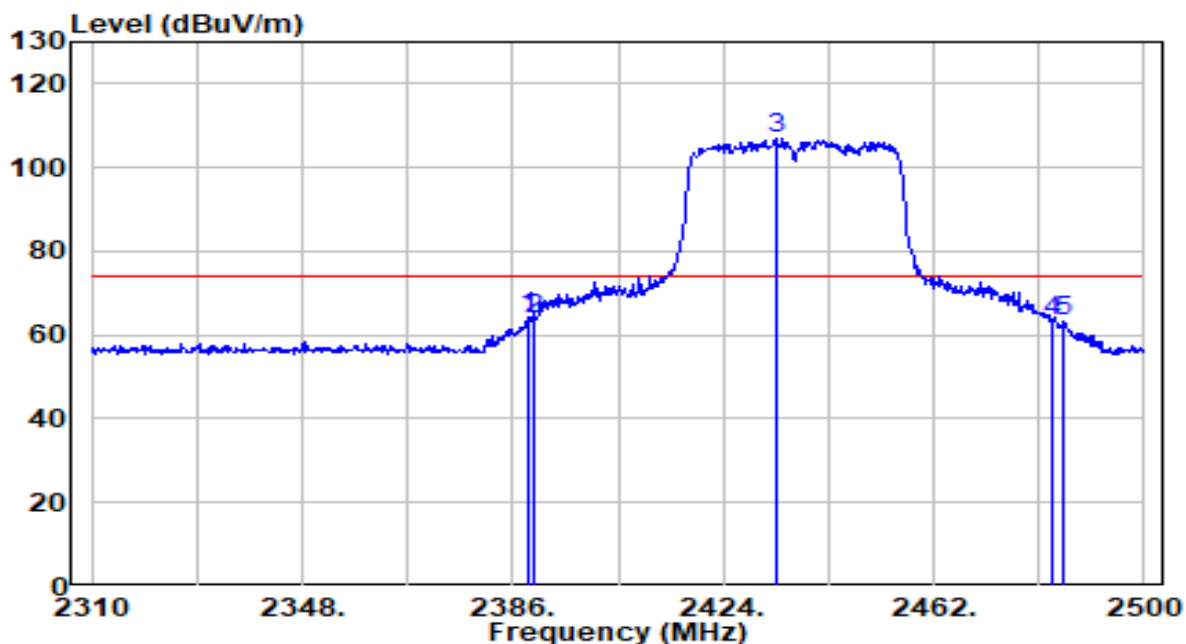


EUT	OAW-AP1311	Date of Test	2020-10-07
Factor	BBHA 9120D	Temp. / Humidity	26.2°C/44.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at channel 2437MHz	Test Voltage	110V/60Hz

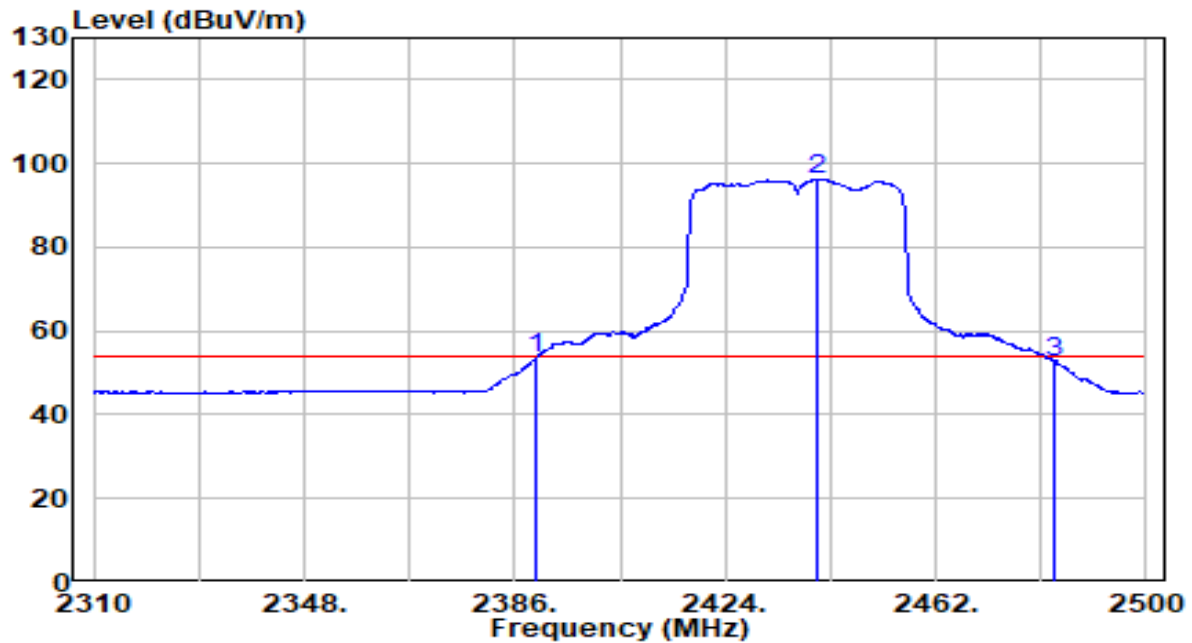


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.660	31.75	32.29	64.04	-9.96	74.00	Peak
2	2390.000	31.67	32.30	63.96	-10.04	74.00	Peak
3	* 2433.500	74.29	32.49	106.78	N/A	N/A	Peak
4	2483.500	30.58	32.71	63.29	-10.71	74.00	Peak
5	2485.560	30.58	32.72	63.30	-10.70	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-10-07
Factor	BBHA 9120D	Temp. / Humidity	26.2°C/44.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at channel 2437MHz	Test Voltage	110V/60Hz

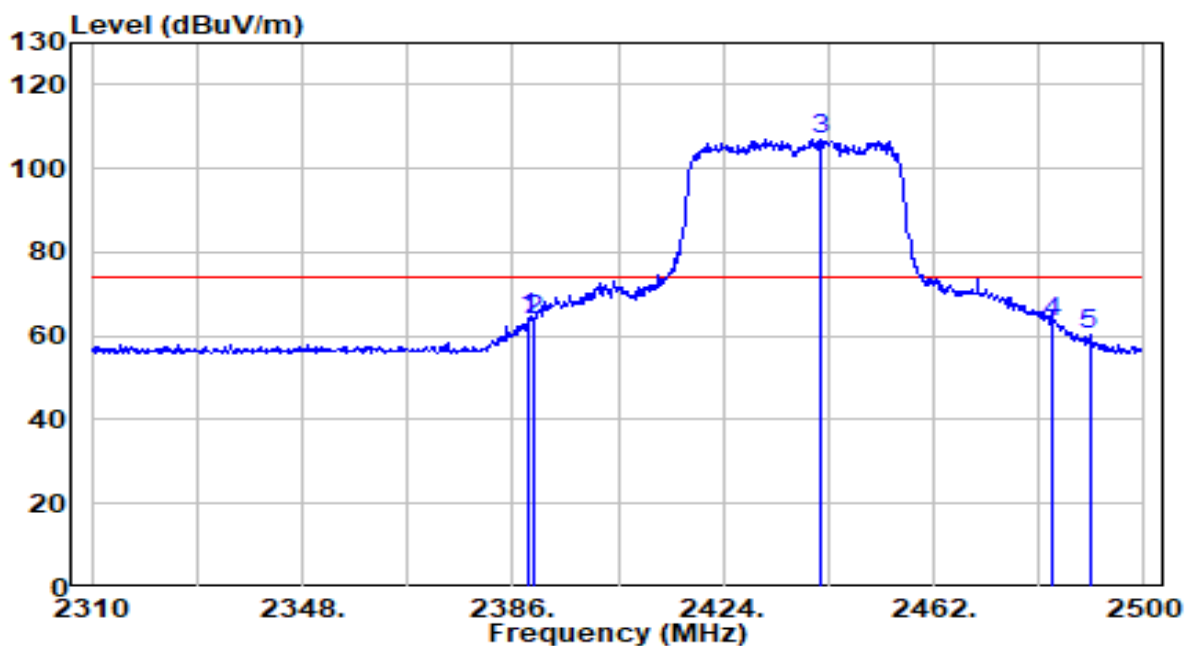


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	21.15	32.30	53.45	-0.55	54.00	Average
2	* 2440.530	63.82	32.52	96.34	N/A	N/A	Average
3	2483.500	20.01	32.71	52.72	-1.28	54.00	Average

Note:

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

EUT	OAW-AP1311	Date of Test	2020-10-07
Factor	BBHA 9120D	Temp. / Humidity	26.2°C/44.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at channel 2437MHz	Test Voltage	110V/60Hz

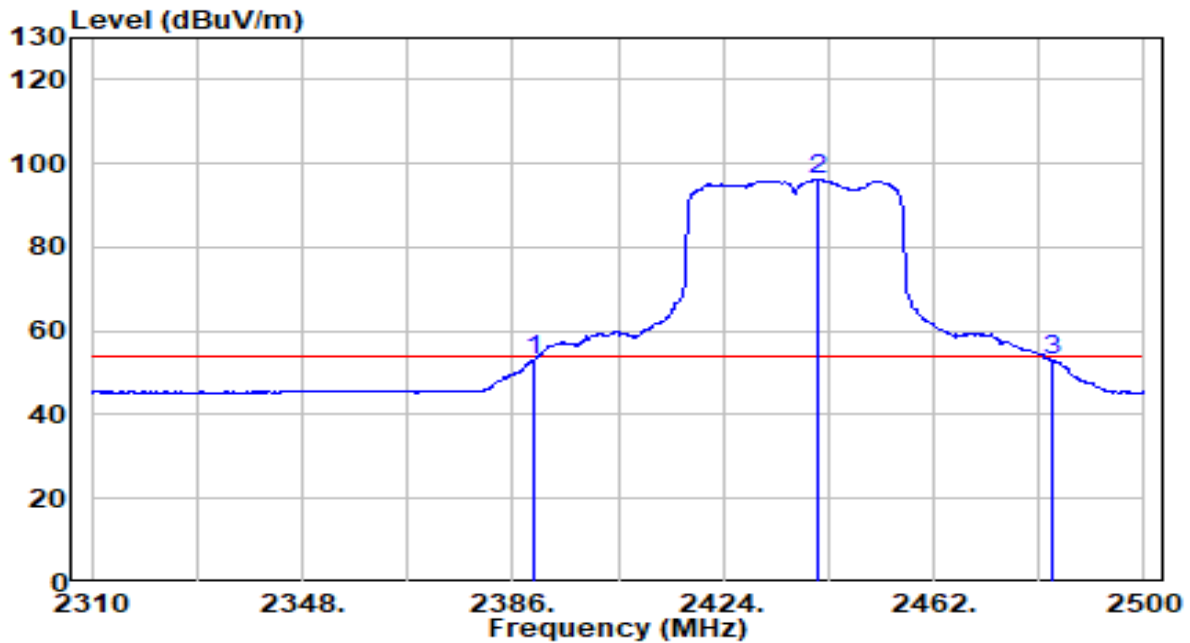


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.850	31.79	32.29	64.08	-9.92	74.00	Peak
2	2390.000	31.46	32.30	63.76	-10.25	74.00	Peak
3	* 2441.480	74.52	32.52	107.04	N/A	N/A	Peak
4	2483.530	30.47	32.71	63.18	-10.82	74.00	Peak
5	2490.120	27.56	32.74	60.29	-13.71	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-10-07
Factor	BBHA 9120D	Temp. / Humidity	26.2°C/44.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at channel 2437MHz	Test Voltage	110V/60Hz

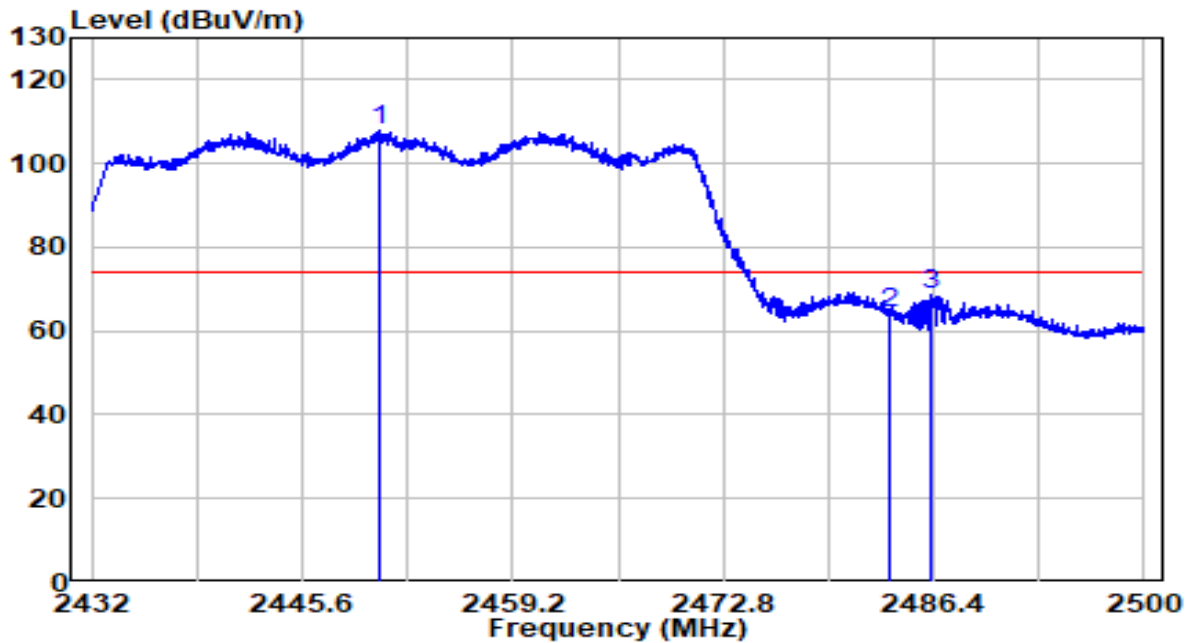


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.990	20.74	32.30	53.04	-0.96	54.00	Average
2	* 2441.290	63.74	32.52	96.26	N/A	N/A	Average
3	2483.500	20.31	32.71	53.02	-0.98	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-04
Factor	BBHA 9120D	Temp. / Humidity	23.7°C/40%
Polarity	Horizontal	Site / Test Engineer	AC2 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at Channel 2452MHz	Test Voltage	110V/60Hz

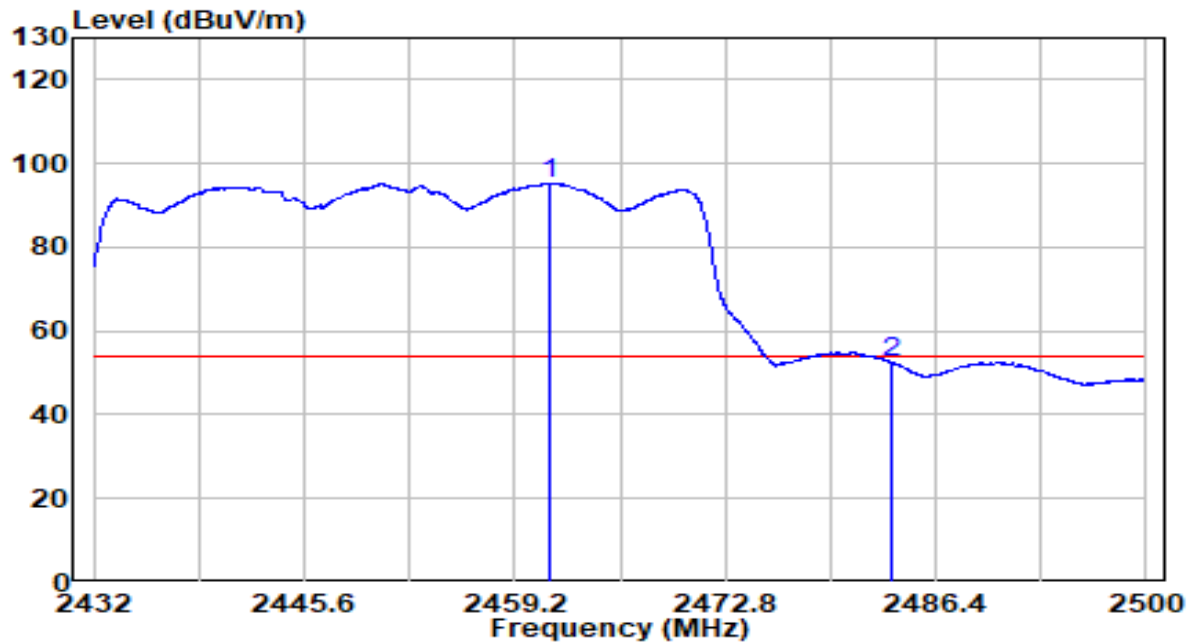


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2450.666	75.22	32.56	107.79	N/A	N/A	Peak
2		2483.500	31.40	32.71	64.11	-9.89	74.00	Peak
3		2486.196	35.92	32.72	68.64	-5.36	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-04
Factor	BBHA 9120D	Temp. / Humidity	23.7°C/40%
Polarity	Horizontal	Site / Test Engineer	AC2 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at Channel 2452MHz	Test Voltage	110V/60Hz

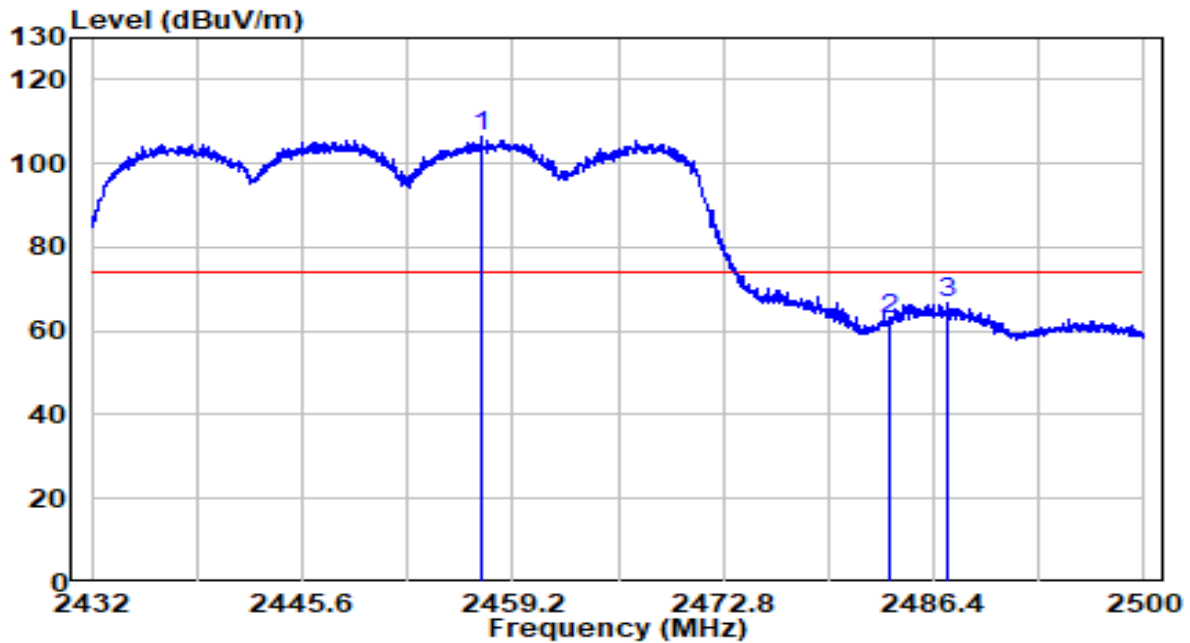


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.444	62.73	32.61	95.34	N/A	N/A	Average
2		2483.510	19.87	32.71	52.57	-1.43	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-04
Factor	BBHA 9120D	Temp. / Humidity	23.7°C/40%
Polarity	Vertical	Site / Test Engineer	AC2 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at Channel 2452MHz	Test Voltage	110V/60Hz

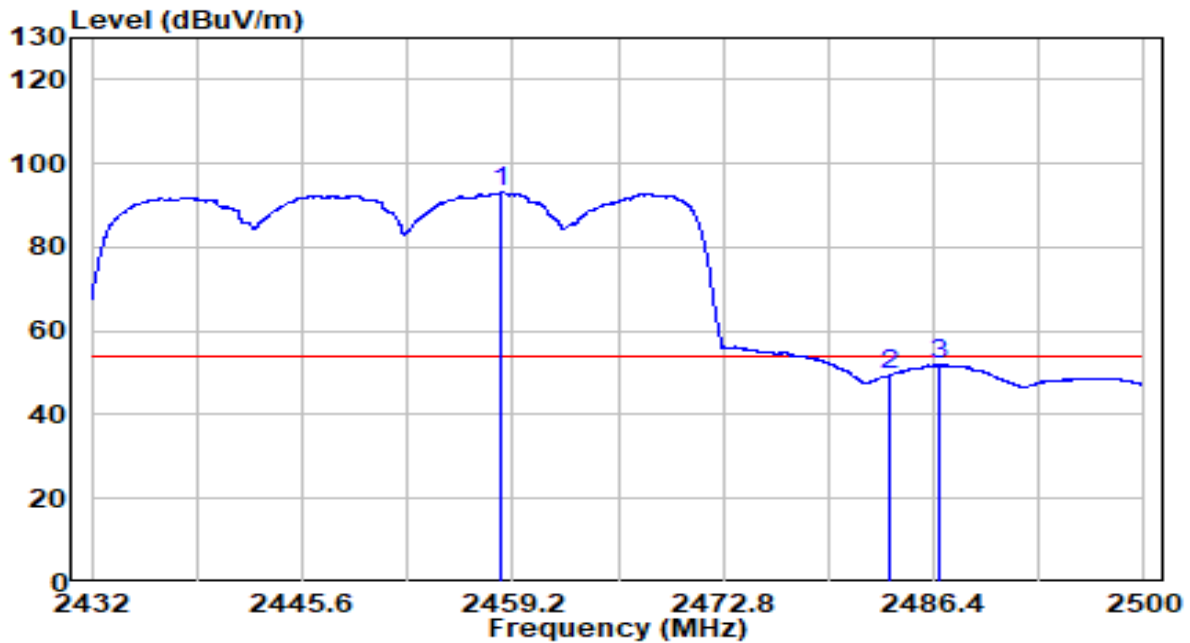


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2457.194	73.73	32.59	106.32	N/A	N/A	Peak
2		2483.500	30.03	32.71	62.73	-11.27	74.00	Peak
3		2487.284	33.91	32.72	66.64	-7.36	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-04
Factor	BBHA 9120D	Temp. / Humidity	23.7°C/40%
Polarity	Vertical	Site / Test Engineer	AC2 / Kevin Ker
Test Mode	Transmit by 802.11ax-HE40 at Channel 2452MHz	Test Voltage	110V/60Hz

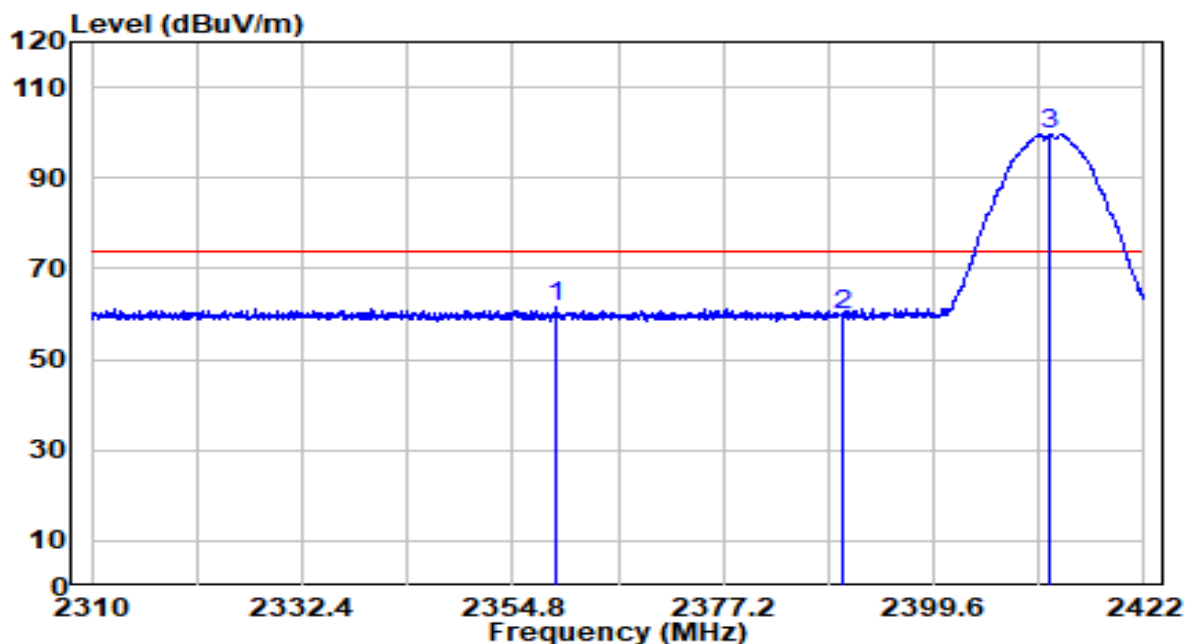


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2458.418	60.47	32.60	93.07	N/A	N/A	Average
2		2483.500	16.72	32.71	49.43	-4.57	54.00	Average
3		2486.774	19.14	32.72	51.86	-2.14	54.00	Average

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).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

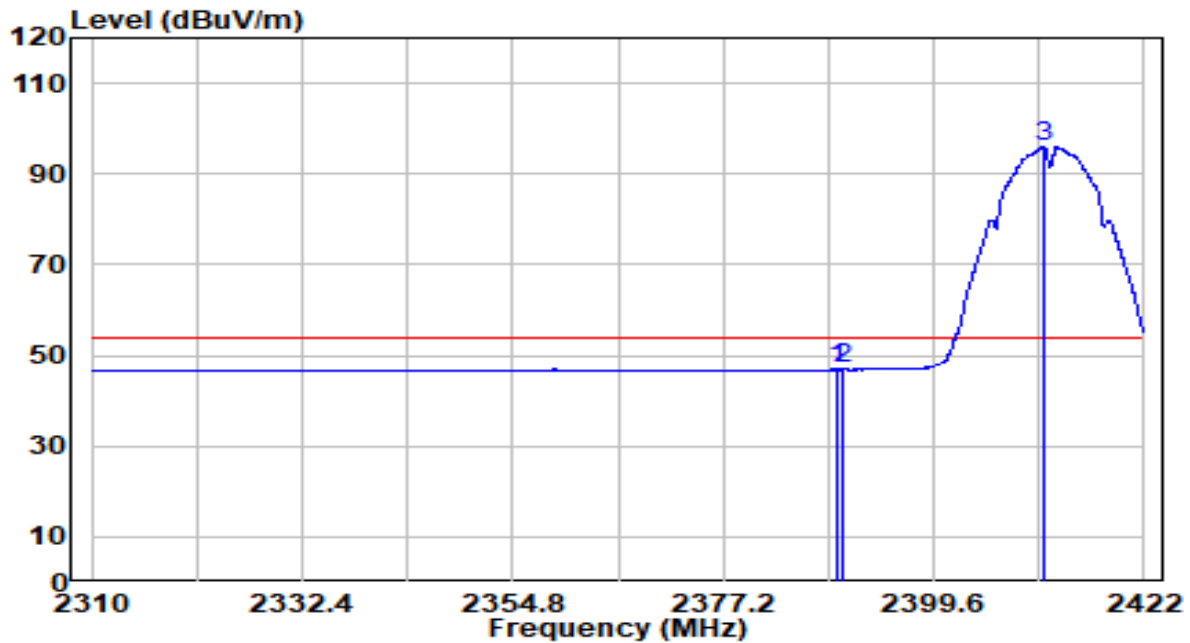


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2359.392	29.44	32.16	61.60	-12.40	74.00	Peak
2	2390.000	27.34	32.30	59.64	-14.36	74.00	Peak
3	* 2411.976	67.15	32.39	N/A	N/A	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

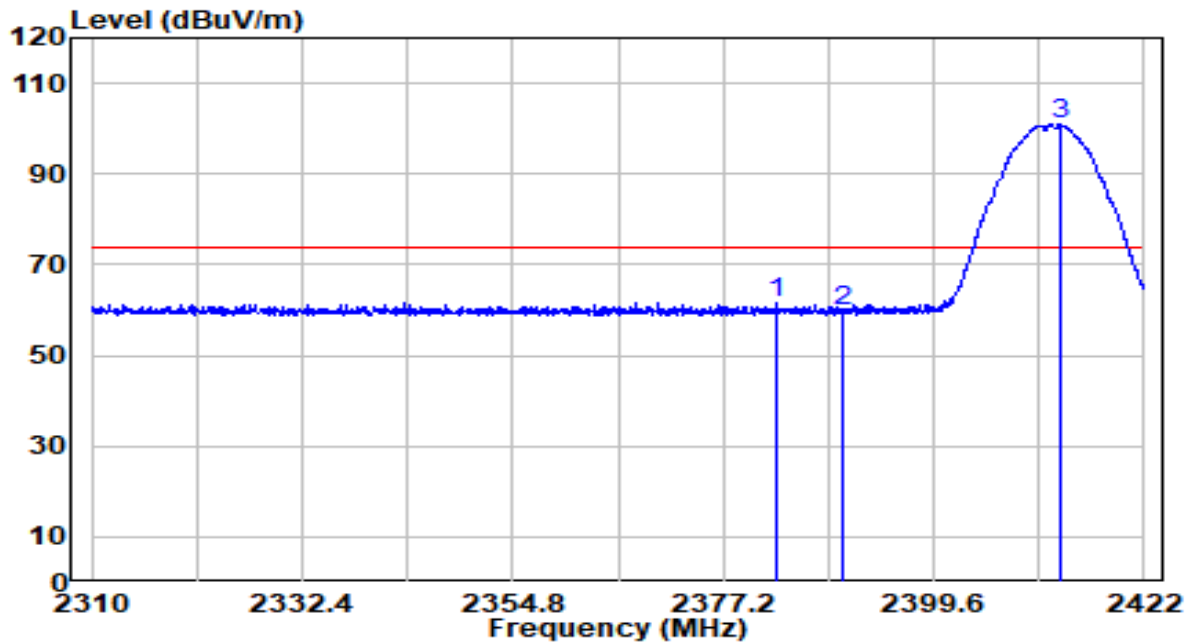


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.240	14.60	32.29	46.89	-7.11	54.00	Average
2	2390.000	14.59	32.30	46.89	-7.11	54.00	Average
3	* 2411.248	63.74	32.39	N/A	N/A	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

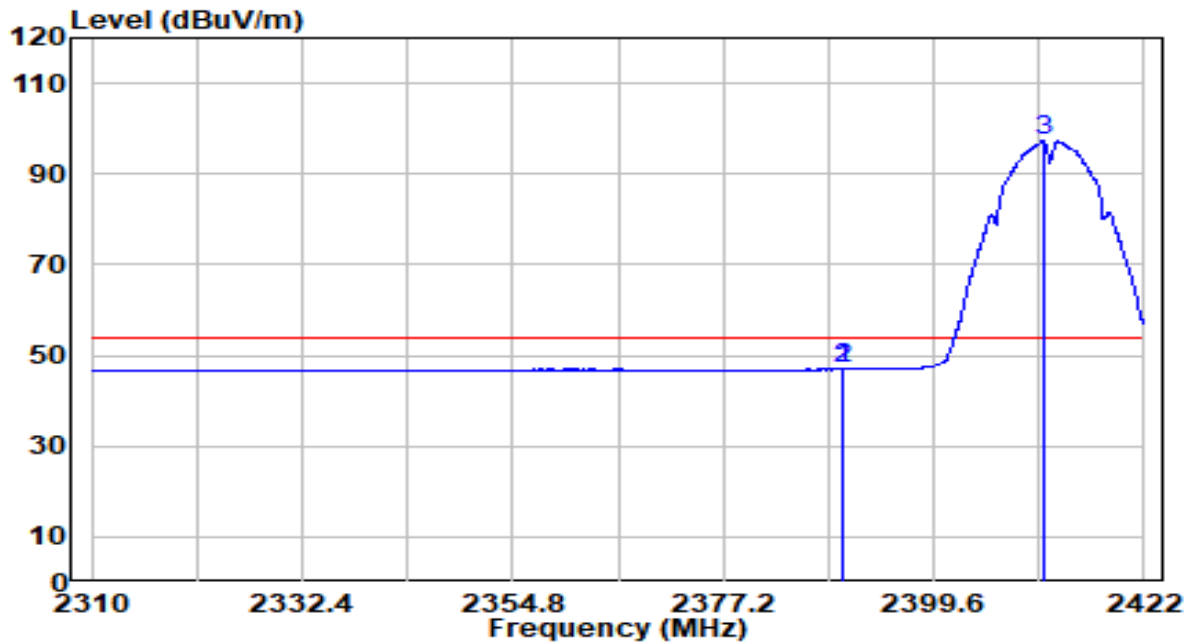


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2382.744	29.37	32.26	61.63	-12.37	74.00	Peak
2	2390.000	27.51	32.30	59.80	-14.20	74.00	Peak
3	* 2413.096	68.54	32.40	N/A	N/A	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

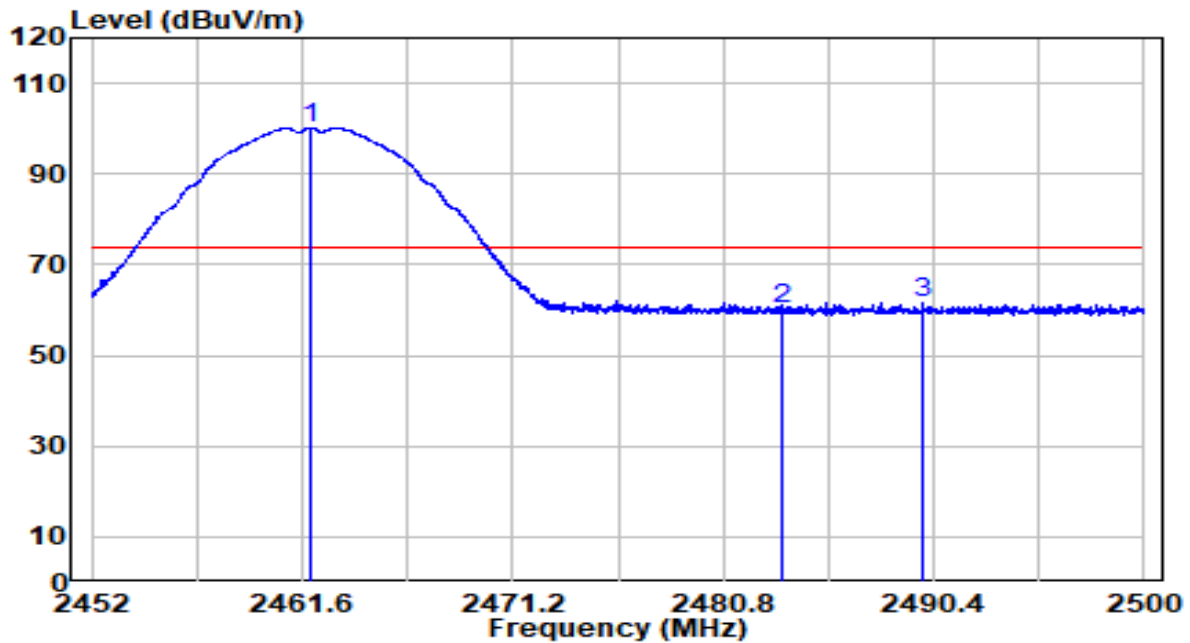


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.800	14.64	32.30	46.94	-7.06	54.00	Average
2	2390.000	14.60	32.30	46.90	-7.10	54.00	Average
3	* 2411.248	64.89	32.39	N/A	N/A	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

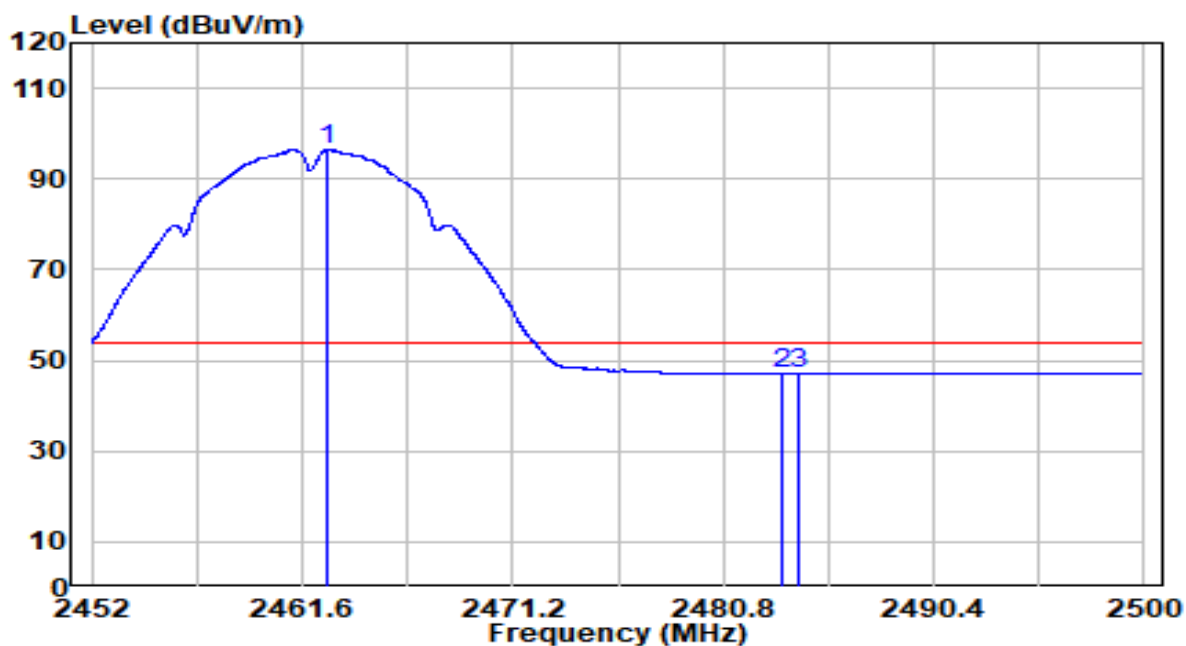


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2462.008	67.59	32.61	N/A	N/A	74.00	Peak
2		2483.500	27.30	32.71	60.00	-14.00	74.00	Peak
3		2489.872	28.68	32.74	61.42	-12.58	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

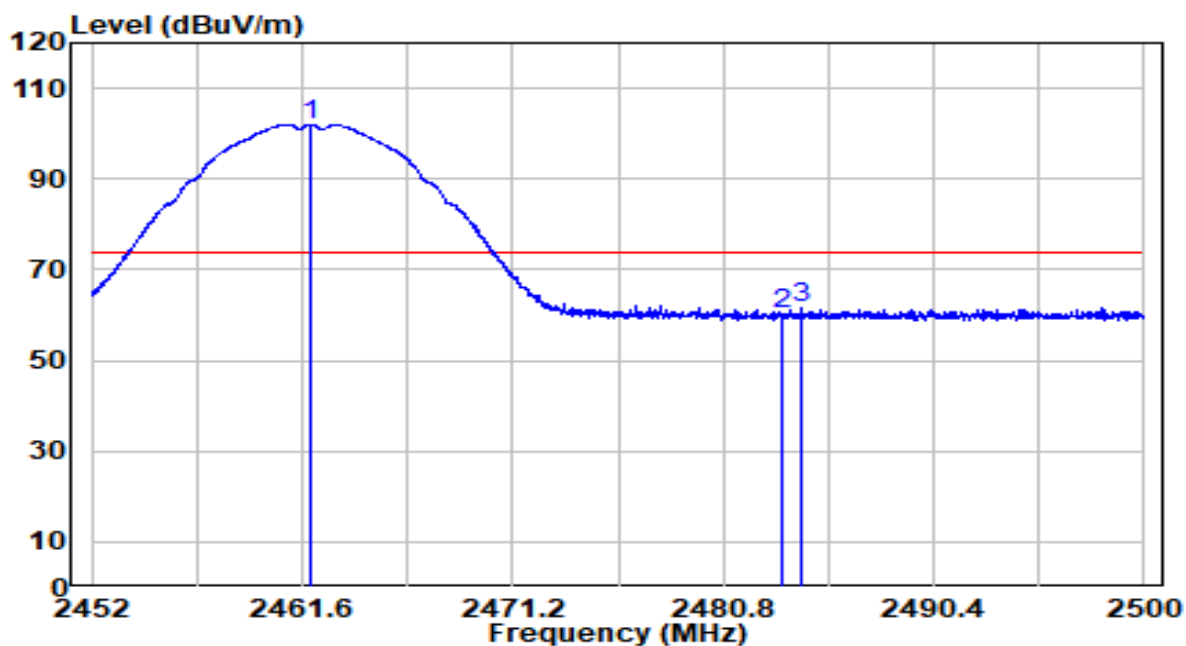


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2462.776	64.04	32.62	N/A	N/A	54.00	Average
2		2483.500	14.32	32.71	47.03	-6.97	54.00	Average
3		2484.232	14.37	32.71	47.08	-6.92	54.00	Average

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).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

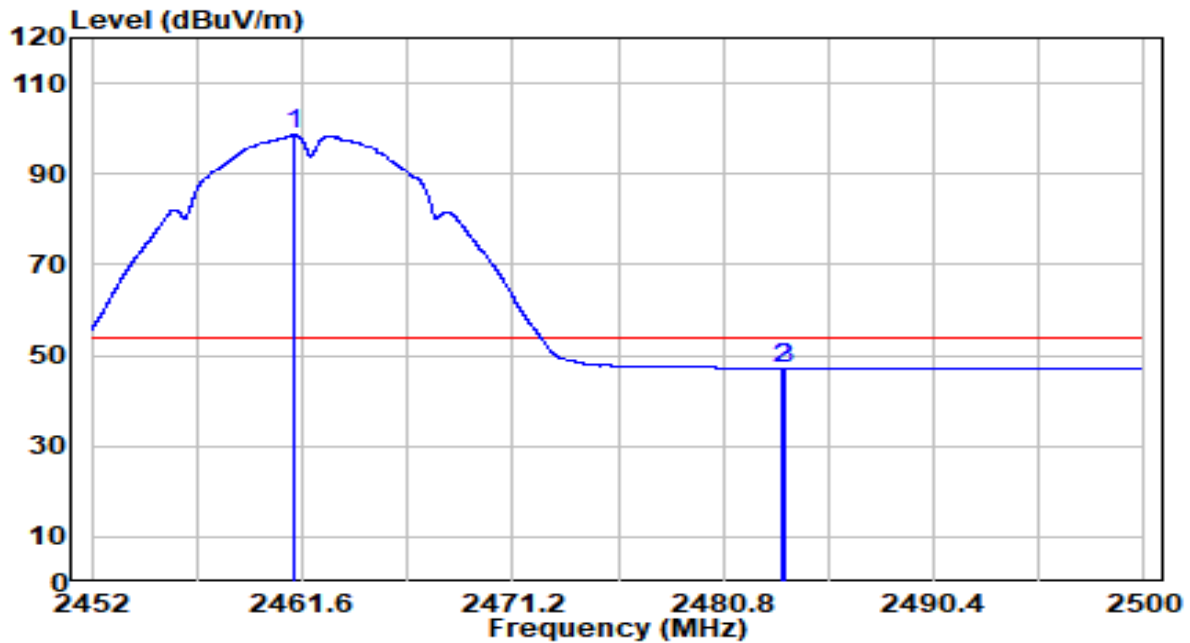


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.984	69.46	32.61	N/A	N/A	74.00	Peak
2		2483.500	27.39	32.71	60.09	-13.91	74.00	Peak
3		2484.376	28.82	32.71	61.53	-12.47	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11b at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

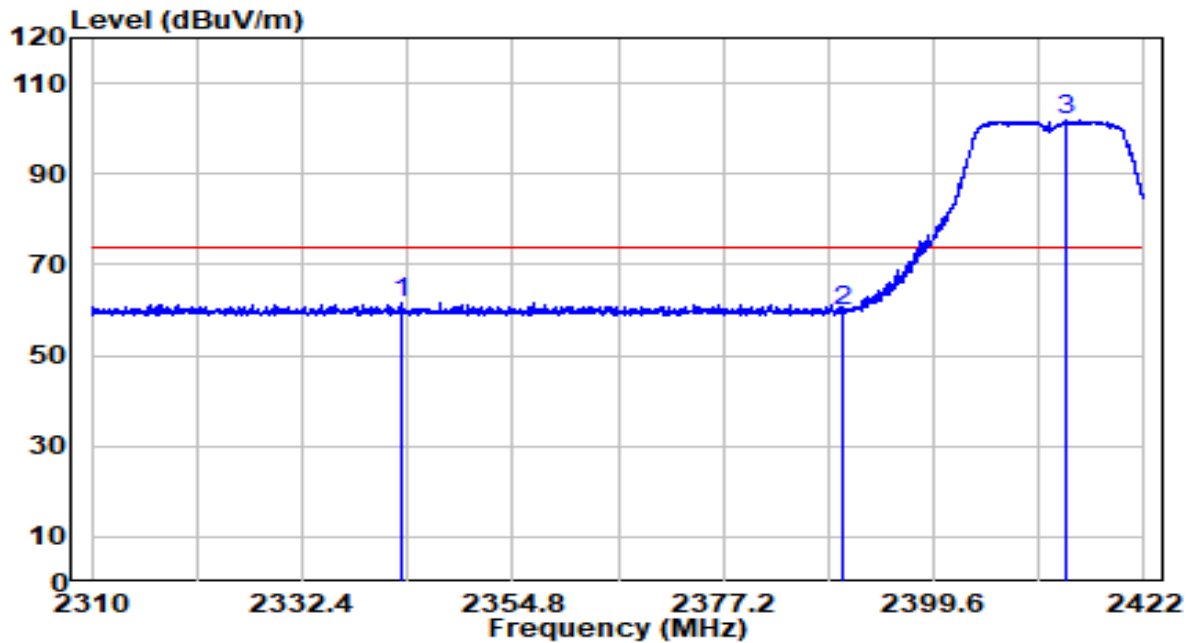


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.216	66.09	32.61	N/A	N/A	54.00	Average
2		2483.500	14.41	32.71	47.12	-6.88	54.00	Average
3		2483.656	14.41	32.71	47.12	-6.88	54.00	Average

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

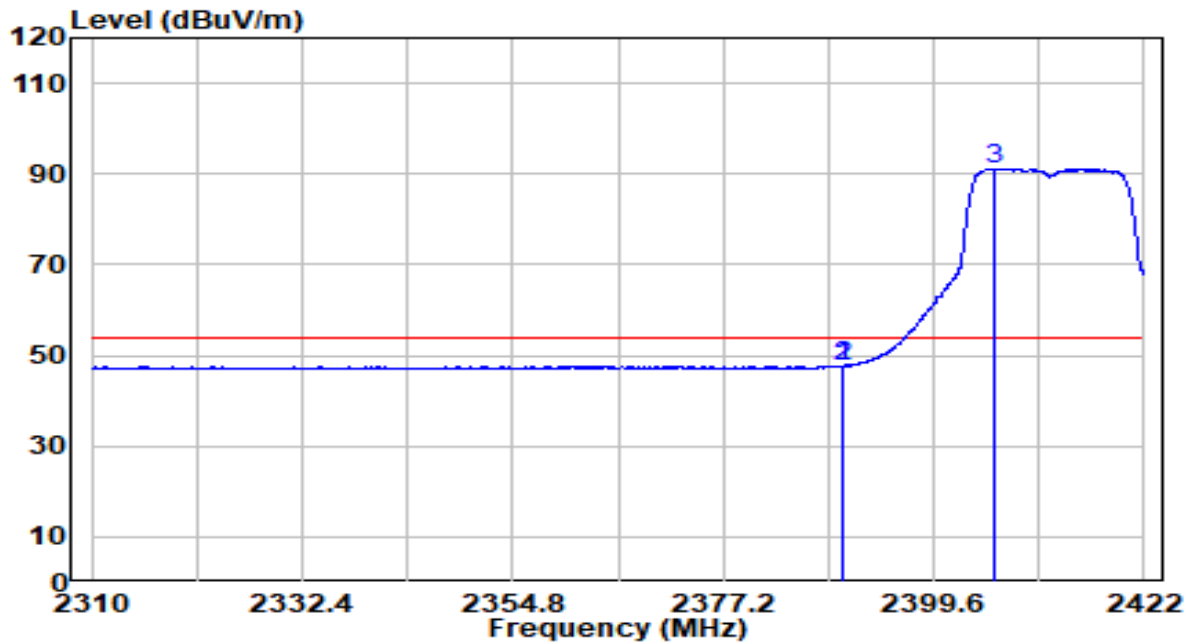


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2342.984	29.37	32.09	61.46	-12.54	74.00	Peak
2	2390.000	27.35	32.30	59.64	-14.36	74.00	Peak
3	* 2413.768	69.29	32.40	N/A	N/A	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

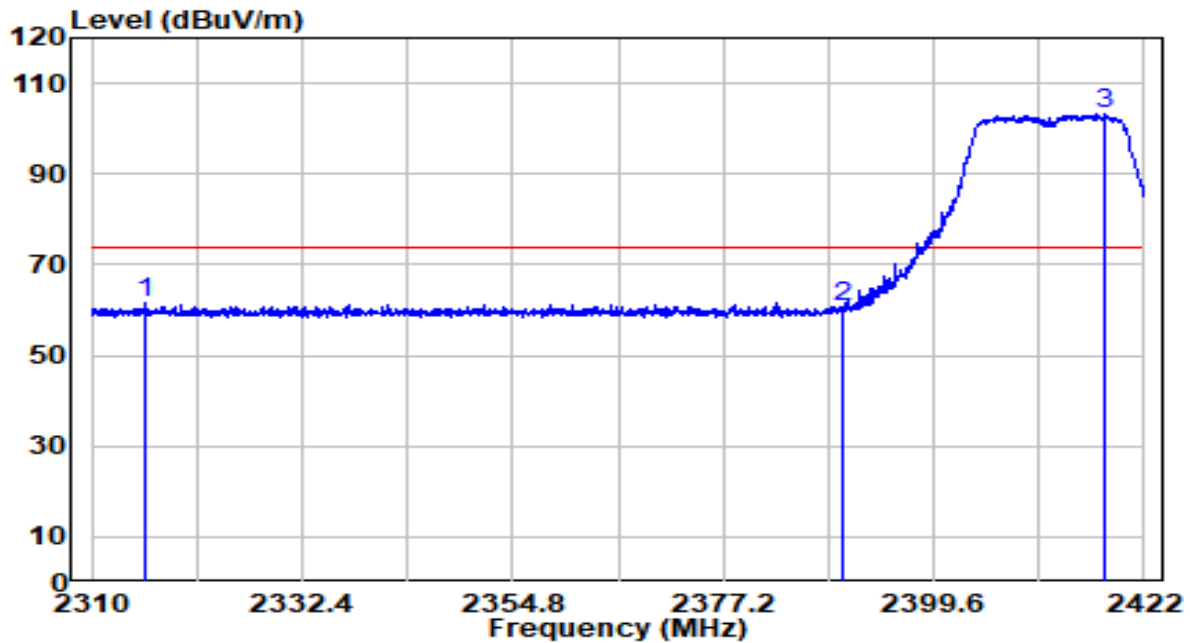


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.800	15.38	32.30	47.68	-6.32	54.00	Average
2	2390.024	15.33	32.30	47.63	-6.37	54.00	Average
3	* 2405.984	58.81	32.37	N/A	N/A	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

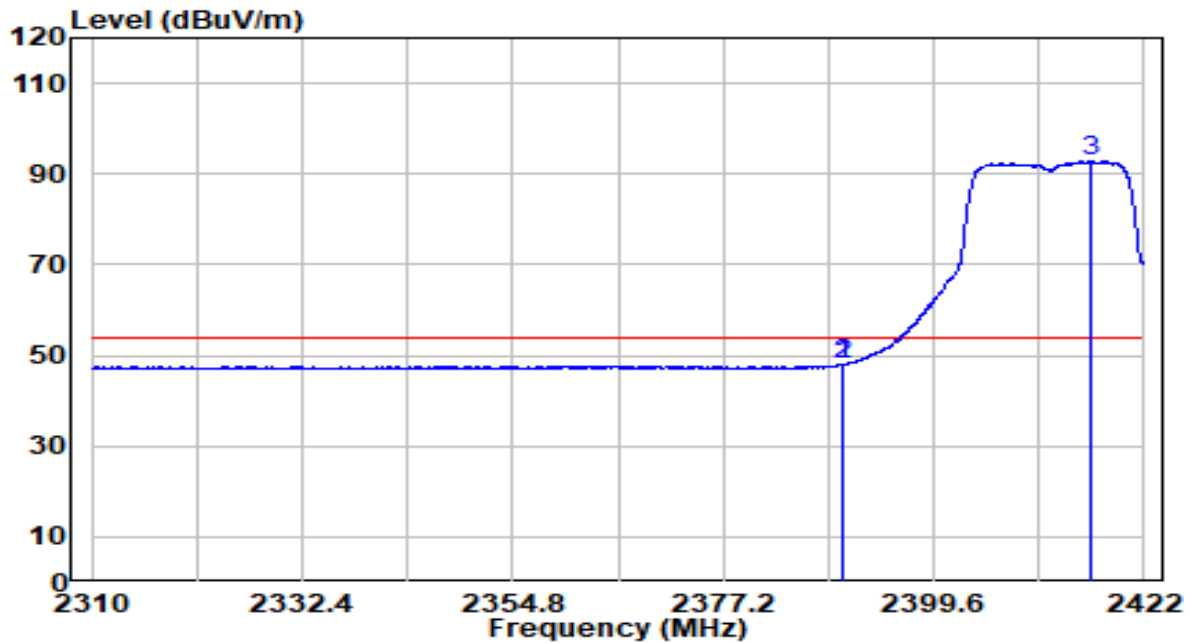


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2315.824	29.61	31.97	61.58	-12.42	74.00	Peak
2	2390.000	28.34	32.30	60.63	-13.37	74.00	Peak
3	* 2417.912	70.87	32.42	N/A	N/A	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2412MHz-Scan Antenna	Test Voltage	110V/60Hz

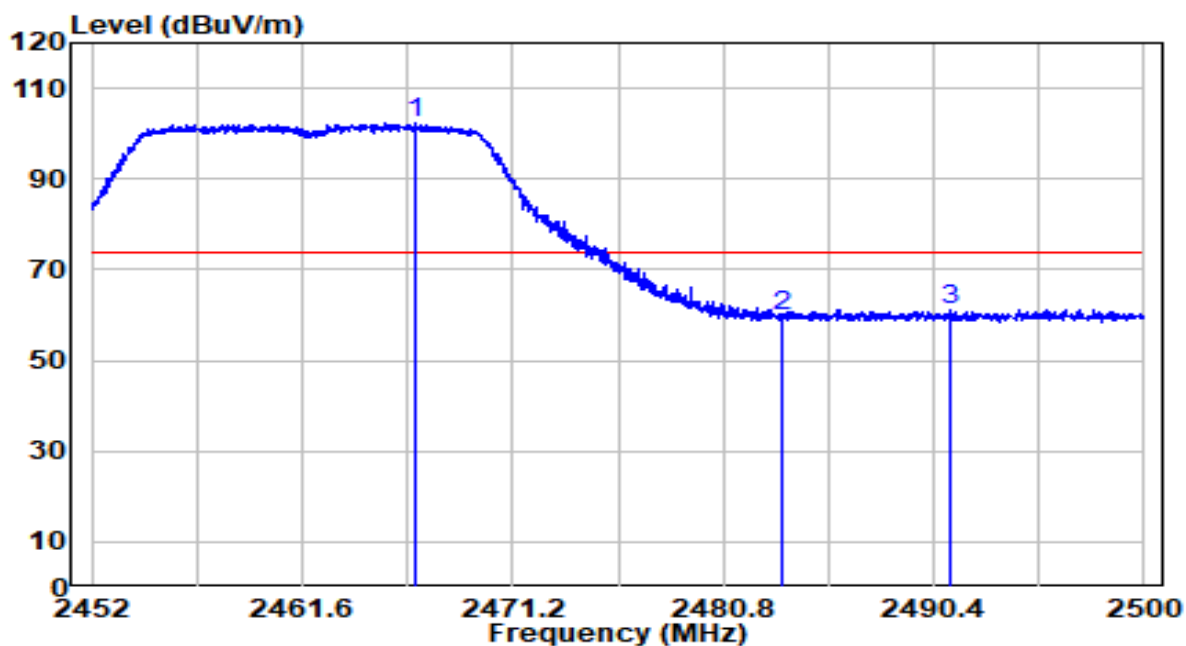


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.968	15.82	32.30	48.11	-5.89	54.00	Average
2	2390.000	15.81	32.30	48.11	-5.89	54.00	Average
3	* 2416.232	60.31	32.41	N/A	N/A	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

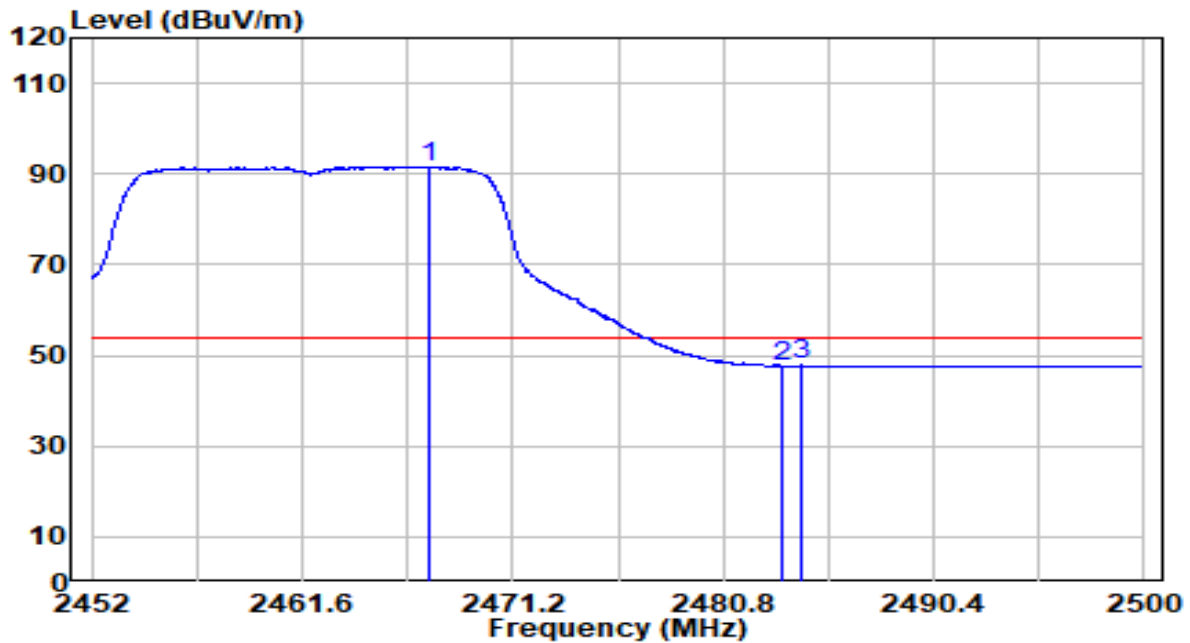


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2466.712	69.62	32.63	N/A	N/A	74.00	Peak
2		2483.488	27.03	32.71	59.74	-14.26	74.00	Peak
3		2491.144	28.54	32.74	61.28	-12.72	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

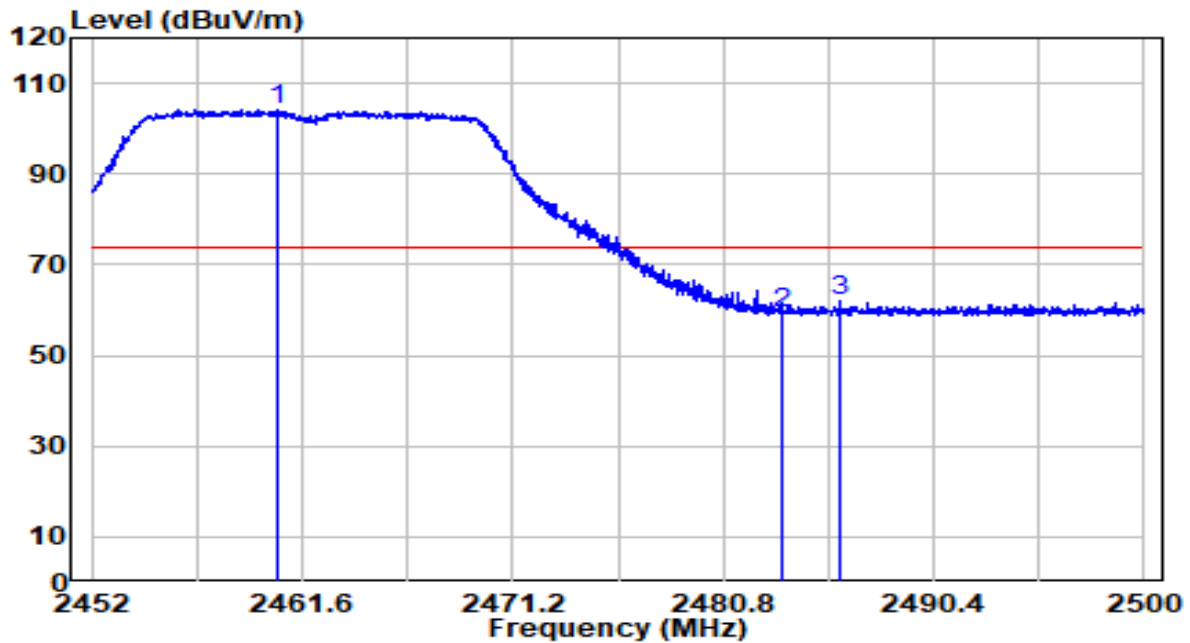


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2467.360	58.98	32.64	N/A	N/A	54.00	Average
2		2483.500	14.94	32.71	47.65	-6.35	54.00	Average
3		2484.400	15.06	32.71	47.78	-6.22	54.00	Average

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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz

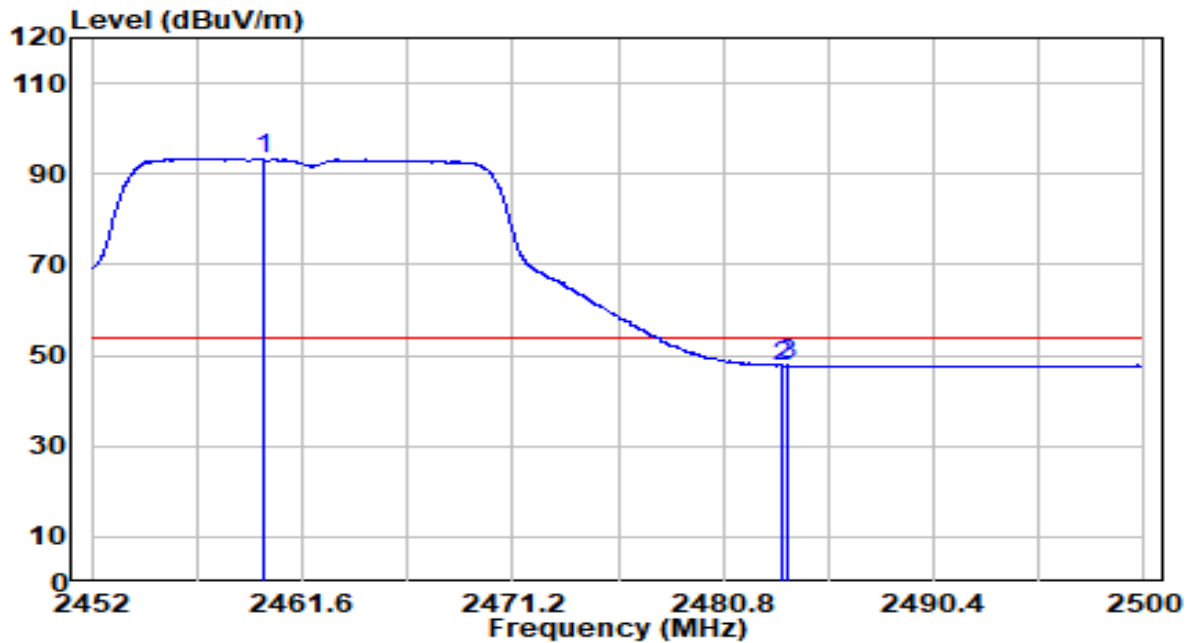


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.520	71.44	32.61	N/A	N/A	74.00	Peak
2		2483.500	26.72	32.71	59.43	-14.57	74.00	Peak
3		2486.176	29.22	32.72	61.94	-12.06	74.00	Peak

Note:

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

EUT	OAW-AP1311	Date of Test	2020-09-27
Factor	BBHA 9120D	Temp. / Humidity	25.3°C/45.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Kevin Ker
Test Mode	Transmit by 802.11g at Channel 2462MHz-Scan Antenna	Test Voltage	110V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2459.800	60.83	32.60	N/A	N/A	54.00	Average
2		2483.500	15.06	32.71	47.76	-6.24	54.00	Average
3		2483.728	15.07	32.71	47.78	-6.22	54.00	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).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

5.7. 佔用頻道寬度

5.7.1. 適用標準

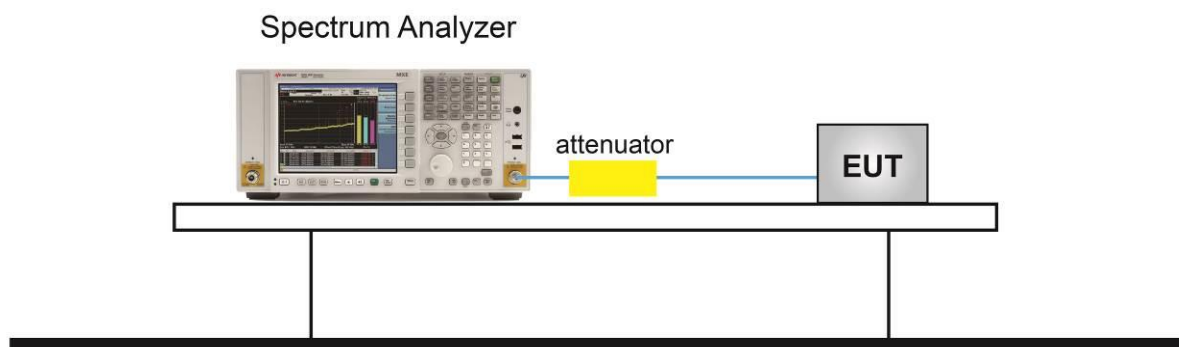
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(A)節之要求，6dB 頻寬至少應有 500kHz。

5.7.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，設定頻譜分析儀之解析度頻寬為 100kHz，視訊頻寬不小於解析度頻寬，頻率掃瞄範圍(SPAN)遠大於解析度頻寬。

待測物應在正常發射狀態下量測。

5.7.3. 測試架構圖



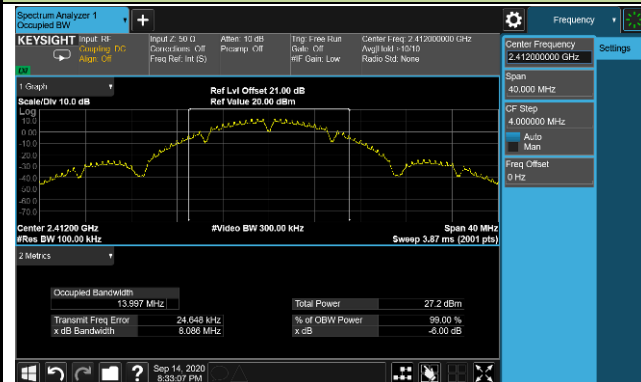
5.7.4. 佔用頻帶寬度測試結果

待測物名稱	OmniAccess Stellar, OAW-AP1311	溫度	23 ~ 25°C
測試工程師	Kevin Ker	濕度	46 ~ 54%
測試場地	SR1	測試日期	2020/09/14
型號	OAW-AP1311		

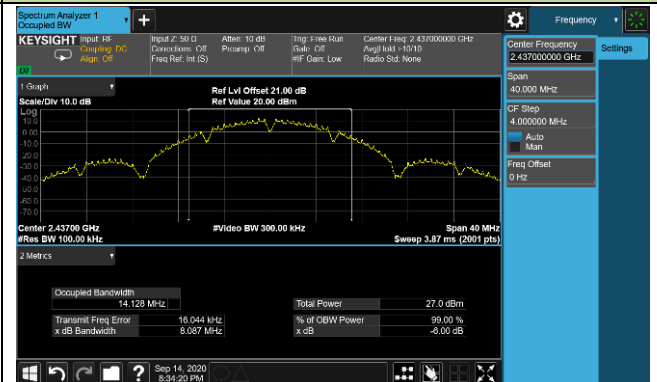
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1						
802.11b	1Mbps	01	2412	8.09	≥ 0.5	Pass
802.11b	1Mbps	06	2437	8.09	≥ 0.5	Pass
802.11b	1Mbps	11	2462	8.56	≥ 0.5	Pass
802.11g	6Mbps	01	2412	15.37	≥ 0.5	Pass
802.11g	6Mbps	06	2437	15.82	≥ 0.5	Pass
802.11g	6Mbps	11	2462	15.89	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	17.29	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	16.66	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	15.31	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	35.12	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	36.05	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	36.34	≥ 0.5	Pass
VHT20	MCS0	01	2412	16.67	≥ 0.5	Pass
VHT20	MCS0	06	2437	17.30	≥ 0.5	Pass
VHT20	MCS0	11	2462	16.28	≥ 0.5	Pass
VHT40	MCS0	03	2422	35.70	≥ 0.5	Pass
VHT40	MCS0	06	2437	36.35	≥ 0.5	Pass
VHT40	MCS0	09	2452	36.00	≥ 0.5	Pass
802.11ax-HE20	MCS0	01	2412	18.57	≥ 0.5	Pass
802.11ax-HE20	MCS0	06	2437	18.53	≥ 0.5	Pass
802.11ax-HE20	MCS0	11	2462	18.62	≥ 0.5	Pass
802.11ax-HE40	MCS0	03	2422	37.12	≥ 0.5	Pass
802.11ax-HE40	MCS0	06	2437	37.54	≥ 0.5	Pass
802.11ax-HE40	MCS0	09	2452	37.81	≥ 0.5	Pass

802.11b 6dB Bandwidth

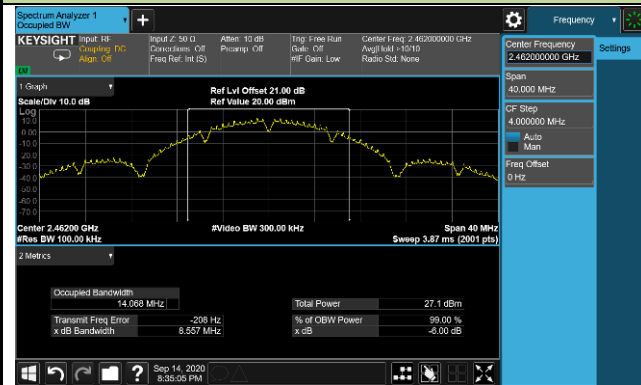
Channel 01 (2412MHz)



Channel 06 (2437MHz)

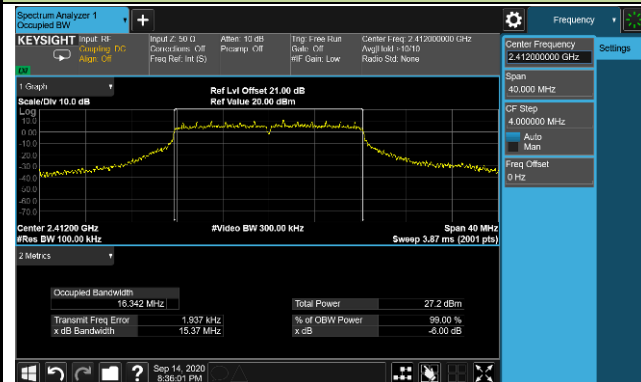


Channel 11 (2462MHz)

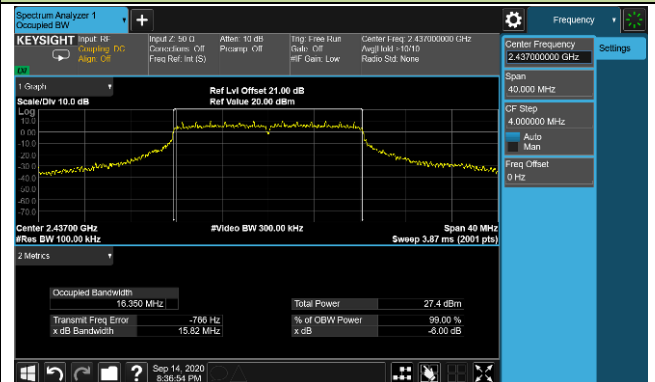


802.11g 6dB Bandwidth

Channel 01 (2412MHz)



Channel 06 (2437MHz)

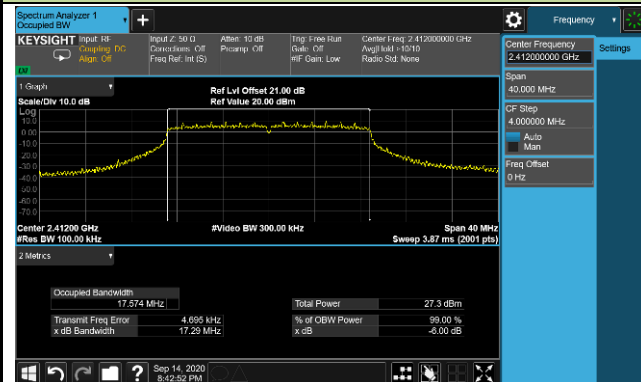


Channel 11 (2462MHz)



802.11n-HT20 6dB Bandwidth

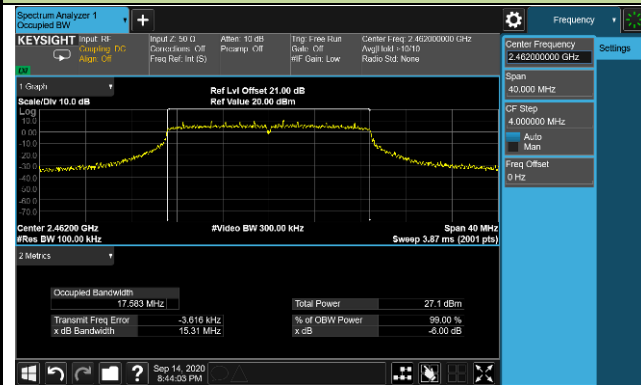
Channel 01 (2412MHz)



Channel 06 (2437MHz)

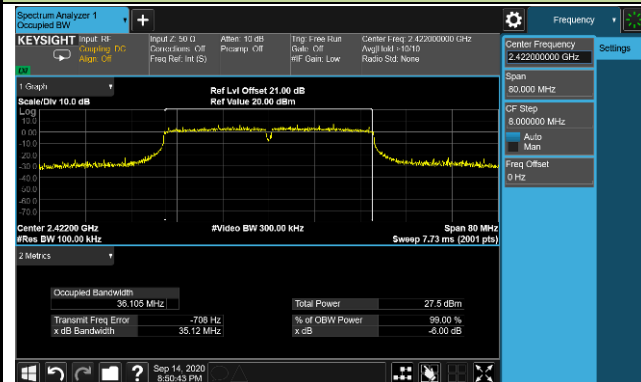


Channel 11 (2462MHz)

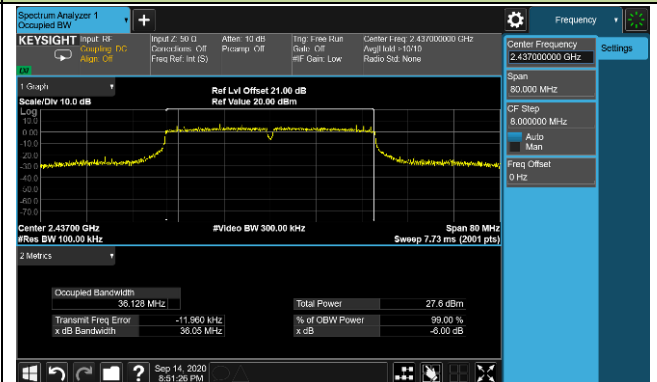


802.11n-HT40 6dB Bandwidth

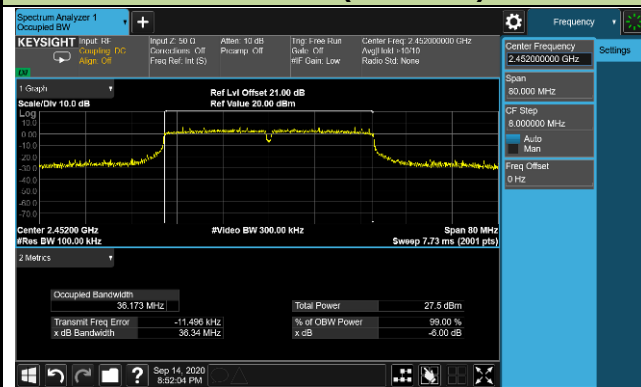
Channel 03 (2422MHz)



Channel 06 (2437MHz)

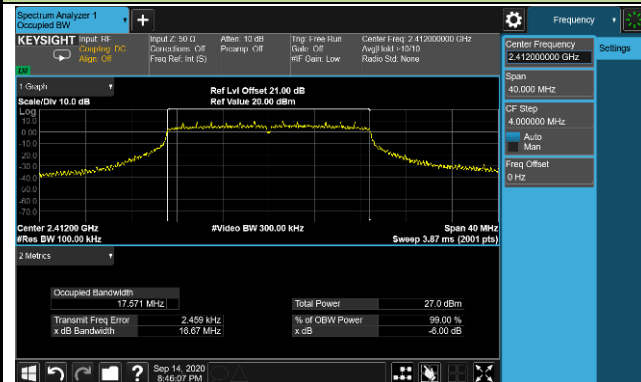


Channel 09 (2452MHz)

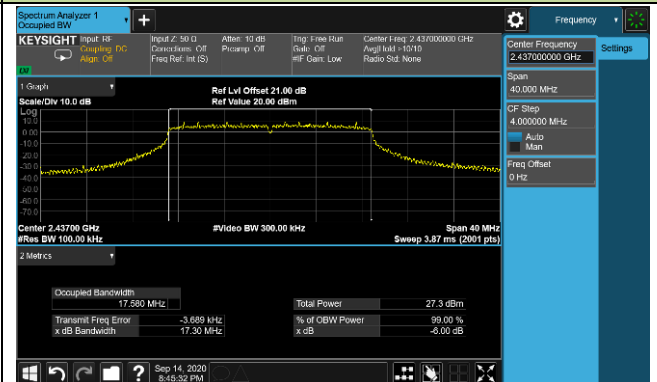


VHT20 6dB Bandwidth

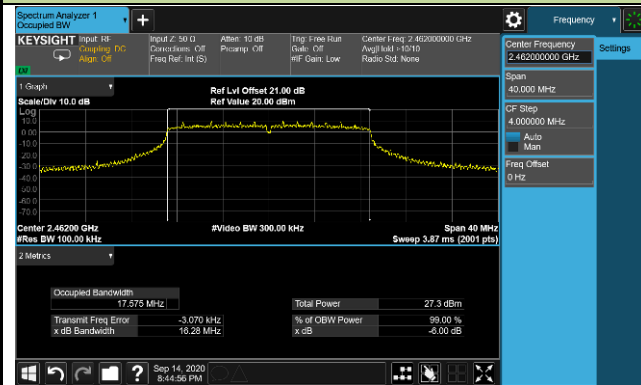
Channel 01 (2412MHz)



Channel 06 (2437MHz)

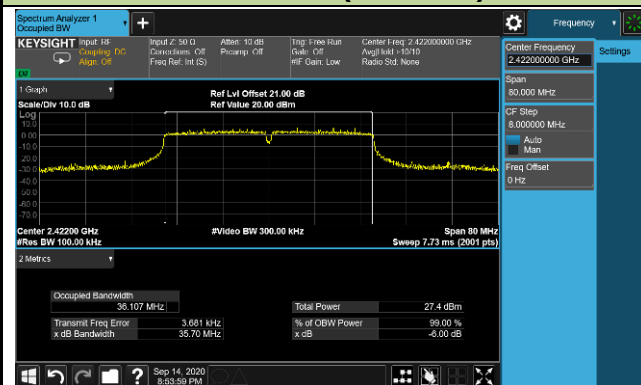


Channel 11 (2462MHz)

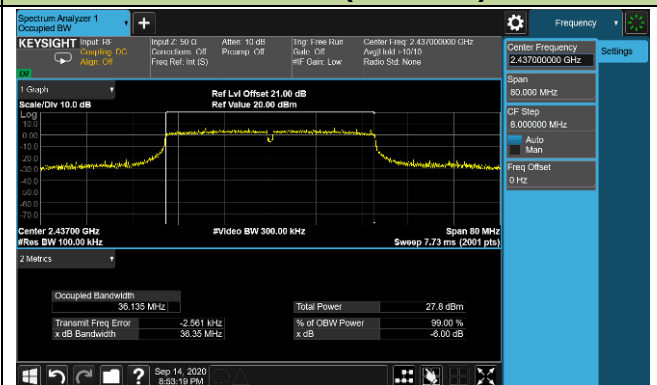


VHT40 6dB Bandwidth

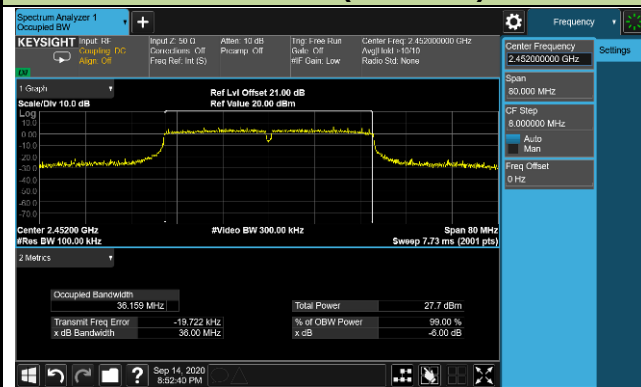
Channel 03 (2422MHz)



Channel 06 (2437MHz)

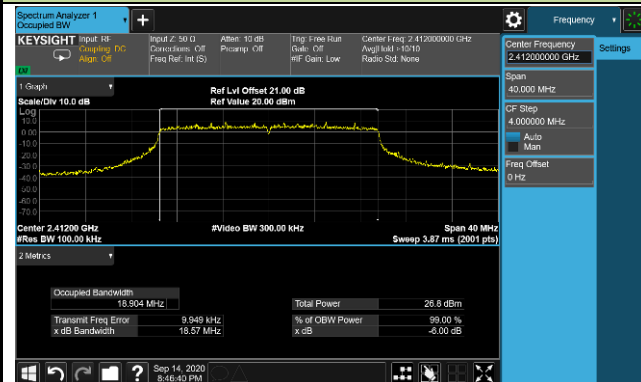


Channel 09 (2452MHz)

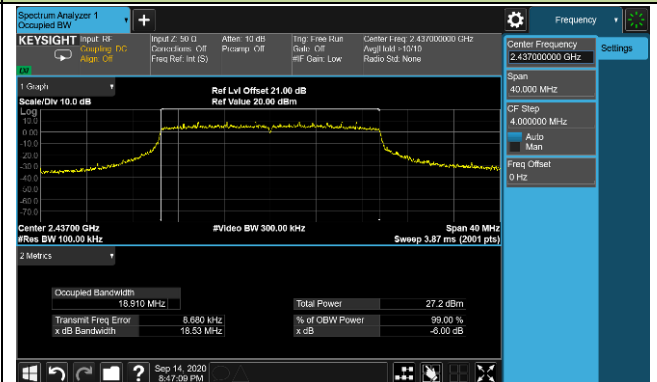


802.11ax-HE20 6dB Bandwidth

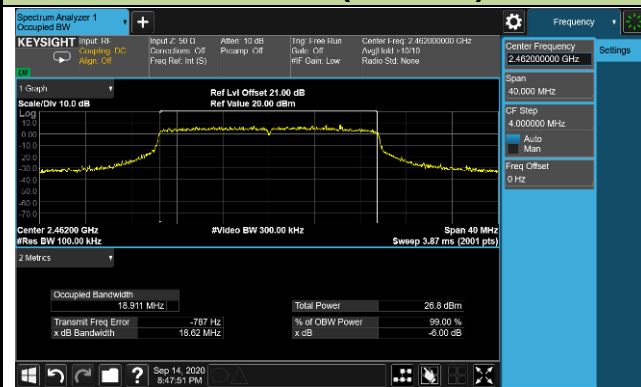
Channel 01 (2412MHz)



Channel 06 (2437MHz)

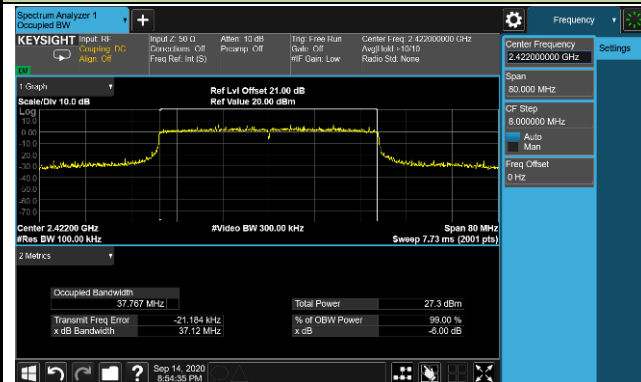


Channel 11 (2462MHz)

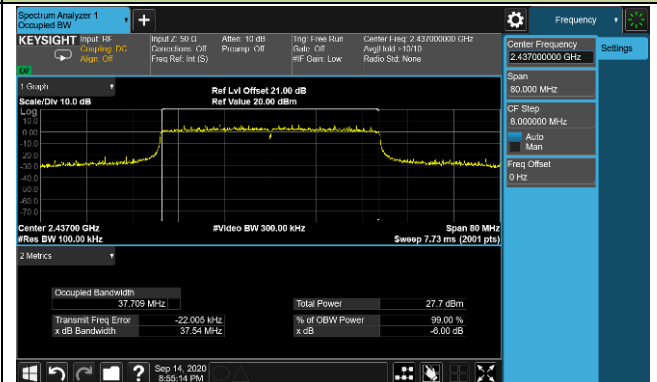


802.11ax-HE40 6dB Bandwidth

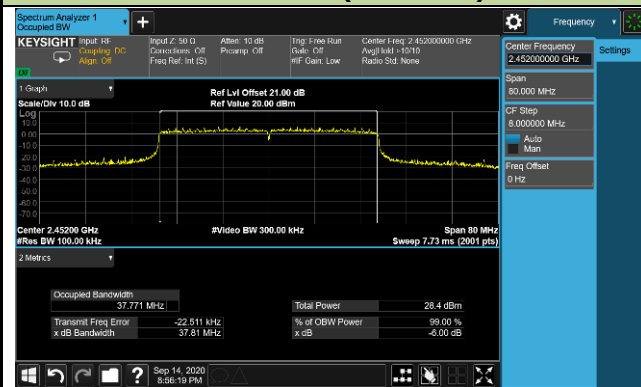
Channel 03 (2422MHz)



Channel 06 (2437MHz)

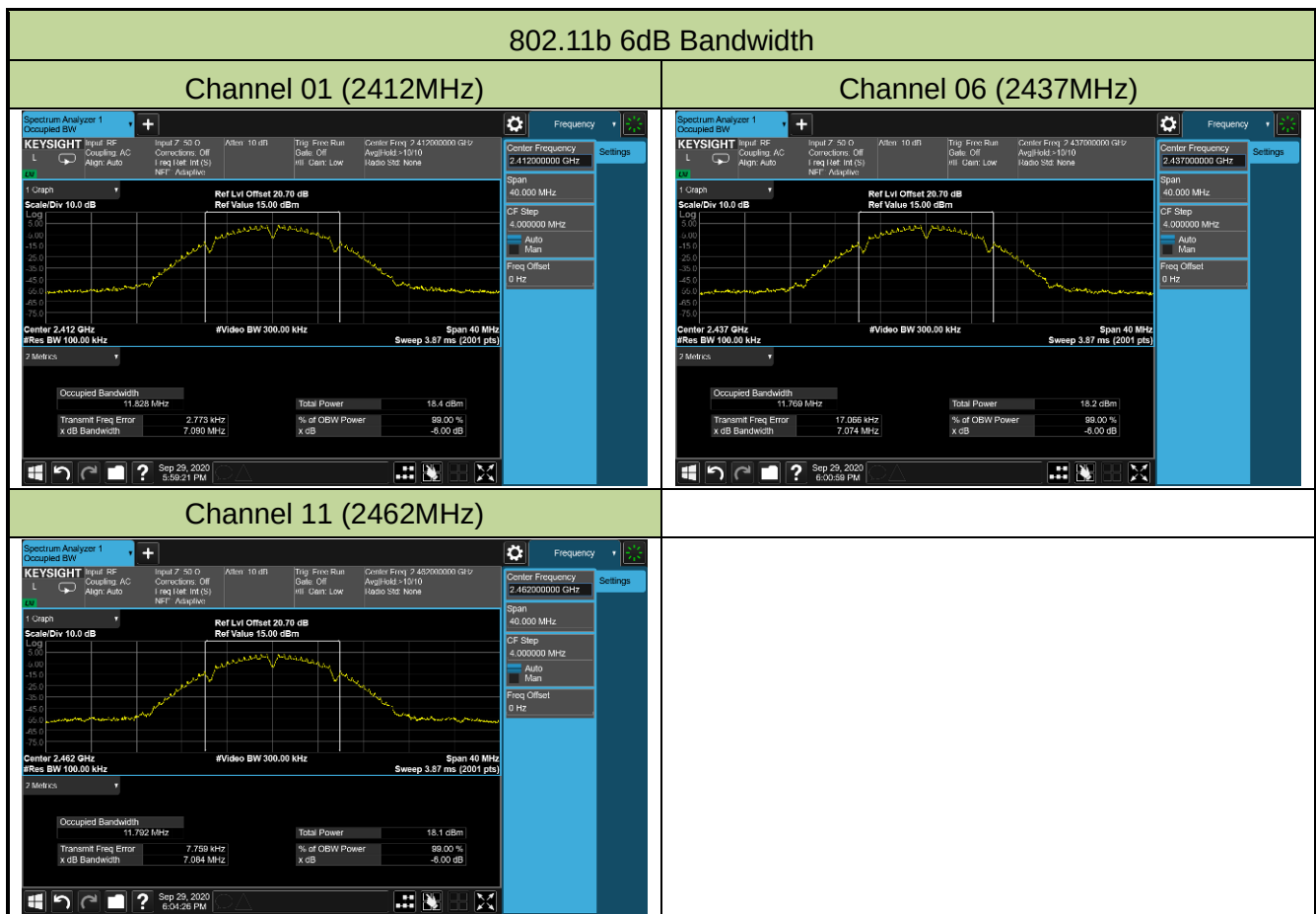


Channel 09 (2452MHz)



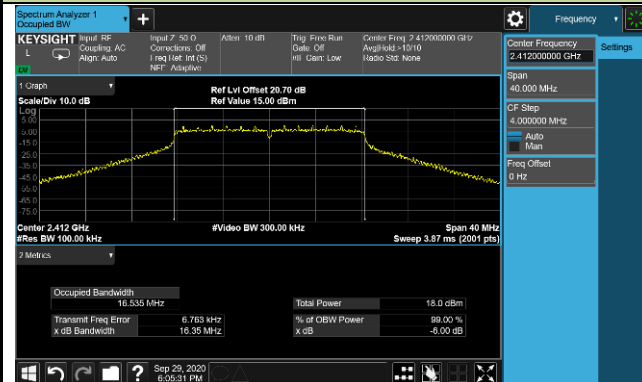
待測物名稱	OmniAccess Stellar, OAW-AP1311	溫度	23 ~ 25°C
測試工程師	Kevin Ker	濕度	46 ~ 54%
測試場地	SR1	測試日期	2020/09/29
型號	OAW-AP1311- Scan Antenna		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1Mbps	01	2412	7.09	≥ 0.5	Pass
802.11b	1Mbps	06	2437	7.07	≥ 0.5	Pass
802.11b	1Mbps	11	2462	7.08	≥ 0.5	Pass
802.11g	6Mbps	01	2412	16.35	≥ 0.5	Pass
802.11g	6Mbps	06	2437	16.33	≥ 0.5	Pass
802.11g	6Mbps	11	2462	16.36	≥ 0.5	Pass

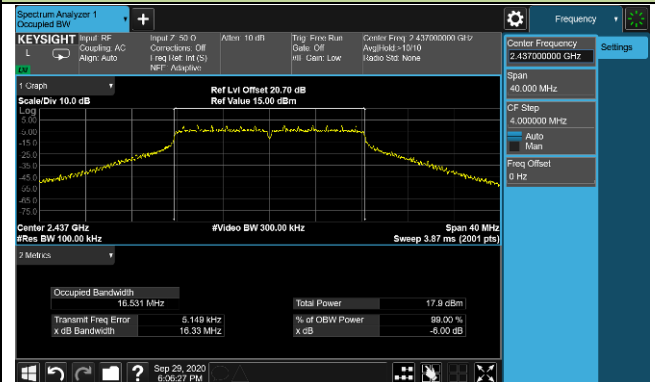


802.11g 6dB Bandwidth

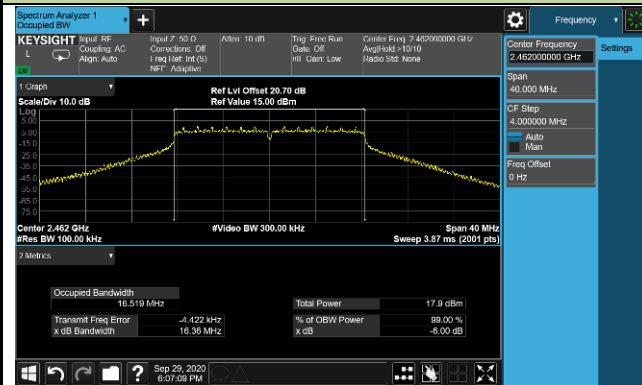
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



5.8. 發射電功率密度

5.8.1. 適用標準

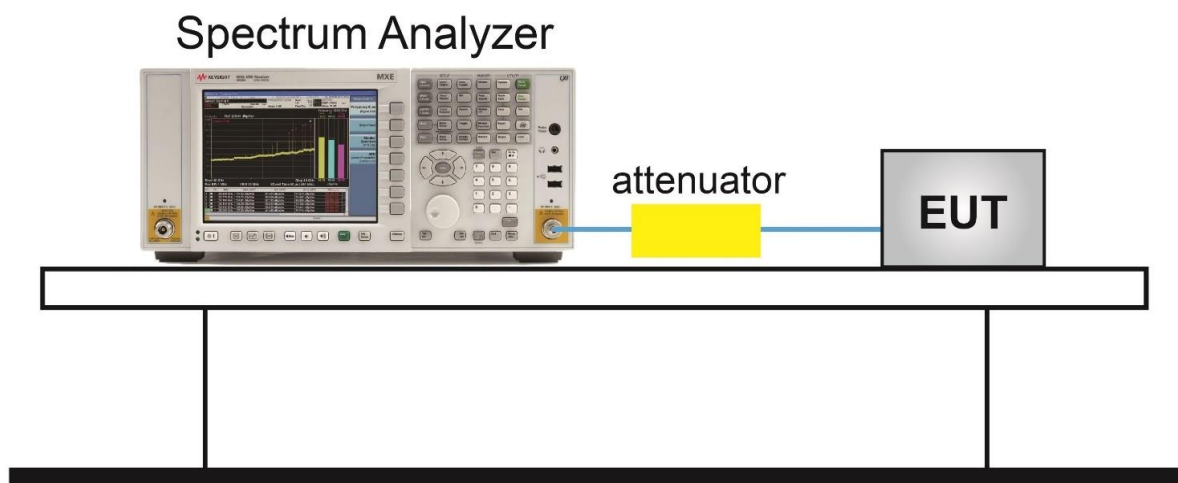
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(B)節，在使用頻率範圍之任意 3 千赫(KHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

5.8.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端。找出發射峰值並擴展於通帶內，設定頻譜分析儀之解析度頻寬為 3kHz，視訊頻寬大於解析度頻寬，掃瞄時間為頻率掃瞄範圍除以 3kHz。
(SWEEP TIME = SPAN/3kHz)。

待測物應在正常發射狀態下量測。

5.8.3. 測試架構圖



5.8.4. 功率密度量測結果

待測物名稱	OmniAccess Stellar, OAW-AP1311	溫度	25°C
測試工程師	Kevin Ker	濕度	52%
測試場地	SR1	測試日期	2020/10/15~2020/10/19
待測物型號	OAW-AP1311		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 AVGPSD (dBm / 10kHz)	Ant 1 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Total Peak PSD (dBm / 10kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-6.67	-6.25	60.0	-1.23	≤ 7.69	Pass
11b	1Mbps	06	2437	-6.56	-6.78	60.0	-1.44	≤ 7.69	Pass
11b	1Mbps	11	2462	-6.18	-6.58	60.0	-1.15	≤ 7.69	Pass
11g	6Mbps	01	2412	-9.01	-8.85	90.9	-5.50	≤ 7.69	Pass
11g	6Mbps	06	2437	-8.27	-8.84	90.9	-5.12	≤ 7.69	Pass
11g	6Mbps	11	2462	-8.64	-9.24	90.9	-5.50	≤ 7.69	Pass
11n-HT20	MCS0	01	2412	-10.02	-9.89	95.8	-6.76	≤ 7.69	Pass
11n-HT20	MCS0	06	2437	-9.32	-9.92	95.8	-6.41	≤ 7.69	Pass
11n-HT20	MCS0	11	2462	-9.71	-9.76	95.8	-6.54	≤ 7.69	Pass
11n-HT40	MCS0	03	2422	-16.97	-17.10	90.0	-13.57	≤ 7.69	Pass
11n-HT40	MCS0	06	2437	-15.45	-15.37	90.0	-11.94	≤ 7.69	Pass
11n-HT40	MCS0	09	2452	-17.74	-18.21	90.0	-14.50	≤ 7.69	Pass
VHT20	MCS0	01	2412	-11.83	-11.26	95.3	-8.32	≤ 7.69	Pass
VHT20	MCS0	06	2437	-9.70	-9.60	95.3	-6.43	≤ 7.69	Pass
VHT20	MCS0	11	2462	-12.68	-12.65	95.3	-9.45	≤ 7.69	Pass
VHT40	MCS0	03	2422	-17.11	-16.93	94.9	-13.78	≤ 7.69	Pass
VHT40	MCS0	06	2437	-15.41	-15.30	94.9	-12.12	≤ 7.69	Pass
VHT40	MCS0	09	2452	-17.87	-18.32	94.9	-14.85	≤ 7.69	Pass
11ax-HE20	MCS0	01	2412	-13.20	-13.01	95.3	-9.88	≤ 7.69	Pass
11ax-HE20	MCS0	06	2437	-10.92	-10.59	95.3	-7.53	≤ 7.69	Pass
11ax-HE20	MCS0	11	2462	-14.06	-14.13	95.3	-10.88	≤ 7.69	Pass
11ax-HE40	MCS0	03	2422	-18.50	-18.32	94.0	-15.13	≤ 7.69	Pass
11ax-HE40	MCS0	06	2437	-16.97	-16.87	94.0	-13.64	≤ 7.69	Pass
11ax-HE40	MCS0	09	2452	-19.63	-19.40	94.0	-16.23	≤ 7.69	Pass

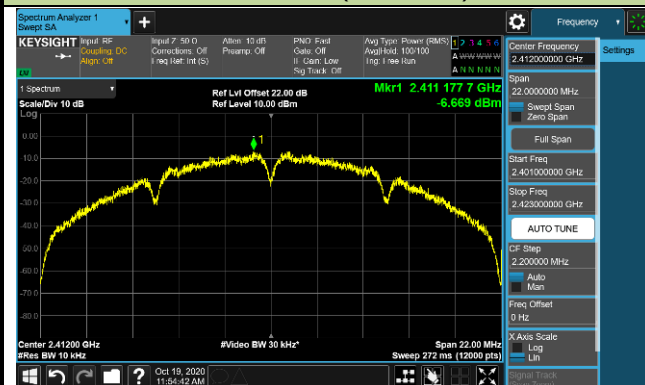
Note 1: When EUT duty cycle < 98%, Total AVGPSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{duty cycle})$.

Note 2: Limit= 8dBm/3KHz-(6.31dBi-6) =7.69dBm/3KHz

Note 3: Total AVGPSD (dBm / 10kHz) << Limit (dBm / 3kHz), so there is no necessary to conversion unit

802.11b PSD - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

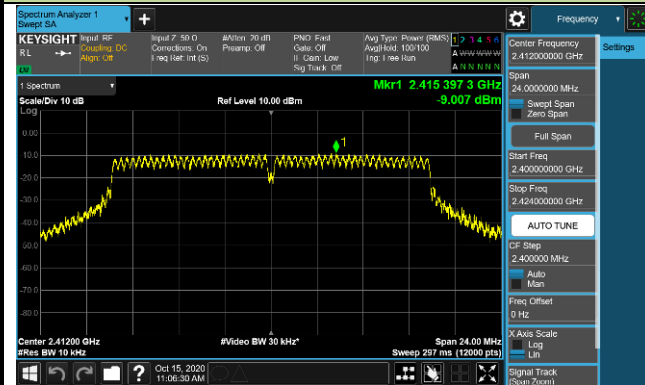


Channel 11 (2462MHz)

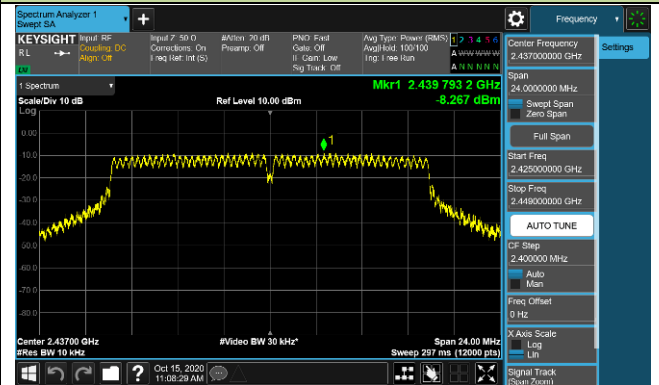


802.11g PSD - Ant 0 / Ant 0 + 1

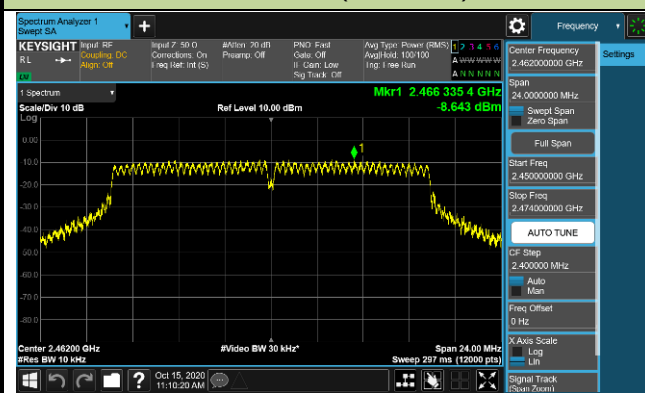
Channel 01 (2412MHz)



Channel 06 (2437MHz)

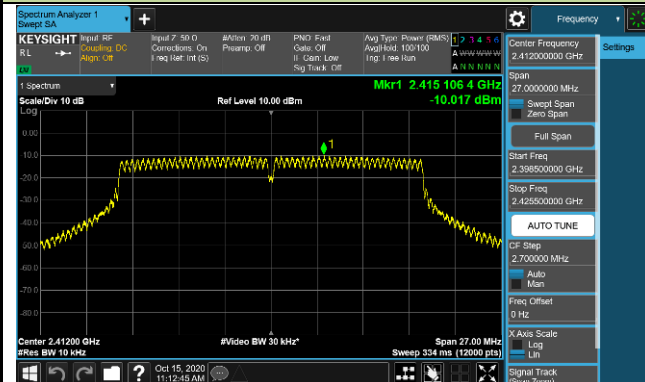


Channel 11 (2462MHz)

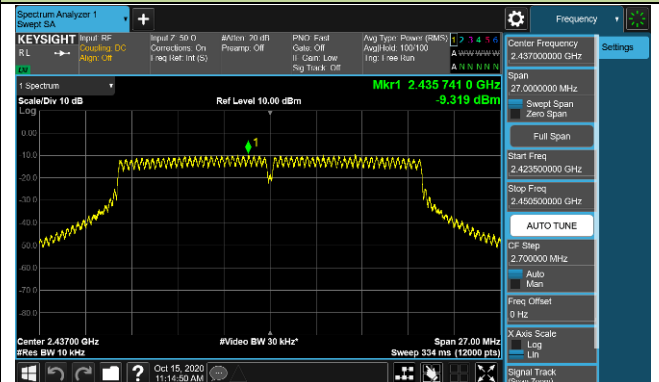


802.11n-HT20 PSD - Ant 0 / Ant 0 + 1

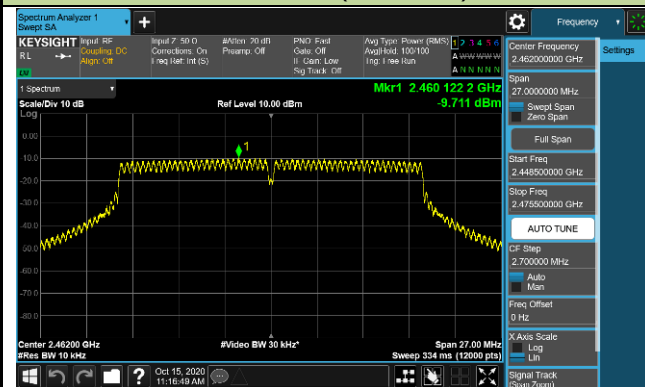
Channel 01 (2412MHz)



Channel 06 (2437MHz)

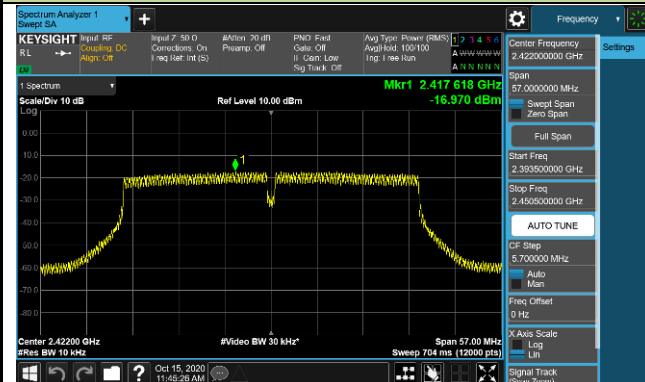


Channel 11 (2462MHz)

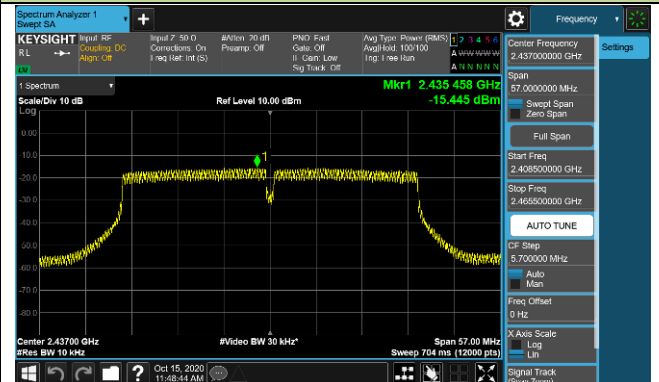


802.11n-HT40 PSD - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)

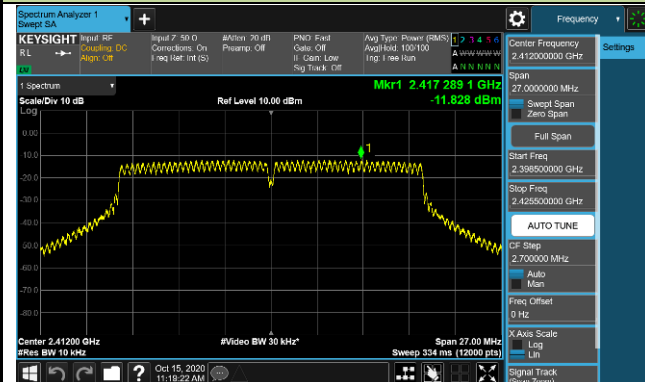


Channel 09 (2452MHz)

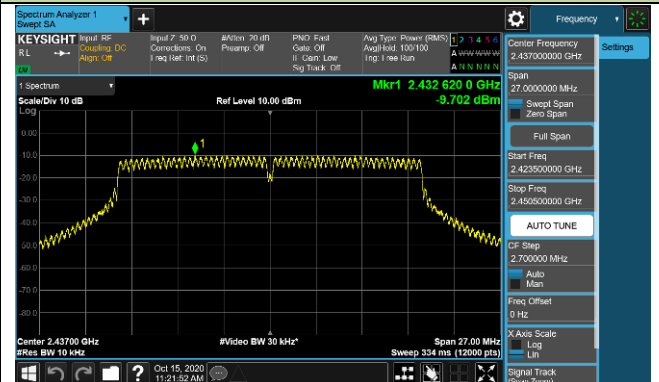


VHT20 PSD - Ant 0 / Ant 0 + 1

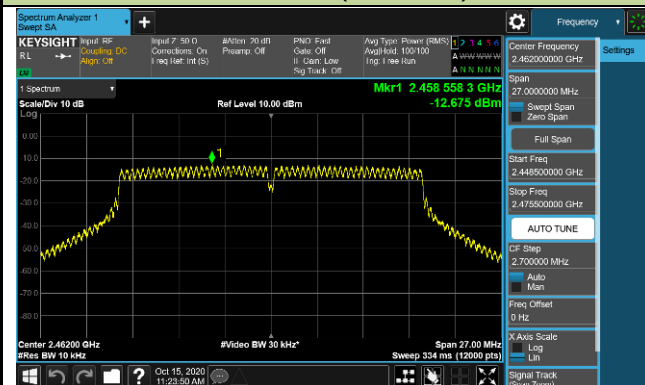
Channel 01 (2412MHz)



Channel 06 (2437MHz)

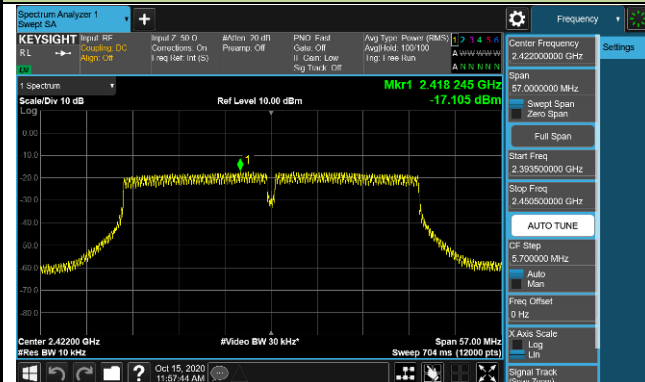


Channel 11 (2462MHz)

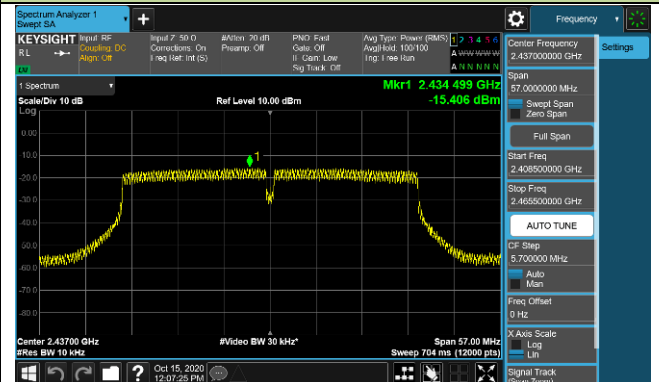


VHT40 PSD - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

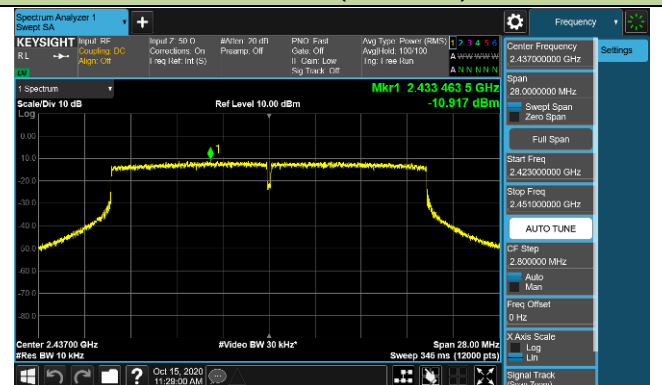


802.11ax-HE20 PSD - Ant 0 / Ant 0 + 1

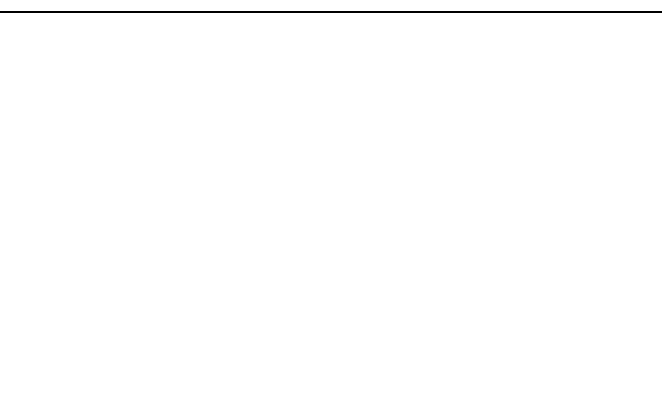
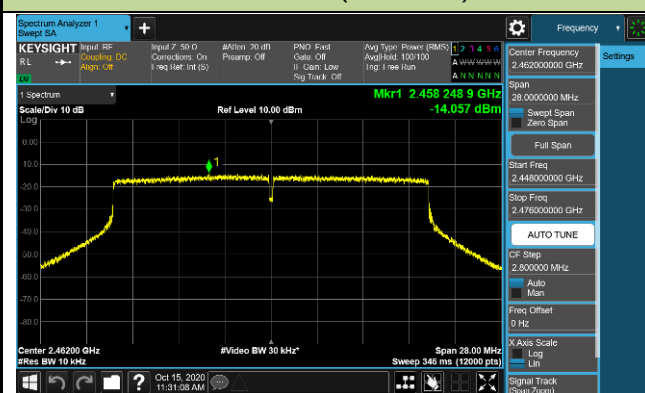
Channel 01 (2412MHz)



Channel 06 (2437MHz)

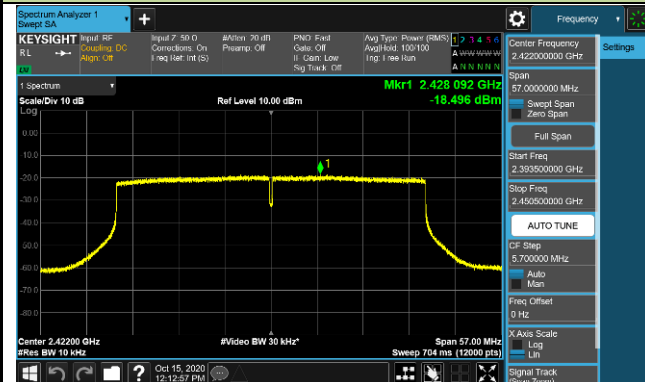


Channel 11 (2462MHz)

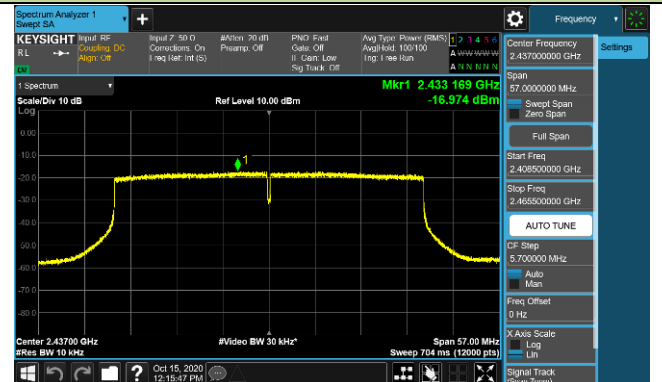


802.11ax-HE40 PSD - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b PSD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

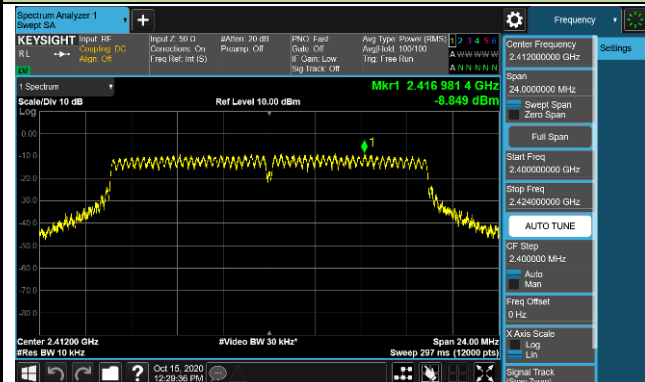


Channel 11 (2462MHz)

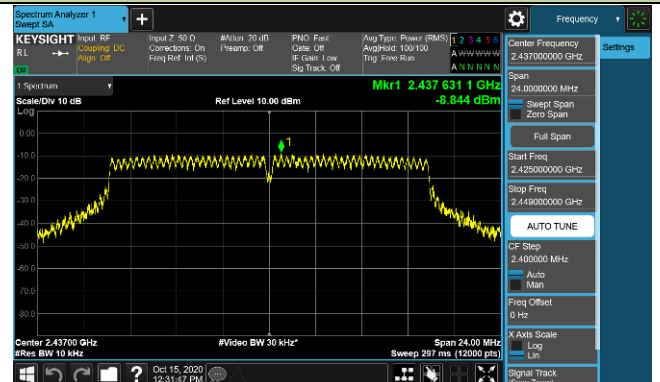


802.11g PSD - Ant 1 / Ant 0 + 1

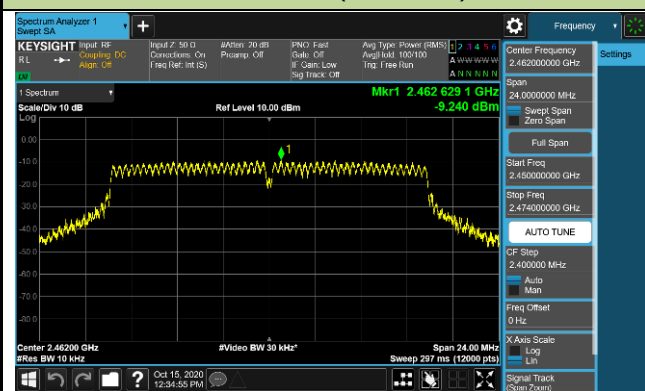
Channel 01 (2412MHz)



Channel 06 (2437MHz)

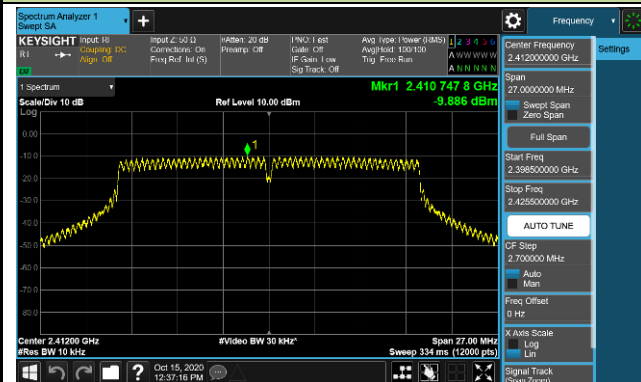


Channel 11 (2462MHz)

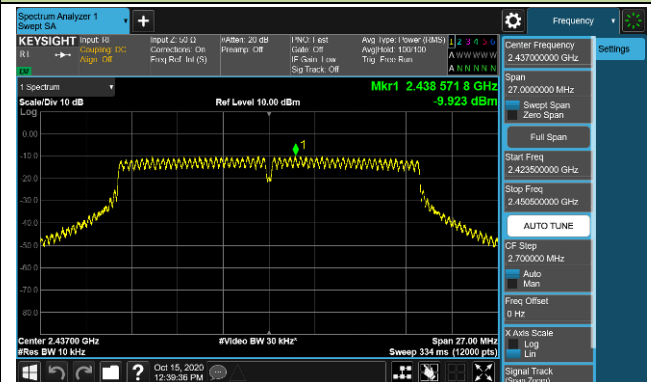


802.11n-HT20 PSD - Ant 1 / Ant 0 + 1

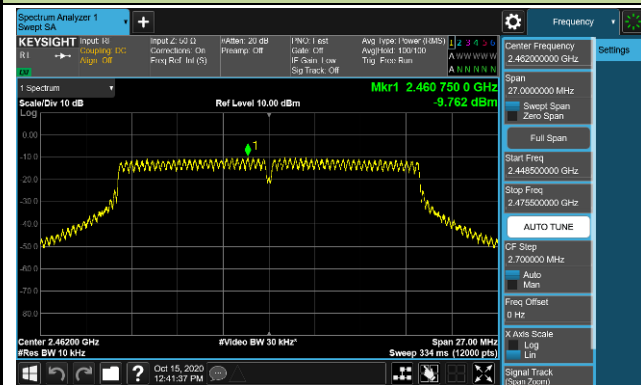
Channel 01 (2412MHz)



Channel 06 (2437MHz)

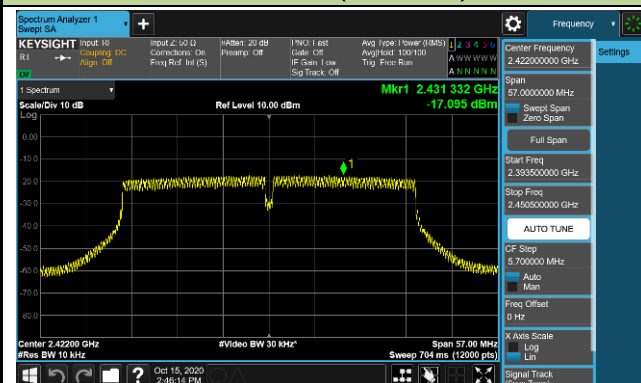


Channel 11 (2462MHz)

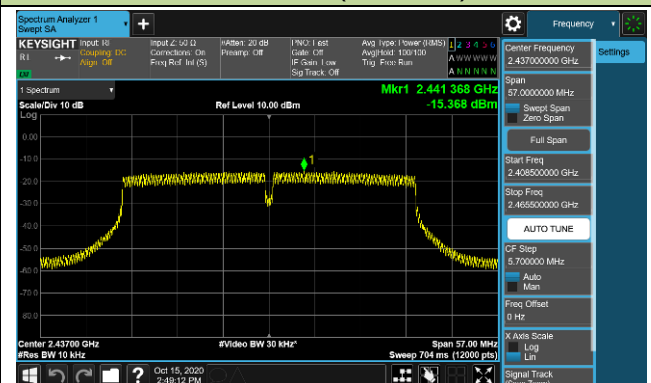


802.11n-HT40 PSD - Ant 1 / Ant 0 + 1

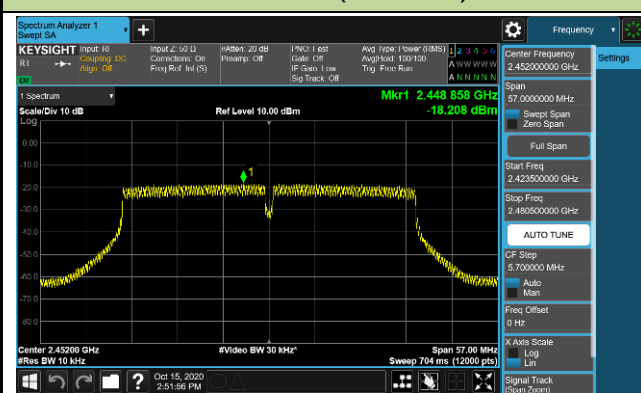
Channel 03 (2422MHz)



Channel 06 (2437MHz)

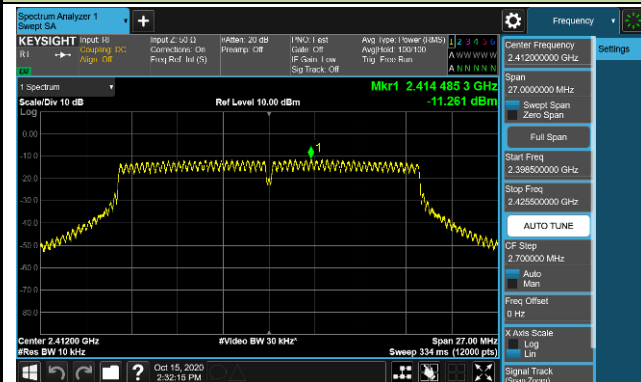


Channel 09 (2452MHz)

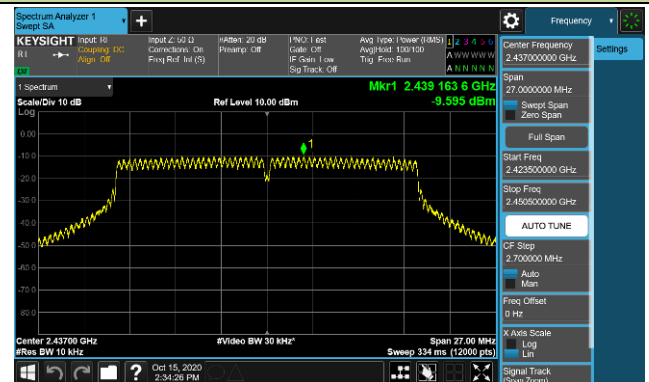


VHT20 PSD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

