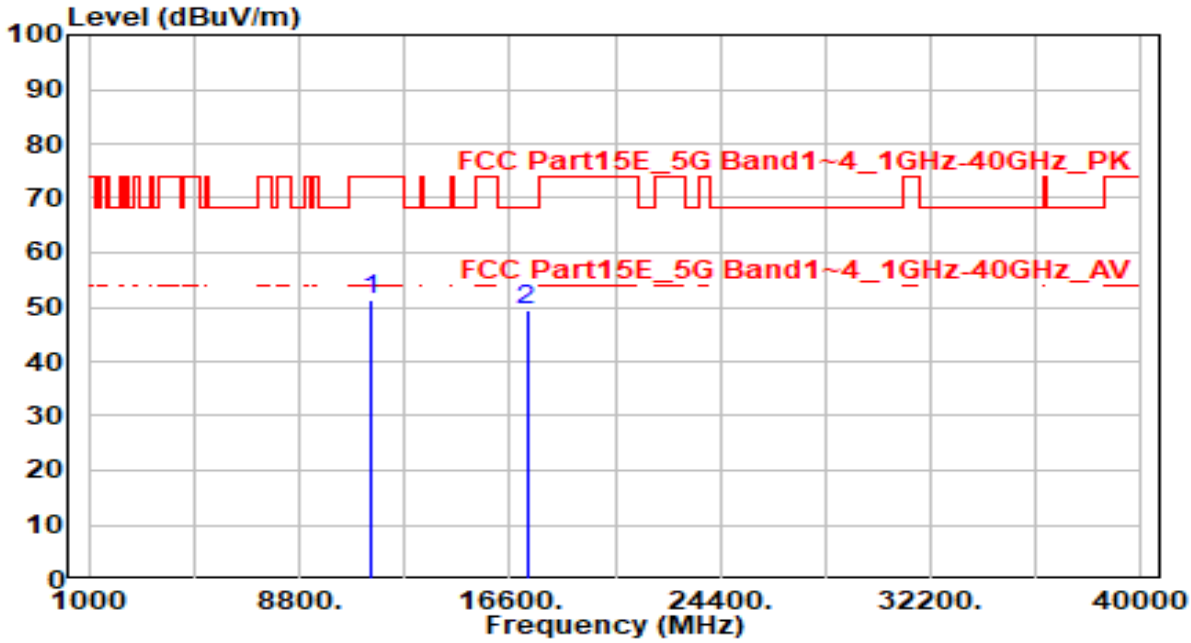


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10480.000	48.03	4.43	52.46	-15.74	68.20	200	320	Peak
2		15720.000	40.42	6.90	47.32	-26.68	74.00	300	200	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

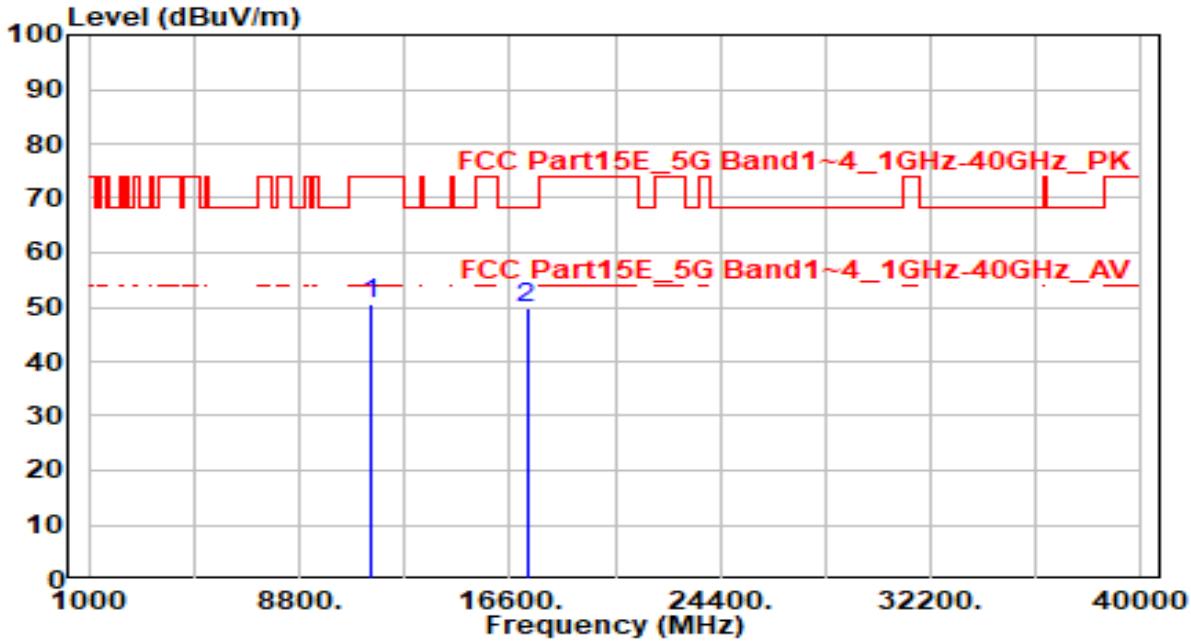


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11490.000	46.42	4.80	51.22	-22.78	74.00	100	15	Peak
2	*	17235.000	42.41	7.03	49.43	-18.77	68.20	300	45	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

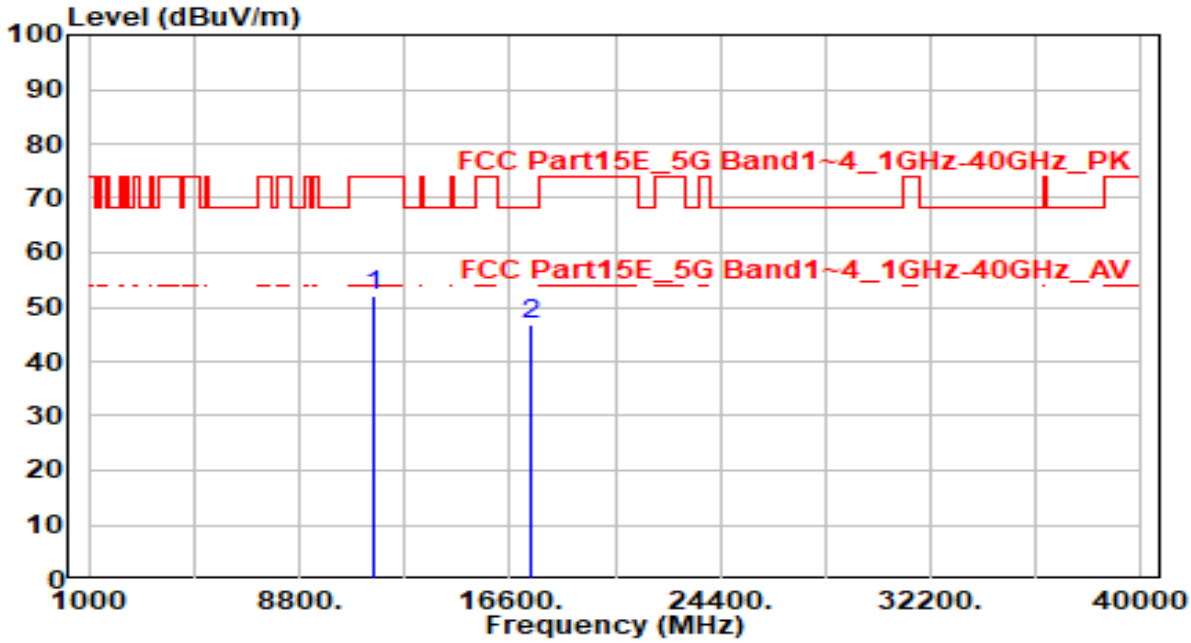


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11490.000	45.83	4.80	50.63	-23.37	74.00	300	310	Peak
2	*	17235.000	42.87	7.03	49.89	-18.31	68.20	230	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 157_ANT 0	Test Voltage	AC 120V/60Hz

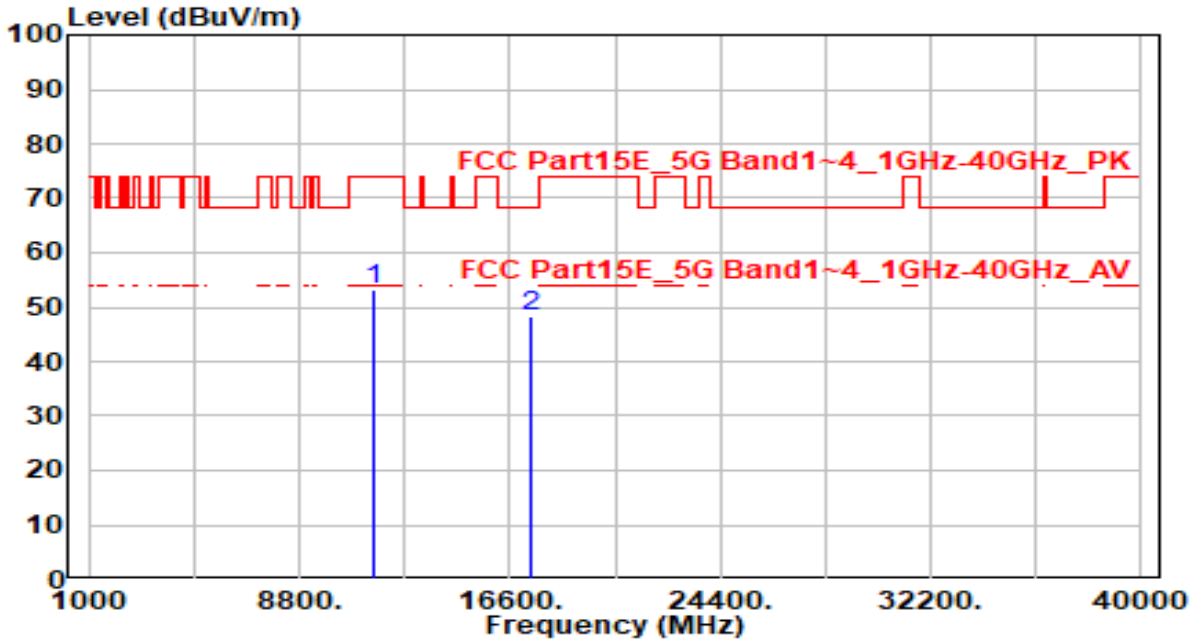


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11570.000	47.35	4.77	52.12	-21.88	74.00	200	90	Peak
2	*	17355.000	39.53	7.21	46.74	-21.46	68.20	200	255	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 157_ANT 0	Test Voltage	AC 120V/60Hz

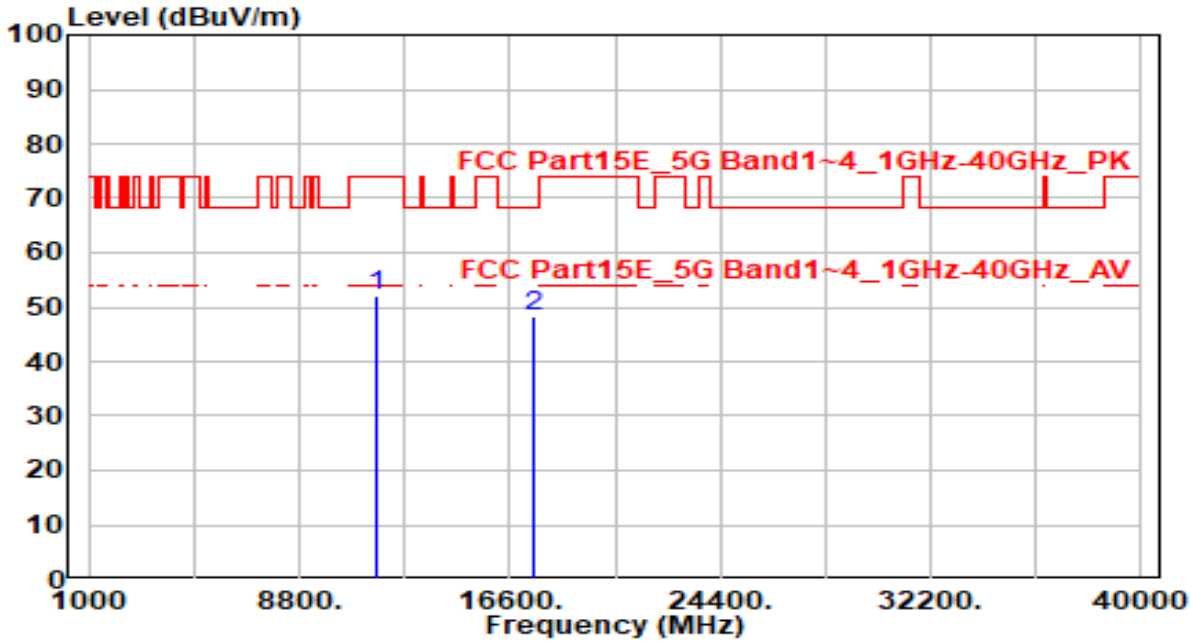


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11570.000	48.26	4.77	53.02	-20.98	74.00	300	315	Peak
2	*	17355.000	40.93	7.21	48.14	-20.06	68.20	200	10	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

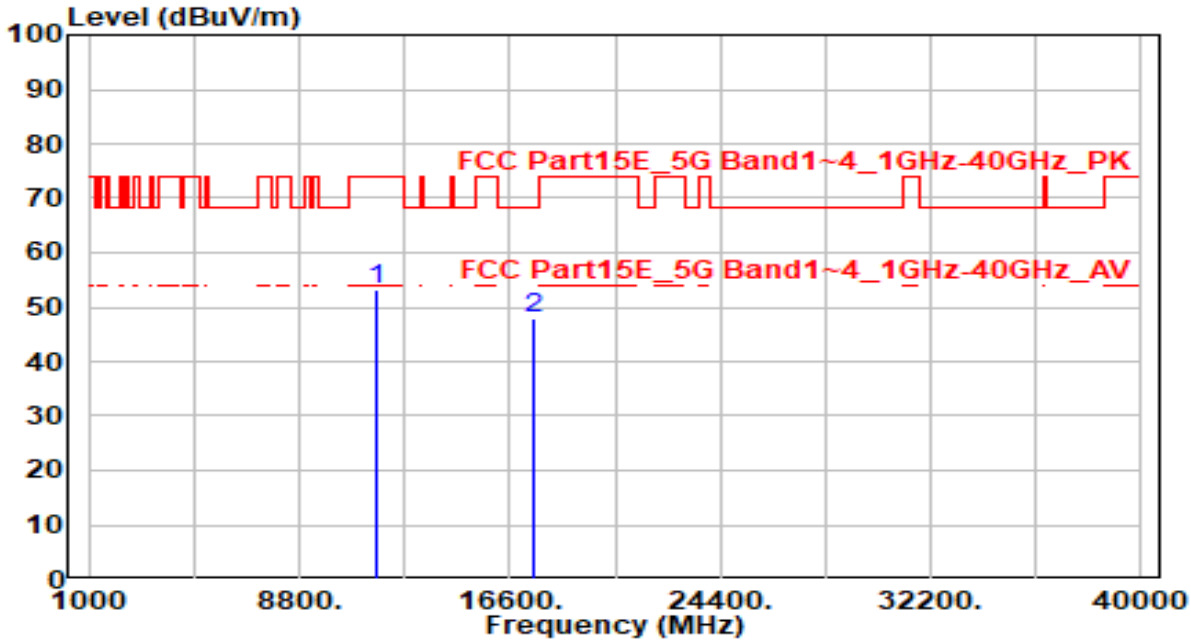


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11650.000	47.40	4.73	52.13	-21.87	74.00	200	60	Peak
2	*	17475.000	40.87	7.48	48.35	-19.85	68.20	200	360	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

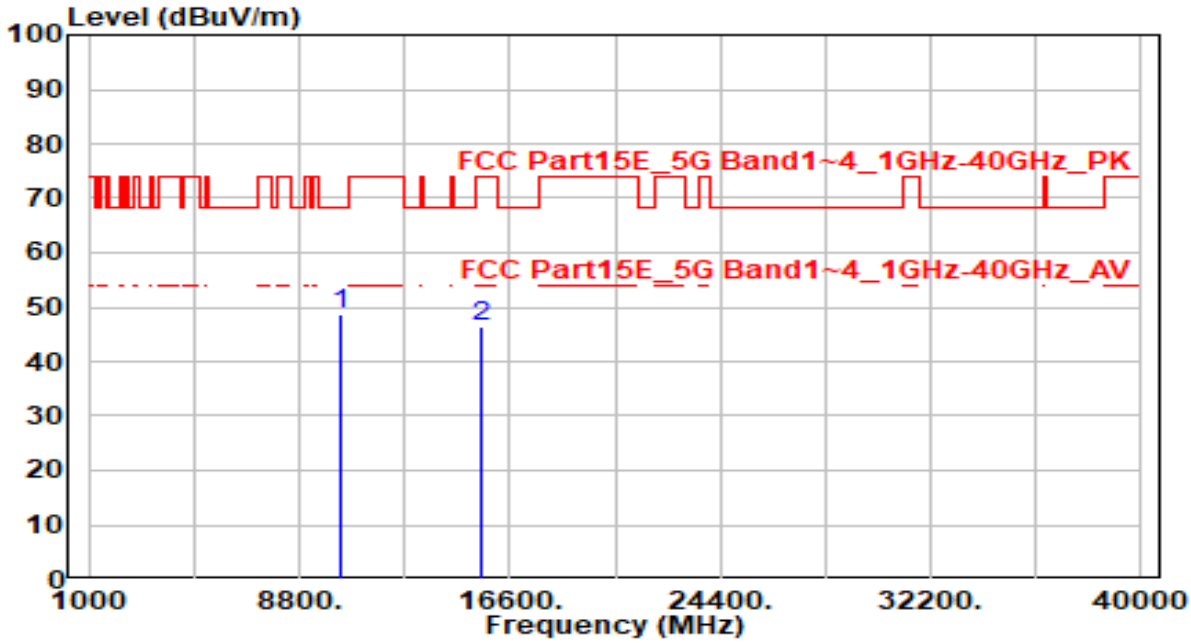


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11650.000	48.58	4.73	53.31	-20.69	74.00	300	310	Peak
2	*	17475.000	40.56	7.48	48.04	-20.16	68.20	200	75	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

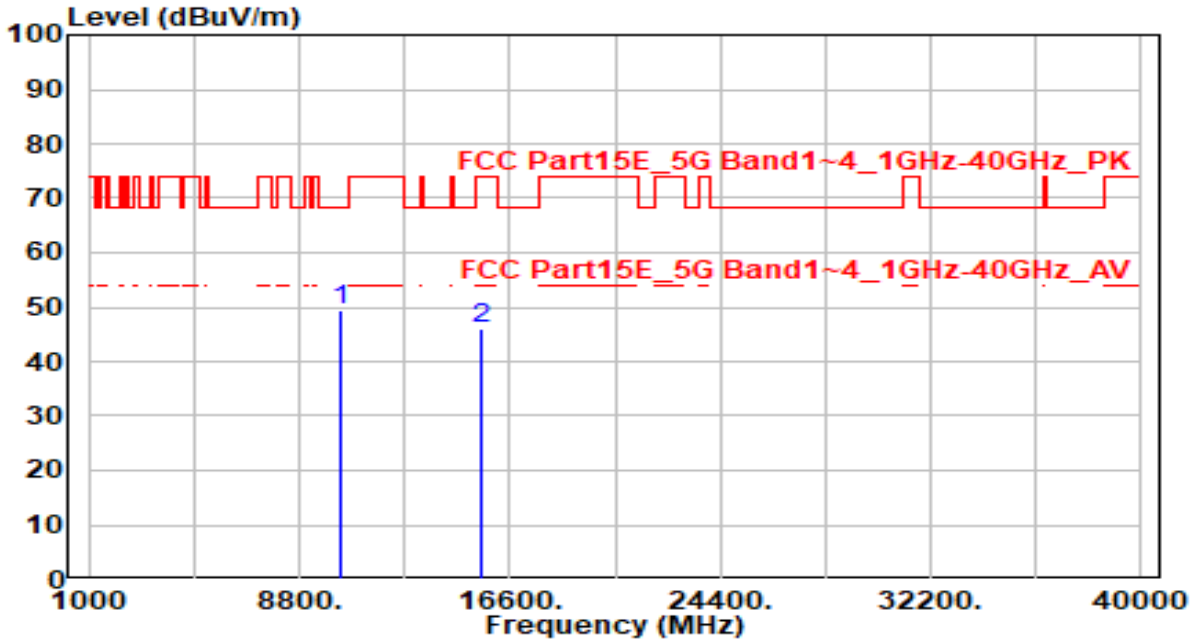


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10360.000	44.40	4.29	48.69	-19.51	68.20	275	0	Peak
2		15540.000	39.55	6.82	46.37	-27.63	74.00	200	305	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

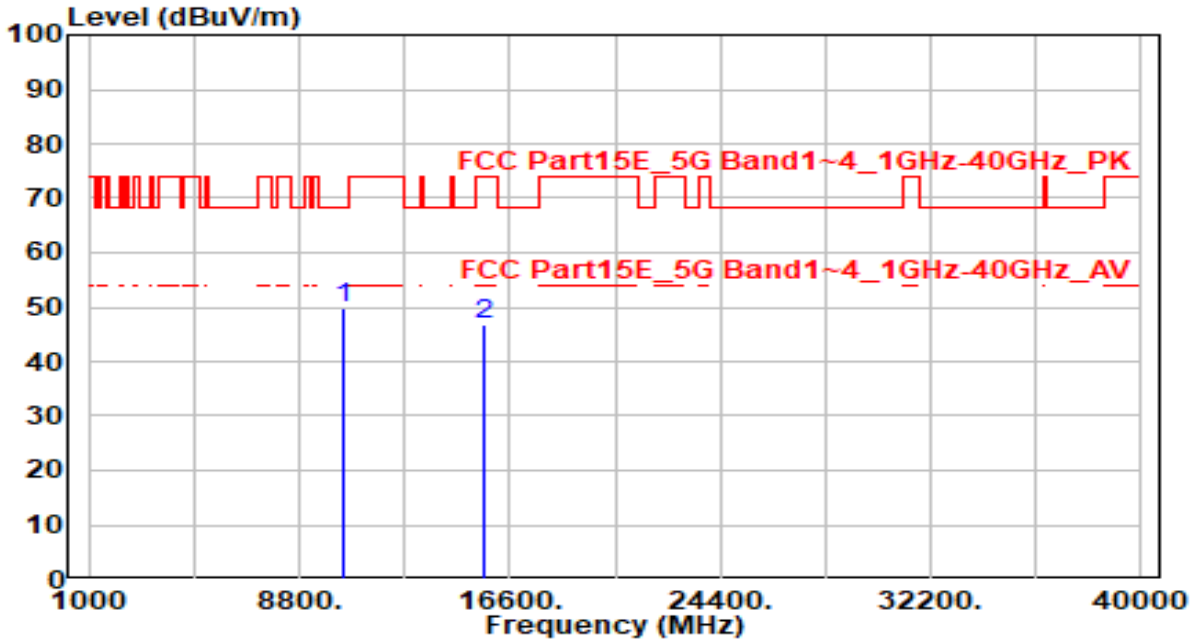


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10360.000	45.19	4.29	49.48	-18.72	68.20	300	335	Peak
2		15540.000	39.05	6.82	45.87	-28.13	74.00	200	110	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz

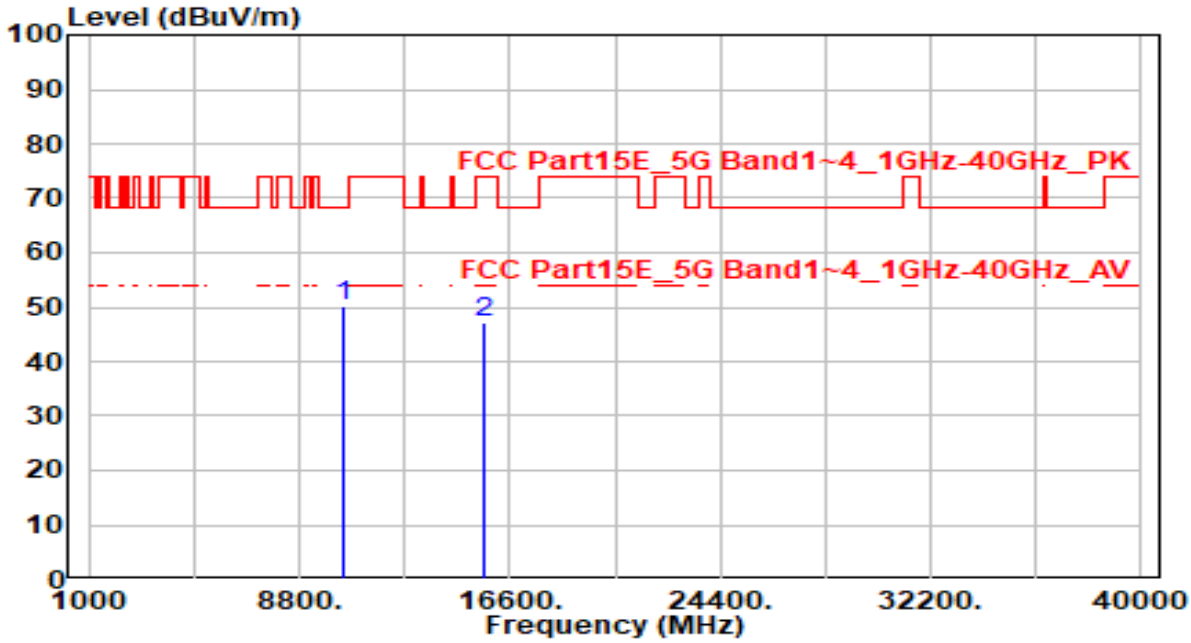


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10440.000	45.62	4.38	49.99	-18.21	68.20	200	315	Peak
2		15660.000	40.02	6.86	46.88	-27.12	74.00	200	360	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz

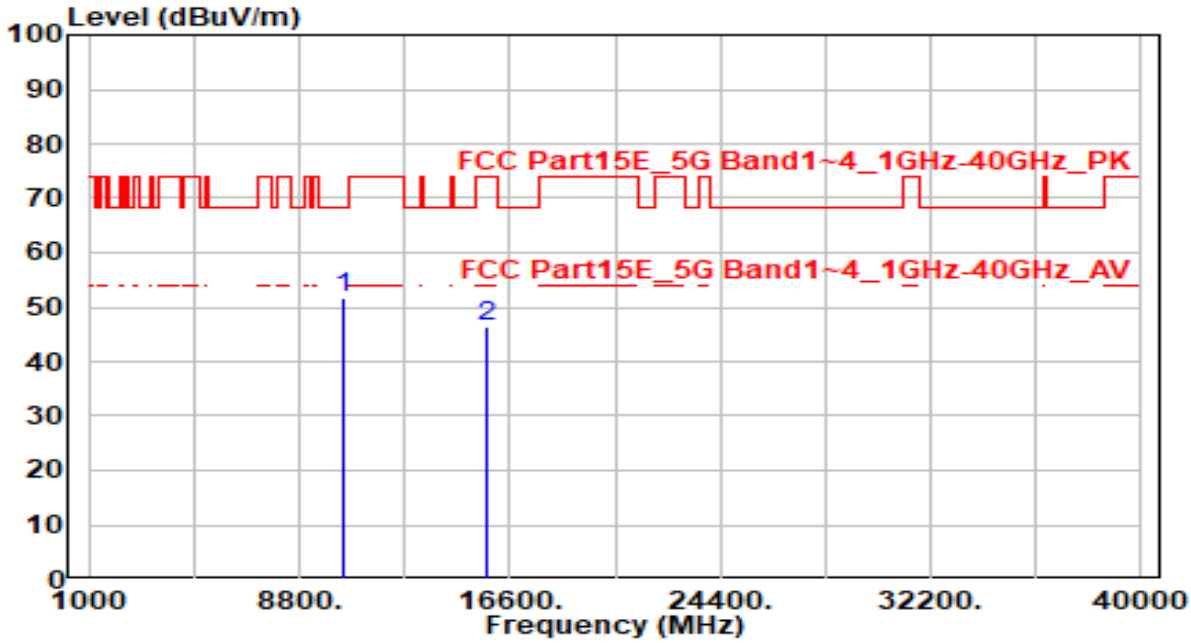


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10440.000	45.98	4.38	50.36	-17.84	68.20	100	320	Peak
2		15660.000	40.24	6.86	47.11	-26.89	74.00	300	215	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 48_ANT 0	Test Voltage	AC 120V/60Hz

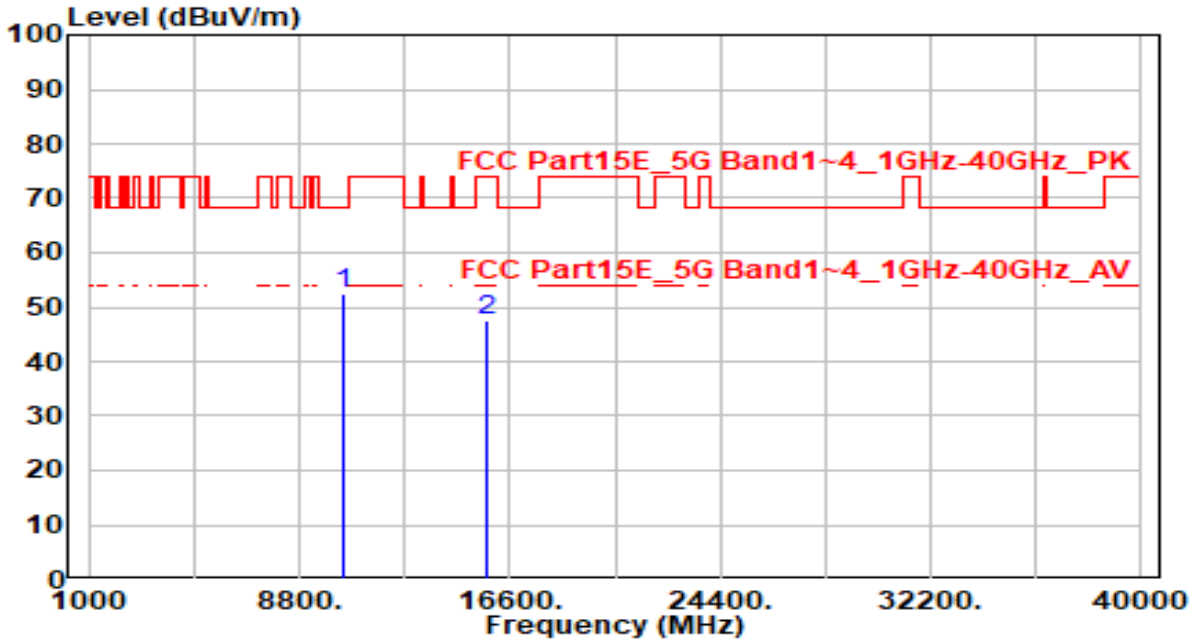


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10480.000	47.41	4.43	51.84	-16.36	68.20	285	0	Peak
2		15720.000	39.46	6.90	46.36	-27.64	74.00	125	360	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 48_ANT 0	Test Voltage	AC 120V/60Hz

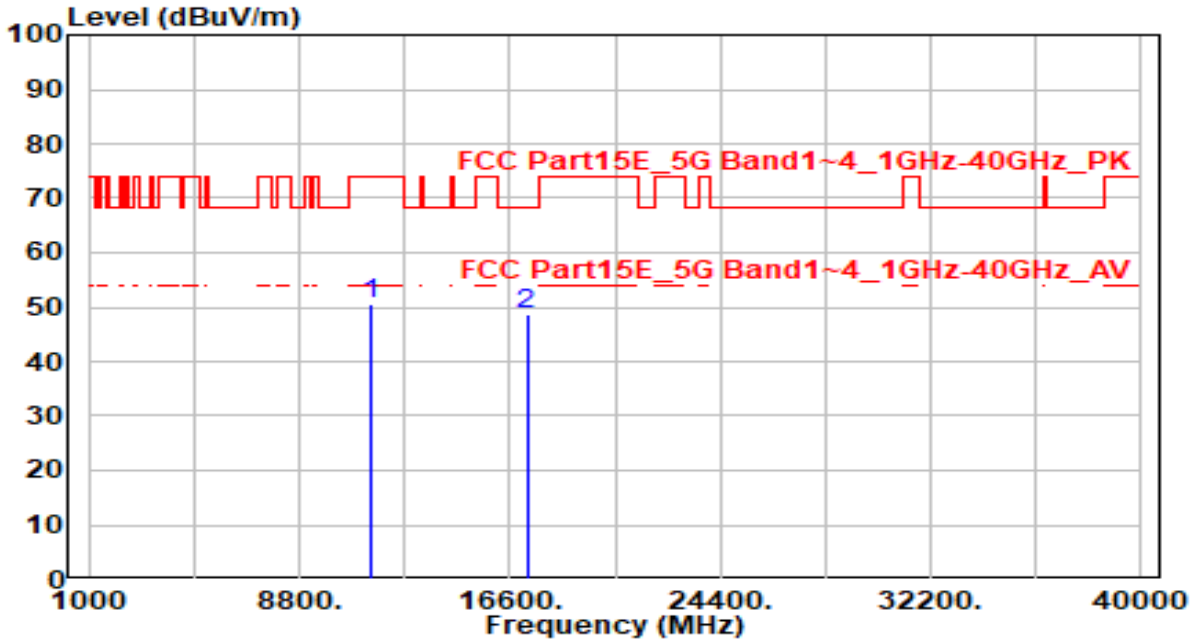


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10480.000	48.02	4.43	52.45	-15.75	68.20	300	335	Peak
2		15720.000	40.49	6.90	47.39	-26.61	74.00	200	80	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

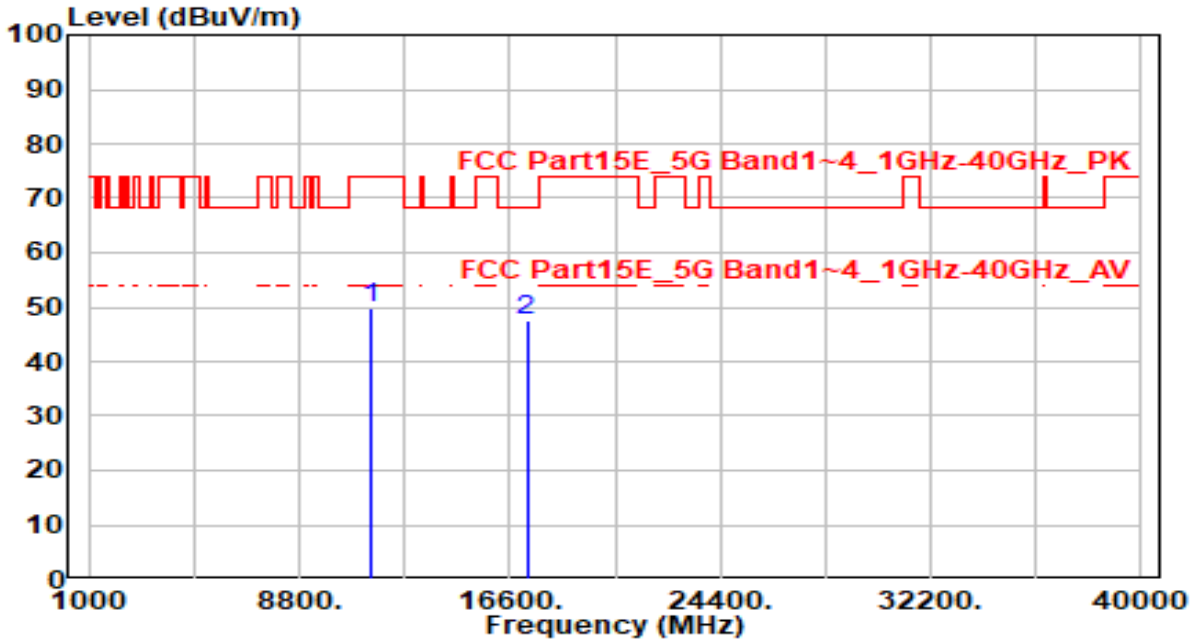


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11490.000	45.65	4.80	50.45	-23.55	74.00	300	60	Peak
2	*	17235.000	41.71	7.03	48.74	-19.46	68.20	300	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

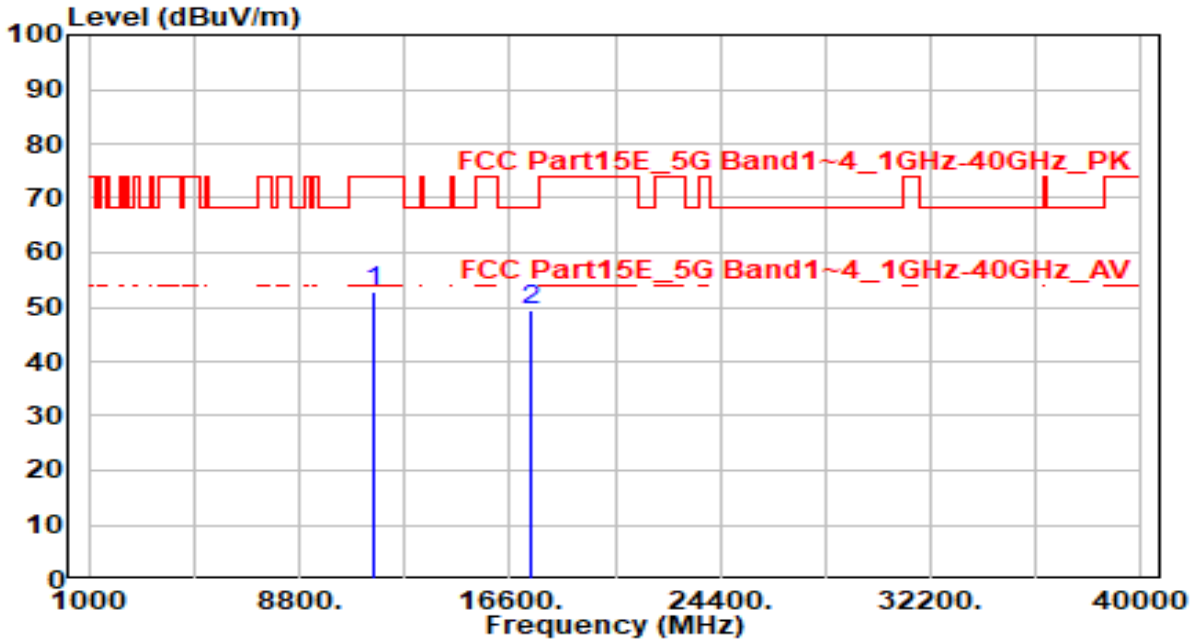


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11490.000	44.95	4.80	49.75	-24.25	74.00	300	315	Peak
2	*	17235.000	40.44	7.03	47.47	-20.73	68.20	200	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 157_ANT 0	Test Voltage	AC 120V/60Hz

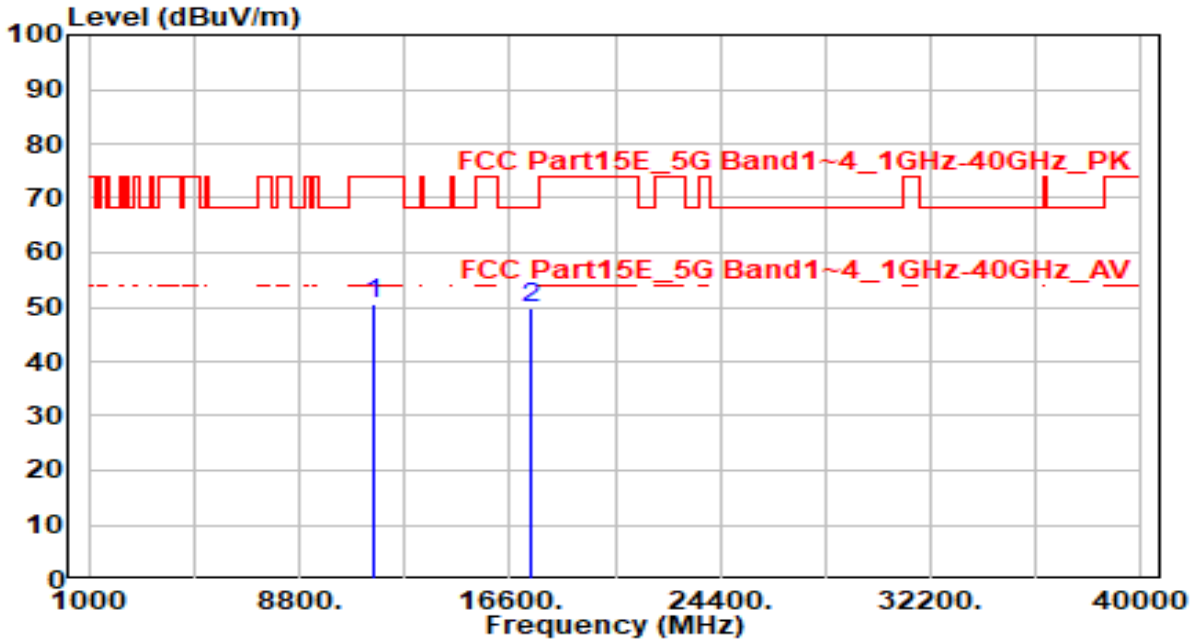


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11570.000	47.89	4.77	52.66	-21.34	74.00	200	85	Peak
2	*	17355.000	42.22	7.21	49.43	-18.77	68.20	200	45	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 157_ANT 0	Test Voltage	AC 120V/60Hz

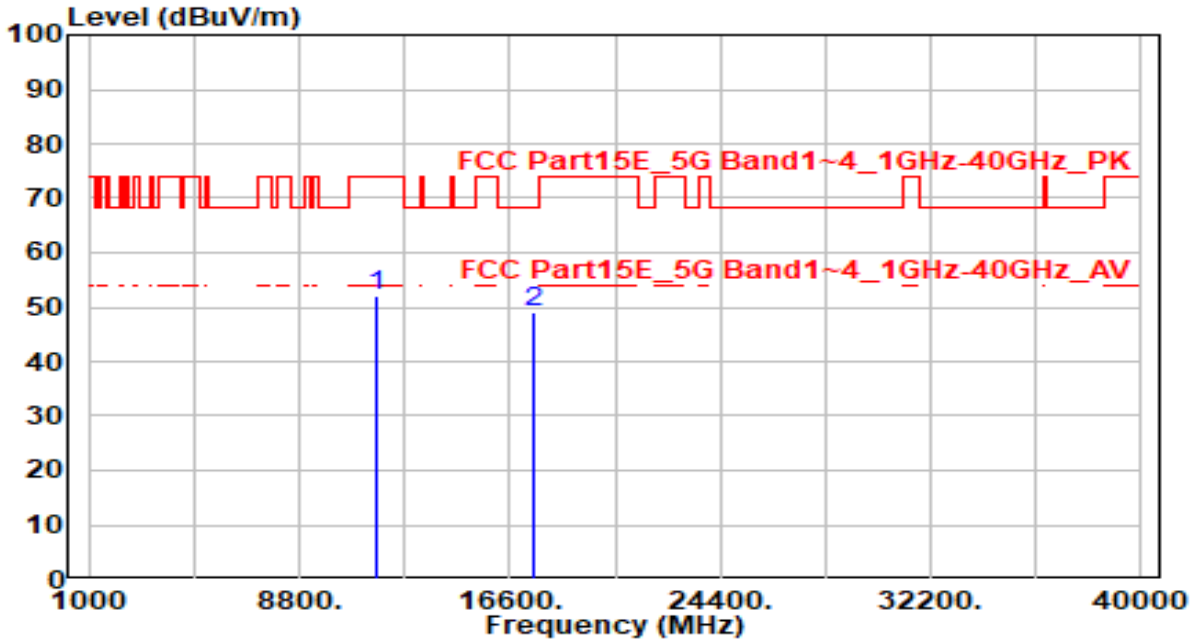


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11570.000	45.73	4.77	50.50	-23.50	74.00	200	215	Peak
2	*	17355.000	42.69	7.21	49.90	-18.30	68.20	300	5	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

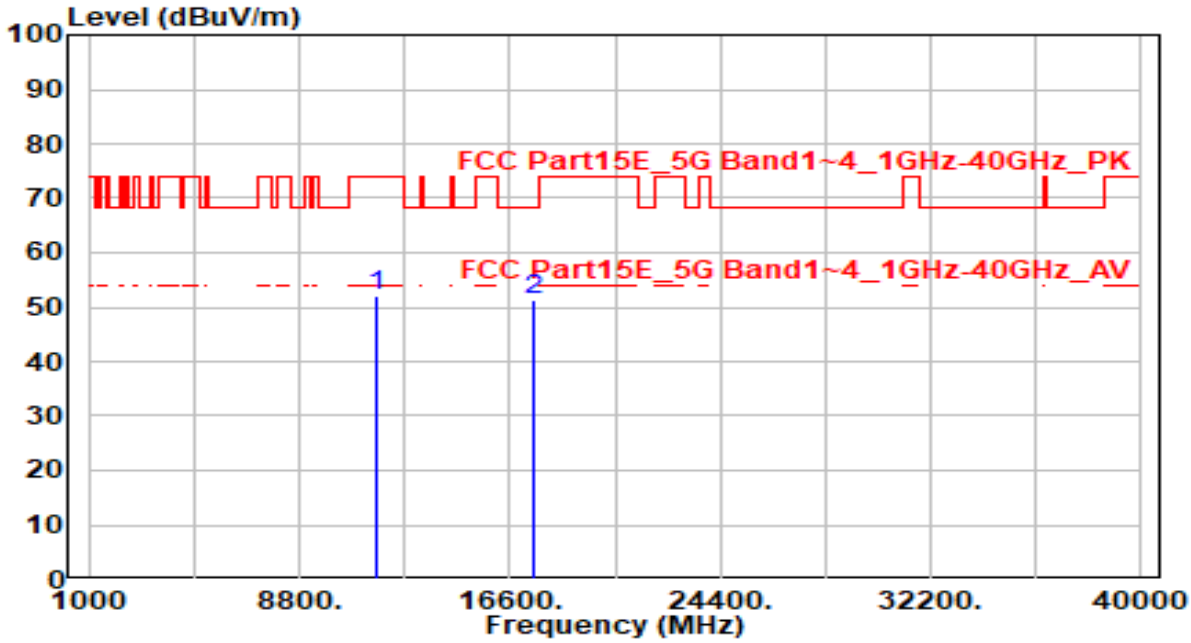


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11650.000	47.39	4.73	52.12	-21.88	74.00	300	55	Peak
2	*	17475.000	41.43	7.48	48.91	-19.29	68.20	300	20	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

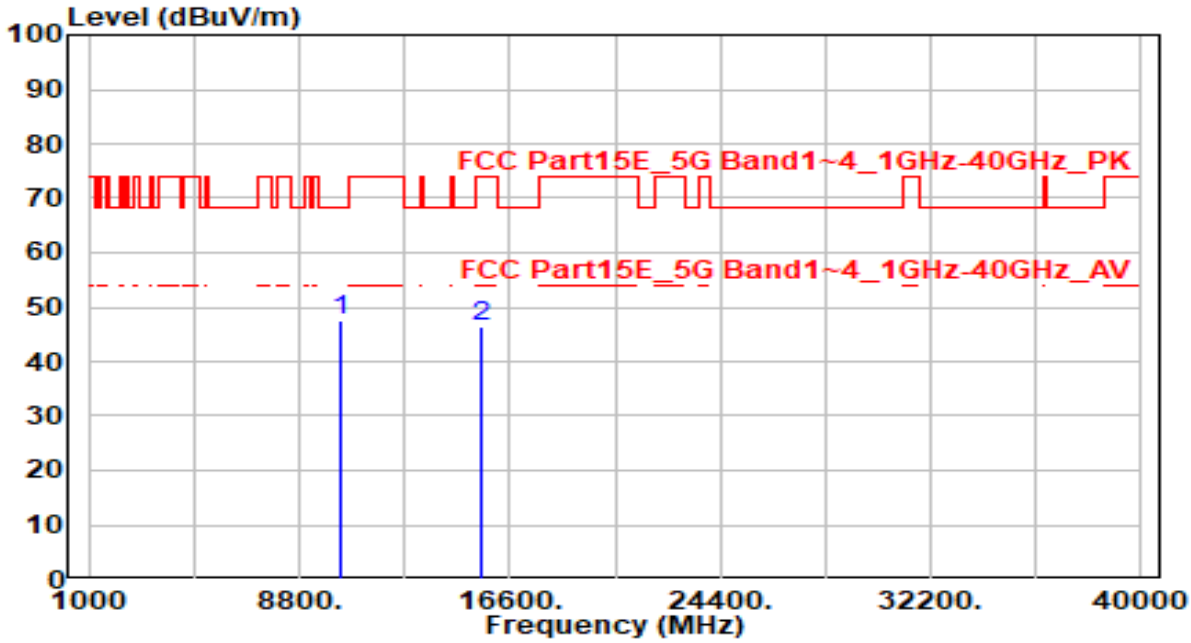


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11650.000	47.21	4.73	51.94	-22.06	74.00	300	310	Peak
2	*	17475.000	43.97	7.48	51.45	-16.75	68.20	300	5	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

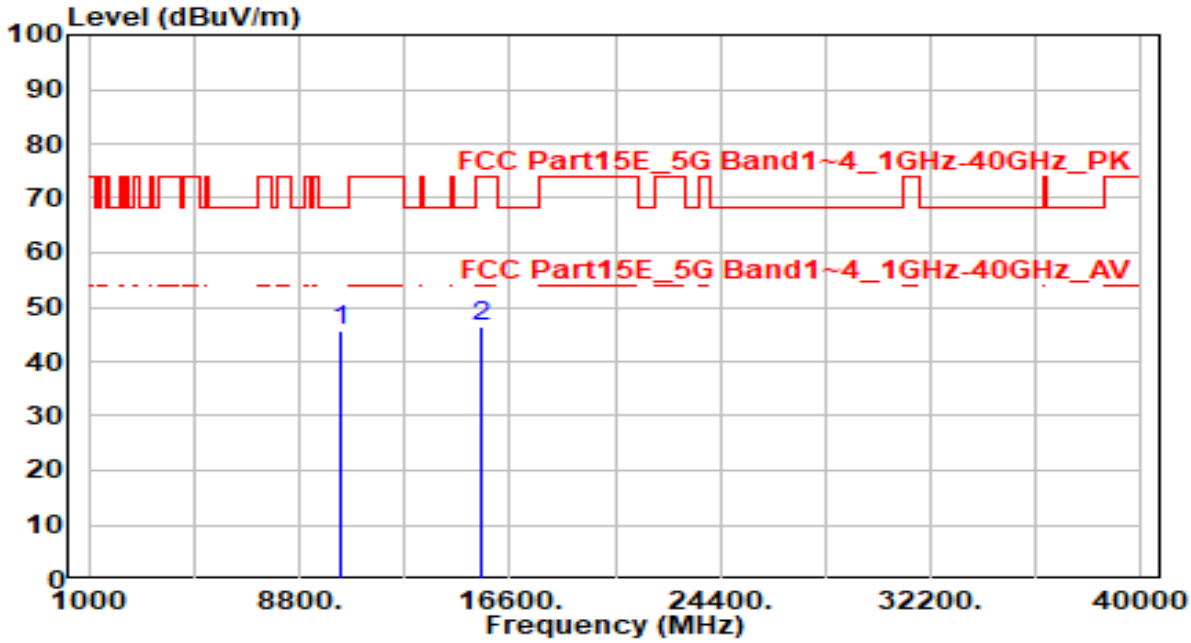


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10380.000	43.31	4.31	47.62	-20.58	68.20	200	135	Peak
2		15570.000	39.51	6.82	46.34	-27.66	74.00	160	360	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

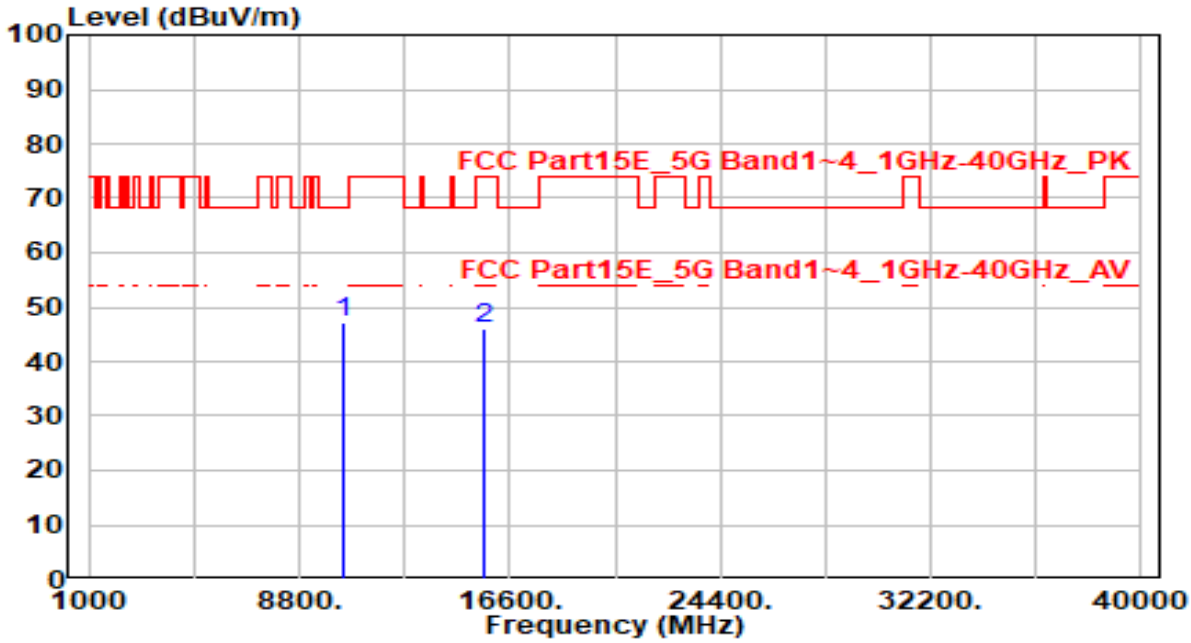


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10380.000	41.19	4.31	45.50	-22.70	68.20	100	280	Peak
2		15570.000	39.60	6.82	46.42	-27.58	74.00	300	160	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 46_ANT 0	Test Voltage	AC 120V/60Hz

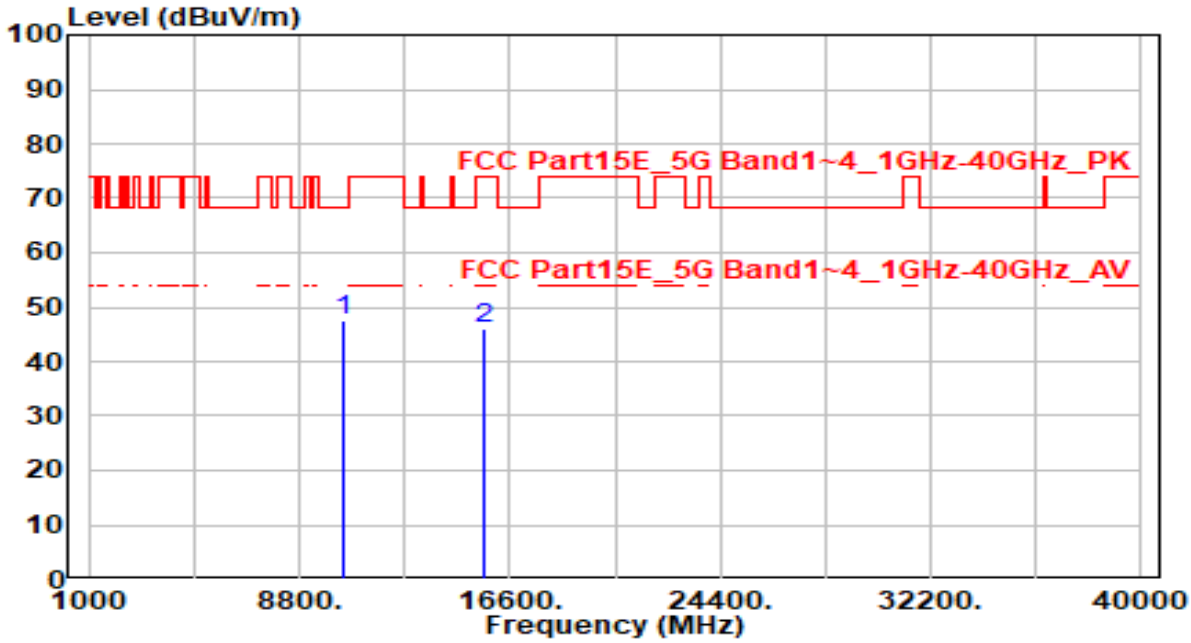


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10460.000	42.92	4.40	47.32	-20.88	68.20	200	135	Peak
2		15690.000	39.26	6.88	46.14	-27.86	74.00	100	335	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 46_ANT 0	Test Voltage	AC 120V/60Hz

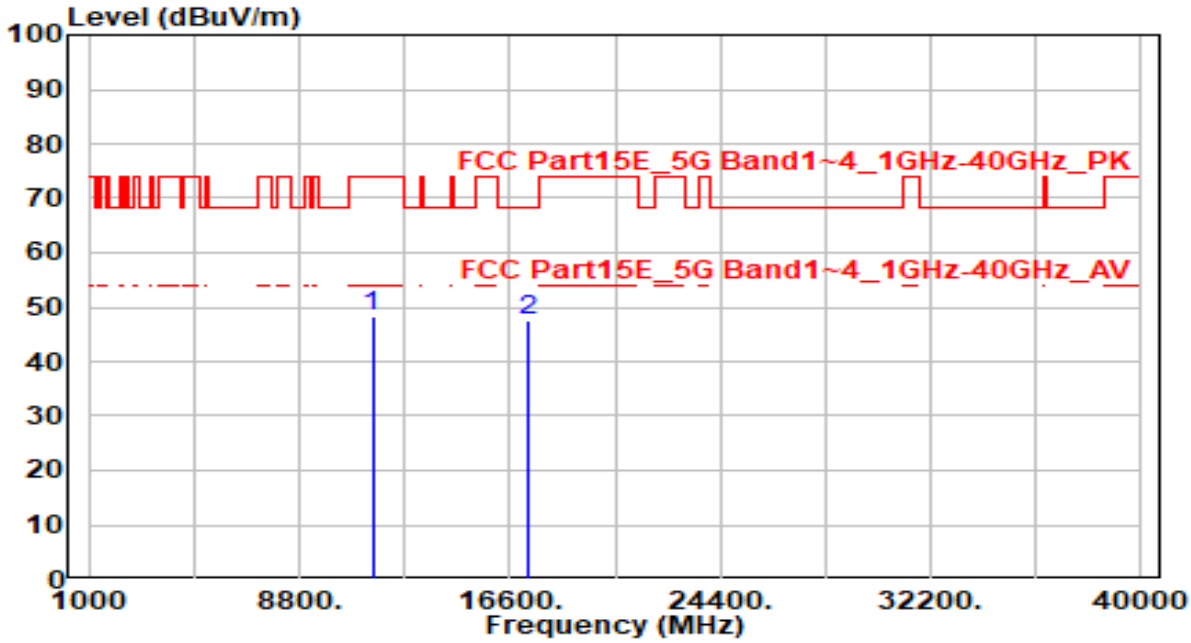


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	10460.000	43.33	4.40	47.73	-20.47	68.20	100	285	Peak
2		15690.000	39.25	6.88	46.13	-27.87	74.00	300	130	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0	Test Voltage	AC 120V/60Hz

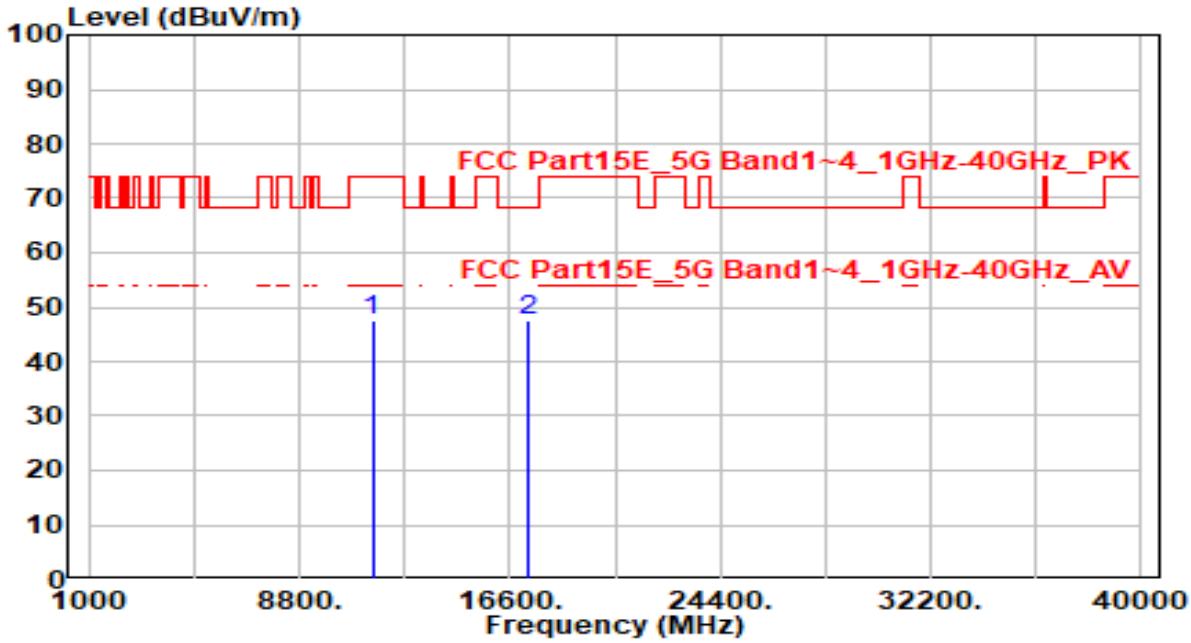


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11510.000	43.32	4.80	48.12	-25.88	74.00	200	110	Peak
2	*	17265.000	40.53	7.07	47.61	-20.59	68.20	200	50	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0	Test Voltage	AC 120V/60Hz

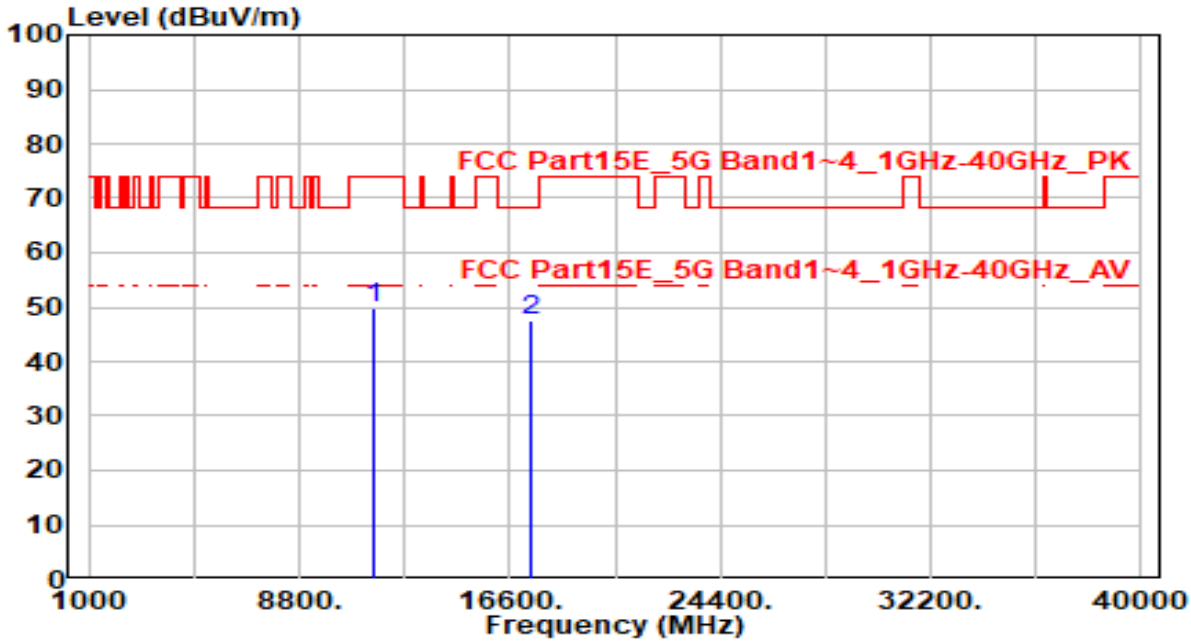


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11510.000	42.82	4.80	47.62	-26.38	74.00	200	140	Peak
2	*	17265.000	40.44	7.07	47.51	-20.69	68.20	300	0	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0	Test Voltage	AC 120V/60Hz

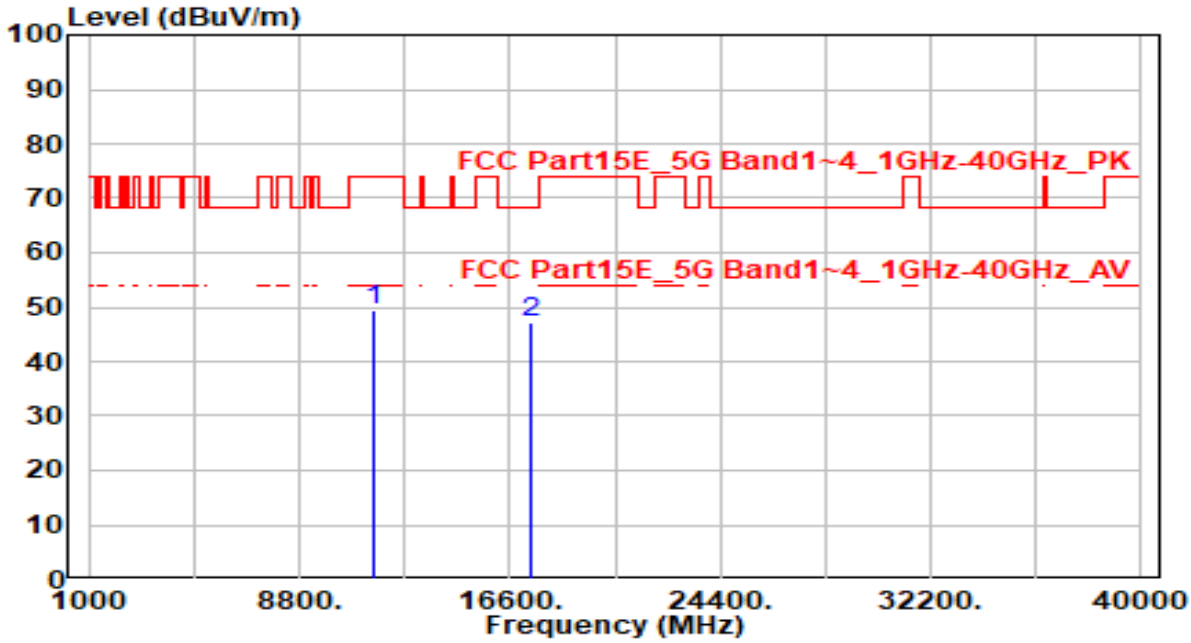


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		11590.000	45.05	4.76	49.81	-24.19	74.00	200	80	Peak
2	*	17385.000	40.29	7.26	47.54	-20.66	68.20	200	170	Peak

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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0	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		11590.000	44.52	4.76	49.27	-24.73	74.00	300	310	Peak
2	*	17385.000	39.86	7.26	47.11	-21.09	68.20	288	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.

7.8. Radiated Restricted Band Edge Measurement

7.8.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 – 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For FCC transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For IC transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

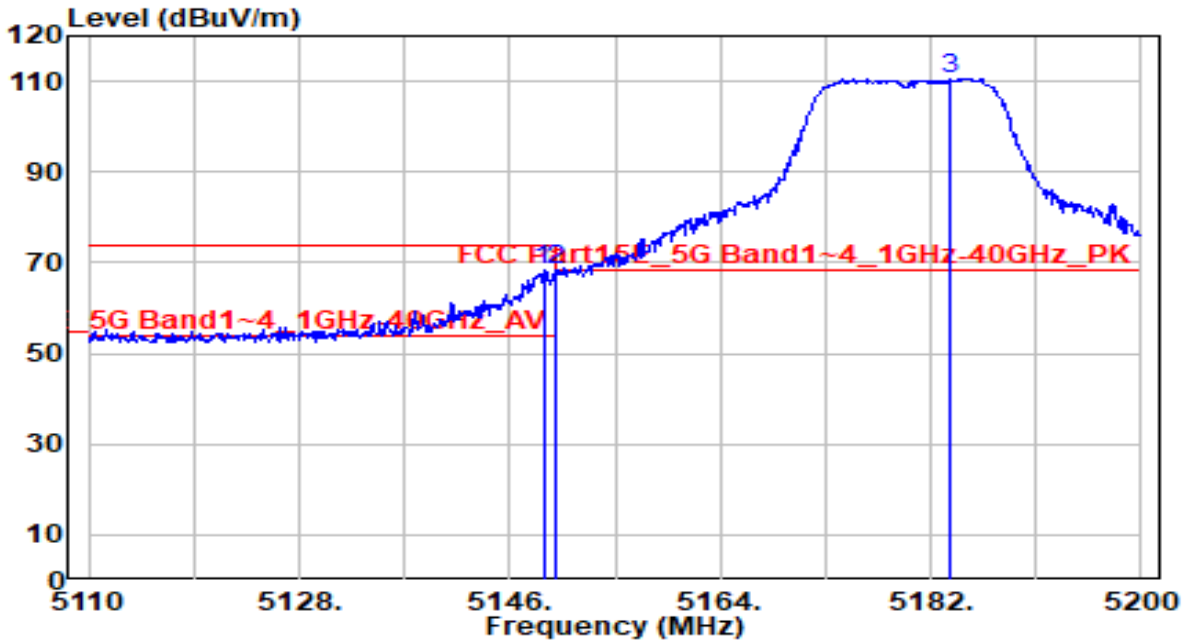
All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC-Radiated emission limits; general requirements.

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

7.8.2. Test Result

EUT	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

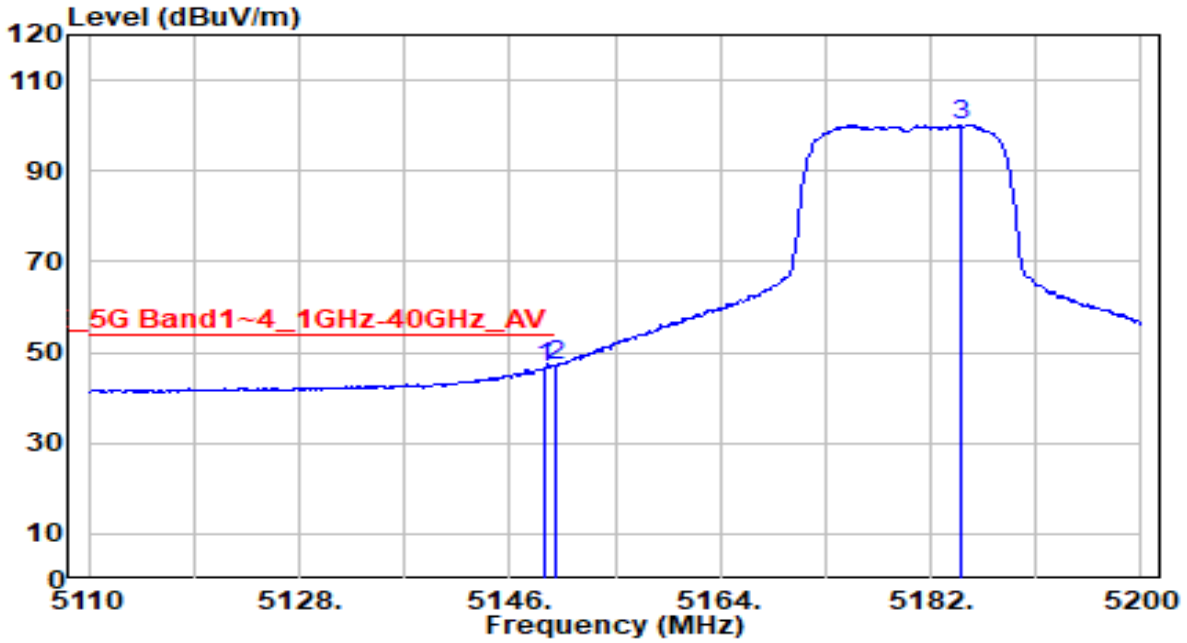


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.880	68.65	-0.34	68.30	-5.70	74.00	200	25	Peak
2	*	5150.000	68.85	-0.34	68.51	-5.49	74.00	200	25	Peak
3		5183.620	110.99	-0.35	110.64	N/A	N/A	200	25	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

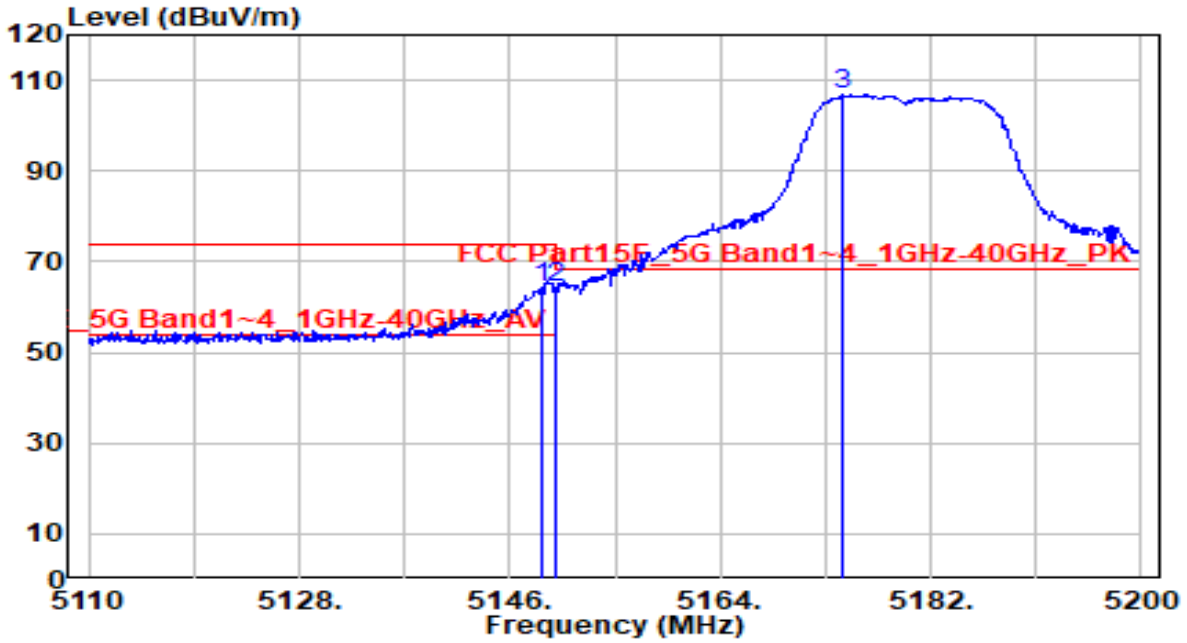


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.970	46.80	-0.34	46.46	-7.54	54.00	200	25	Average
2	*	5150.000	47.61	-0.34	47.27	-6.73	54.00	200	25	Average
3		5184.610	100.59	-0.35	100.24	N/A	N/A	200	25	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

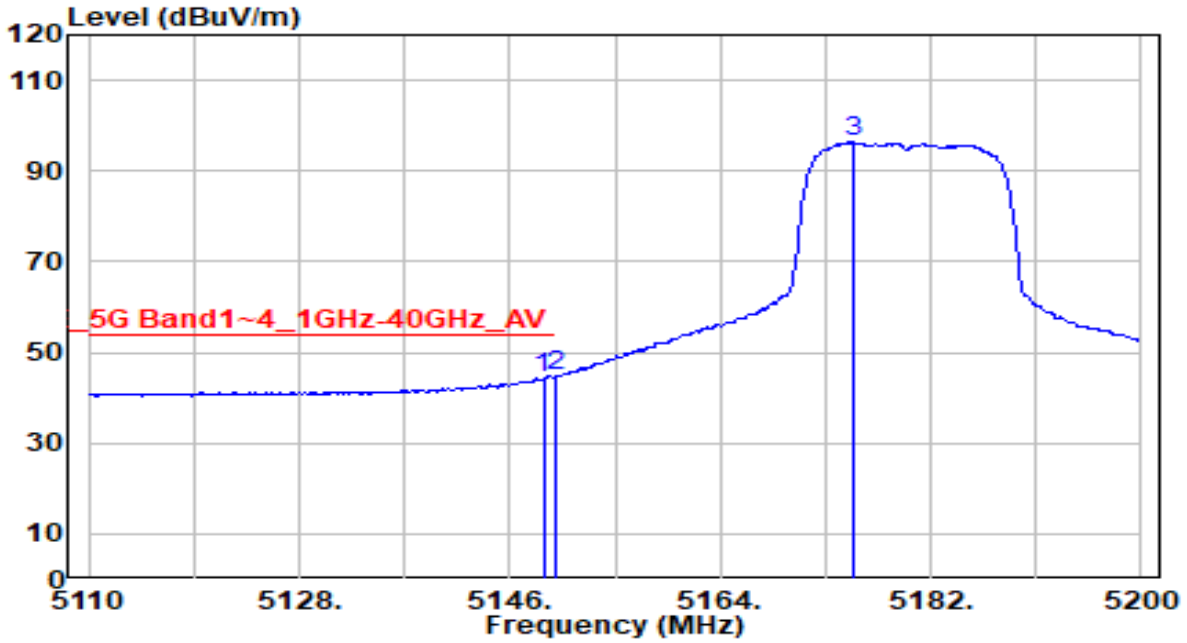


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5148.790	64.79	-0.34	64.45	-9.55	74.00	275	340	Peak
2		5150.000	64.65	-0.34	64.31	-9.69	74.00	275	340	Peak
3		5174.440	107.32	-0.35	106.98	N/A	N/A	275	340	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

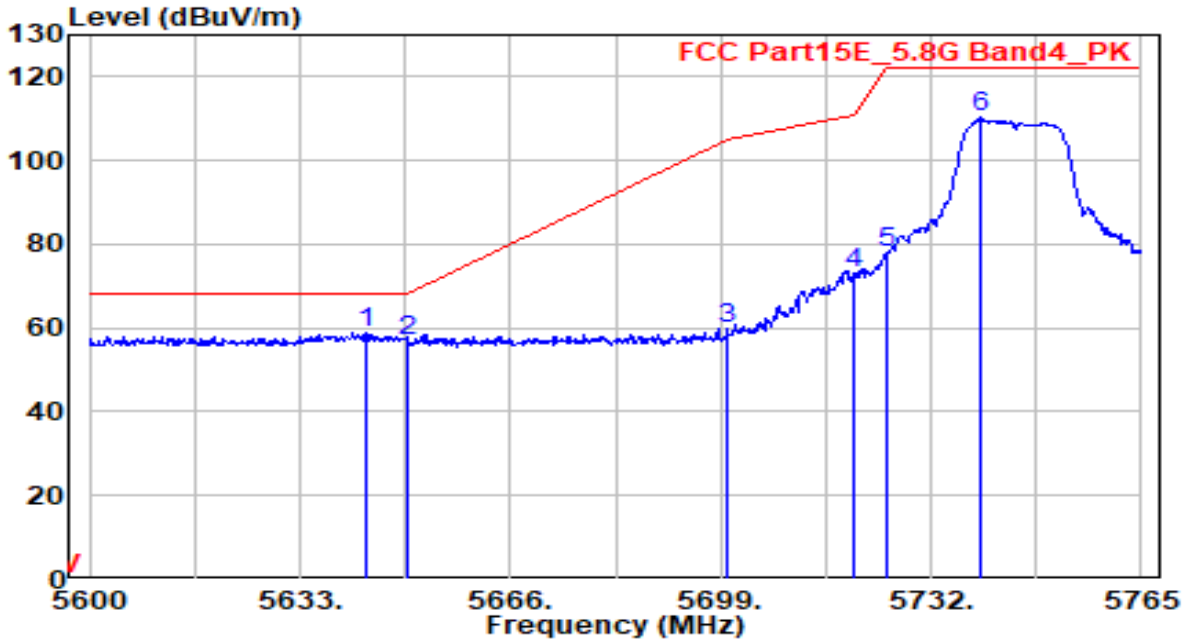


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.880	44.58	-0.34	44.24	-9.76	54.00	275	340	Average
2	*	5150.000	45.21	-0.34	44.86	-9.14	54.00	275	340	Average
3		5175.340	96.62	-0.35	96.27	N/A	N/A	275	340	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

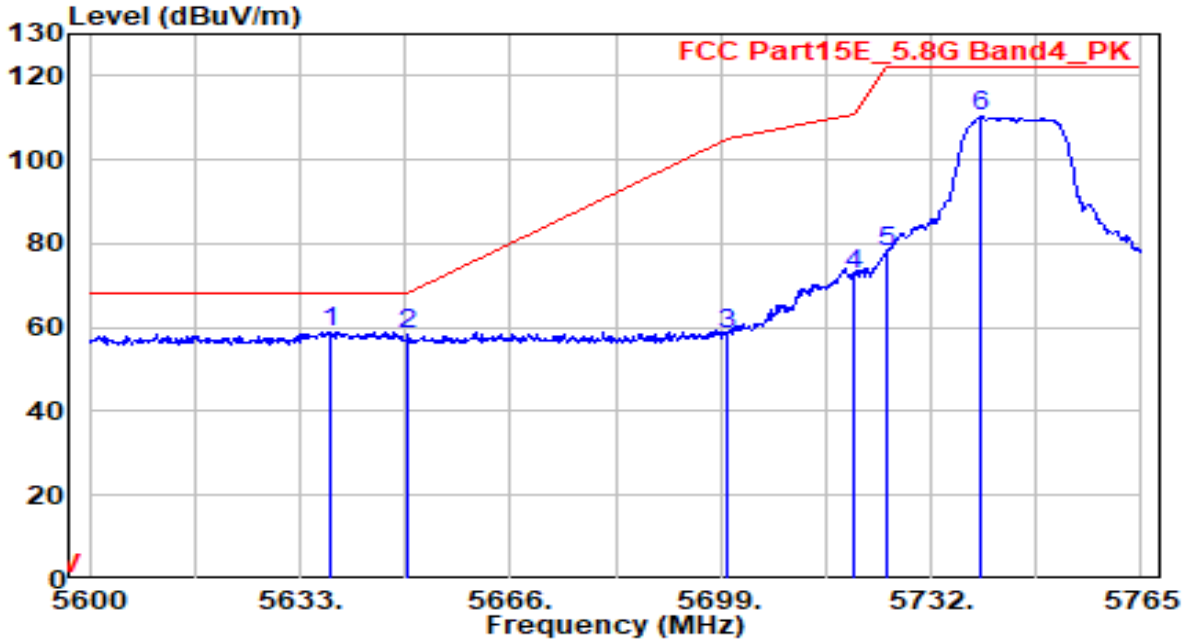


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5643.560	58.51	0.56	59.08	-9.12	68.20	175	320	Peak
2		5650.000	56.16	0.59	56.75	-11.45	68.20	175	320	Peak
3		5700.000	59.21	0.79	59.99	-45.21	105.20	175	320	Peak
4		5720.000	72.17	0.87	73.04	-37.76	110.80	175	320	Peak
5		5725.000	76.90	0.89	77.79	-44.41	122.20	175	320	Peak
6		5739.755	109.43	0.95	110.37	N/A	N/A	175	320	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

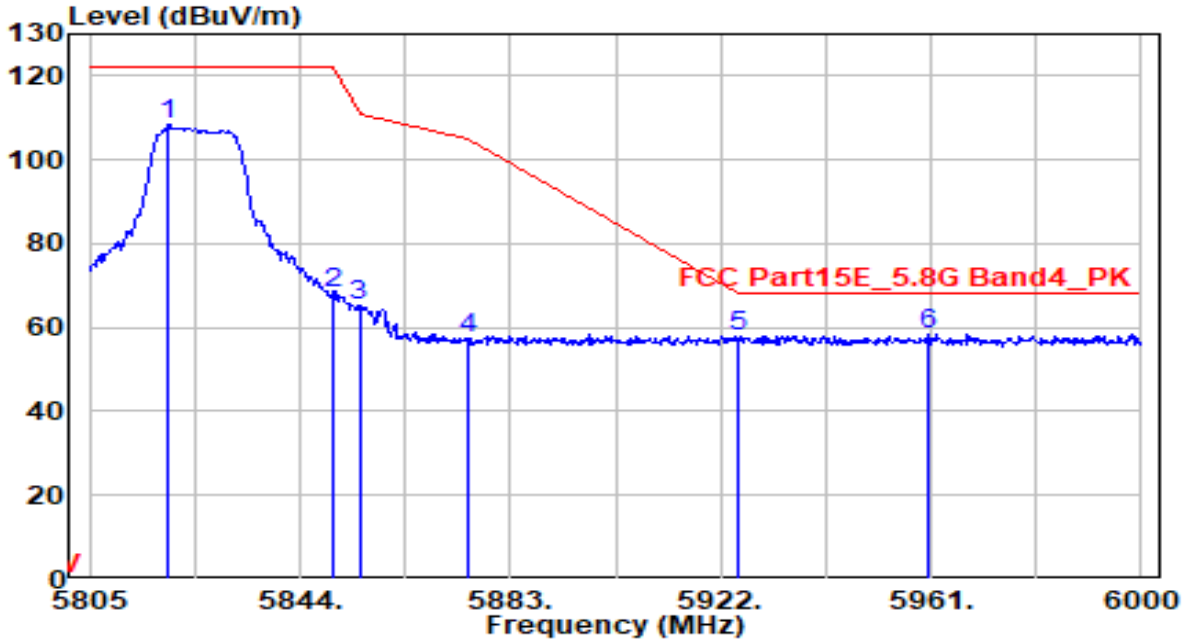


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5637.950	58.56	0.54	59.11	-9.09	68.20	210	310	Peak
2		5650.000	57.74	0.59	58.33	-9.87	68.20	210	310	Peak
3		5700.000	57.50	0.79	58.29	-46.91	105.20	210	310	Peak
4		5720.000	71.76	0.87	72.63	-38.17	110.80	210	310	Peak
5		5725.000	77.17	0.89	78.06	-44.14	122.20	210	310	Peak
6		5739.755	109.46	0.95	110.41	N/A	N/A	210	310	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

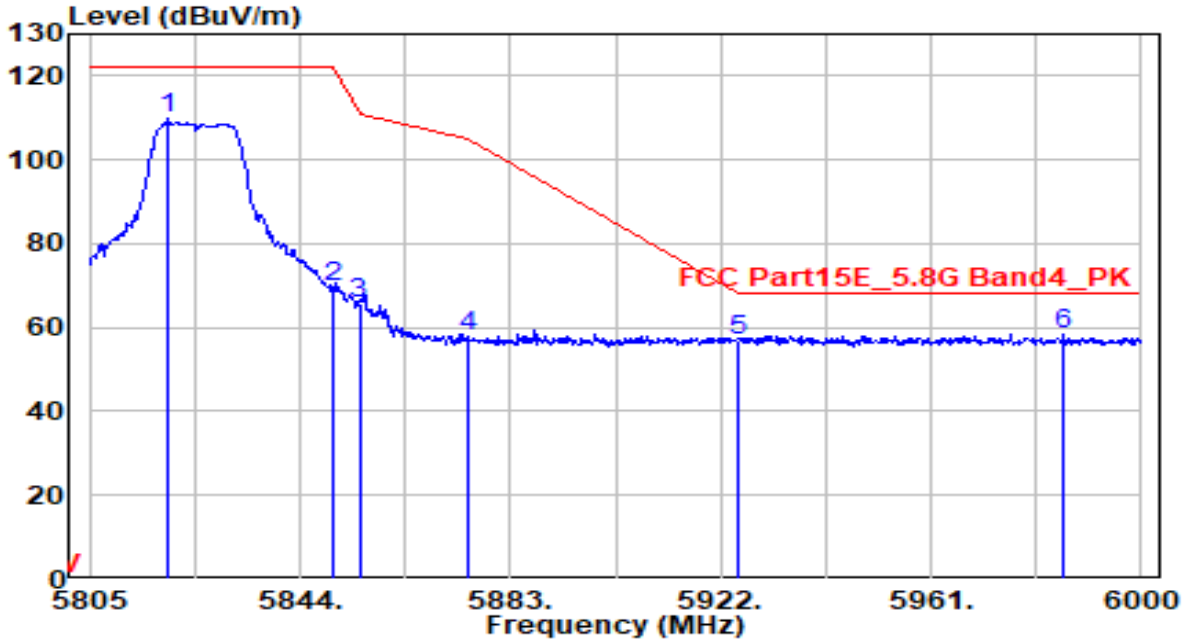


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5819.625	107.24	1.21	108.44	N/A	N/A	155	315	Peak
2		5850.000	66.75	1.23	67.99	-54.21	122.20	155	315	Peak
3		5855.000	64.07	1.24	65.31	-45.49	110.80	155	315	Peak
4		5875.000	56.21	1.26	57.46	-47.74	105.20	155	315	Peak
5		5925.000	56.53	1.30	57.84	-10.36	68.20	155	315	Peak
6	*	5960.610	57.05	1.33	58.38	-9.82	68.20	155	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11a_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

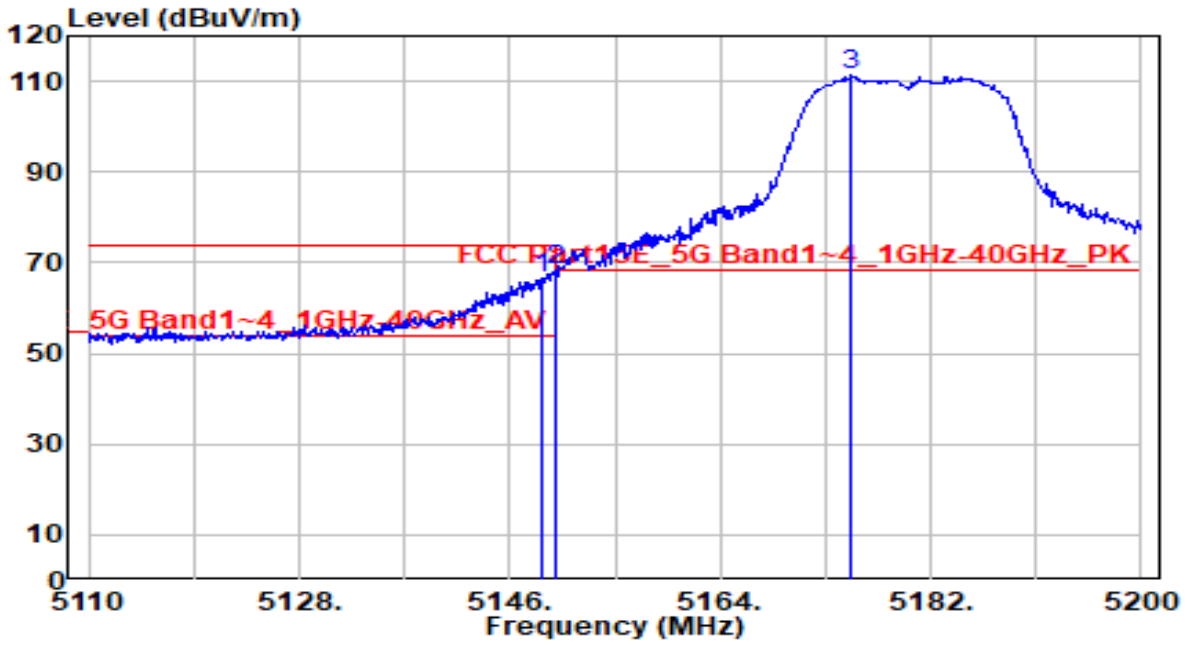


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5819.625	108.56	1.21	109.77	N/A	N/A	200	315	Peak
2		5850.000	68.36	1.23	69.59	-52.61	122.20	200	315	Peak
3		5855.000	64.36	1.24	65.60	-45.20	110.80	200	315	Peak
4		5875.000	56.46	1.26	57.72	-47.48	105.20	200	315	Peak
5		5925.000	55.63	1.30	56.94	-11.26	68.20	200	315	Peak
6	*	5985.765	57.13	1.36	58.49	-9.71	68.20	200	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

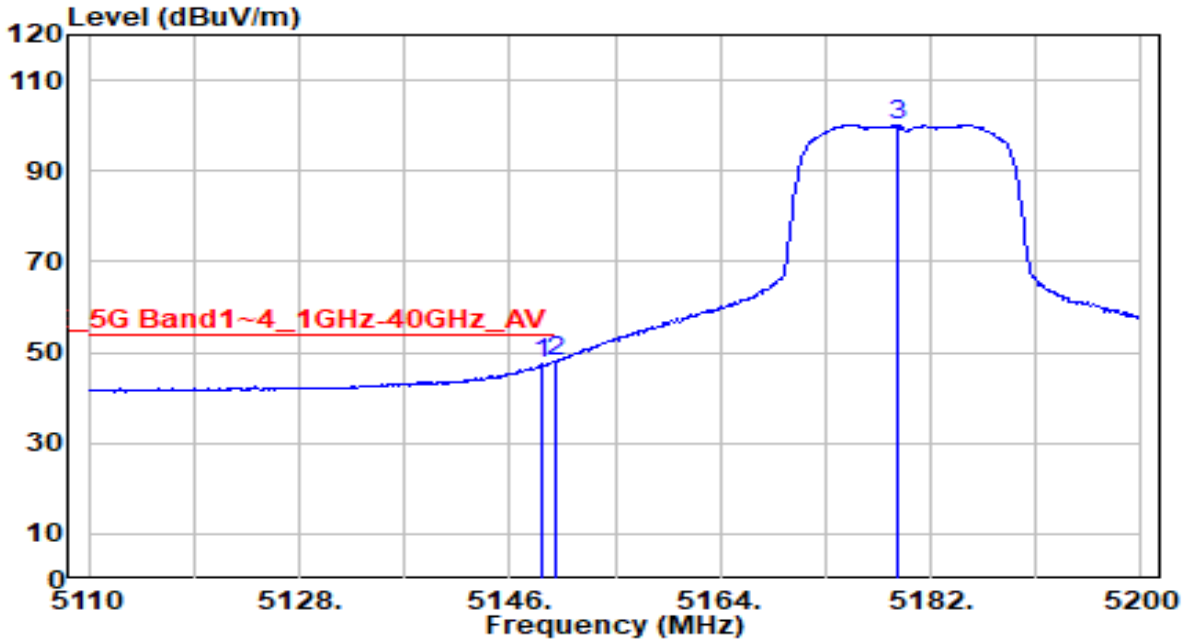


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.700	66.93	-0.34	66.59	-7.41	74.00	275	35	Peak
2	*	5150.000	68.58	-0.34	68.23	-5.77	74.00	275	35	Peak
3		5175.160	111.52	-0.35	111.17	N/A	N/A	275	35	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

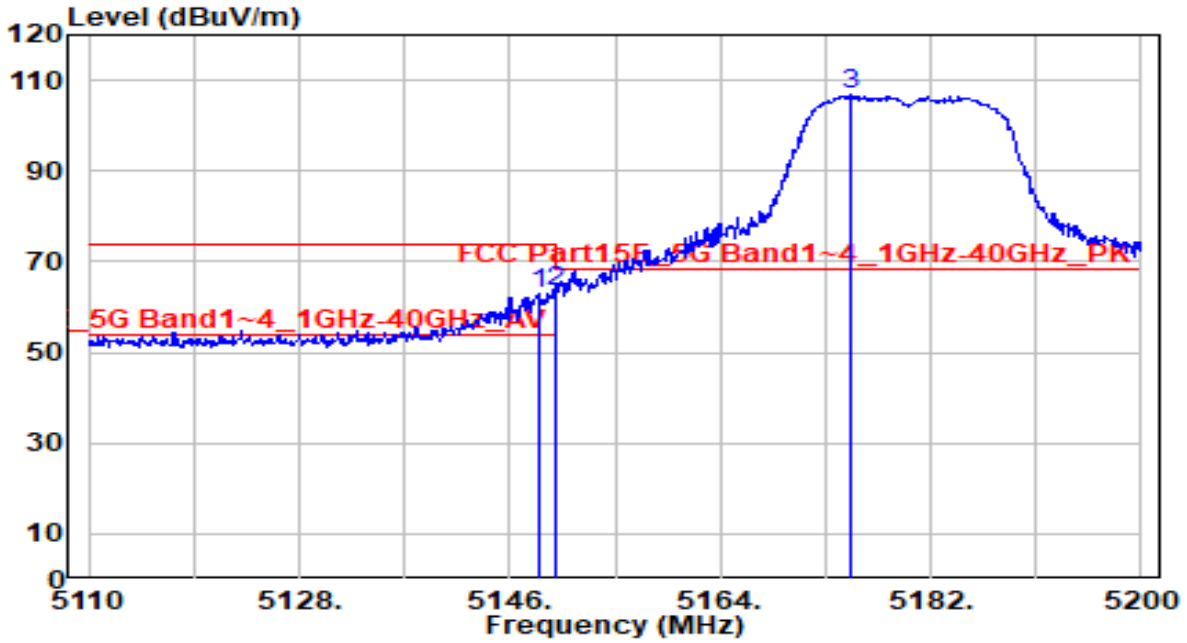


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.790	47.74	-0.34	47.40	-6.60	54.00	275	35	Average
2	*	5150.000	48.56	-0.34	48.21	-5.79	54.00	275	35	Average
3		5179.210	100.55	-0.35	100.20	N/A	N/A	275	35	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

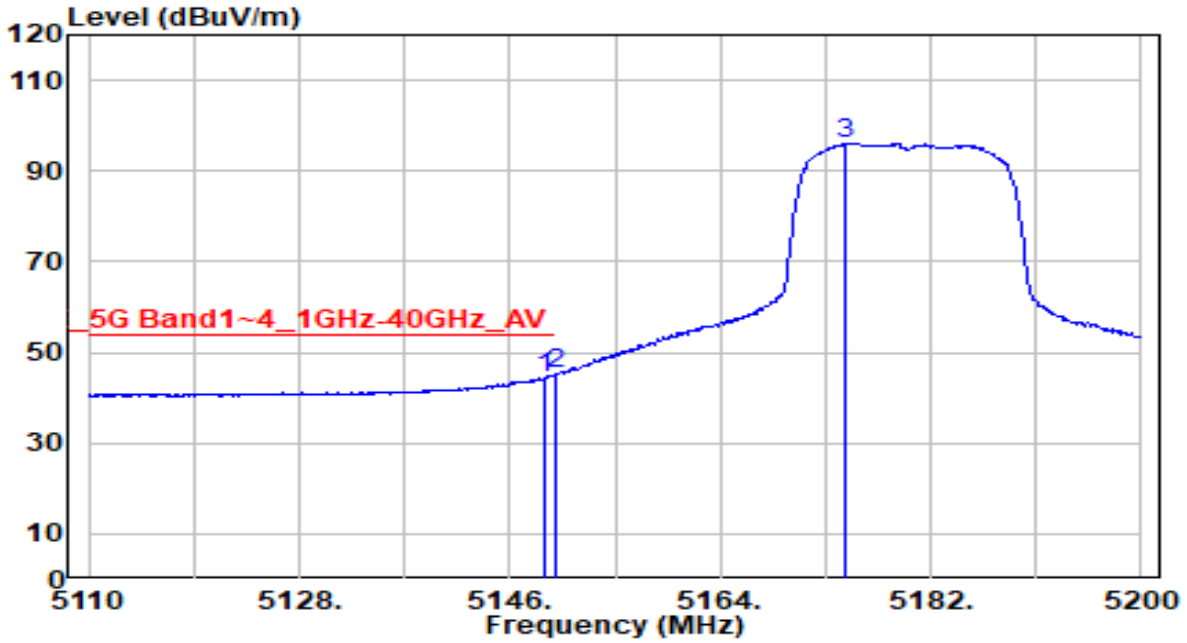


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.430	63.21	-0.34	62.87	-11.13	74.00	275	340	Peak
2	*	5150.000	63.81	-0.34	63.47	-10.53	74.00	275	340	Peak
3		5175.250	107.27	-0.35	106.93	N/A	N/A	275	340	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0	Test Voltage	AC 120V/60Hz

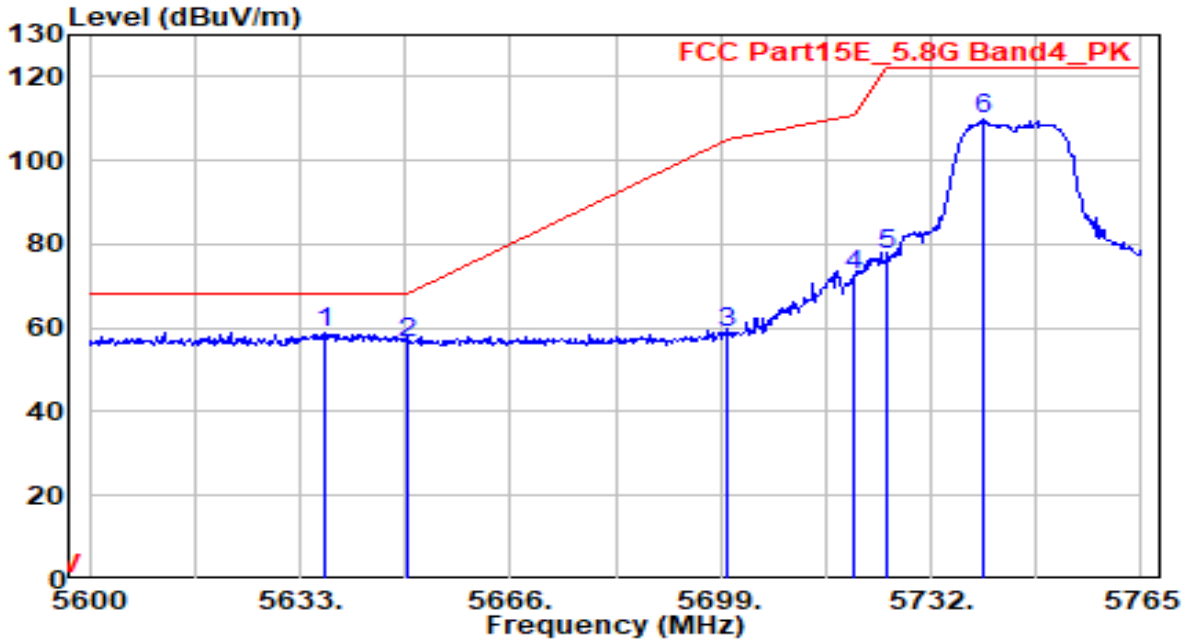


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.970	44.67	-0.34	44.33	-9.67	54.00	275	340	Average
2	*	5150.000	45.58	-0.34	45.23	-8.77	54.00	275	340	Average
3		5174.710	96.55	-0.35	96.21	N/A	N/A	275	340	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

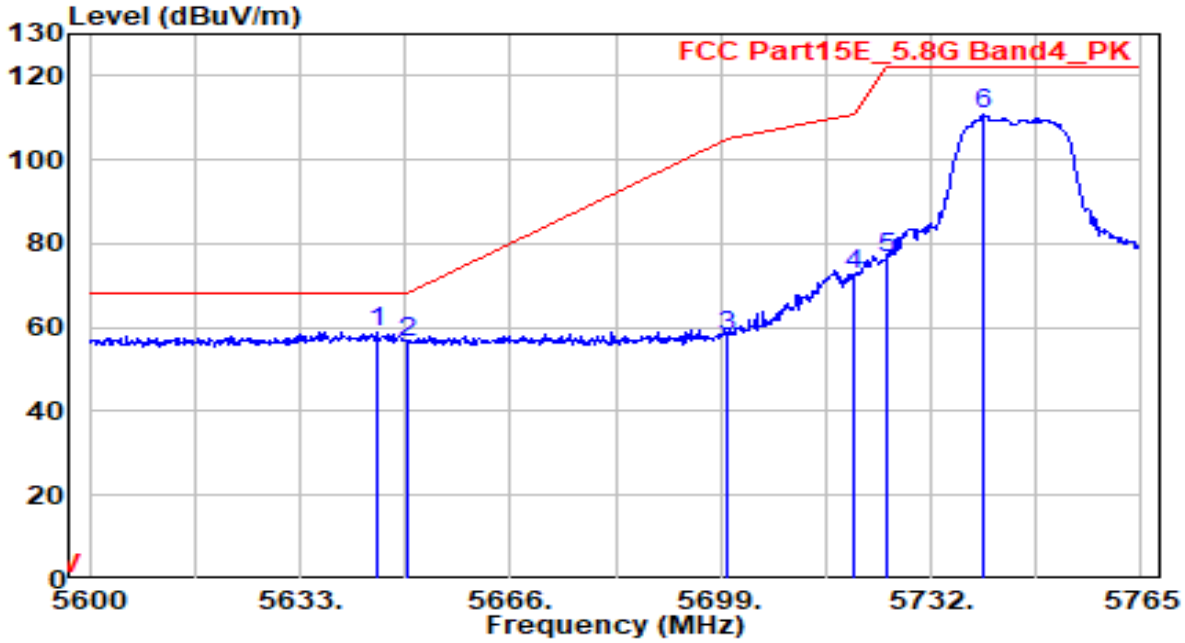


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5636.960	58.56	0.54	59.10	-9.10	68.20	185	315	Peak
2		5650.000	55.83	0.59	56.42	-11.78	68.20	185	315	Peak
3		5700.000	58.22	0.79	59.01	-46.19	105.20	185	315	Peak
4		5720.000	71.74	0.87	72.61	-38.19	110.80	185	315	Peak
5		5725.000	76.51	0.89	77.40	-44.80	122.20	185	315	Peak
6		5740.085	108.94	0.95	109.89	N/A	N/A	185	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0	Test Voltage	AC 120V/60Hz

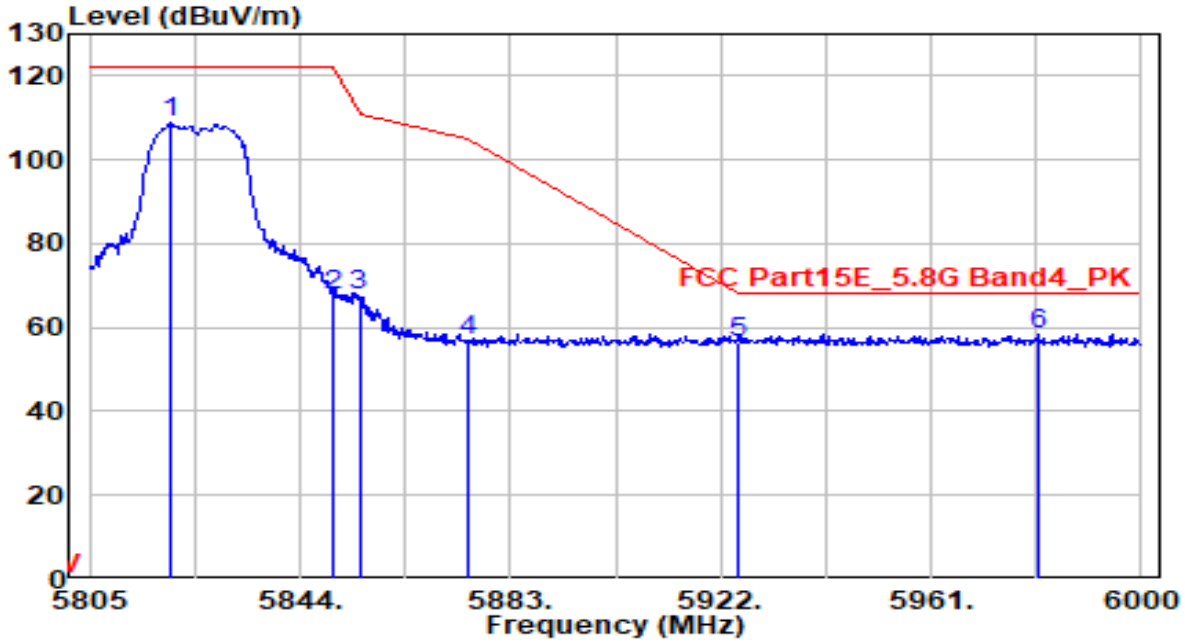


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5645.045	58.24	0.57	58.81	-9.39	68.20	210	315	Peak
2		5650.000	55.82	0.59	56.41	-11.79	68.20	210	315	Peak
3		5700.000	57.32	0.79	58.11	-47.09	105.20	210	315	Peak
4		5720.000	71.50	0.87	72.37	-38.43	110.80	210	315	Peak
5		5725.000	75.71	0.89	76.60	-45.60	122.20	210	315	Peak
6		5740.085	109.71	0.95	110.66	N/A	N/A	210	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

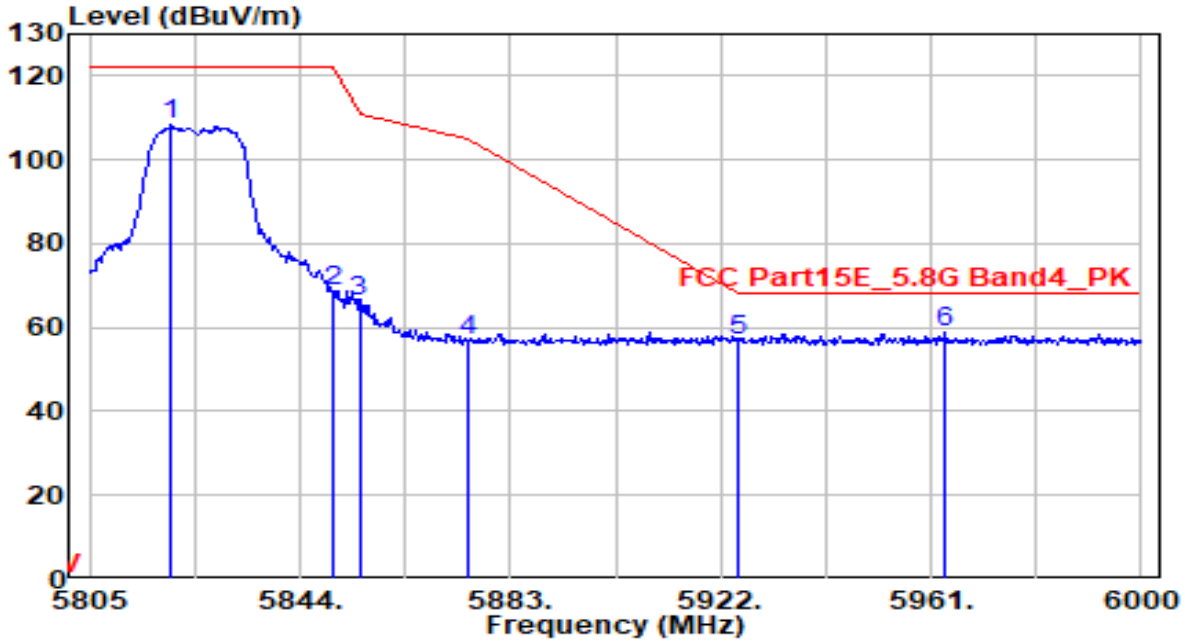


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5819.820	107.62	1.21	108.83	N/A	N/A	270	335	Peak
2		5850.000	66.41	1.23	67.64	-54.56	122.20	270	335	Peak
3		5855.000	66.64	1.24	67.88	-42.92	110.80	270	335	Peak
4		5875.000	55.64	1.26	56.90	-48.30	105.20	270	335	Peak
5		5925.000	55.10	1.30	56.40	-11.80	68.20	270	335	Peak
6	*	5980.890	57.27	1.35	58.62	-9.58	68.20	270	335	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0	Test Voltage	AC 120V/60Hz

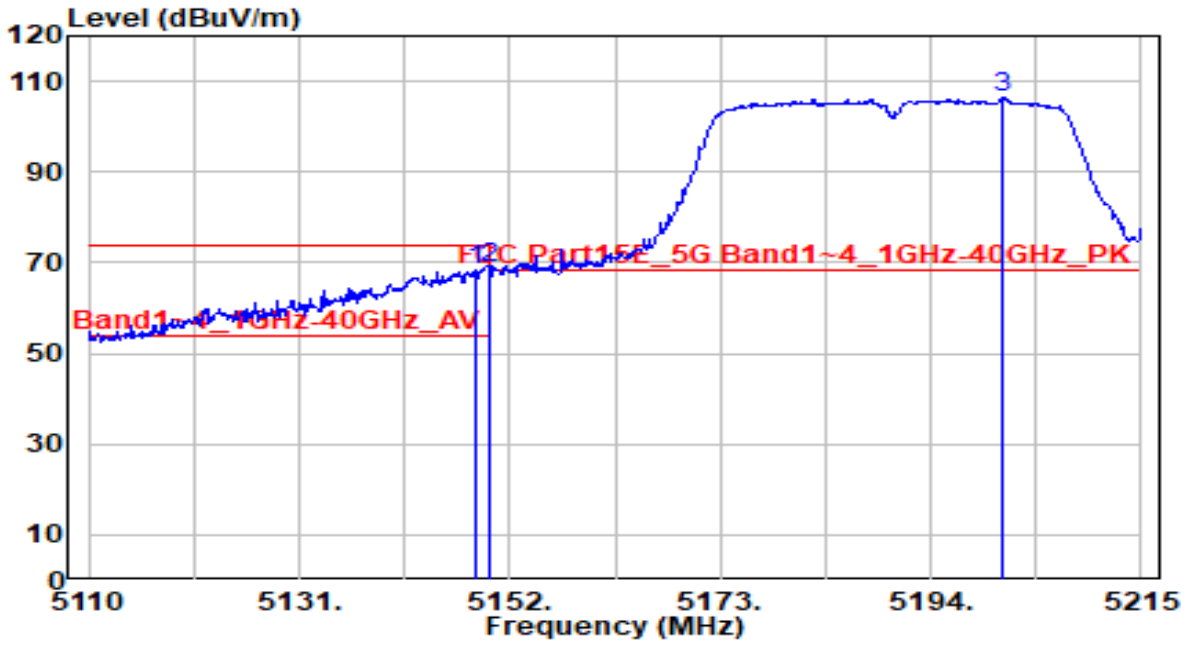


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5820.015	107.40	1.21	108.61	N/A	N/A	185	310	Peak
2		5850.000	67.65	1.23	68.88	-53.32	122.20	185	310	Peak
3		5855.000	64.80	1.24	66.04	-44.76	110.80	185	310	Peak
4		5875.000	55.76	1.26	57.02	-48.18	105.20	185	310	Peak
5		5925.000	55.76	1.30	57.06	-11.14	68.20	185	310	Peak
6	*	5963.730	57.47	1.34	58.81	-9.39	68.20	185	310	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

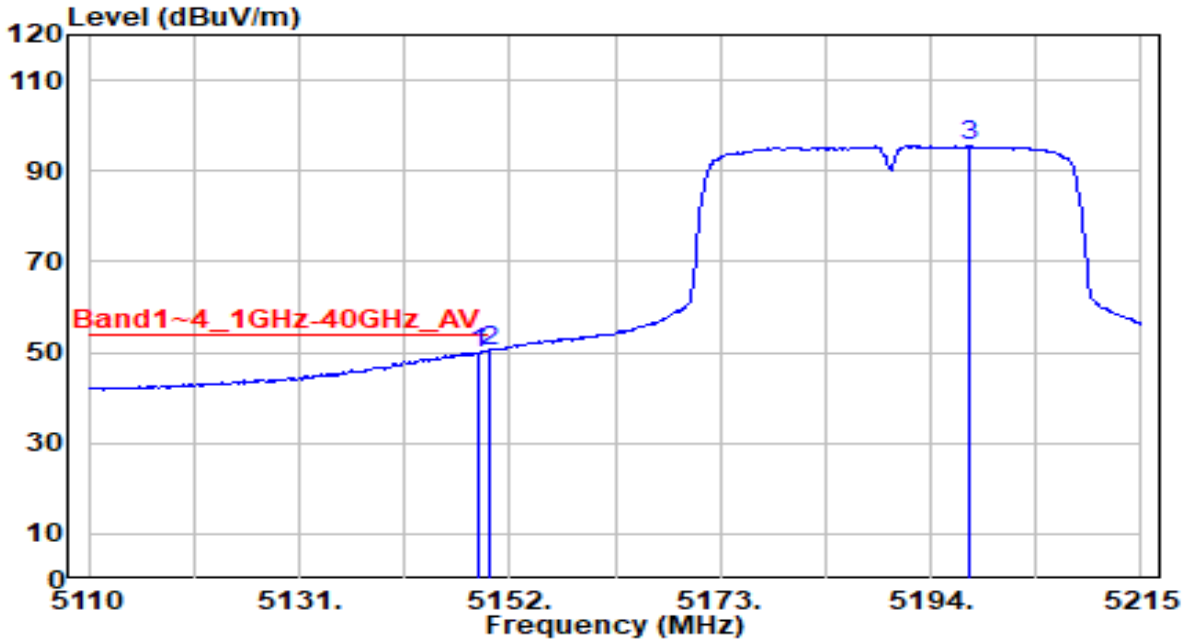


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.745	68.82	-0.34	68.47	-5.53	74.00	265	35	Peak
2	*	5150.000	68.98	-0.34	68.63	-5.37	74.00	265	35	Peak
3		5201.245	106.90	-0.35	106.55	N/A	N/A	265	35	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

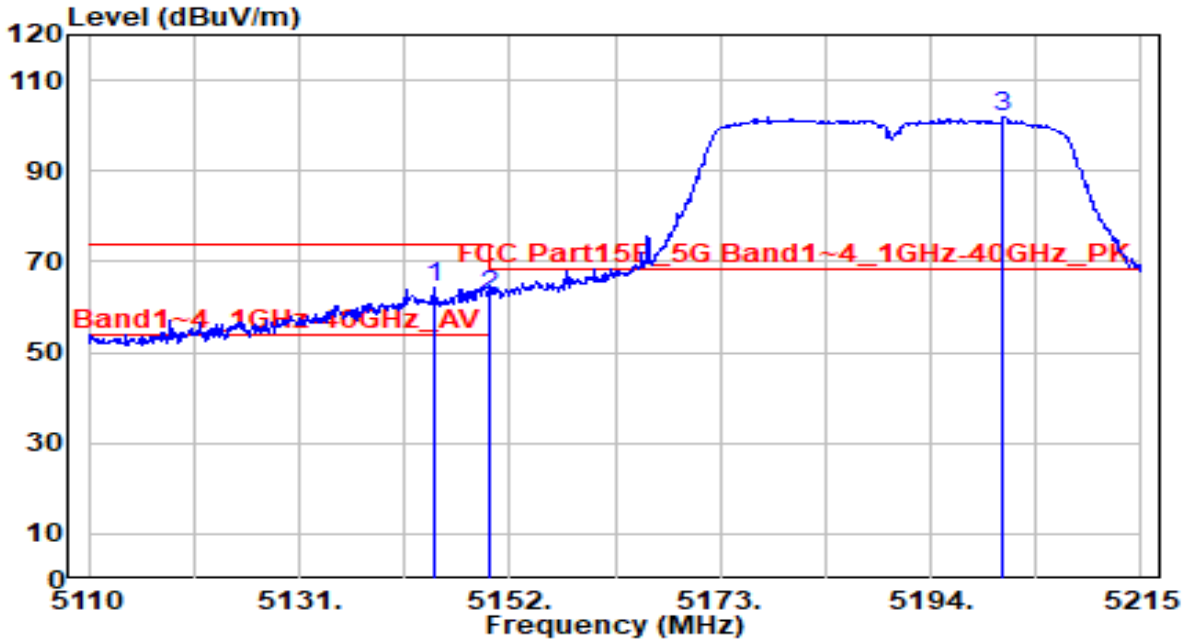


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.955	50.34	-0.34	49.99	-4.01	54.00	265	35	Average
2	*	5150.000	50.77	-0.34	50.42	-3.58	54.00	265	35	Average
3		5197.885	95.87	-0.35	95.52	N/A	N/A	265	35	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

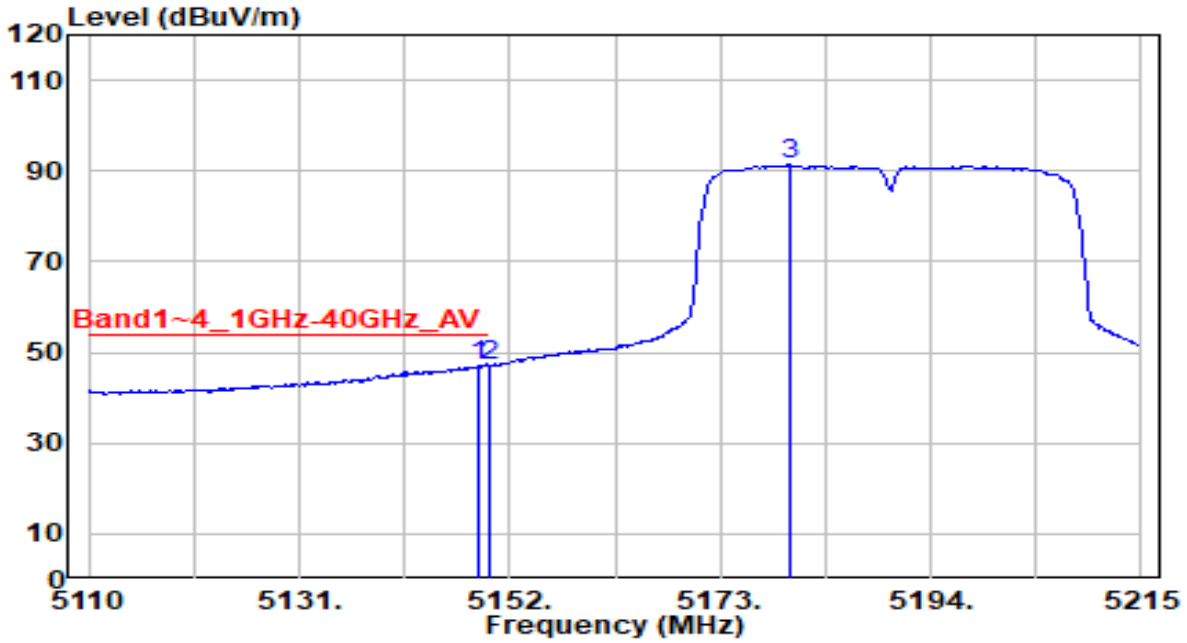


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5144.440	64.67	-0.34	64.33	-9.67	74.00	275	340	Peak
2		5150.000	62.78	-0.34	62.43	-11.57	74.00	275	340	Peak
3		5201.245	102.35	-0.35	102.01	N/A	N/A	275	340	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0	Test Voltage	AC 120V/60Hz

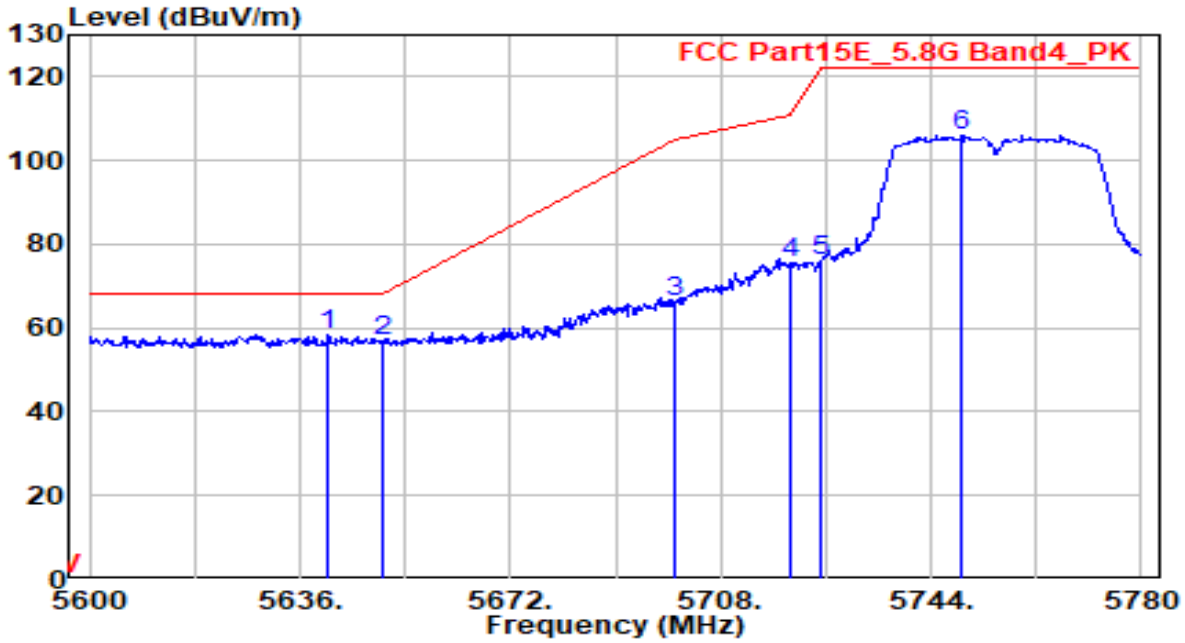


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5148.955	47.32	-0.34	46.98	-7.02	54.00	275	340	Average
2	*	5150.000	47.52	-0.34	47.17	-6.83	54.00	275	340	Average
3		5179.930	91.69	-0.35	91.34	N/A	N/A	275	340	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0	Test Voltage	AC 120V/60Hz

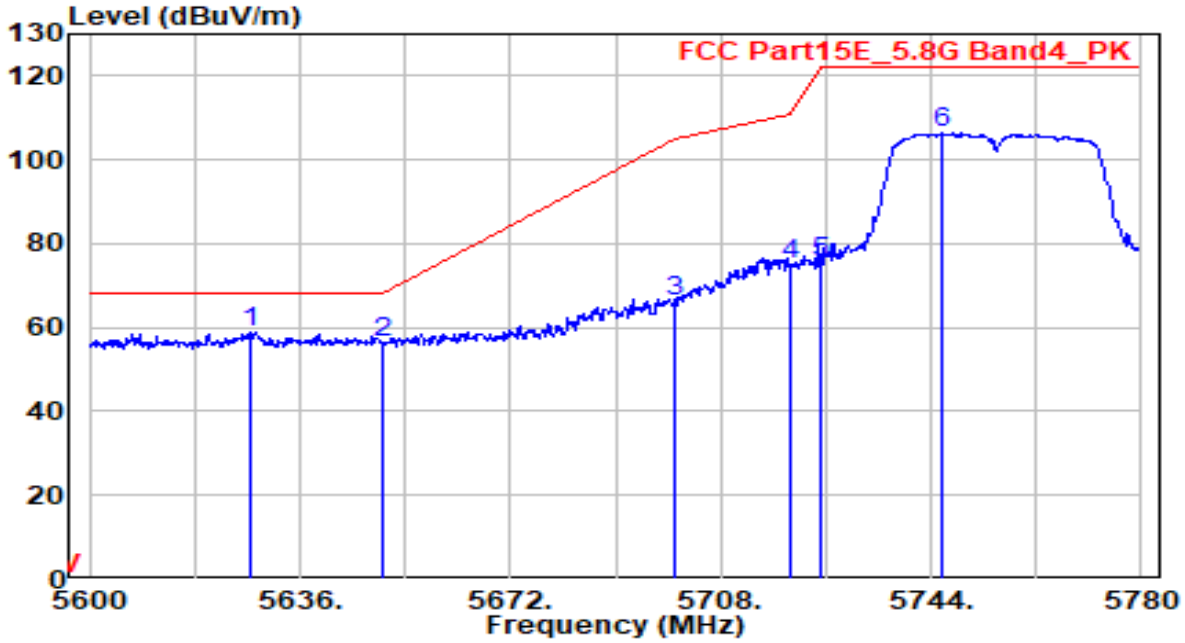


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5640.680	57.91	0.55	58.46	-9.74	68.20	180	320	Peak
2		5650.000	56.16	0.59	56.75	-11.45	68.20	180	320	Peak
3		5700.000	65.26	0.79	66.05	-39.15	105.20	180	320	Peak
4		5720.000	74.91	0.87	75.77	-35.03	110.80	180	320	Peak
5		5725.000	75.21	0.89	76.10	-46.10	122.20	180	320	Peak
6		5749.400	104.86	0.99	105.84	N/A	N/A	180	320	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0	Test Voltage	AC 120V/60Hz

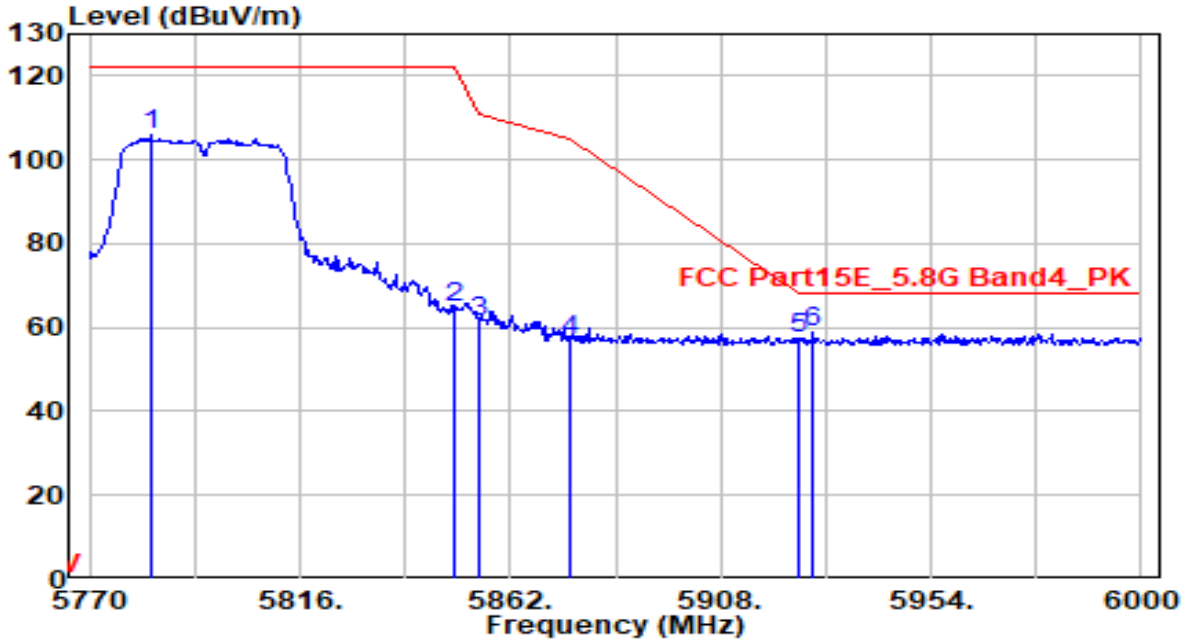


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5627.360	58.41	0.50	58.91	-9.29	68.20	210	315	Peak
2		5650.000	55.93	0.59	56.52	-11.68	68.20	210	315	Peak
3		5700.000	65.29	0.79	66.08	-39.12	105.20	210	315	Peak
4		5720.000	74.42	0.87	75.29	-35.51	110.80	210	315	Peak
5		5725.000	74.42	0.89	75.31	-46.89	122.20	210	315	Peak
6		5745.980	105.59	0.97	106.57	N/A	N/A	210	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Horizontal	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0	Test Voltage	AC 120V/60Hz

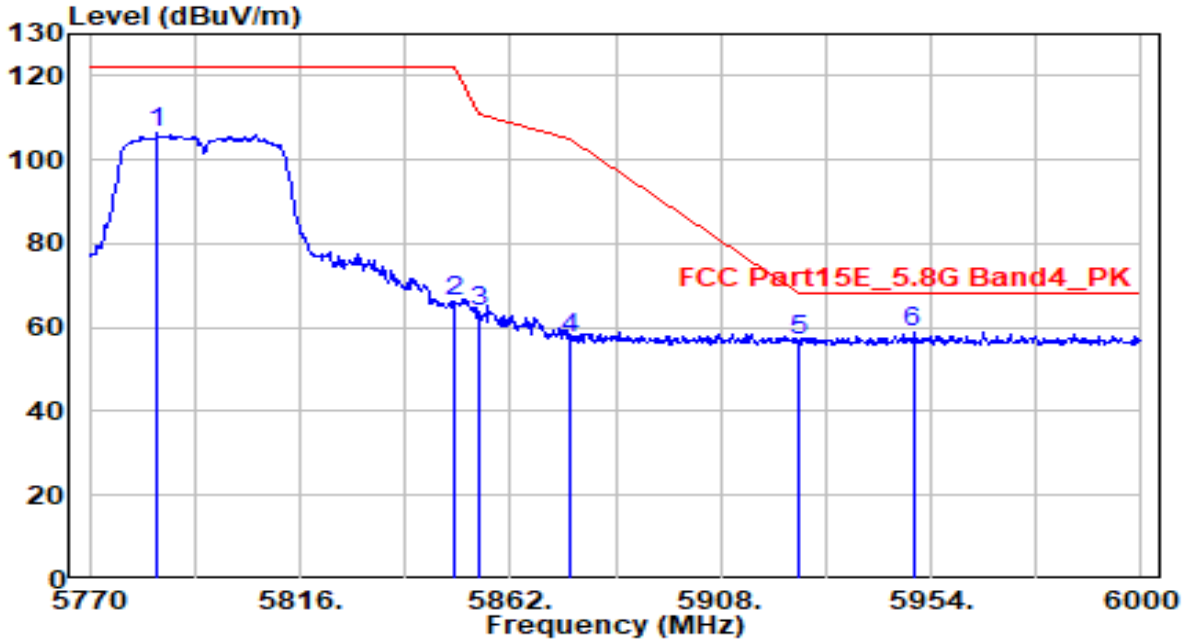


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5783.340	105.03	1.12	106.15	N/A	N/A	170	320	Peak
2		5850.000	63.63	1.23	64.86	-57.34	122.20	170	320	Peak
3		5855.000	60.31	1.24	61.55	-49.25	110.80	170	320	Peak
4		5875.000	55.57	1.26	56.83	-48.37	105.20	170	320	Peak
5		5925.000	55.90	1.30	57.21	-10.99	68.20	170	320	Peak
6	*	5928.010	57.59	1.31	58.89	-9.31	68.20	170	320	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Smart Projector	Date of Test	2022-03-03
Factor	DRH18-E	Temp. / Humidity	22.3°C /62%
Polarity	Vertical	Site / Test Engineer	AC2 / Owen
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0	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		5784.950	105.19	1.13	106.32	N/A	N/A	220	315	Peak
2		5850.000	65.05	1.23	66.28	-55.92	122.20	220	315	Peak
3		5855.000	62.51	1.24	63.75	-47.05	110.80	220	315	Peak
4		5875.000	55.98	1.26	57.24	-47.96	105.20	220	315	Peak
5		5925.000	55.37	1.30	56.67	-11.53	68.20	220	315	Peak
6	*	5950.090	57.38	1.33	58.70	-9.50	68.20	220	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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.

7.9. AC Conducted Emissions Measurement

7.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

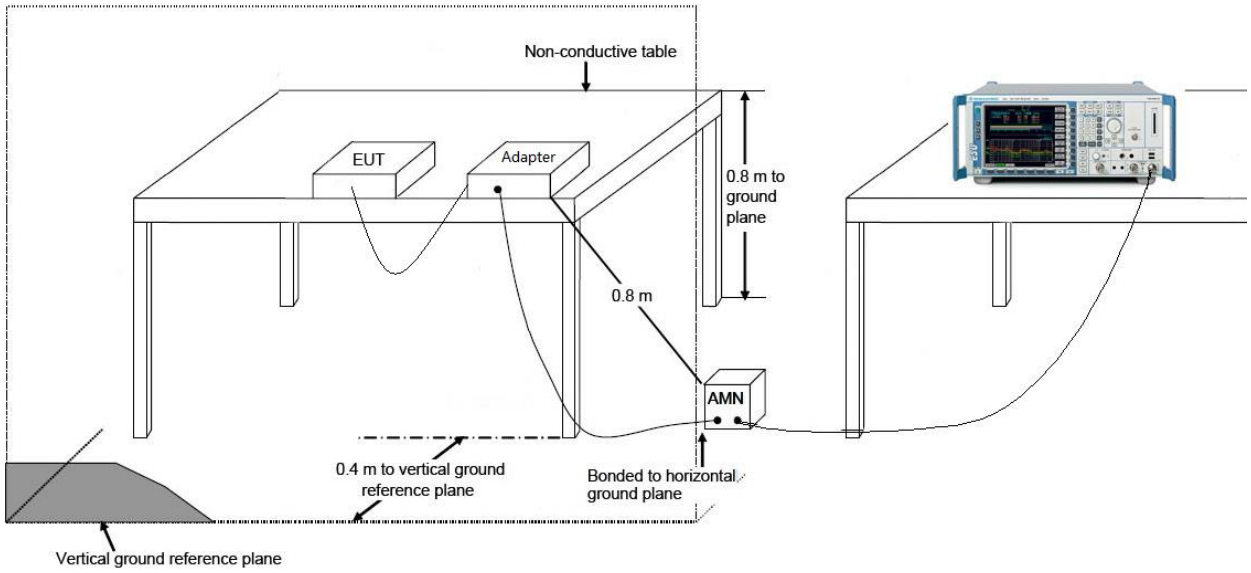
7.9.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

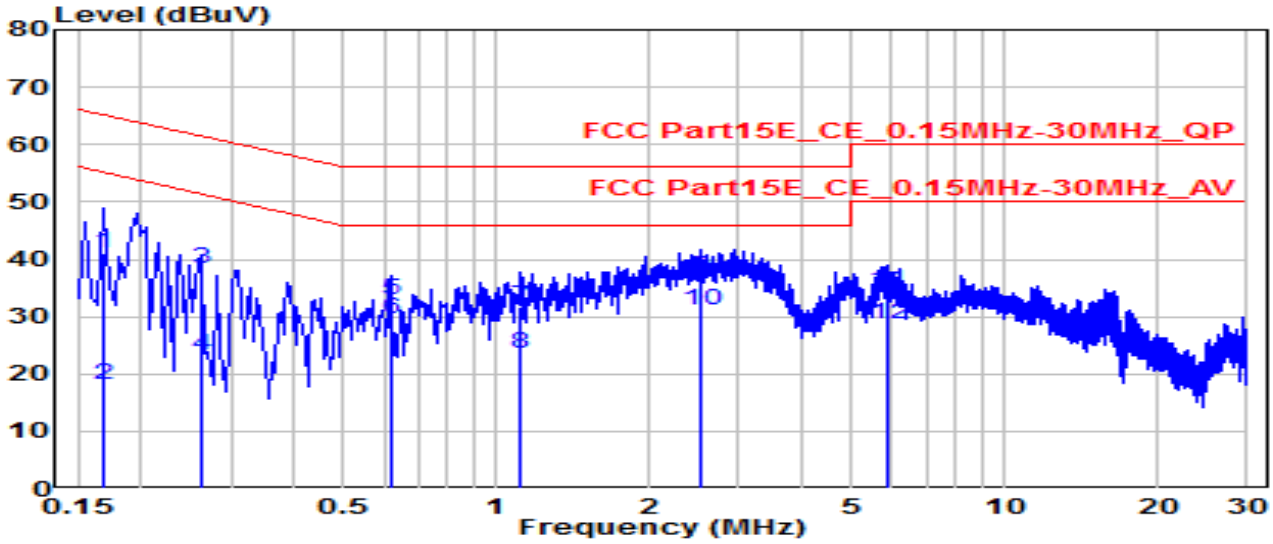
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.9.3. Test Setup



7.9.4. Test Result

EUT	Smart Projector	Date of Test	2022-03-04
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25.6°C /59%
Polarity	Line1	Site / Test Engineer	SR2 / Tim
Test Mode	802.11n-20_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz

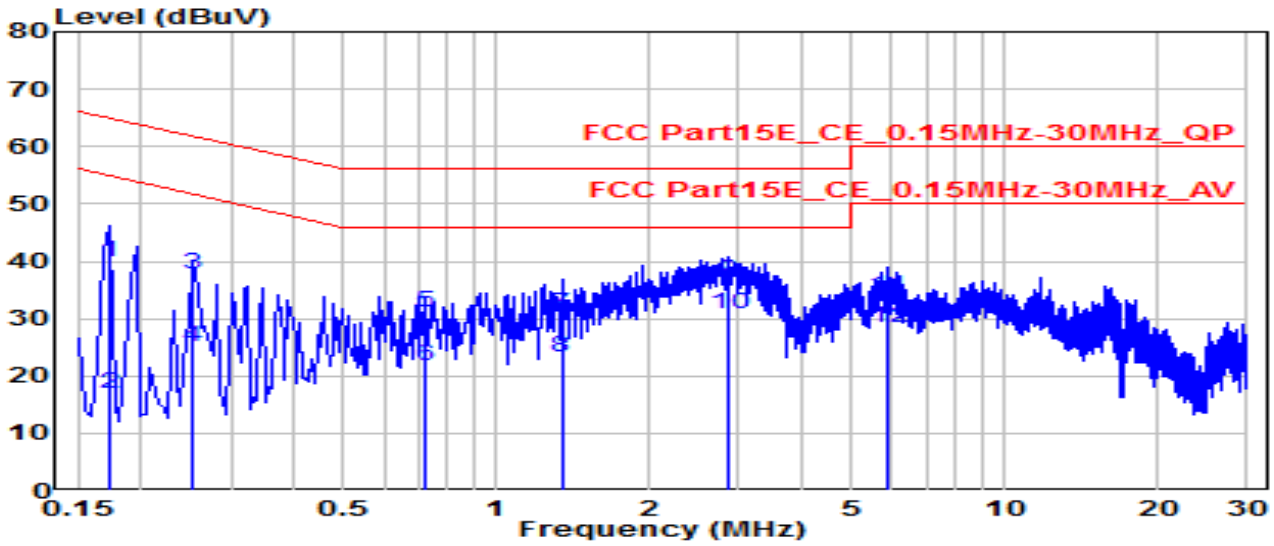


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.168	31.30	9.61	40.91	-24.15	65.06	QP
2		0.168	8.36	9.61	17.97	-37.08	55.06	Average
3		0.262	28.77	9.62	38.39	-22.96	61.35	QP
4		0.262	13.68	9.62	23.30	-28.06	51.35	Average
5		0.618	23.19	9.64	32.82	-23.18	56.00	QP
6		0.618	20.06	9.64	29.70	-16.30	46.00	Average
7		1.113	22.02	9.66	31.68	-24.32	56.00	QP
8		1.113	14.02	9.66	23.69	-22.31	46.00	Average
9	*	2.535	27.07	9.70	36.77	-19.23	56.00	QP
10	*	2.535	21.44	9.70	31.13	-14.87	46.00	Average
11		5.869	24.62	9.76	34.39	-25.61	60.00	QP
12		5.869	18.93	9.76	28.69	-21.31	50.00	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).

EUT	Smart Projector	Date of Test	2022-03-04
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25.6°C /59%
Polarity	Neutral	Site / Test Engineer	SR2 / Tim
Test Mode	802.11n-20_TX_Band1_CH 44_ANT 0	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.172	30.37	9.62	39.99	-24.85	64.84	QP
2		0.172	7.24	9.62	16.85	-37.99	54.84	Average
3		0.253	28.03	9.62	37.65	-24.00	61.64	QP
4		0.253	15.48	9.62	25.09	-26.55	51.64	Average
5		0.721	21.40	9.65	31.05	-24.95	56.00	QP
6		0.721	11.96	9.65	21.61	-24.39	46.00	Average
7		1.342	21.23	9.68	30.90	-25.10	56.00	QP
8		1.342	13.52	9.68	23.20	-22.80	46.00	Average
9	*	2.872	26.92	9.71	36.62	-19.38	56.00	QP
10	*	2.872	21.21	9.71	30.92	-15.08	46.00	Average
11		5.891	24.09	9.77	33.87	-26.13	60.00	QP
12		5.891	18.68	9.77	28.46	-21.54	50.00	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).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Smart Projector, FCC ID: 2AAUL-WARPPLE-LS5, Model Number: OVO-L1** is in compliance with Part 15E of the FCC Rules.

The End