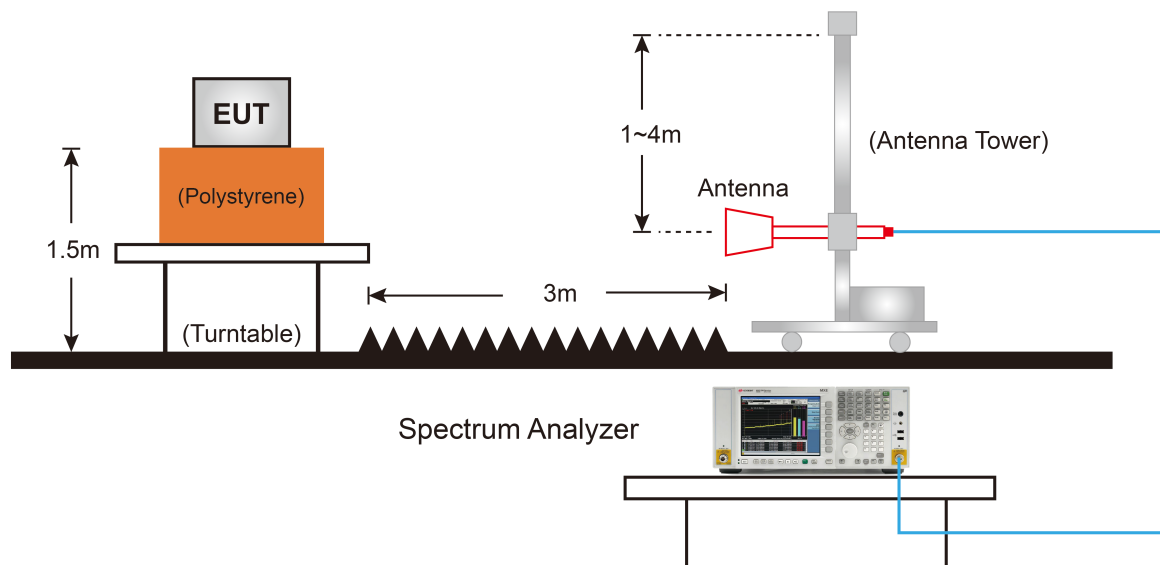
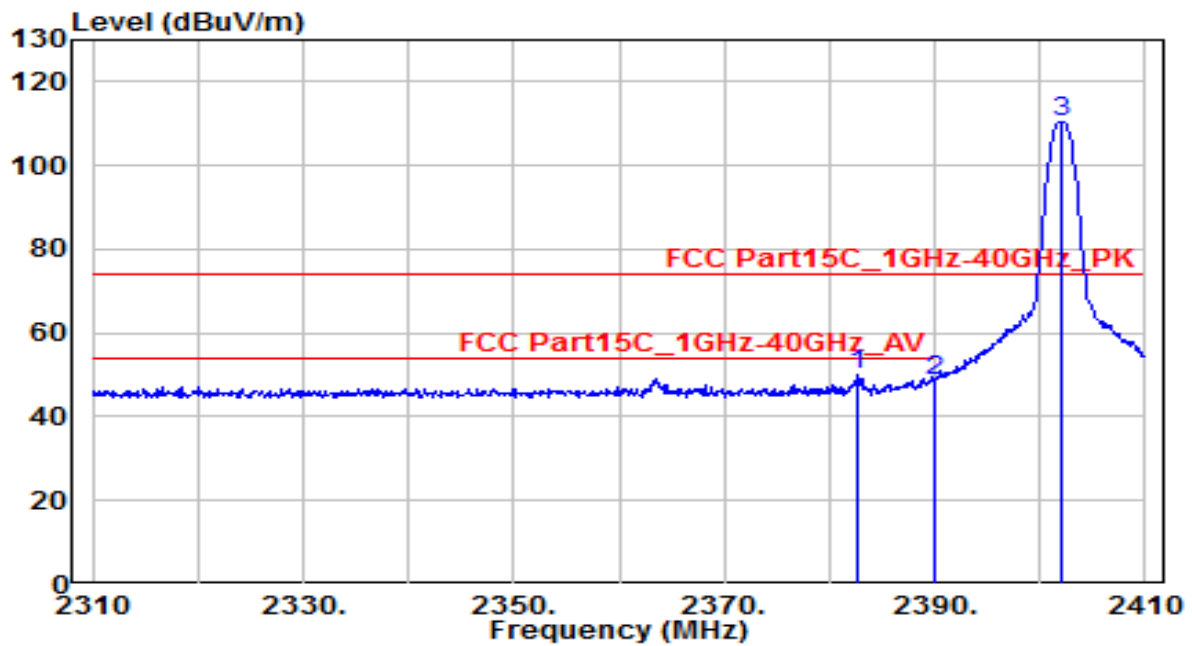


6.7.4. Test Setup



6.7.5. Test Result

EUT	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	By PoE

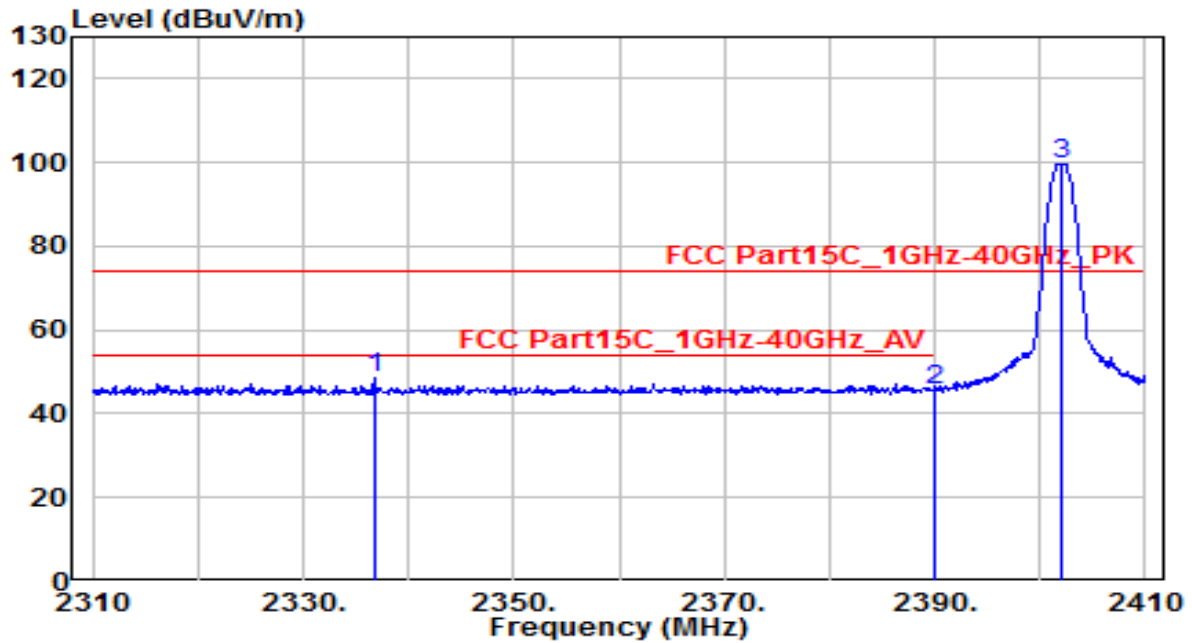


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2382.700	51.98	-2.07	49.91	-24.09	74.00	150	120	Peak
2		2390.000	50.52	-2.04	48.48	-25.52	74.00	150	120	Peak
3		2402.100	112.23	-1.99	110.23	N/A	N/A	150	120	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	By PoE

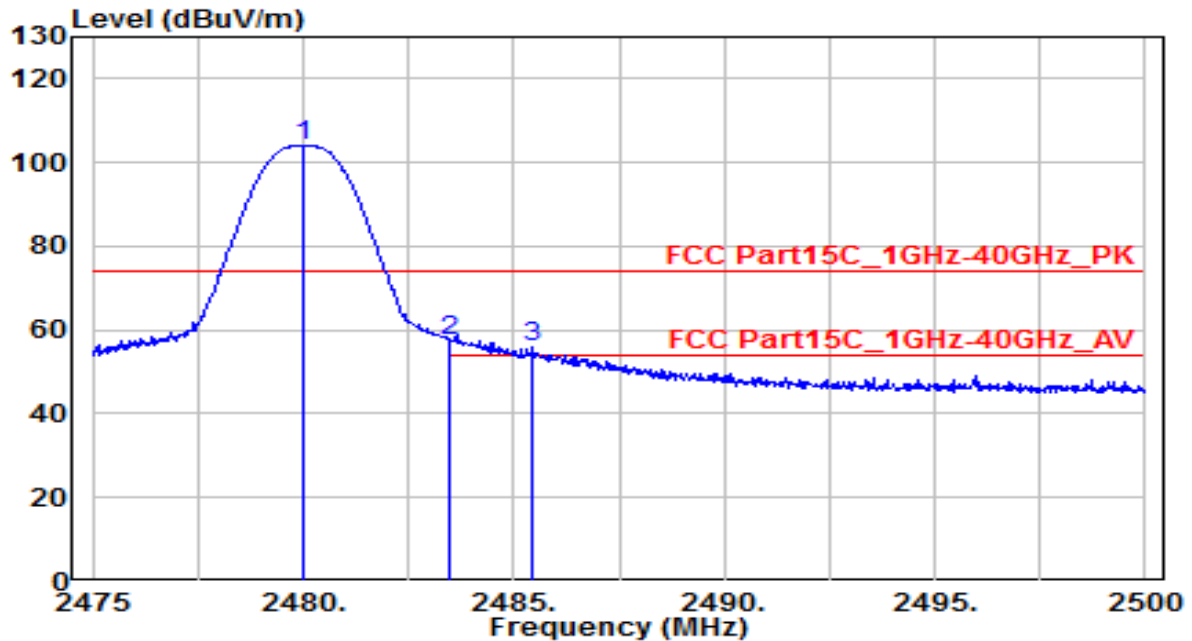


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2336.700	50.64	-2.24	48.40	-25.60	74.00	150	300	Peak
2		2390.000	47.45	-2.04	45.41	-28.59	74.00	150	300	Peak
3		2402.100	101.73	-1.99	99.74	N/A	N/A	150	300	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

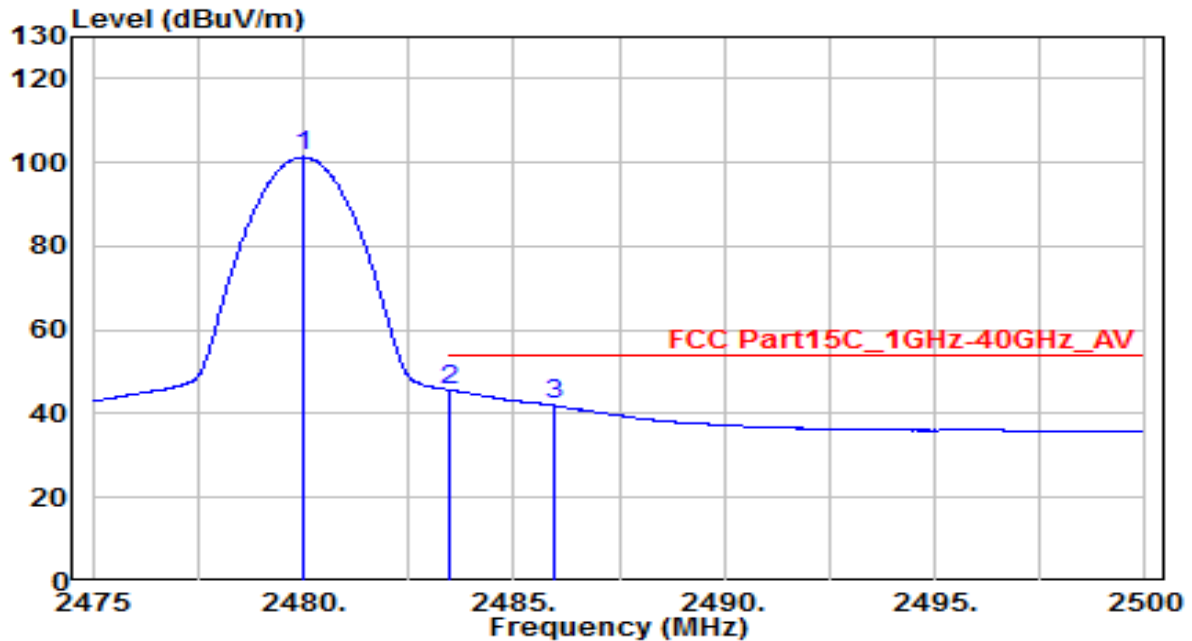


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.000	105.57	-1.70	103.87	N/A	N/A	150	120	Peak
2	* 2483.500	58.92	-1.68	57.24	-16.76	74.00	150	120	Peak
3	2485.450	57.46	-1.68	55.79	-18.21	74.00	150	120	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

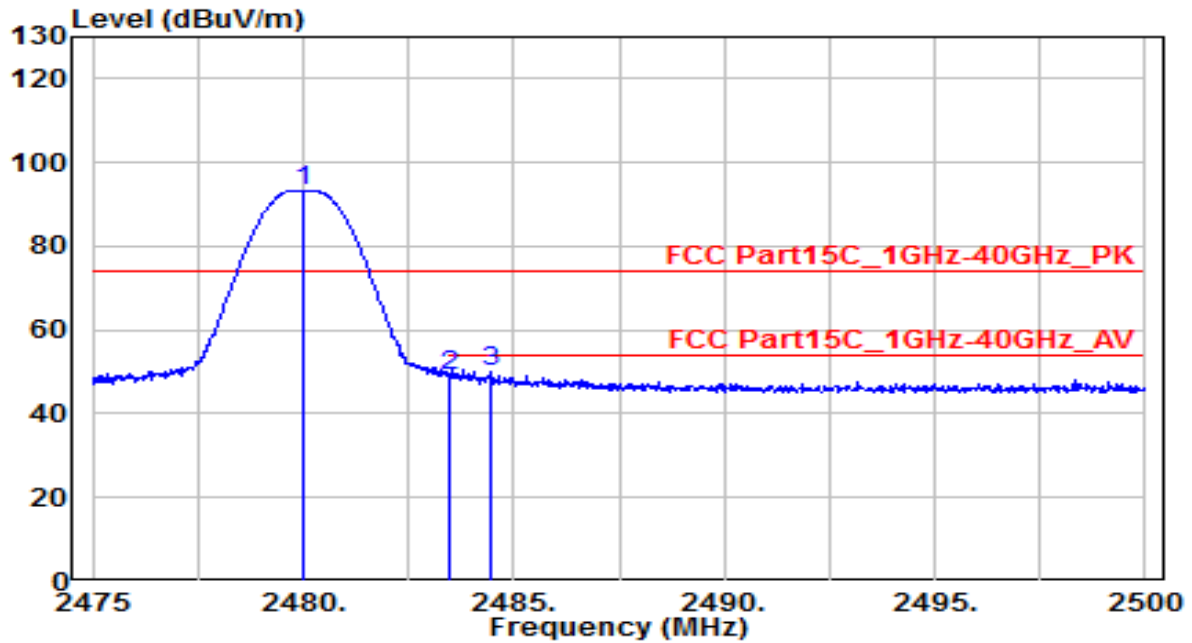


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	103.00	-1.70	101.31	N/A	N/A	150	120	Average
2	* 2483.500	47.31	-1.68	45.62	-8.38	54.00	150	120	Average
3	2485.975	43.64	-1.67	41.97	-12.03	54.00	150	120	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

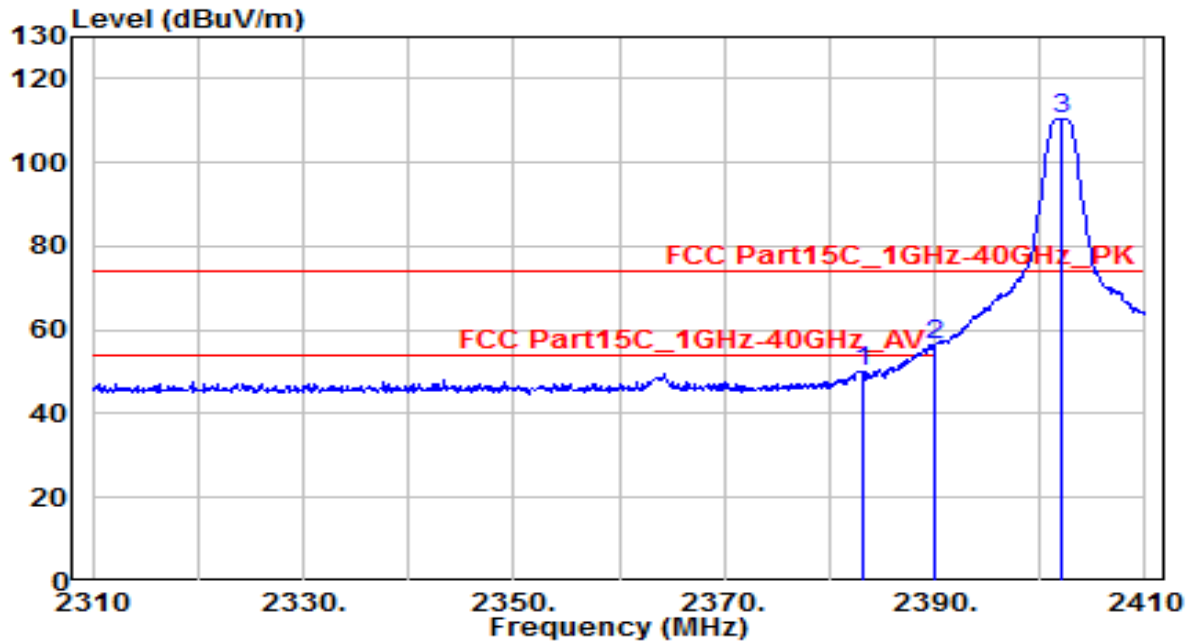


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	94.95	-1.70	93.25	N/A	N/A	135	290	Peak
2	2483.500	50.85	-1.68	49.16	-24.84	74.00	135	290	Peak
3	* 2484.475	51.90	-1.68	50.22	-23.78	74.00	135	290	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE

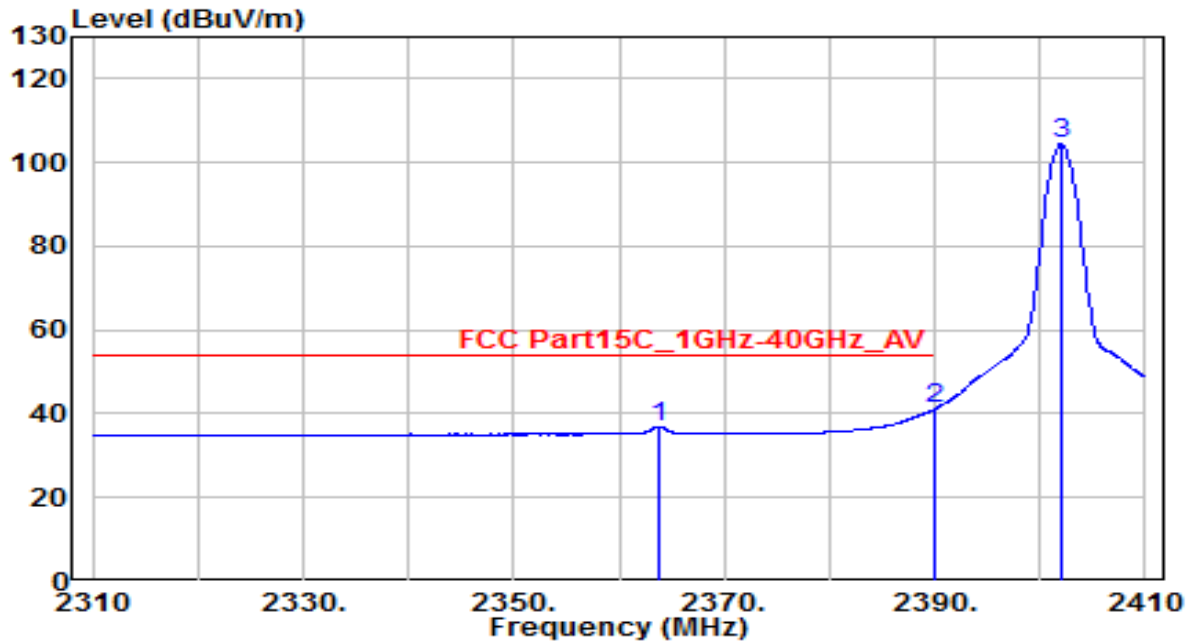


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2383.200	52.33	-2.06	50.27	-23.73	74.00	150	120	Peak
2	* 2390.000	58.61	-2.04	56.57	-17.43	74.00	150	120	Peak
3	2402.100	112.60	-1.99	110.61	N/A	N/A	150	120	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE

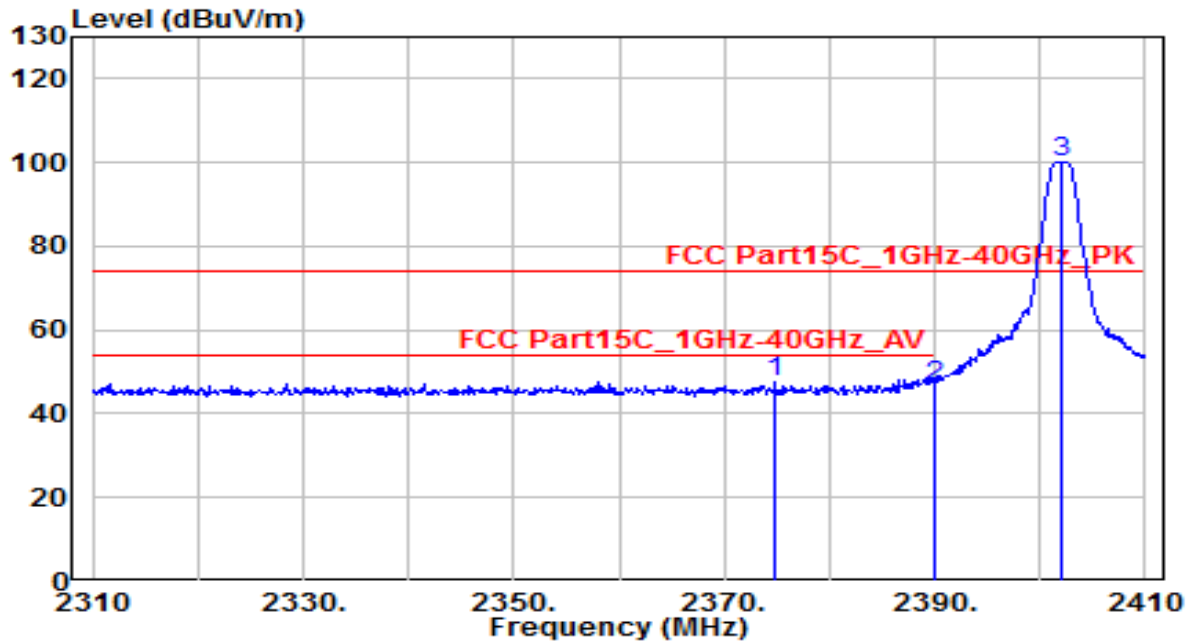


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2363.700	39.09	-2.14	36.95	-17.05	54.00	150	120	Average
2	* 2390.000	43.15	-2.04	41.11	-12.89	54.00	150	120	Average
3	2402.000	106.32	-1.99	104.32	N/A	N/A	150	120	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE

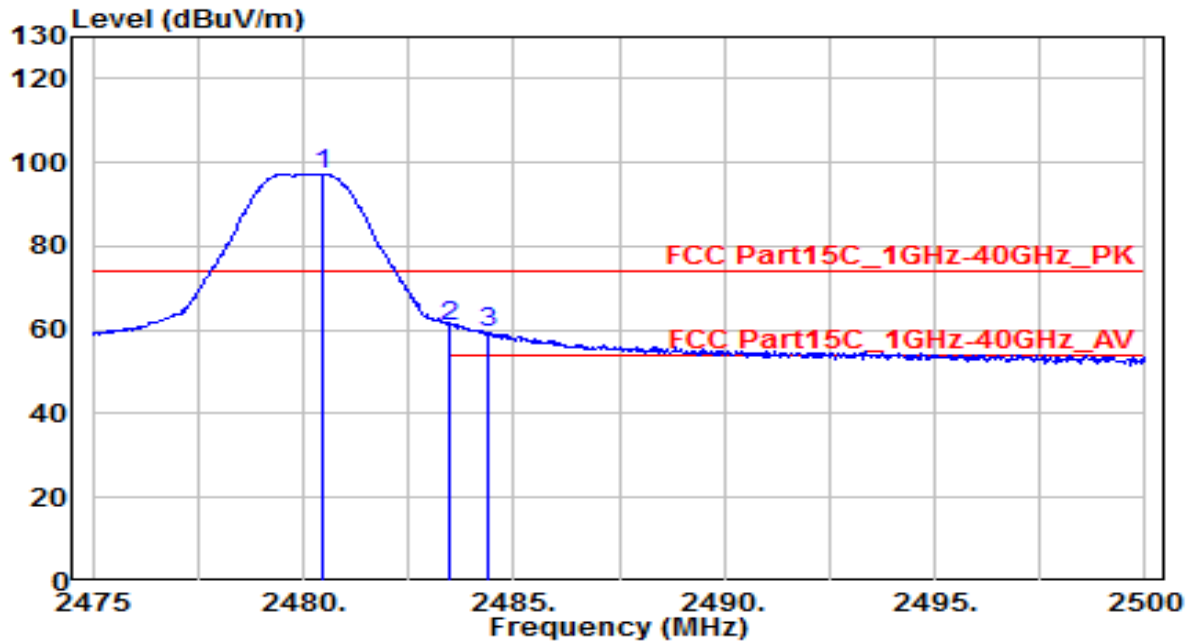


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2374.800	49.89	-2.10	47.79	-26.21	74.00	150	300	Peak
2		2390.000	48.82	-2.04	46.79	-27.21	74.00	150	300	Peak
3		2402.100	102.31	-1.99	100.32	N/A	N/A	150	300	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE

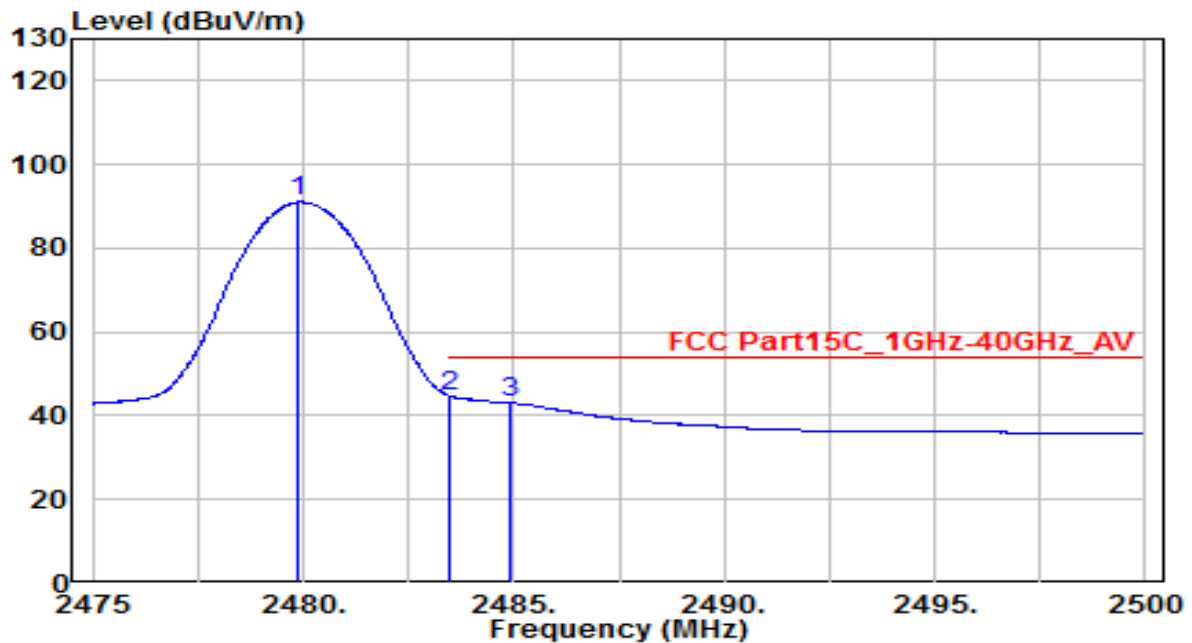


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.475	98.83	-1.69	97.13	N/A	N/A	150	120	Peak
2	* 2483.500	62.57	-1.68	60.89	-13.11	74.00	150	120	Peak
3	2484.400	61.13	-1.68	59.45	-14.55	74.00	150	120	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE

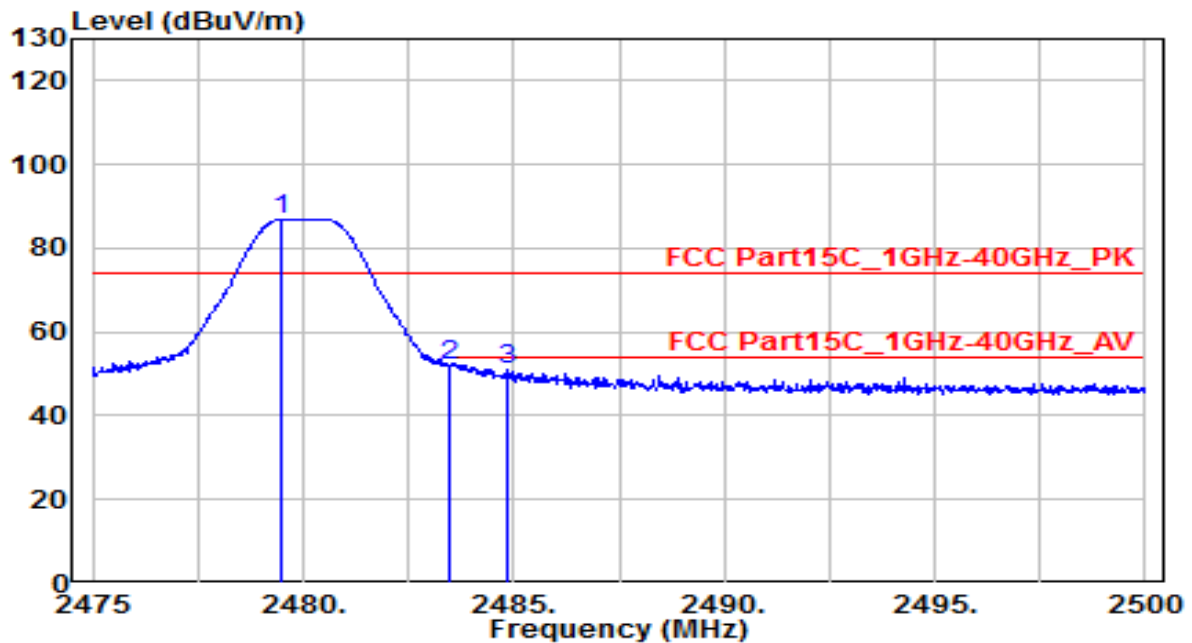


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.900	92.73	-1.70	91.03	N/A	N/A	150	120	Average
2	* 2483.500	46.45	-1.68	44.77	-9.23	54.00	150	120	Average
3	2484.925	44.78	-1.68	43.11	-10.89	54.00	150	120	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.500	88.71	-1.70	87.01	N/A	N/A	135	290	Peak
2	* 2483.500	53.73	-1.68	52.04	-21.96	74.00	135	290	Peak
3	2484.875	52.81	-1.68	51.13	-22.87	74.00	135	290	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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.

6.8. AC Conducted Emissions Measurement

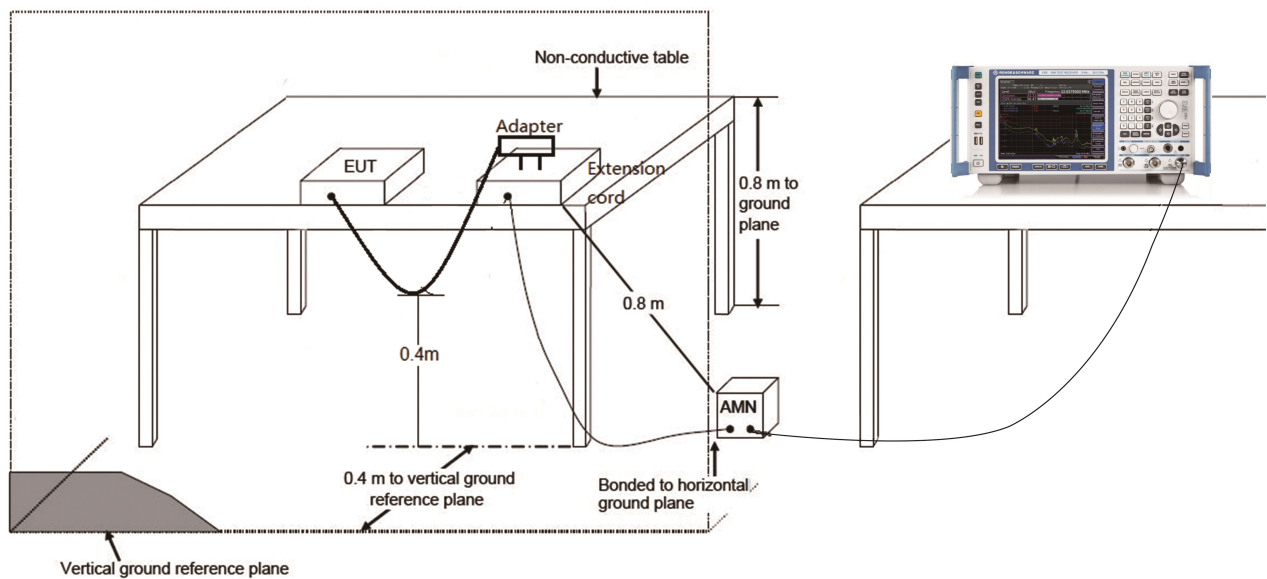
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

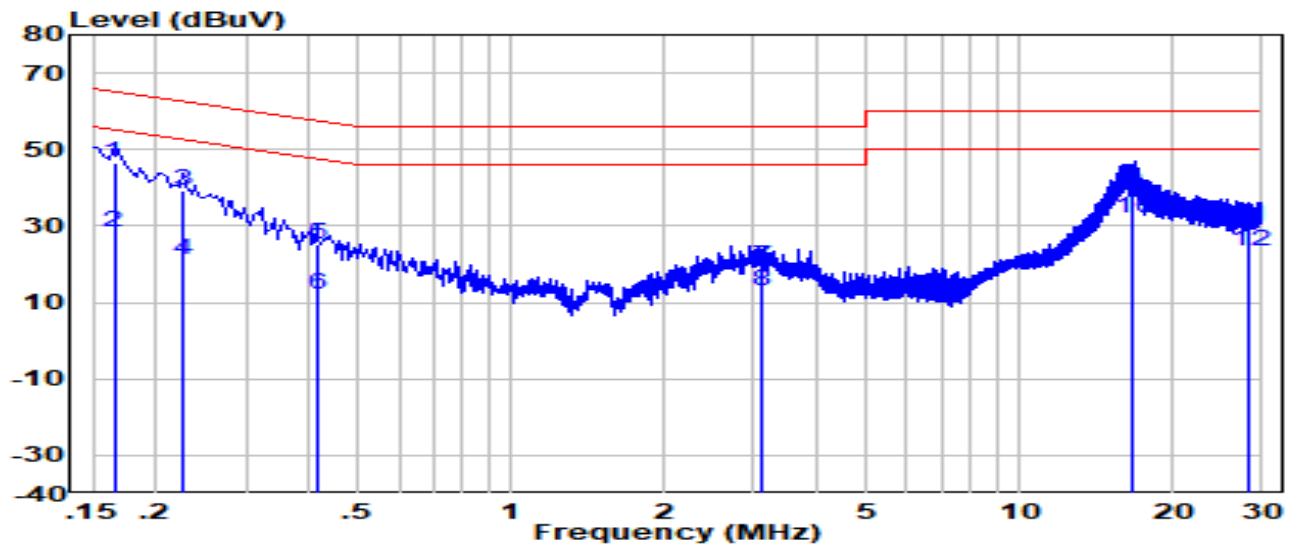
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3. Test Result

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-L1 (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Line1	Site / Test Engineer	SR2 / Peter
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	120V/60Hz

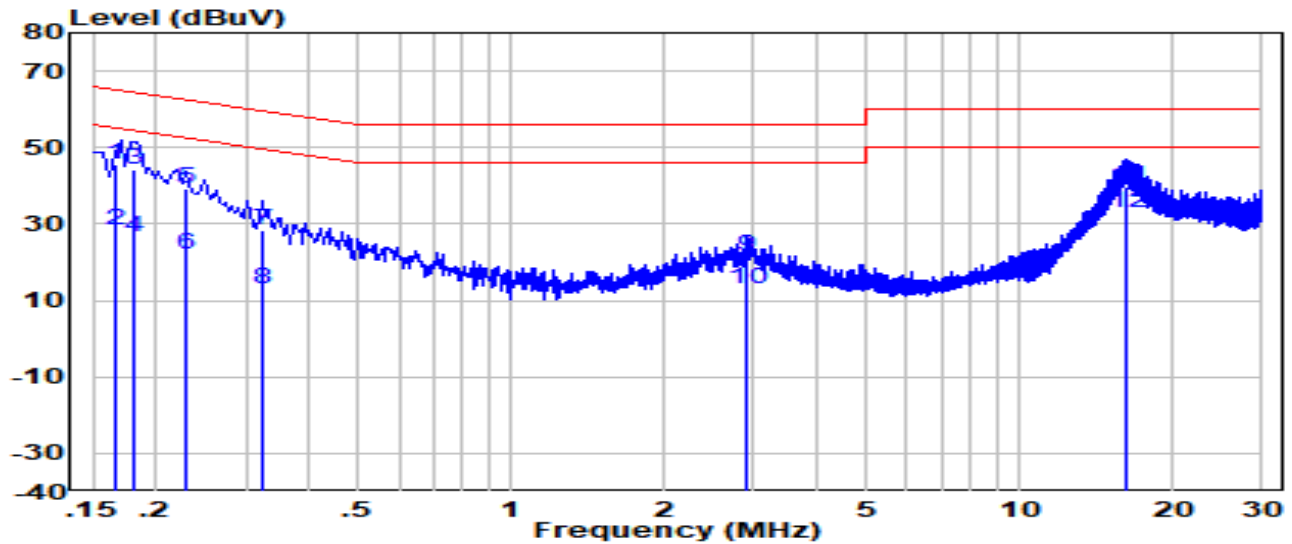


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.165	36.81	9.61	46.42	-18.79	65.21	QP
2		0.165	18.61	9.61	28.22	-36.99	65.21	Average
3		0.226	29.63	9.61	39.24	-23.35	62.60	QP
4		0.226	11.63	9.61	21.24	-41.35	62.60	Average
5		0.414	15.46	9.63	25.08	-32.49	57.57	QP
6		0.414	2.66	9.63	12.28	-45.29	57.57	Average
7		3.100	9.69	9.71	19.40	-36.60	56.00	QP
8		3.100	3.49	9.71	13.20	-42.80	56.00	Average
9		16.720	28.90	9.95	38.85	-21.15	60.00	QP
10		16.720	22.10	9.95	32.05	-27.95	60.00	Average
11		28.190	19.74	10.09	29.83	-30.17	60.00	QP
12		28.190	13.14	10.09	23.23	-36.77	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-N (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Neutral	Site / Test Engineer	SR2 / Peter
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	*	0.167	36.19	9.62	45.81	-19.30	65.11	QP
2		0.167	18.59	9.62	28.21	-36.90	65.11	Average
3		0.181	34.60	9.62	44.22	-20.22	64.44	QP
4		0.181	17.10	9.62	26.72	-37.72	64.44	Average
5		0.229	29.51	9.62	39.13	-23.35	62.49	QP
6		0.229	12.31	9.62	21.93	-40.55	62.49	Average
7		0.322	18.52	9.63	28.15	-31.50	59.66	QP
8		0.322	3.22	9.63	12.85	-46.80	59.66	Average
9		2.910	11.68	9.71	21.39	-34.61	56.00	QP
10		2.910	3.18	9.71	12.89	-43.11	56.00	Average
11		16.260	29.82	10.00	39.82	-20.19	60.00	QP
12		16.260	23.02	10.00	33.02	-26.99	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).

7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15C of the FCC rules.

The End

Appendix A - Test Setup Photograph

Refer to “ 2105TW0102-UT” file.

Appendix B - EUT Photograph

Refer to “ 2105TW0102-UE” file.

Appendix C - Internal Photograph

Refer to “ 2105TW0102-UI” file.