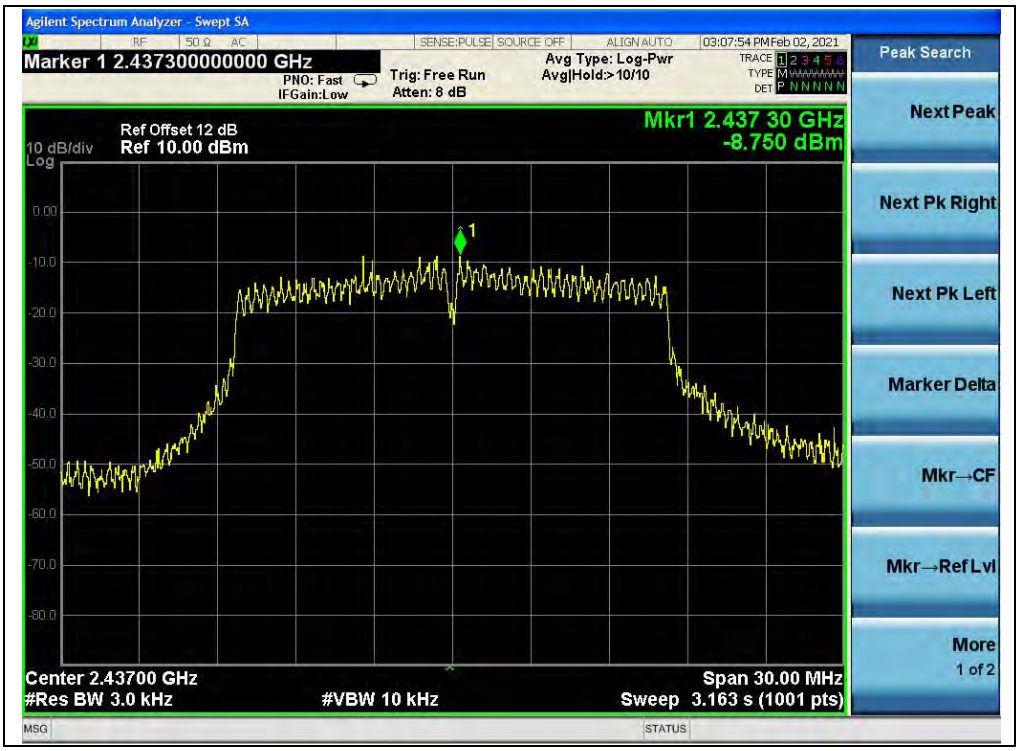
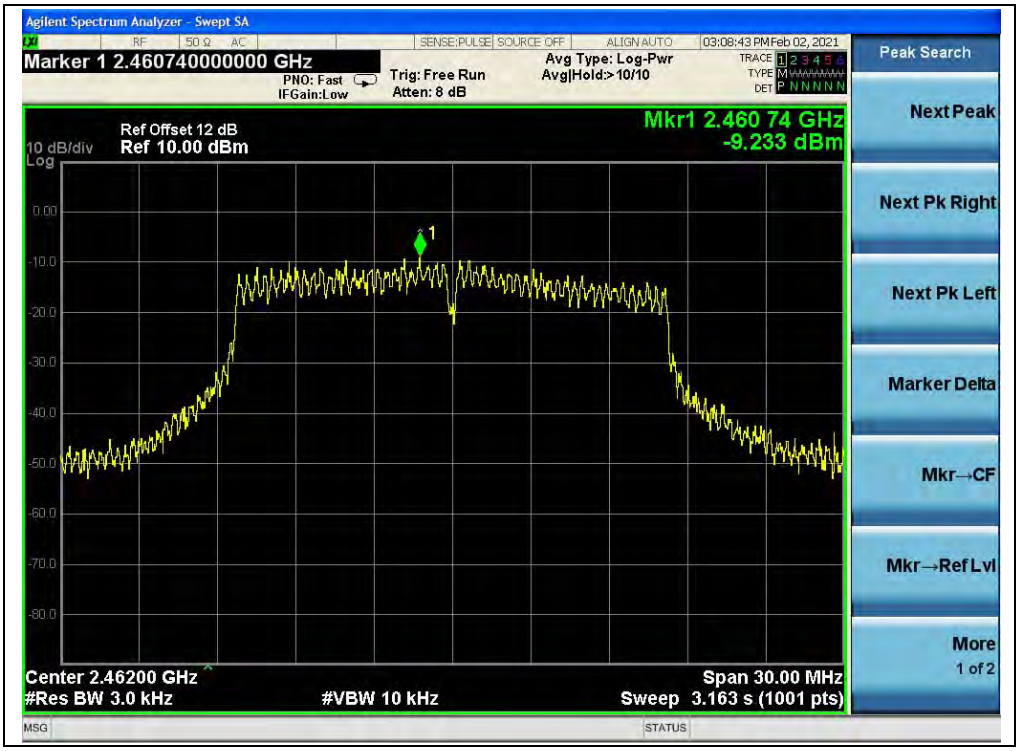
(Channel 1, 802.11g, ANT1)



(Channel 6, 802.11g, ANT1)



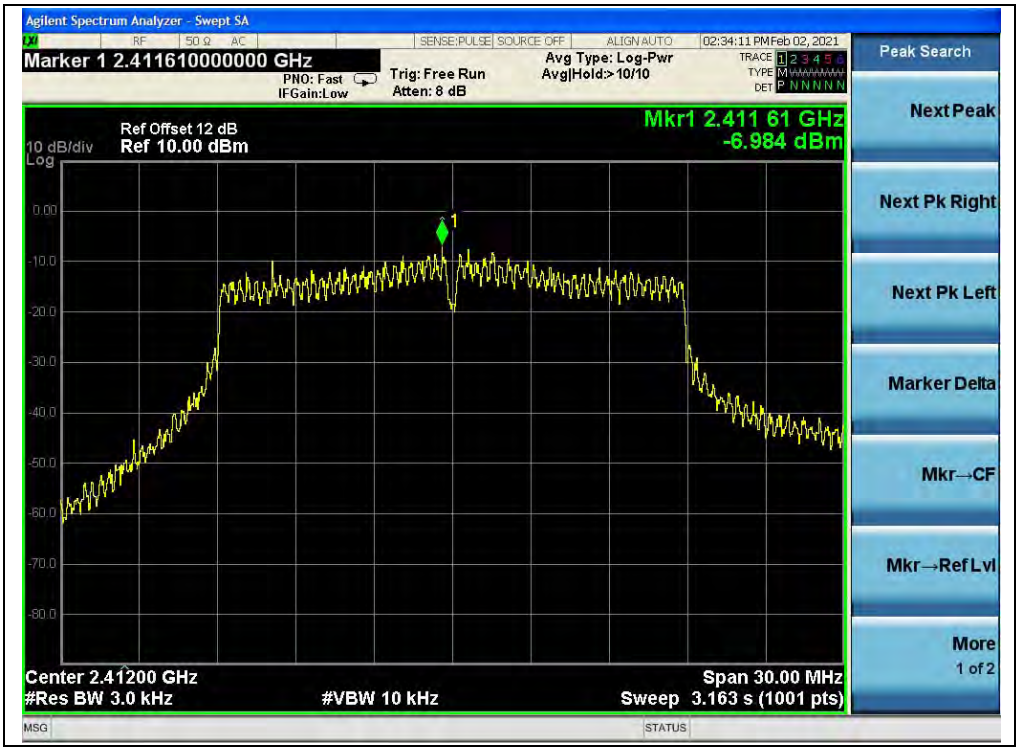
(Channel 11, 802.11g, ANT1)

802.11n (HT20) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-6.98	-6.84	-3.90	8	PASS
6	2437	-7.13	-8.19	-4.62	8	PASS
11	2462	-8.30	-6.15	-4.08	8	PASS
Note: Directional gain = -1dBi +10log(2) = 2.01dBi＜6dBi, so the power limit is 8 dBm/3kHz.						

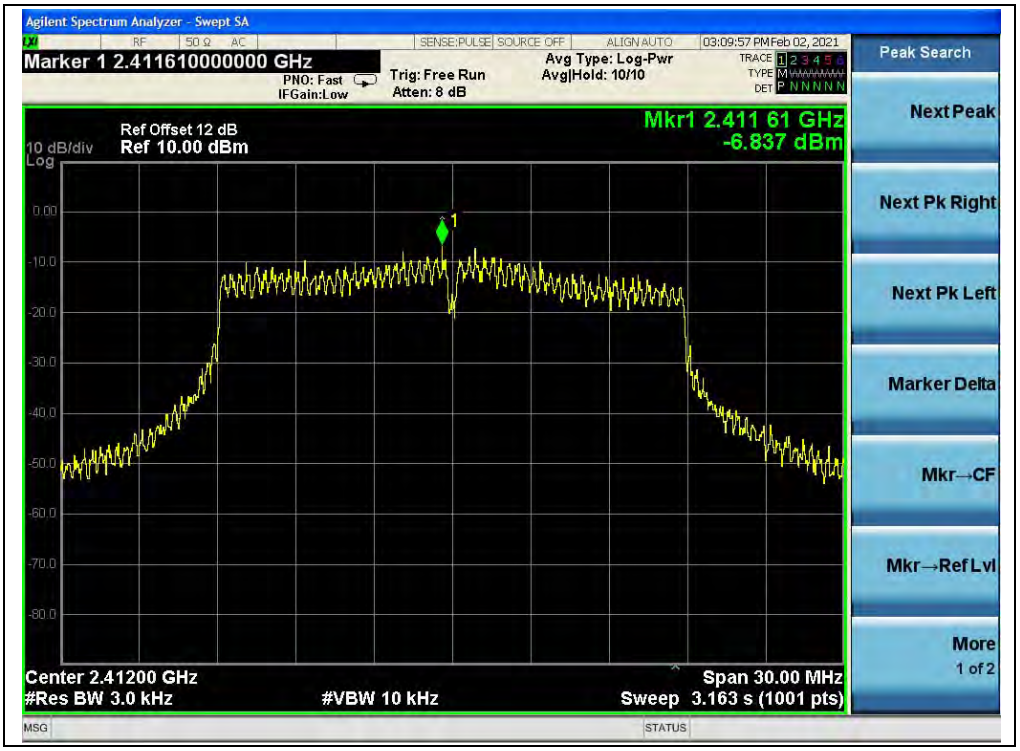
B.Test Plot:



(Channel 1, 802.11n (HT20), ANT0)

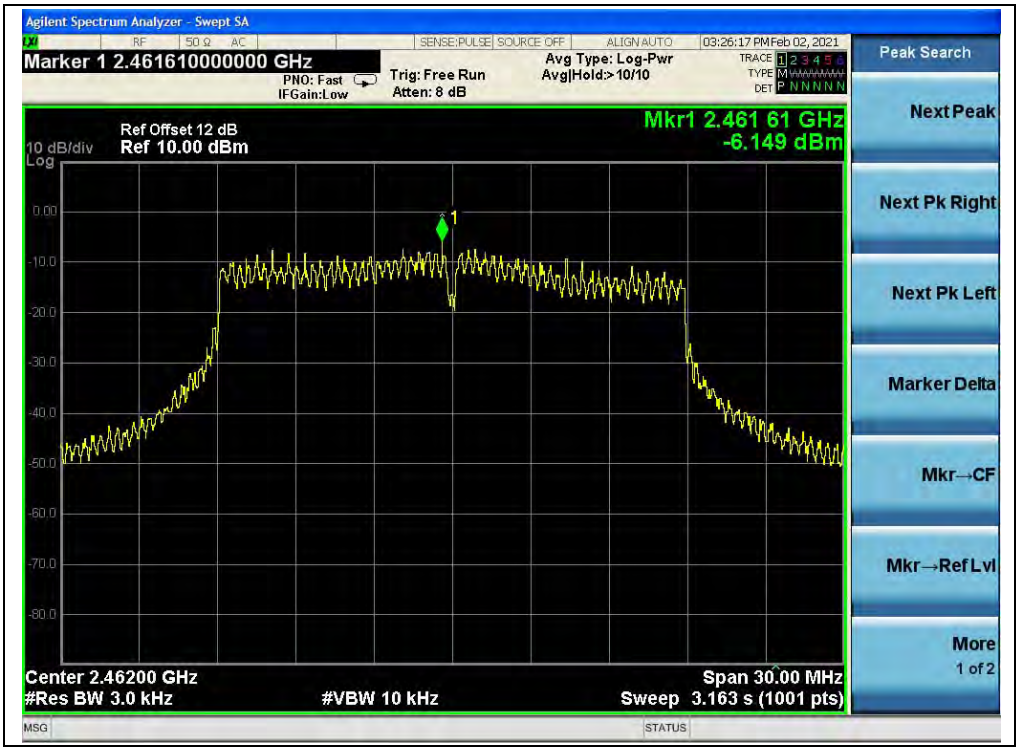
(Channel 6, 802.11n (HT20), ANT0)

(Channel 11, 802.11n (HT20), ANT0)



(Channel 1, 802.11n (HT20), ANT1)

(Channel 6, 802.11n (HT20), ANT1)



(Channel 11, 802.11n (HT20), ANT1)

802.11ax (HEW20) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-9.44	-9.10	-6.26	8	PASS
6	2437	-8.06	-9.37	-5.66	8	PASS
11	2462	-7.33	-10.17	-5.51	8	PASS
Note: Directional gain = -1dBi +10log(2) = 2.01dBi＜6dBi, so the power limit is 8 dBm/3kHz.						

B.Test Plot:

(Channel 1, 802.11ax (HEW20), ANT0)

(Channel 6, 802.11ax (HEW20), ANT0)

(Channel 11, 802.11ax (HEW20), ANT0)

(Channel 1, 802.11ax (HEW20), ANT1)

(Channel 6, 802.11ax (HEW20), ANT1)

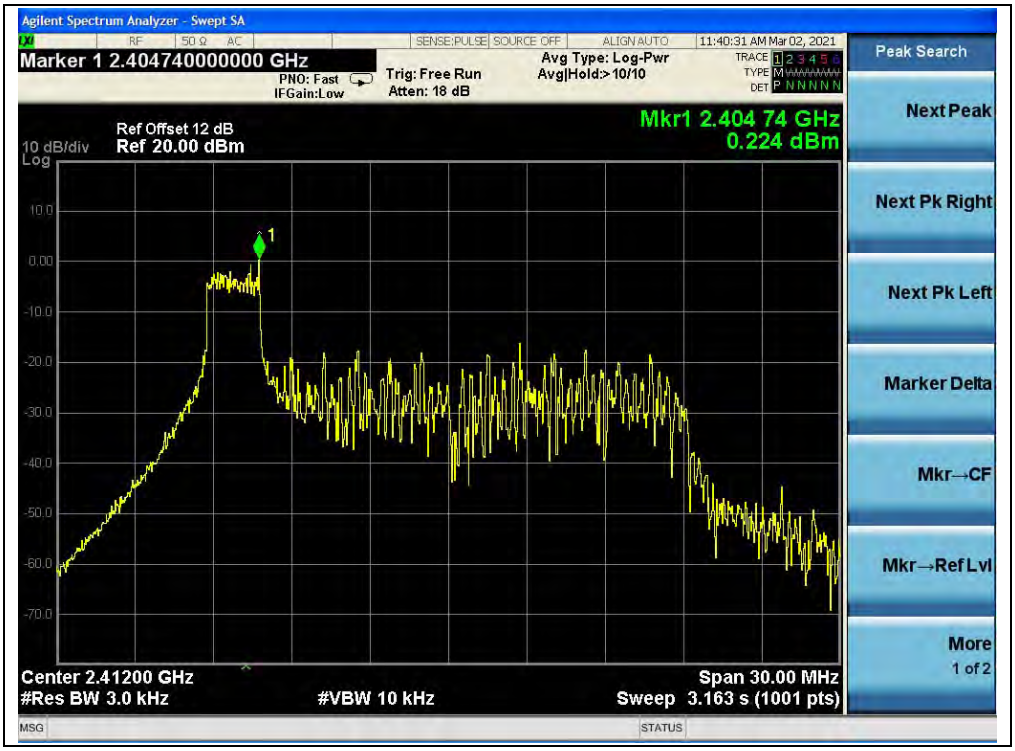
(Channel 11, 802.11ax (HEW20), ANT1)

802.11ax (HEW20)(RU26) Mode

A.Test Verdict:

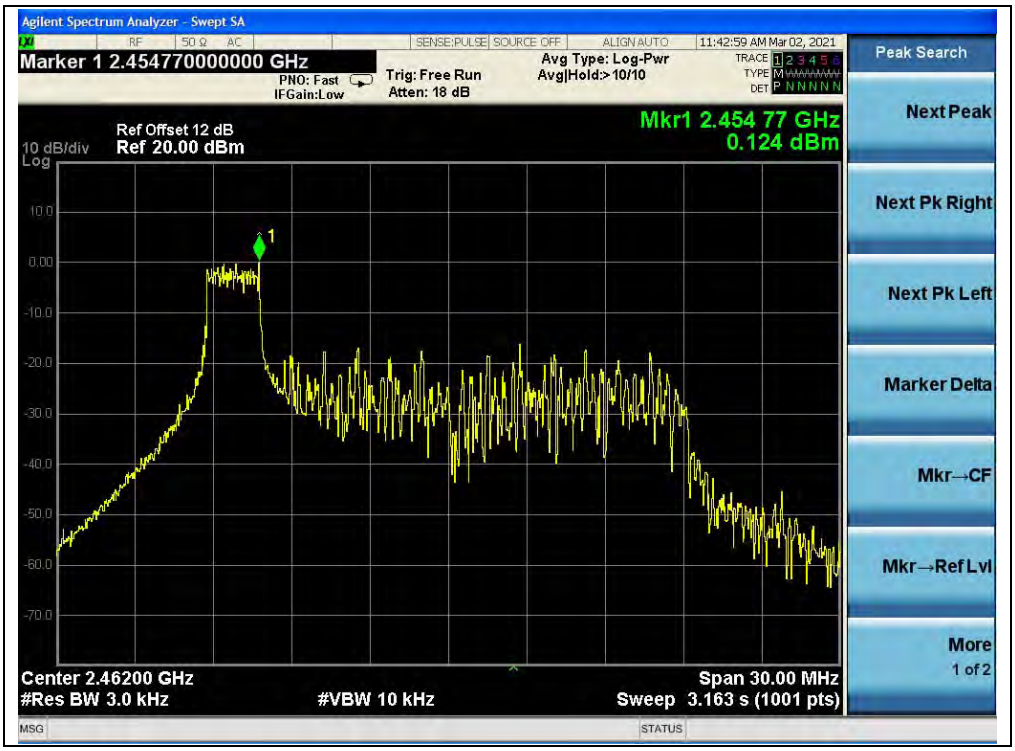
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	0.22	-1.36	2.51	8	PASS
6	2437	0.56	-2.06	2.45	8	PASS
11	2462	0.12	-0.61	2.78	8	PASS
Note: Directional gain = -1dBi +10log(2) = 2.01dBi＜6dBi, so the power limit is 8 dBm/3kHz.						

B.Test Plot:



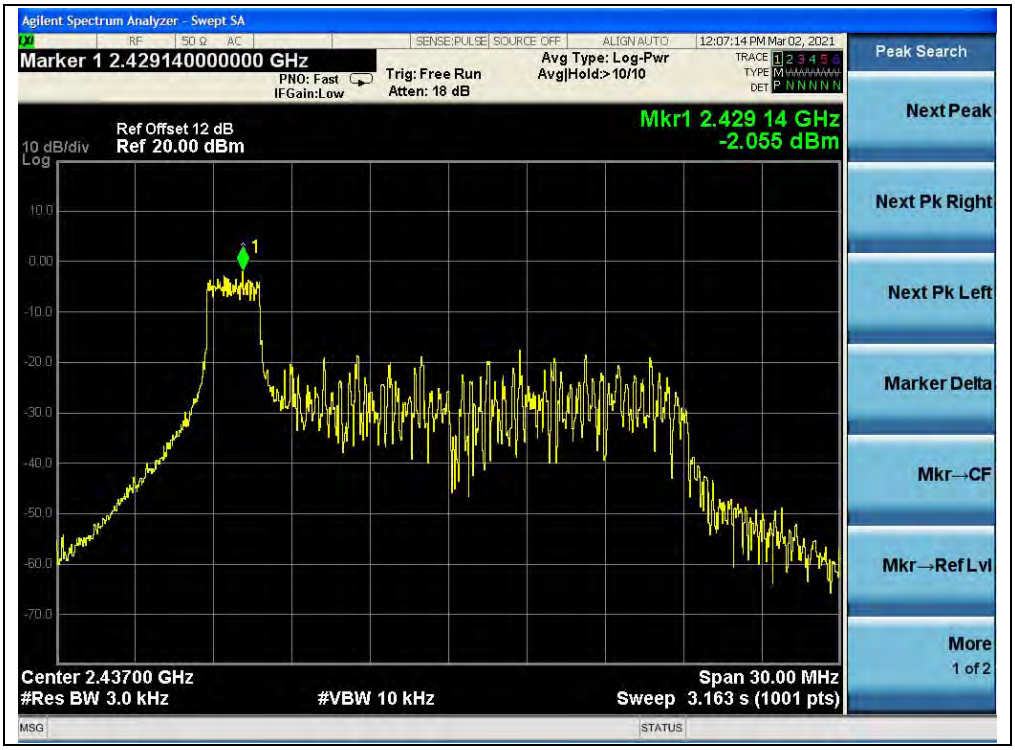
(Channel 1, 802.11ax (HEW20)(RU26), ANT0)

(Channel 6, 802.11ax (HEW20)(RU26), ANT0)

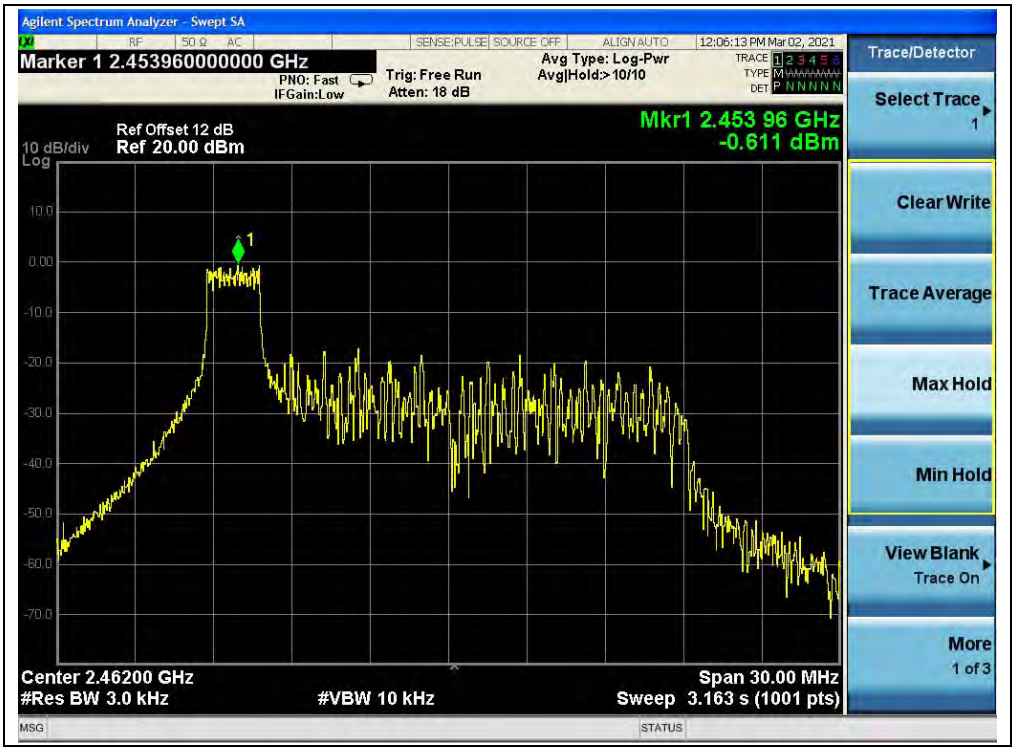


(Channel 11, 802.11ax (HEW20)(RU26), ANT0)

(Channel 1, 802.11ax (HEW20)(RU26), ANT1)



(Channel 6, 802.11ax (HEW20)(RU26), ANT1)



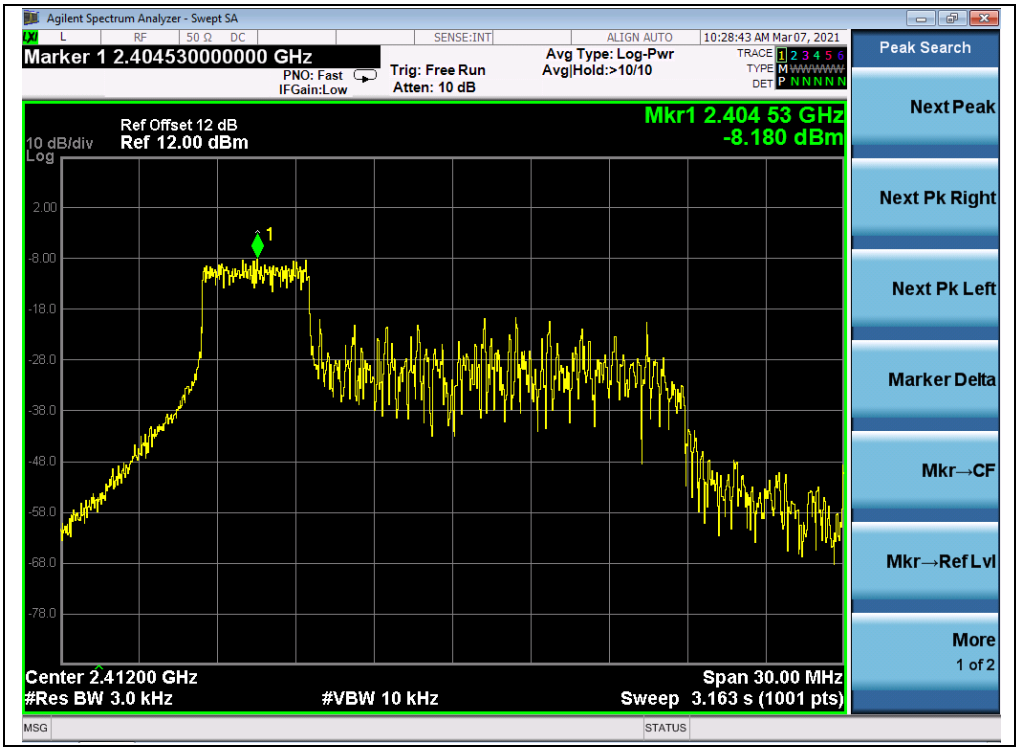
(Channel 11, 802.11ax (HEW20)(RU26), ANT1)

802.11ax (HEW20)(RU52) Mode

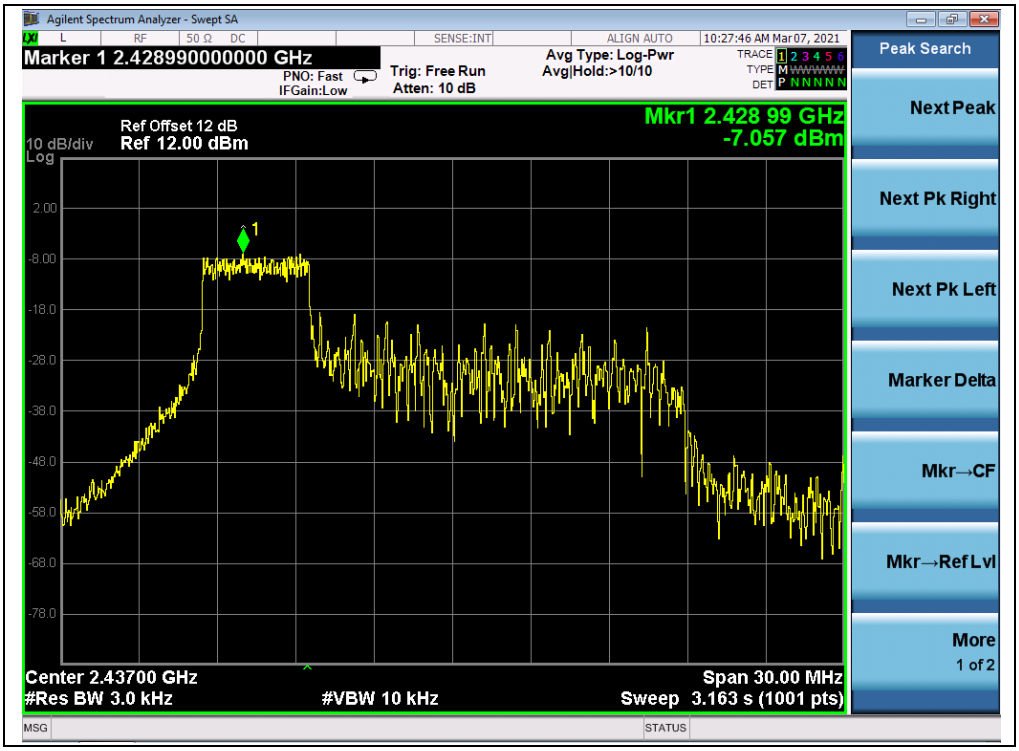
A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-8.18	-4.36	-2.85	8	PASS
6	2437	-7.06	-6.91	-3.97	8	PASS
11	2462	-4.03	-3.87	-0.94	8	PASS
Note: Directional gain = -1dBi +10log(2) = 2.01dBi＜6dBi, so the power limit is 8 dBm/3kHz.						

B.Test Plot:

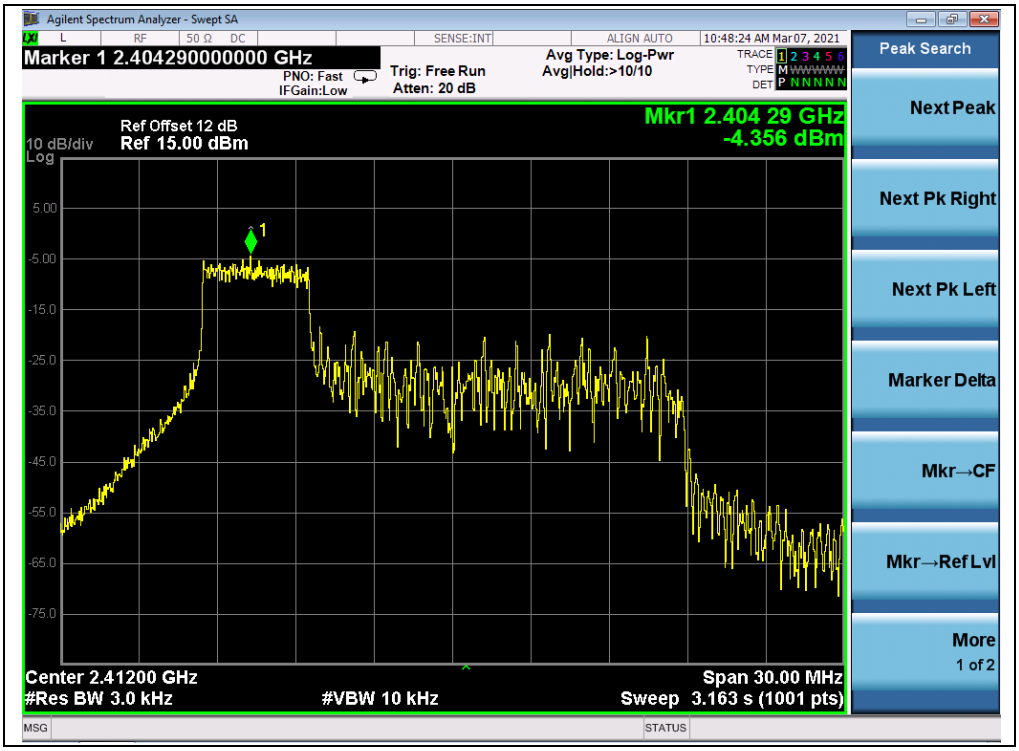


(Channel 1, 802.11ax (HEW20)(RU52), ANT0)

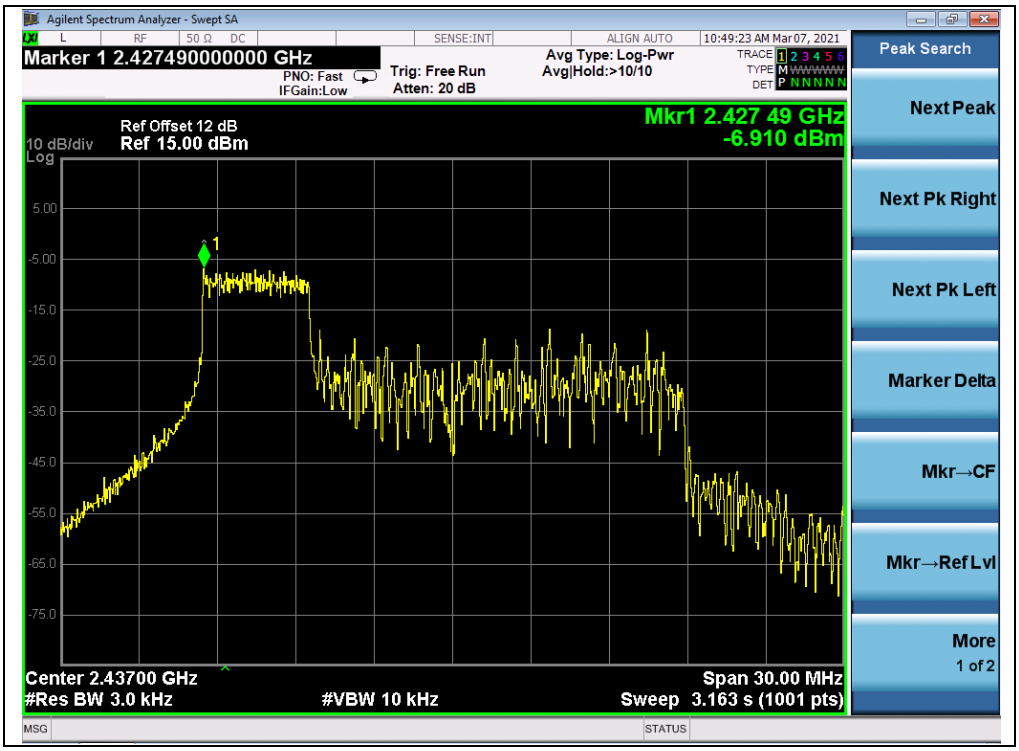


(Channel 6, 802.11ax (HEW20)(RU52), ANT0)

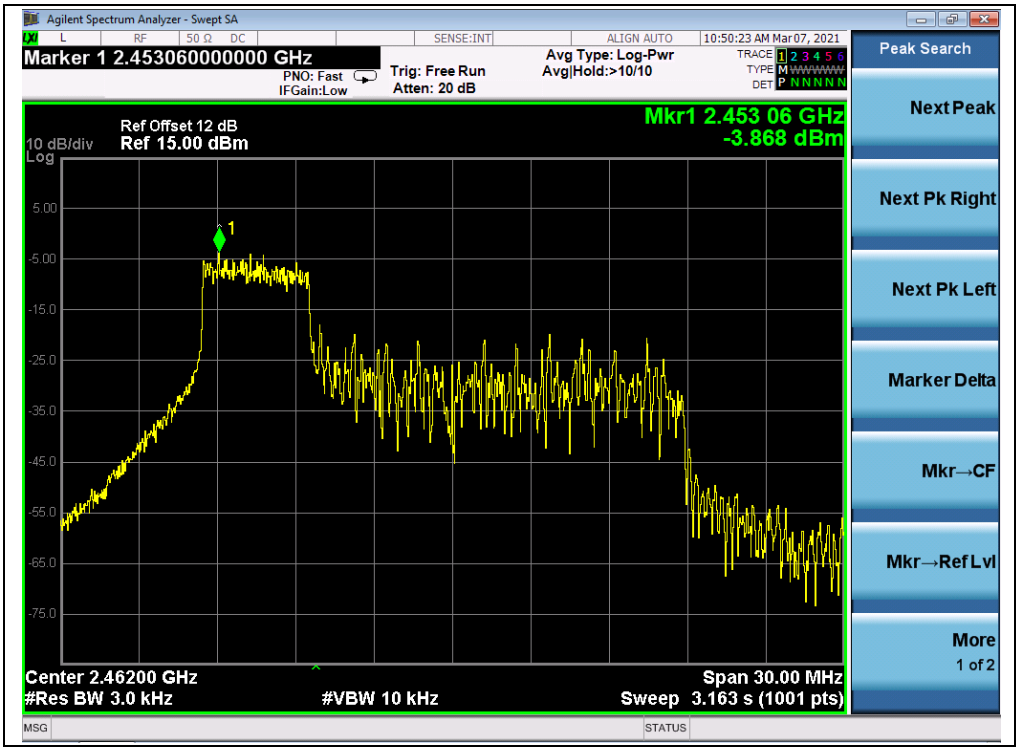
(Channel 11, 802.11ax (HEW20)(RU52), ANT0)



(Channel 1, 802.11ax (HEW20)(RU52), ANT1)



(Channel 6, 802.11ax (HEW20)(RU52), ANT1)



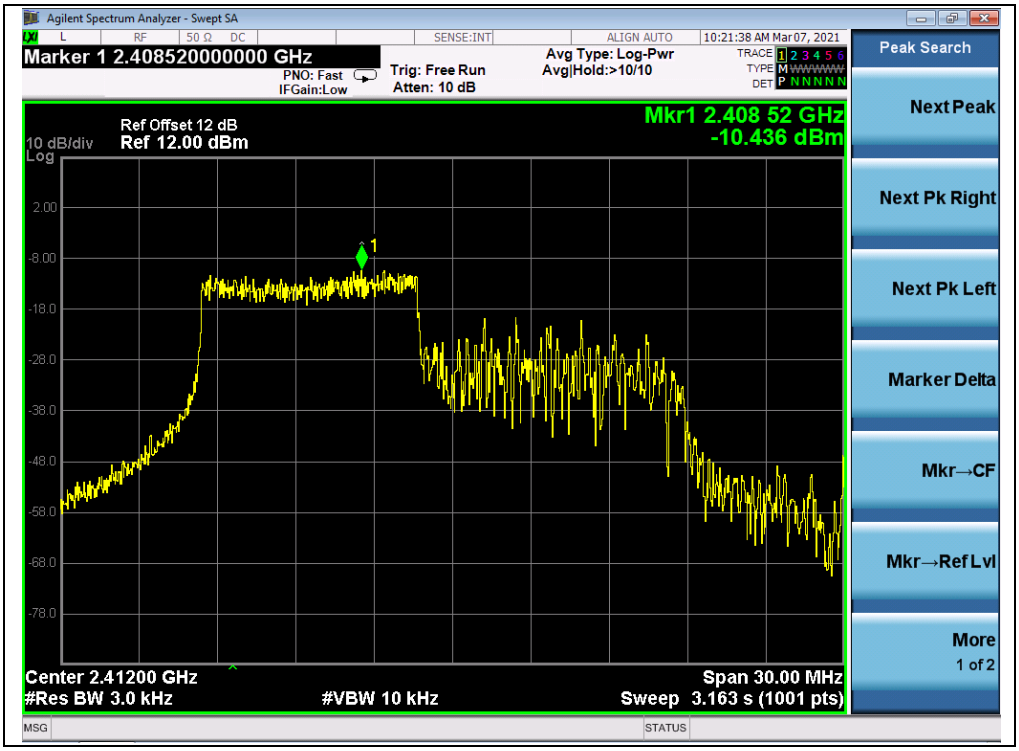
(Channel 11, 802.11ax (HEW20)(RU52), ANT1)

802.11ax (HEW20)(RU106) Mode

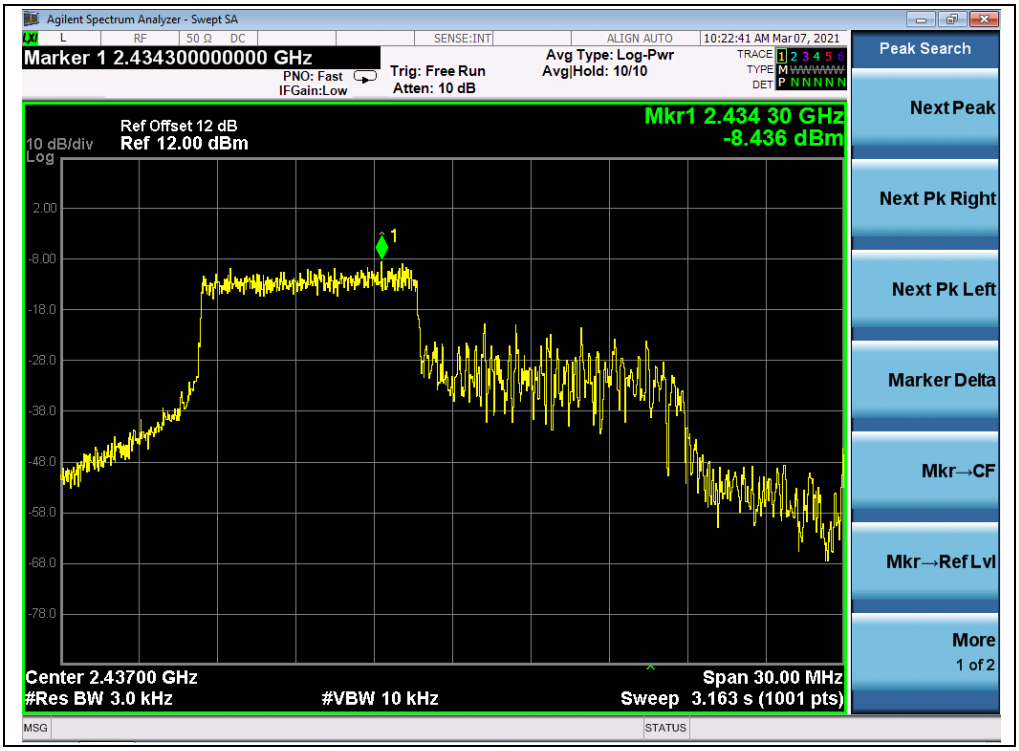
A.Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-10.44	-7.28	-5.57	8	PASS
6	2437	-8.44	-10.30	-6.26	8	PASS
11	2462	-6.91	-8.50	-4.62	8	PASS
Note: Directional gain = -1dBi +10log(2) = 2.01dBi＜6dBi, so the power limit is 8 dBm/3kHz.						

B.Test Plot:

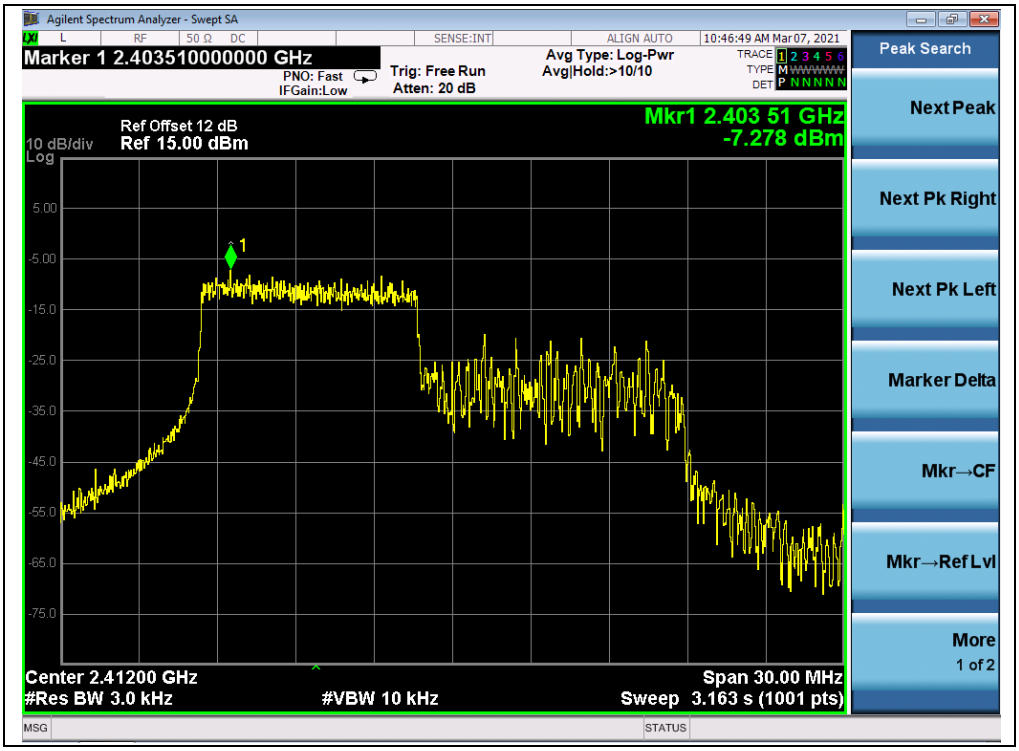


(Channel 1, 802.11ax (HEW20)(RU106), ANT0)



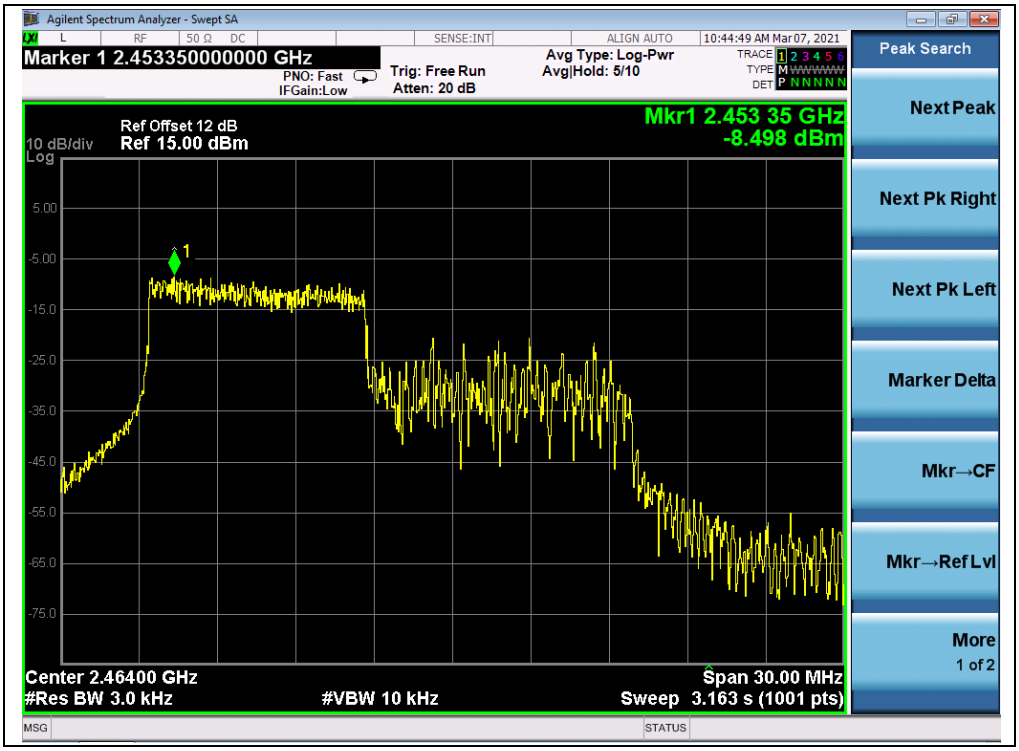
(Channel 6, 802.11ax (HEW20)(RU106), ANT0)

(Channel 11, 802.11ax (HEW20)(RU106), ANT0)



(Channel 1, 802.11ax (HEW20)(RU106), ANT1)

(Channel 6, 802.11ax (HEW20)(RU106), ANT1)



(Channel 11, 802.11ax (HEW20)(RU106), ANT1)

2.7. Conducted Emission

2.7.1.Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

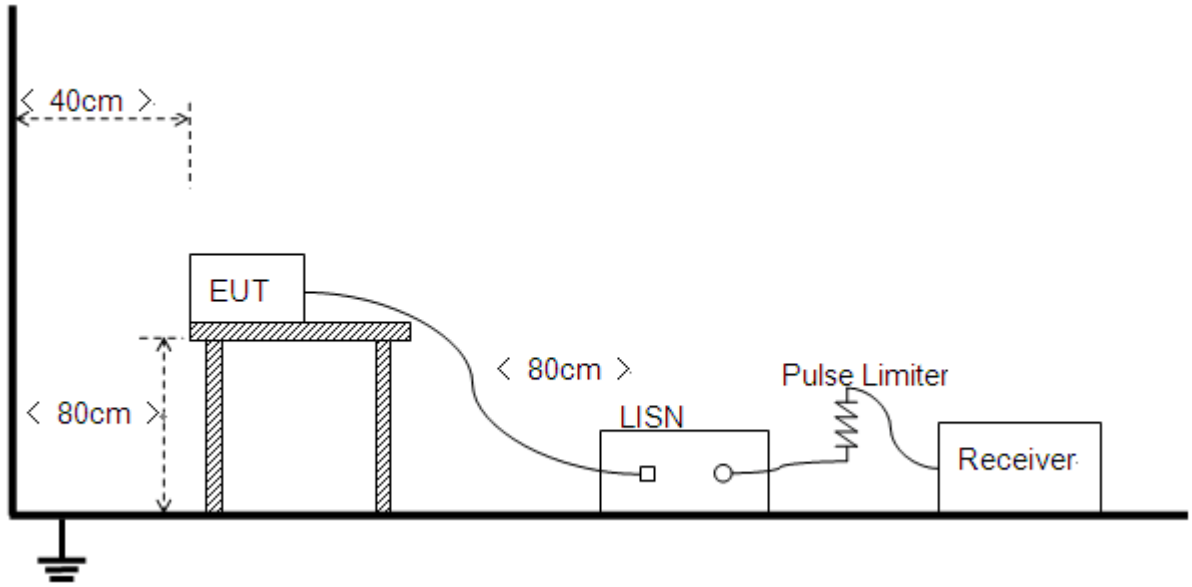
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2.Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.

2.7.3.Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A.Test Setup:

Test Mode: EUT+ ADAPTER + WIFI TX

Test Voltage: AC 120V/60Hz

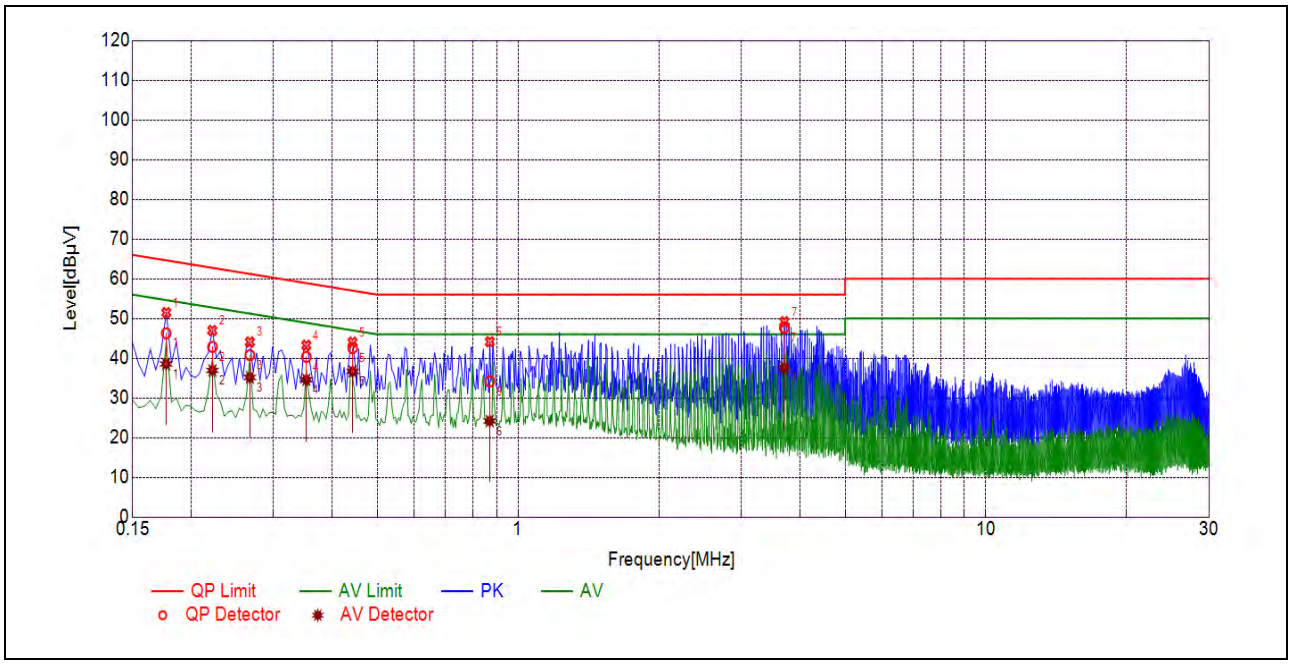
The measurement results are obtained as below:

$E\ [dB\mu V] = U_R + L_{Cable\ loss}\ [dB] + A_{Factor}$

U_R: Receiver Reading

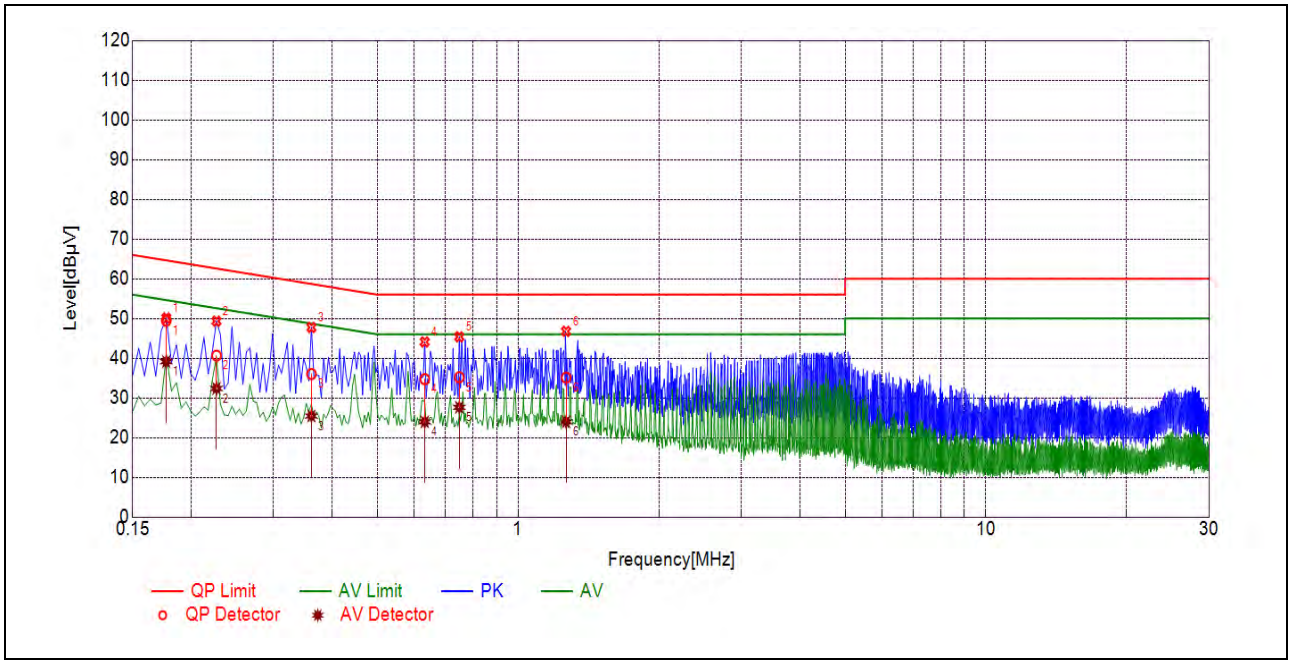
A_{Factor}: Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1768	46.26	38.54	64.63	54.63	Line	PASS
2	0.2221	42.86	36.92	62.74	52.74		PASS
3	0.2670	40.78	35.17	61.21	51.21		PASS
4	0.3526	40.33	34.58	58.90	48.90		PASS
5	0.4428	42.57	36.66	57.01	47.01		PASS
6	0.8696	34.17	24.18	56.00	46.00		PASS
7	3.7058	47.70	37.63	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1769	49.43	39.14	64.63	54.63	Neutral	PASS
2	0.2266	40.65	32.38	62.57	52.57		PASS
3	0.3615	36.02	25.44	58.69	48.69		PASS
4	0.6316	34.72	23.97	56.00	46.00		PASS
5	0.7486	35.20	27.64	56.00	46.00		PASS
6	1.2667	35.09	23.97	56.00	46.00		PASS

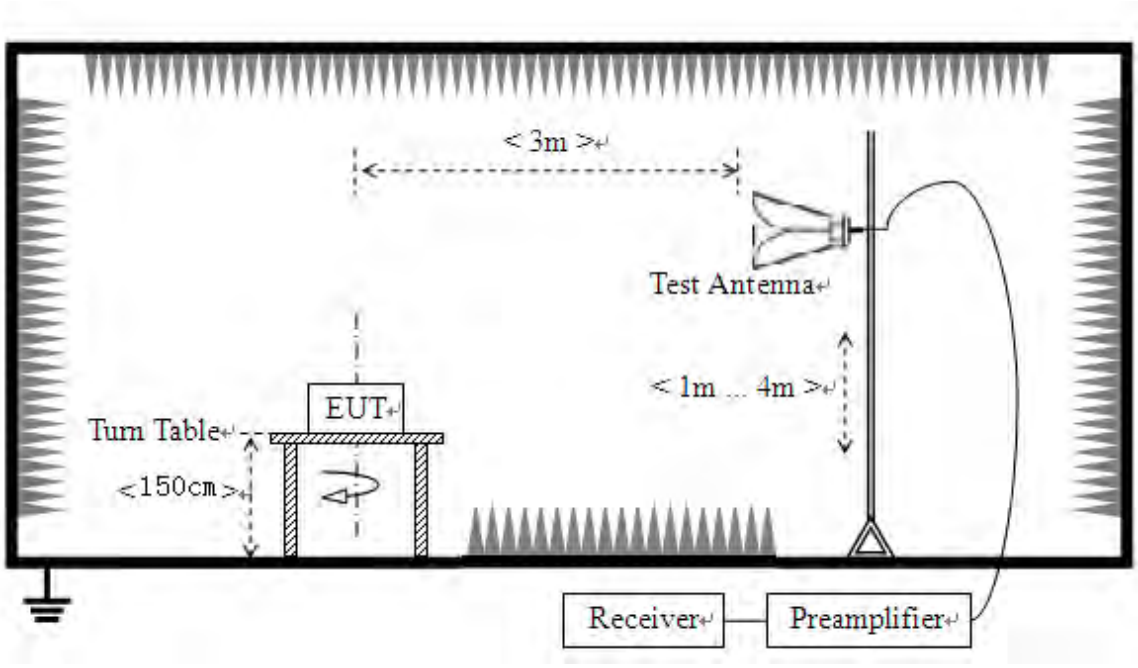
2.8. Restricted Frequency Bands

2.8.1.Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

2.8.2.Test Description

Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.8.3.Test Procedure

KDB 558074 Section 8.6 and 8.7 was used in order to prove compliance.

2.8.4.Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m

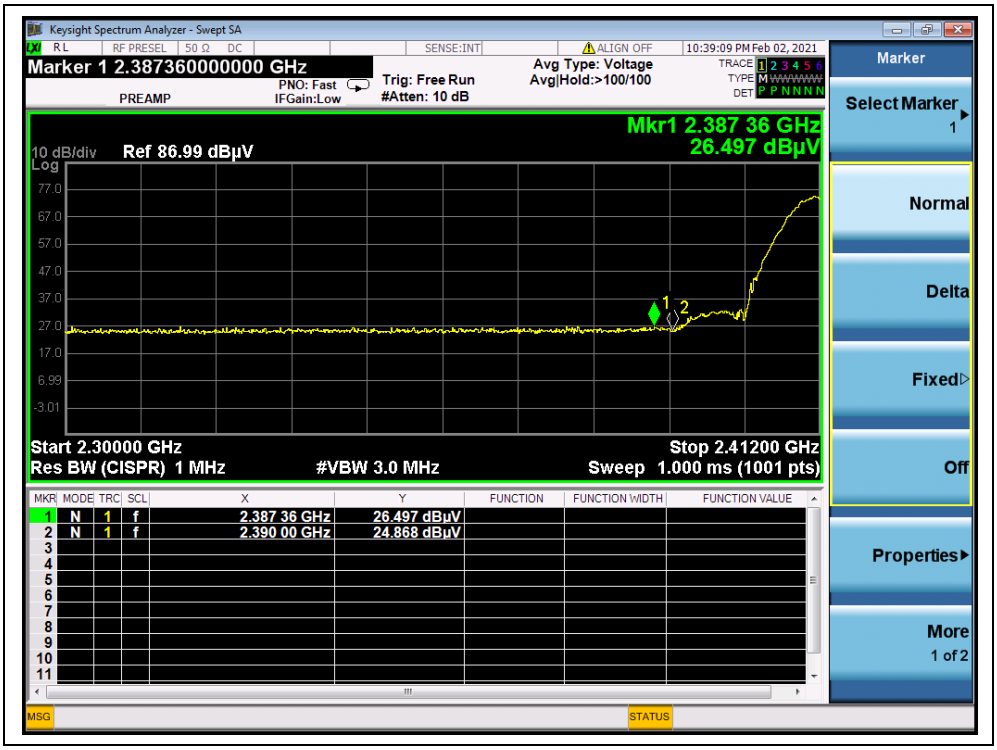
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

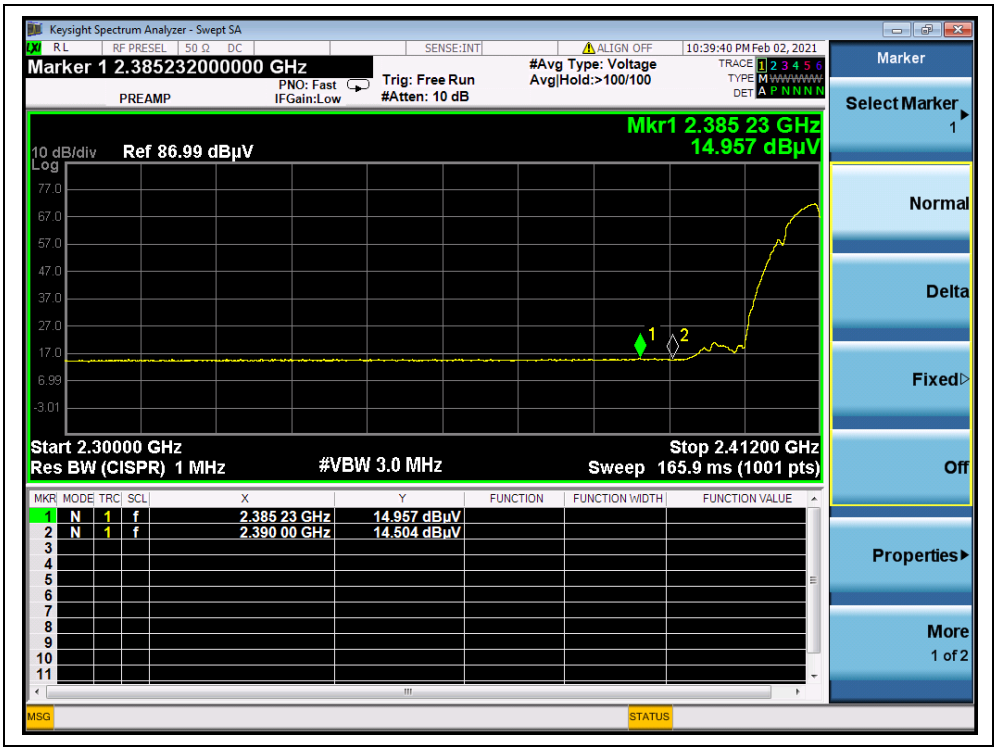
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2387.36	PK	26.50	6.74	27.20	60.44	74	PASS
1	2385.23	AV	14.96	6.74	27.20	48.90	54	PASS
11	2485.25	PK	25.36	6.74	27.20	59.30	74	PASS
11	2485.63	AV	15.34	6.74	27.20	49.28	54	PASS

B.Test Plot:



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)

(PEAK, Channel 11, 802.11b)

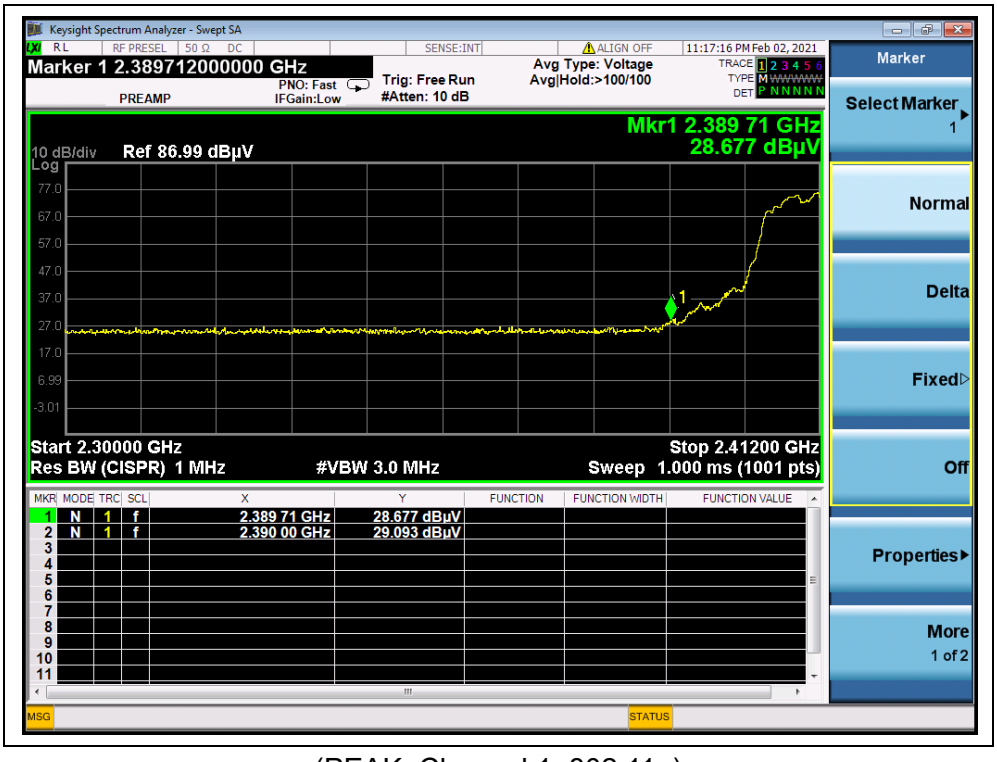
(AVERAGE, Channel 11, 802.11b)

802.11g Mode

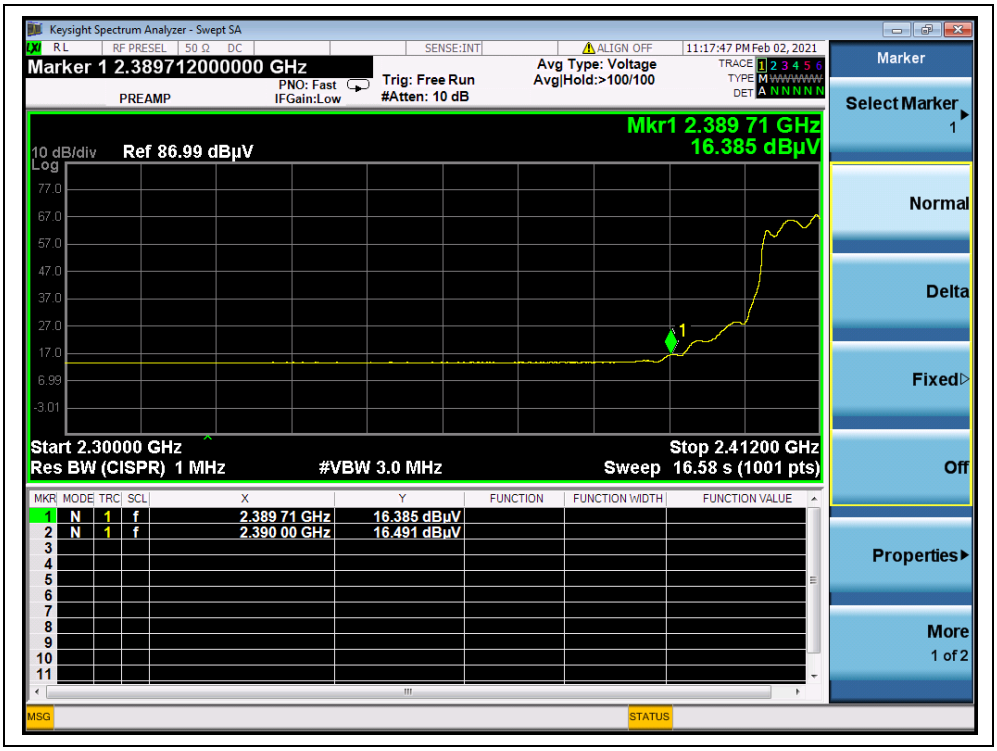
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2390.00	PK	29.09	6.74	27.20	63.03	74	PASS
1	2390.00	AV	16.49	6.74	27.20	50.43	54	PASS
11	2483.70	PK	31.26	6.74	27.20	65.20	74	PASS
11	2483.50	AV	18.73	6.74	27.20	52.67	54	PASS

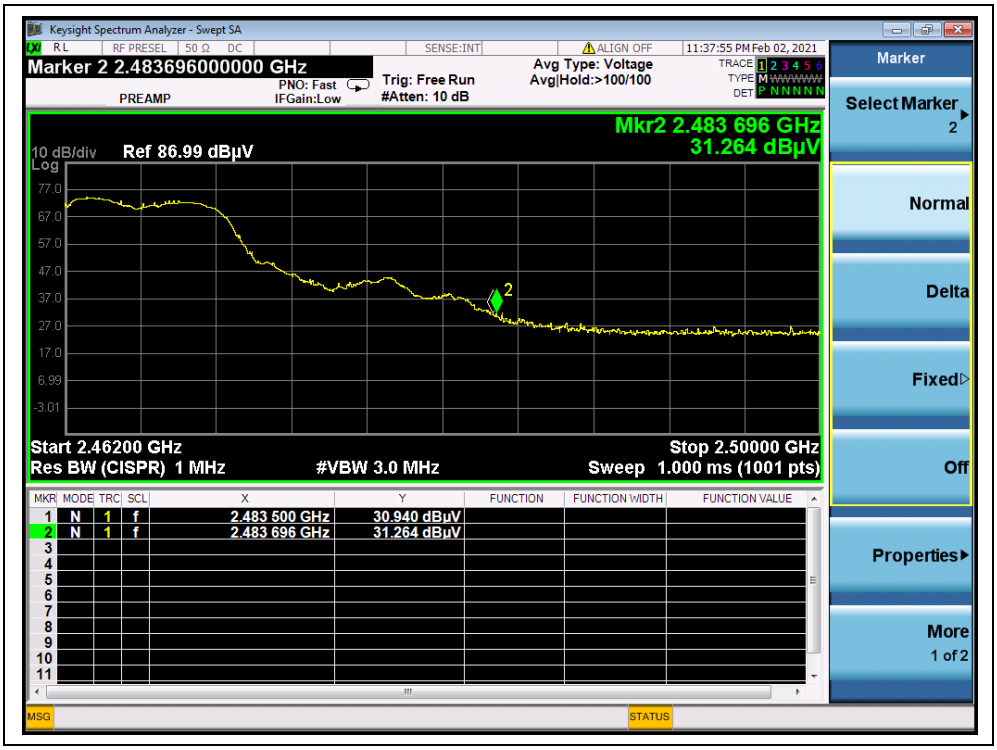
B.Test Plot:



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

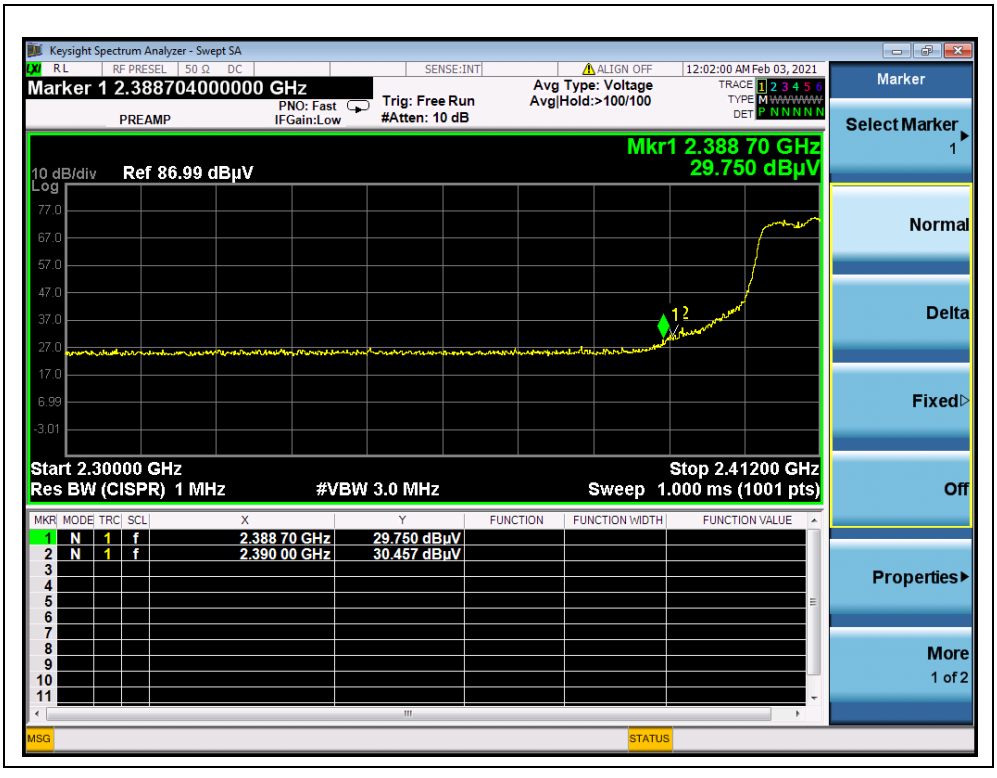
(AVERAGE, Channel 11, 802.11g)

802.11n (HT20) Mode

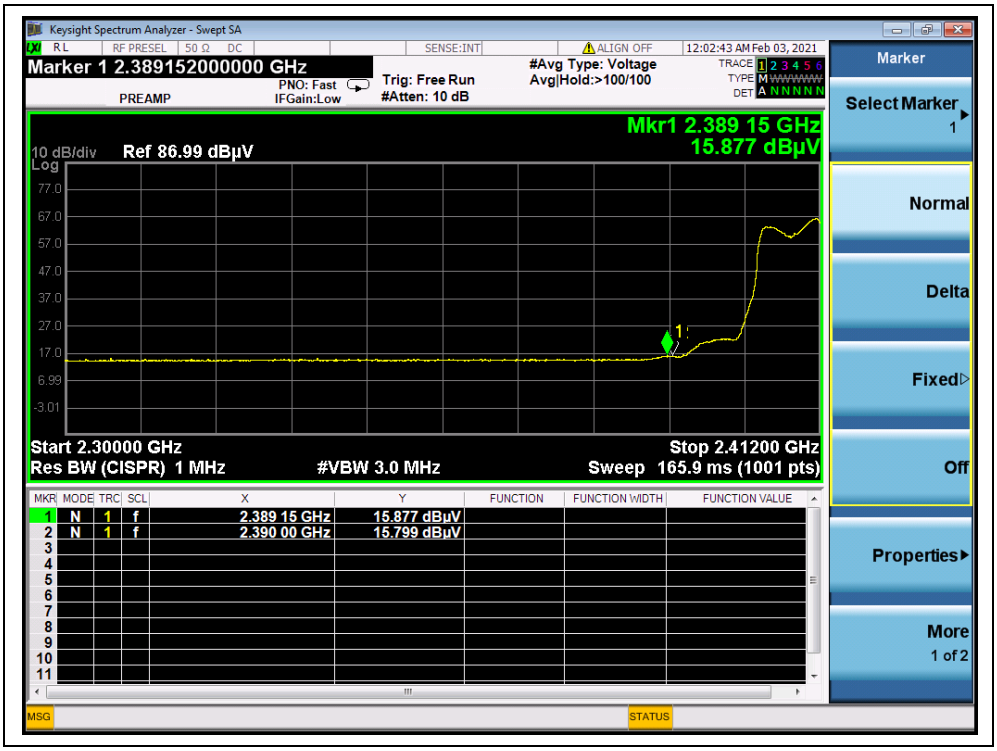
A.Test Verdict:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
1	2390.00	PK	30.46	6.74	27.20	64.40	74	PASS
1	2389.15	AV	15.88	6.74	27.20	49.82	54	PASS
11	2483.50	PK	30.84	6.74	27.20	64.78	74	PASS
11	2483.50	AV	18.66	6.74	27.20	52.60	54	PASS

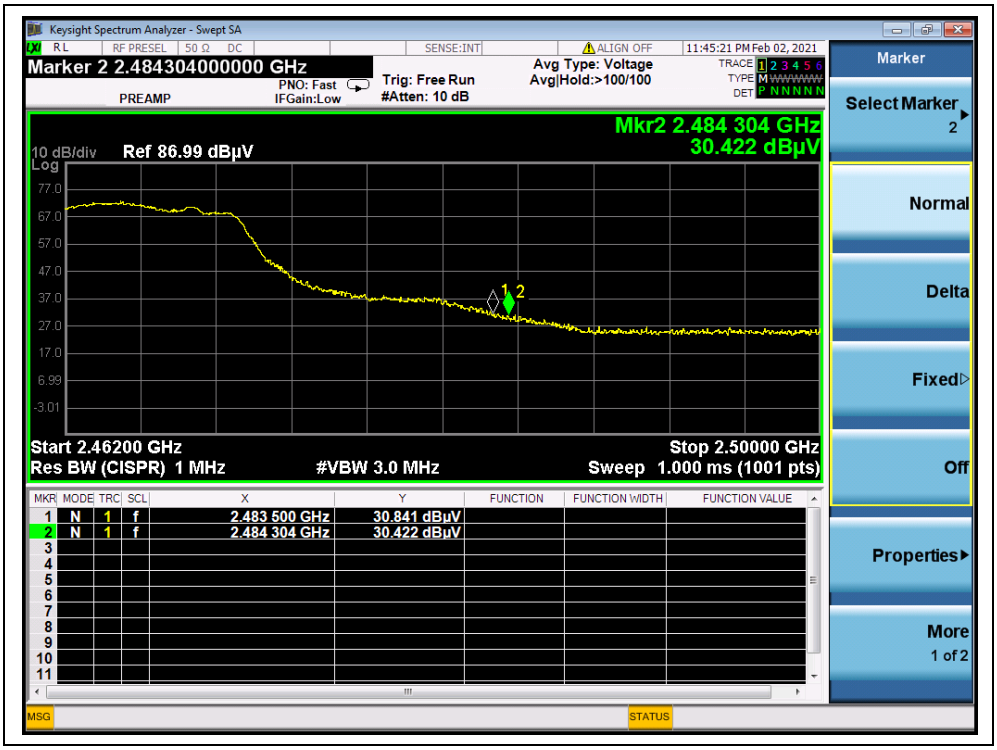
B.Test Plot:



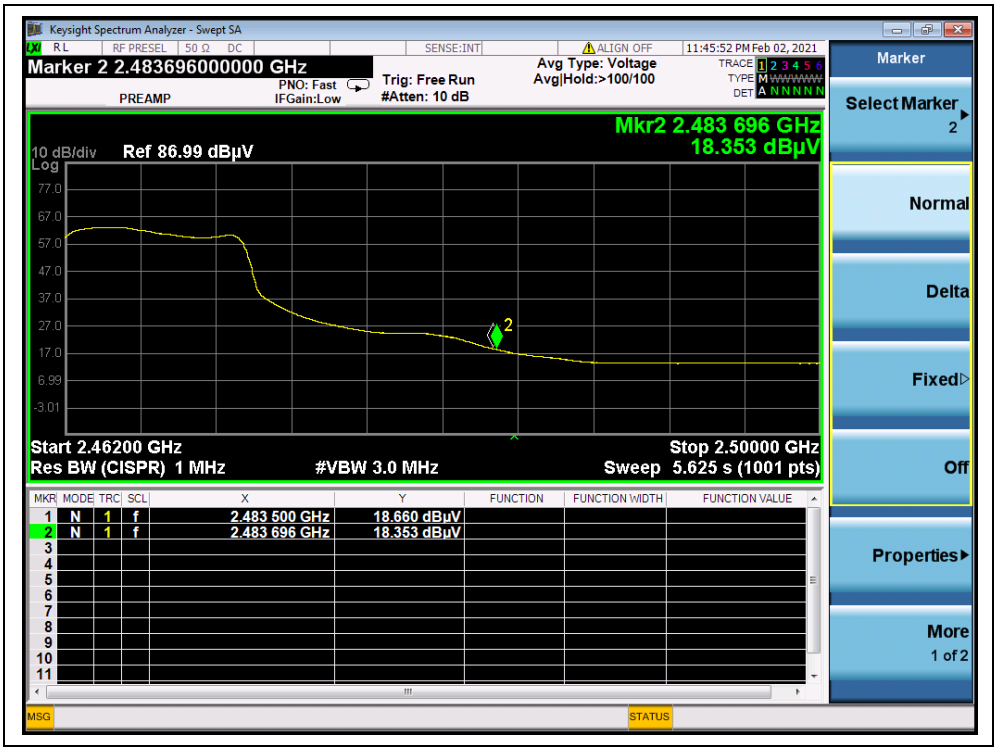
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



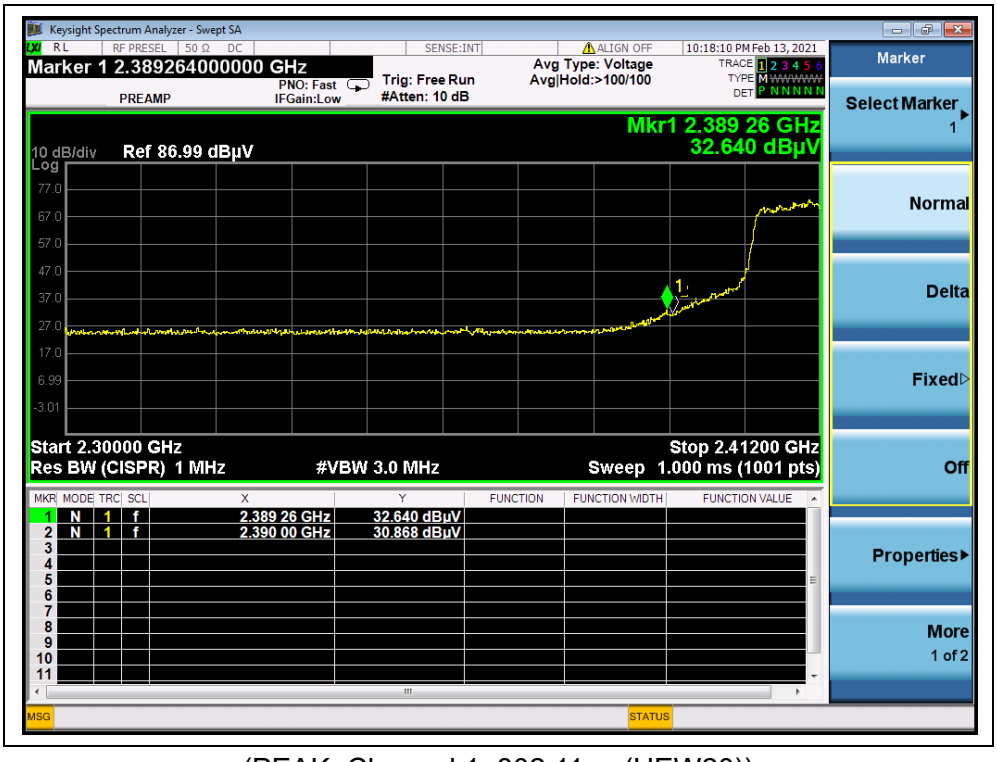
(AVERAGE, Channel 11, 802.11n (HT20))

802.11ax (HEW20) Mode

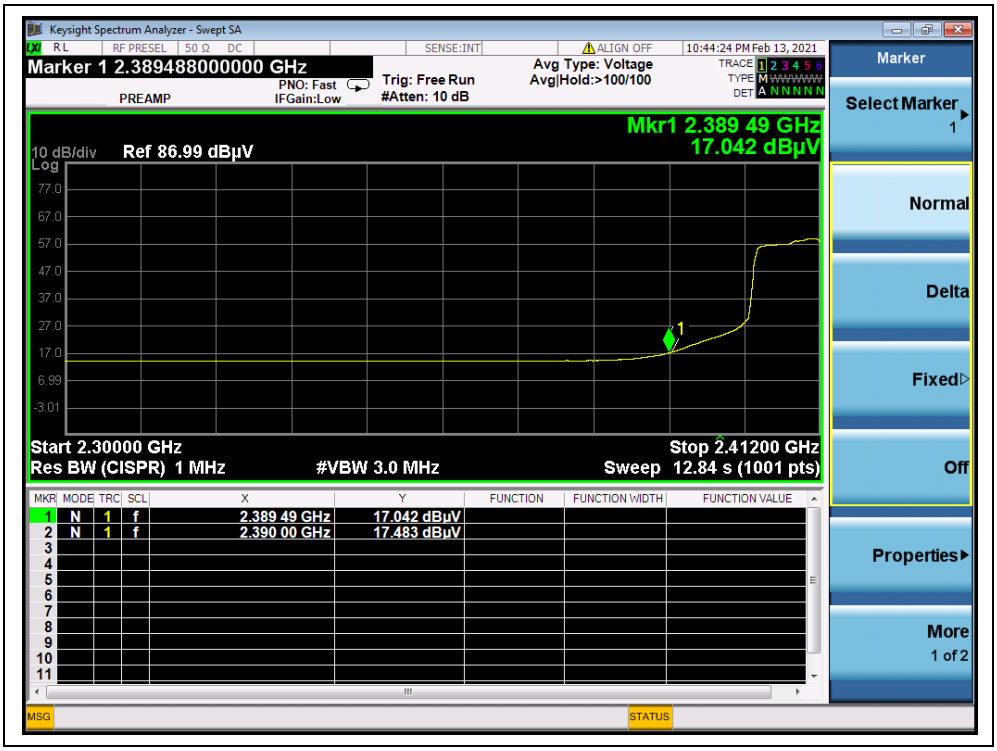
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.26	PK	32.64	6.74	27.20	66.58	74	PASS
1	2390.00	AV	17.48	6.74	27.20	51.42	54	PASS
11	2483.50	PK	27.36	6.74	27.20	61.30	74	PASS
11	2483.50	AV	16.41	6.74	27.20	50.35	54	PASS

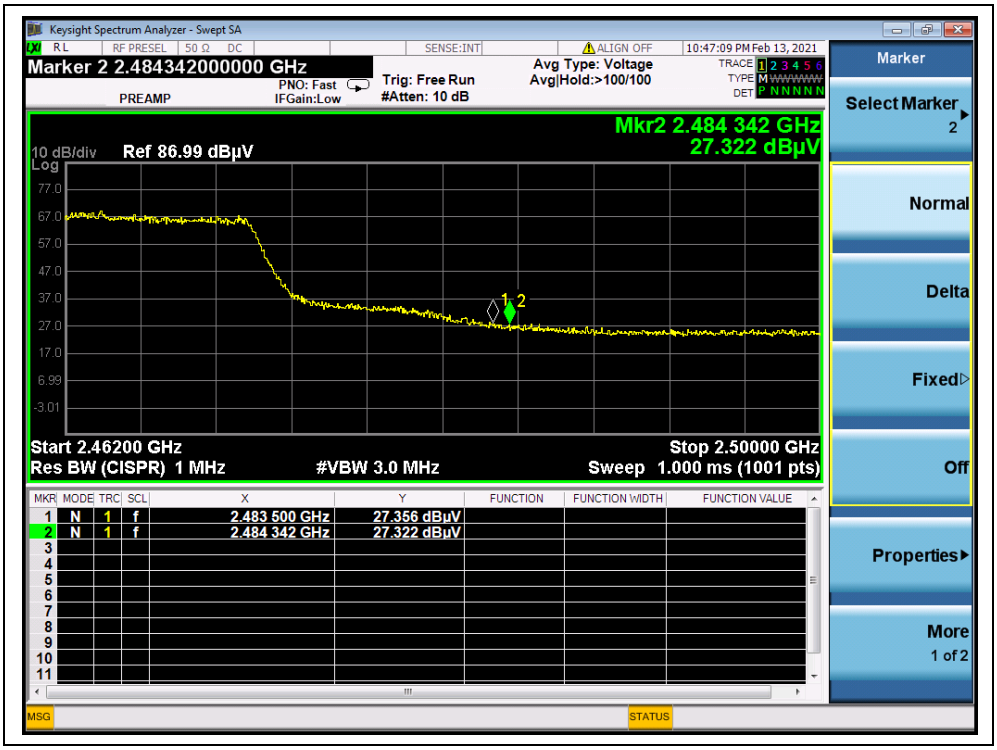
B.Test Plot:



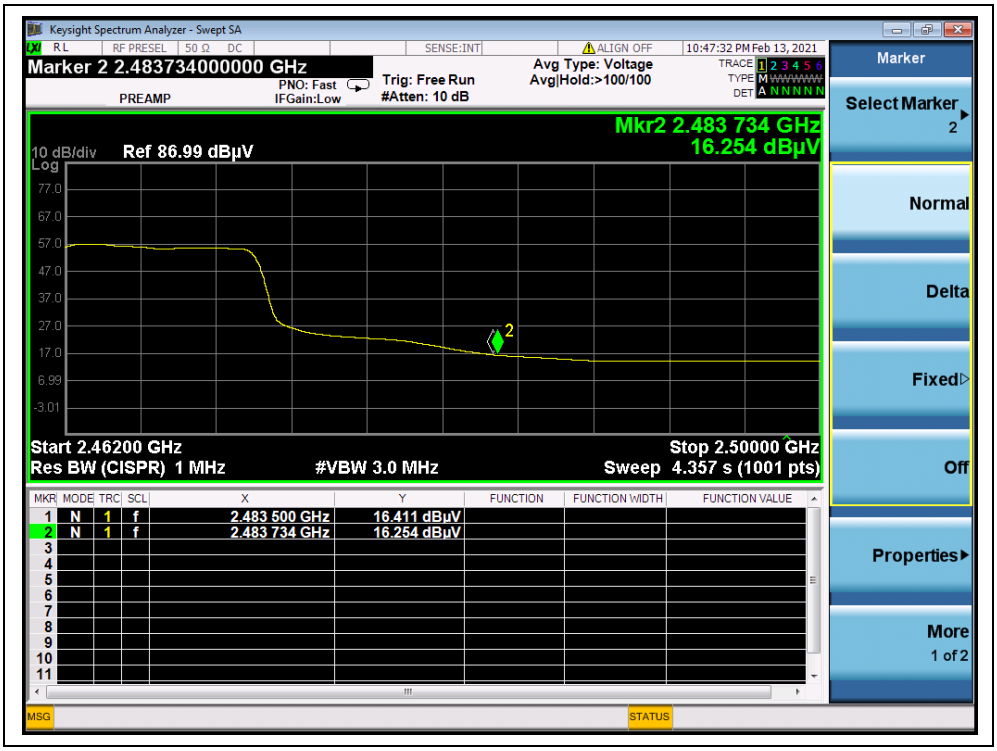
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 11, 802.11ax (HEW20))



(AVERAGE, Channel 11, 802.11ax (HEW20))

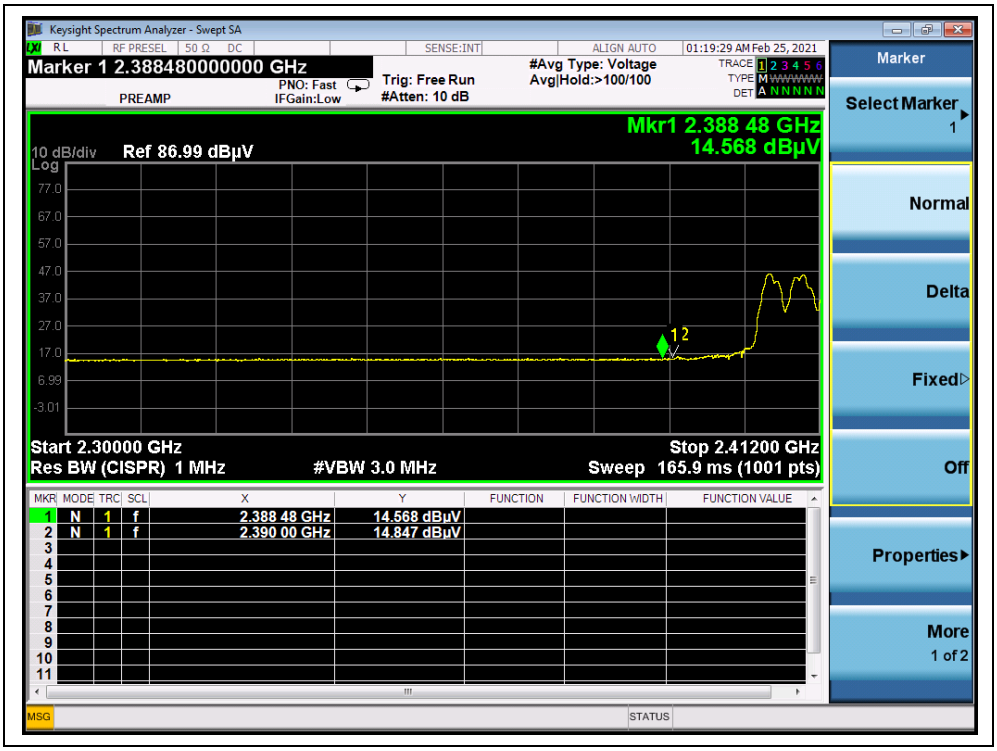
802.11ax (HEW20)(RU26) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
1	2388.82	PK	27.25	6.74	27.20	61.19	74	PASS
1	2390.00	AV	14.85	6.74	27.20	48.79	54	PASS
11	2484.46	PK	25.89	6.74	27.20	59.83	74	PASS
11	2483.50	AV	15.05	6.74	27.20	48.99	54	PASS

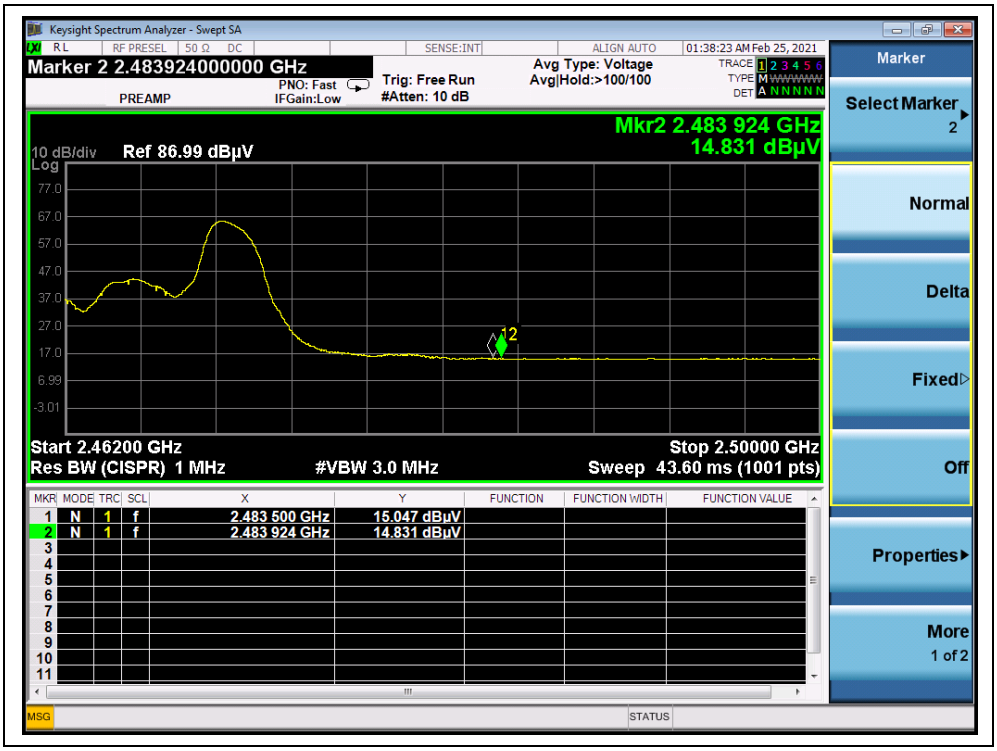
B.Test Plot:

(PEAK, Channel 1, 802.11ax (HEW20)(RU26))



(AVERAGE, Channel 1, 802.11ax (HEW20)(RU26))

(PEAK, Channel 11, 802.11ax (HEW20)(RU26))



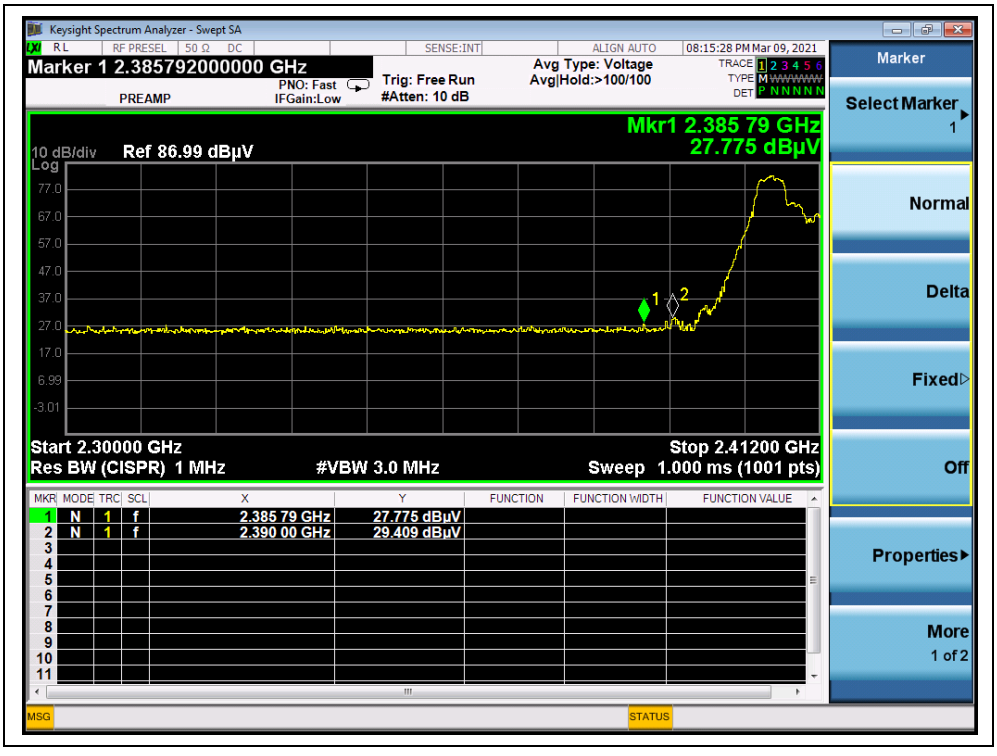
(AVERAGE, Channel 11, 802.11ax (HEW20)(RU26))

802.11ax (HEW20)(RU52) Mode

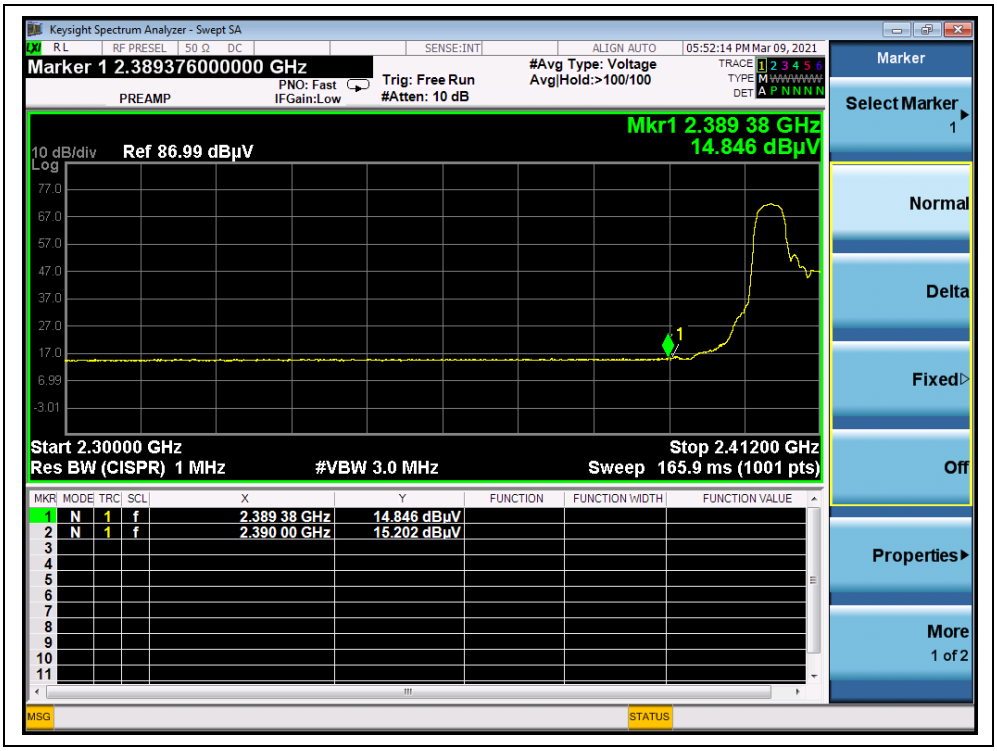
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2390.00	PK	29.41	6.74	27.20	63.35	74	PASS
1	2390.00	AV	15.20	6.74	27.20	49.14	54	PASS
11	2483.50	PK	28.03	6.74	27.20	61.97	74	PASS
11	2483.50	AV	15.63	6.74	27.20	49.57	54	PASS

B.Test Plot:

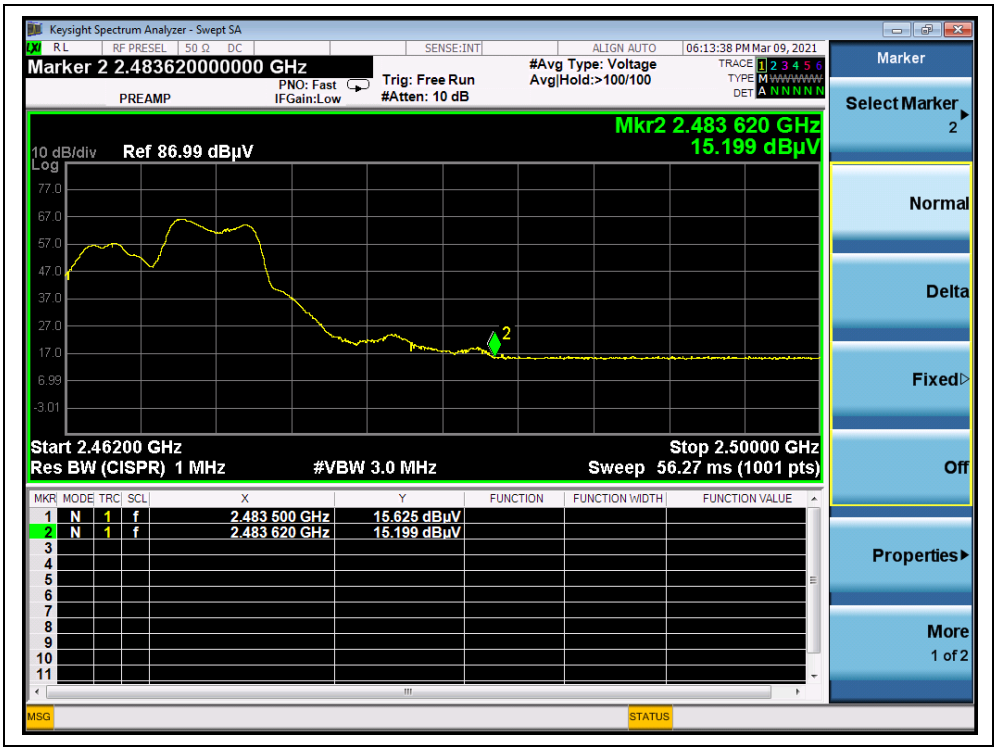


(PEAK, Channel 1, 802.11ax (HEW20)(RU52))



(AVERAGE, Channel 1, 802.11ax (HEW20)(RU52))

(PEAK, Channel 11, 802.11ax (HEW20)(RU52))



(AVERAGE, Channel 11, 802.11ax (HEW20)(RU52))

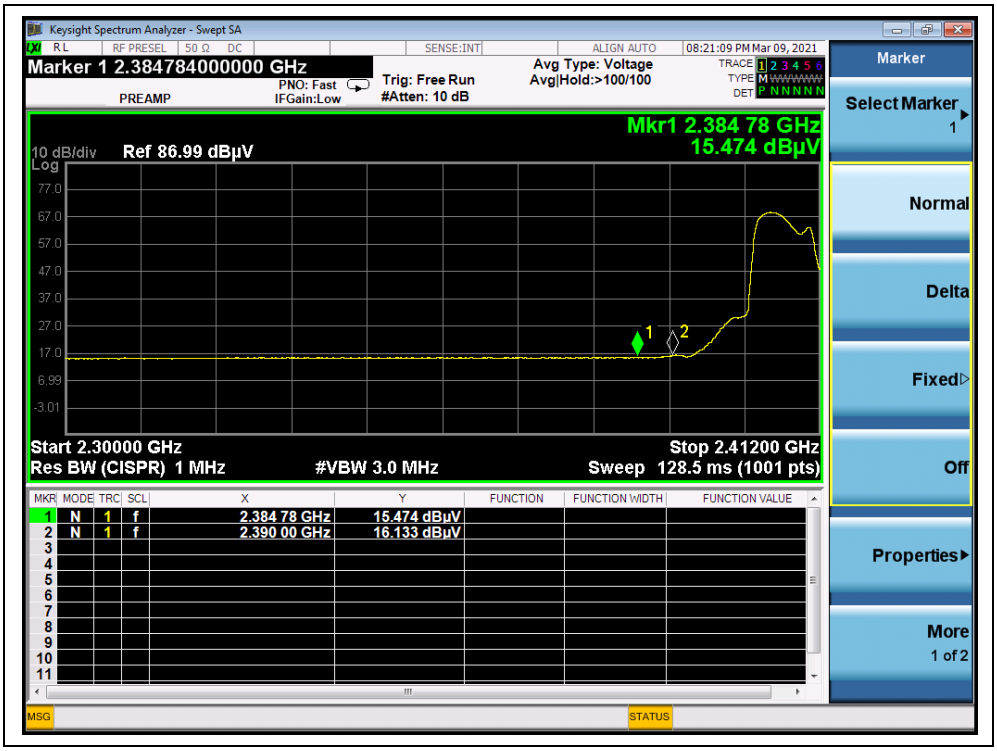
802.11ax (HEW20)(RU106) Mode

A.Test Verdict:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
1	2388.70	PK	27.57	6.74	27.20	61.51	74	PASS
1	2390.00	AV	16.13	6.74	27.20	50.07	54	PASS
11	2483.50	PK	26.79	6.74	27.20	60.73	74	PASS
11	2483.50	AV	15.44	6.74	27.20	49.38	54	PASS

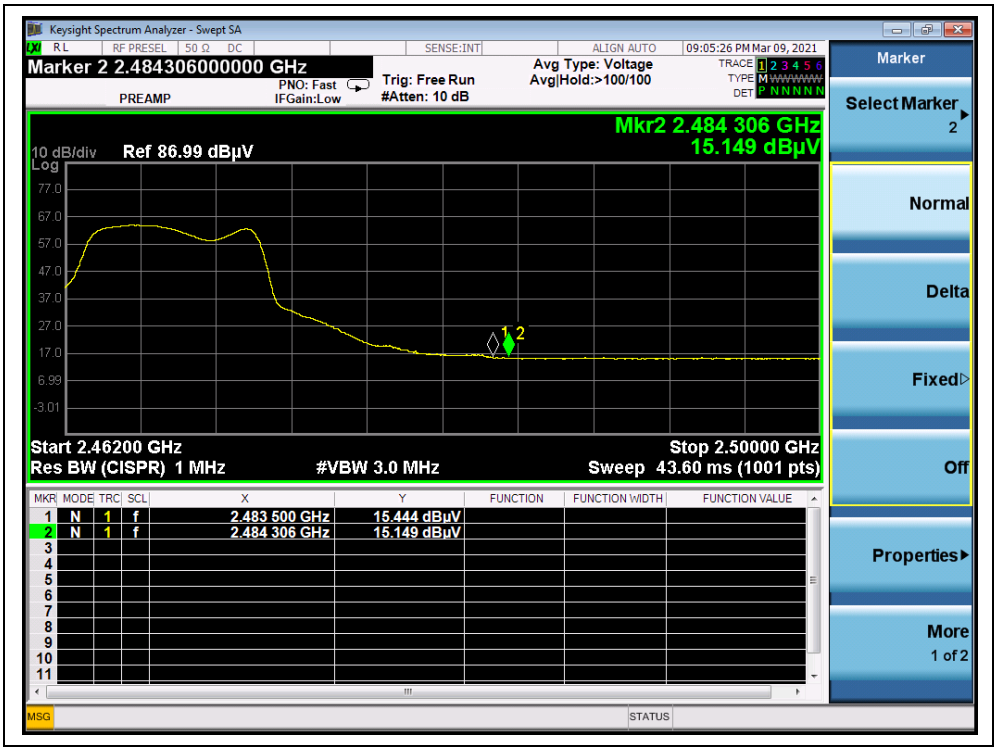
B.Test Plot:

(PEAK, Channel 1, 802.11ax (HEW20)(RU106))



(AVERAGE, Channel 1, 802.11ax (HEW20)(RU106))

(PEAK, Channel 11, 802.11ax (HEW20)(RU106))



(AVERAGE, Channel 11, 802.11ax (HEW20)(RU106))

2.9. Radiated Emission

2.9.1.Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

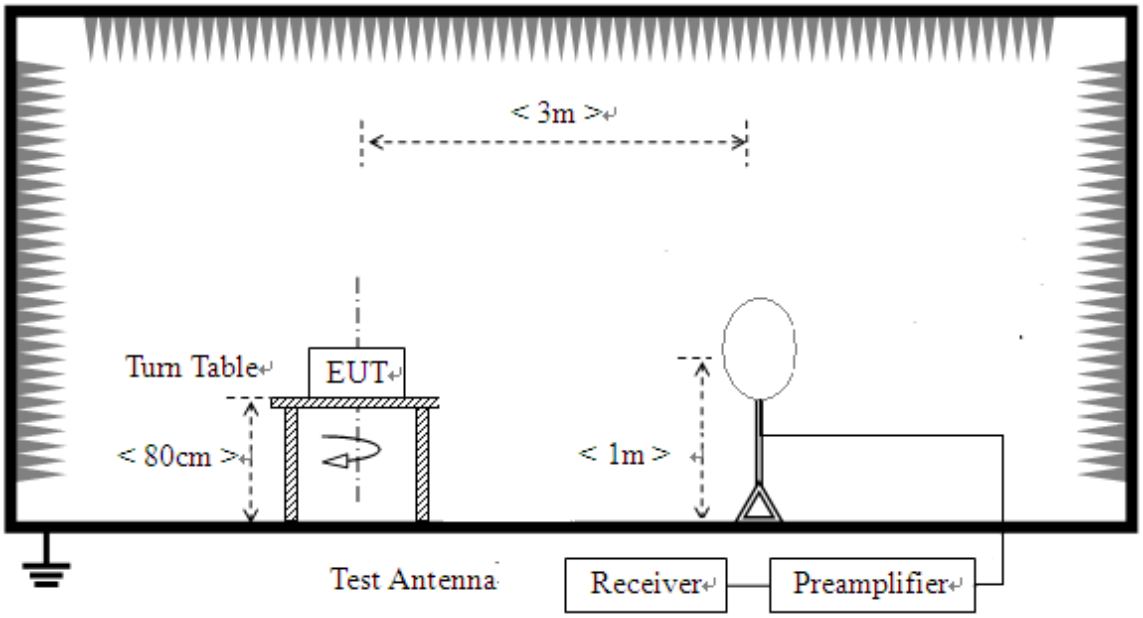
Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

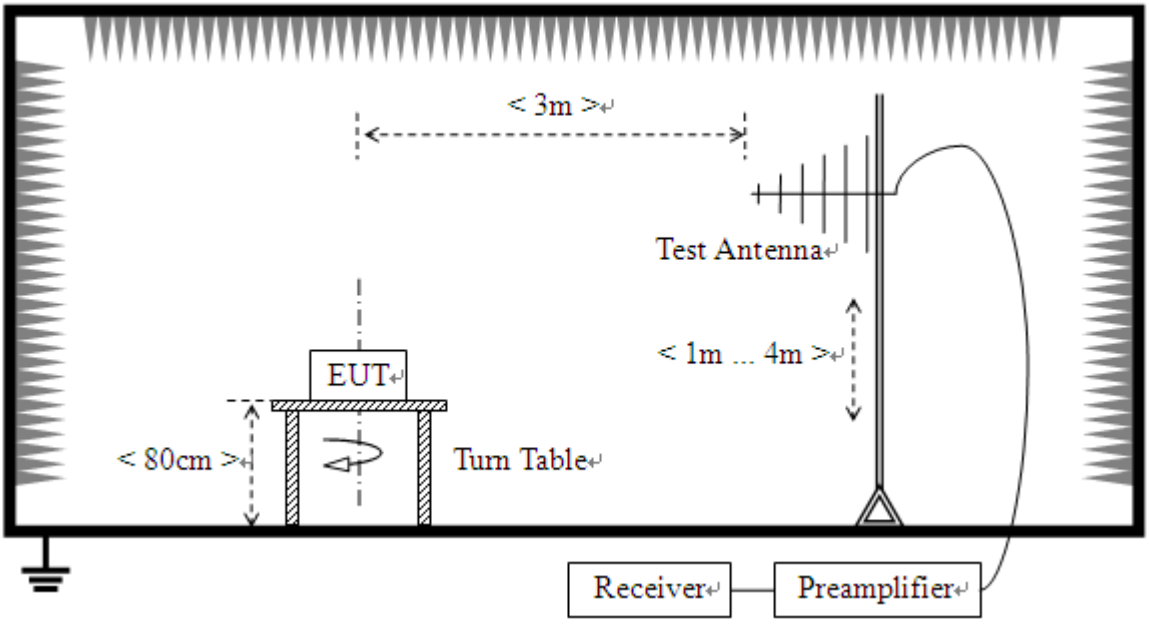
2.9.2.Test Description

Test Setup:

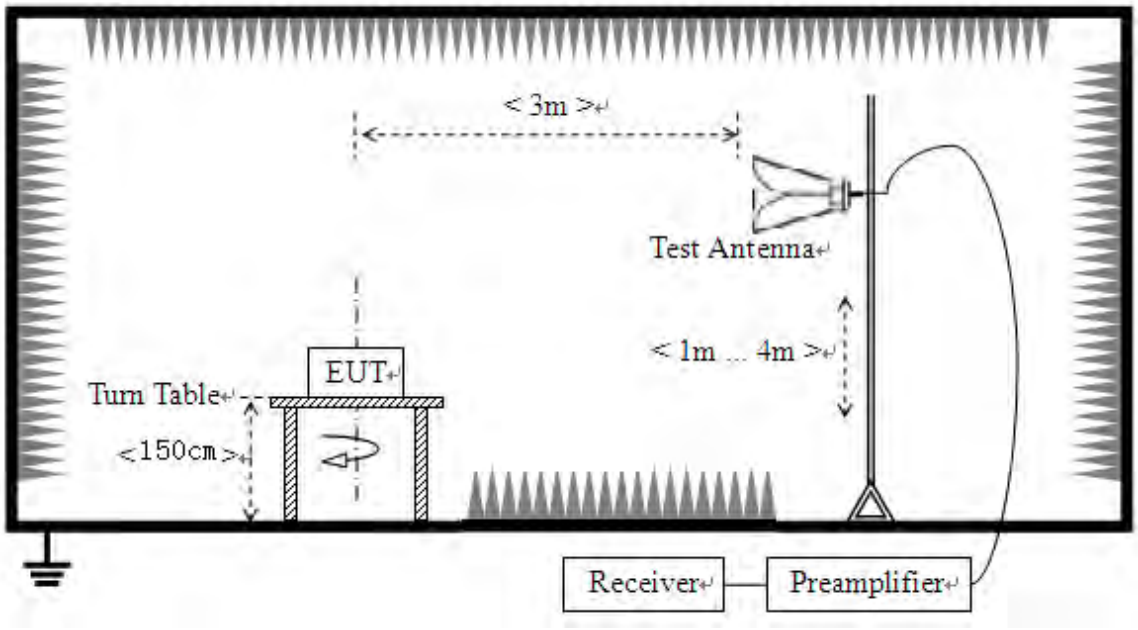
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz.The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

2.9.3.Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

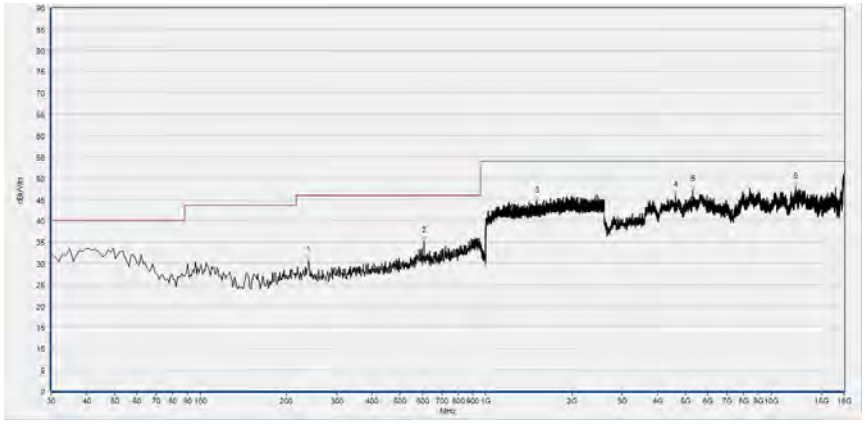
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

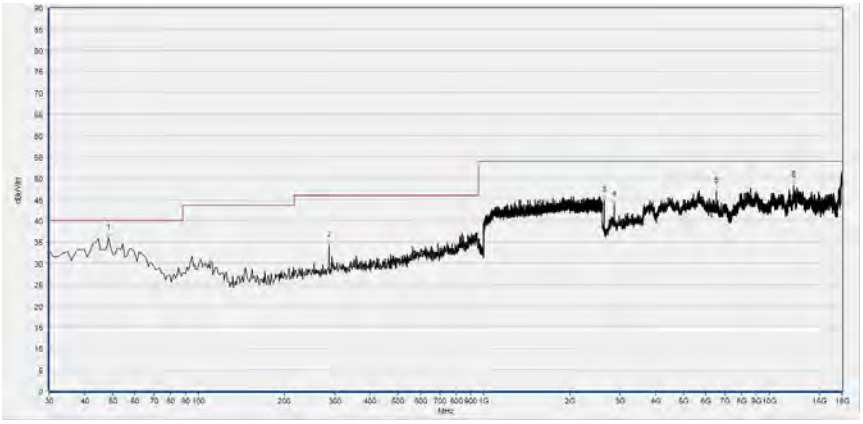
802.11b Mode

Plot for Channel 1



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
239.520	30.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
608.120	35.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1510.933	44.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4626.640	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5319.640	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12141.840	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

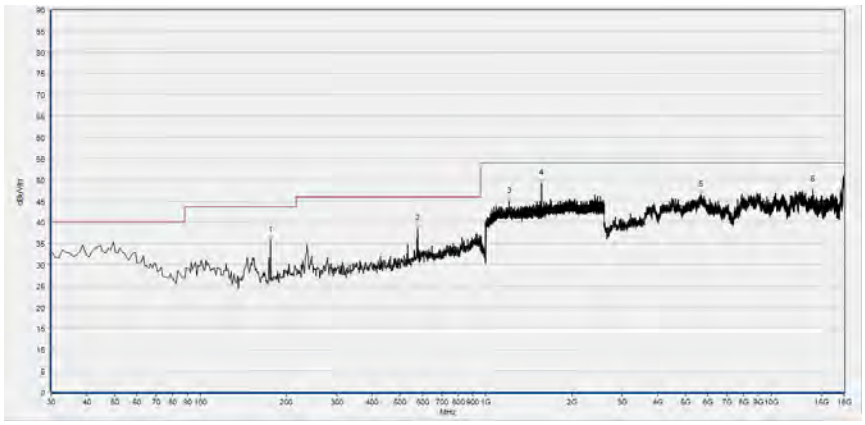
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
48.430	35.95	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
287.050	34.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2633.880	44.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2861.800	43.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6542.400	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12191.120	48.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

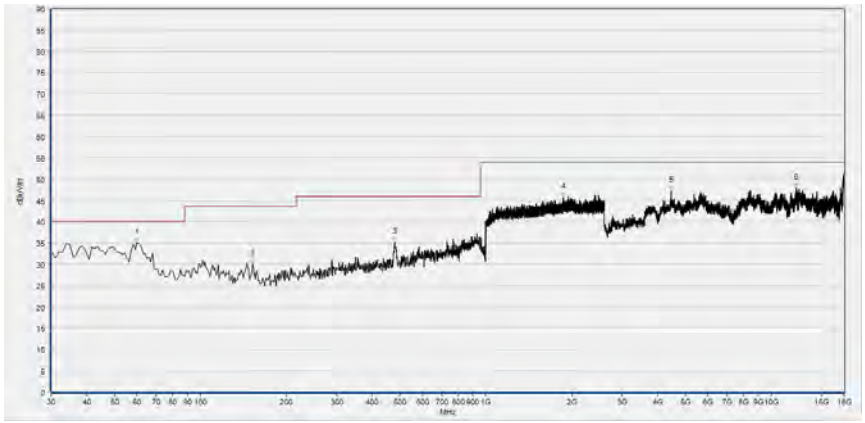
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
176.470	35.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
578.050	38.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1207.467	44.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1567.467	49.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	46.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13999.080	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

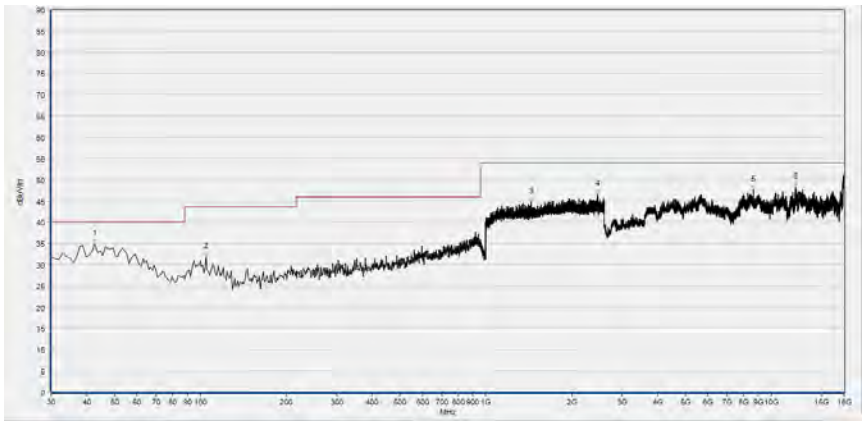
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.070	35.07	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
152.220	29.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
480.080	35.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1868.267	45.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4451.080	47.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12206.520	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

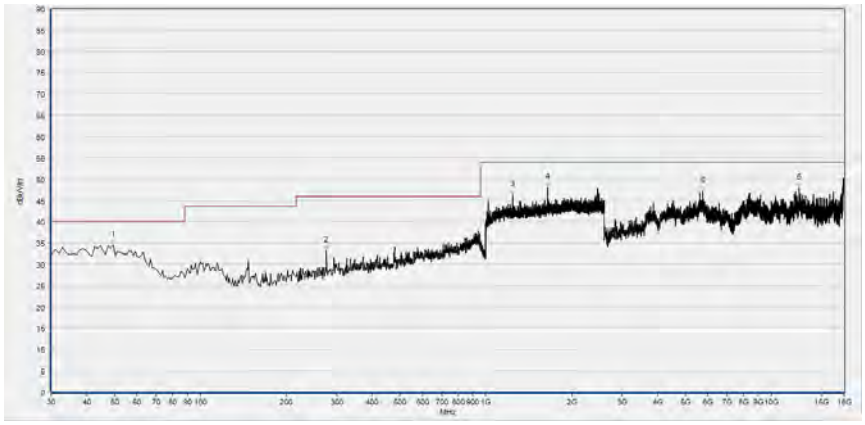
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
42.610	34.78	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.690	31.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1441.067	44.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2462.933	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8667.600	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12144.920	48.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

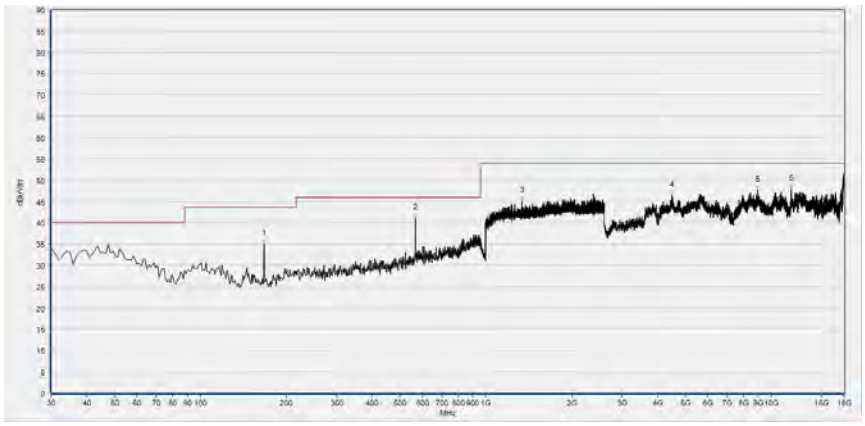


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
49.400	34.47	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
276.380	33.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1244.800	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1651.200	48.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5757.000	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12508.360	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

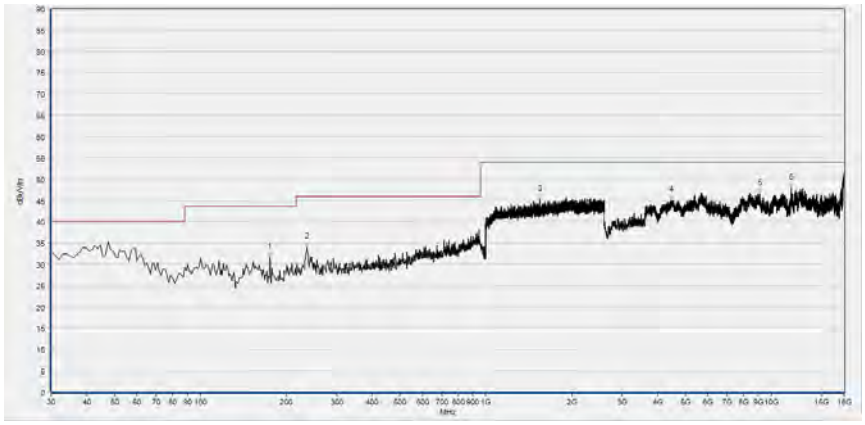
802.11g Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
166.770	35.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
566.410	41.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1340.800	45.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4497.280	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8950.960	47.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11738.360	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

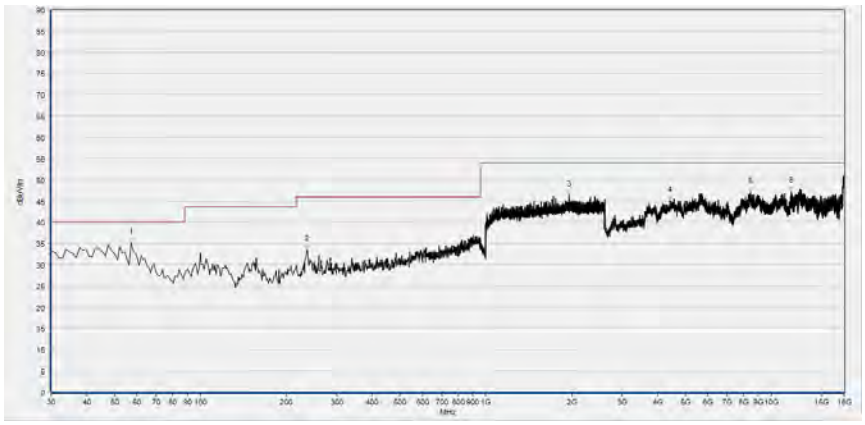
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
174.530	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.610	34.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1548.267	45.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4472.640	45.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9117.280	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11763.000	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

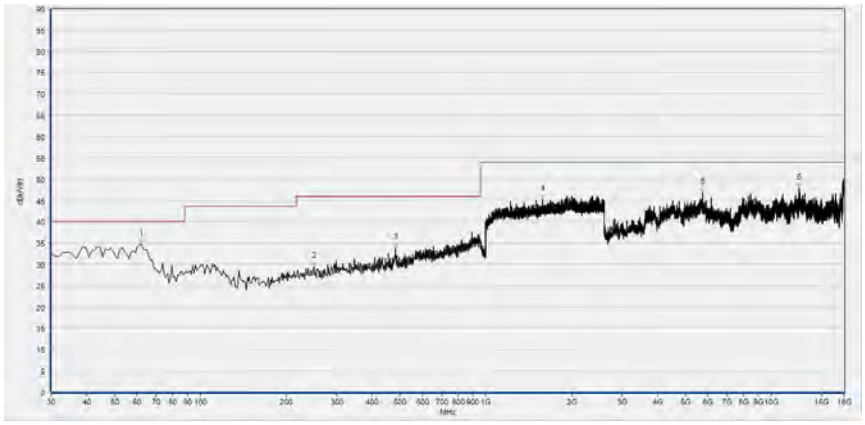
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
57.160	35.12	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
235.640	33.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1955.733	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4423.360	45.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8436.600	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11741.440	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

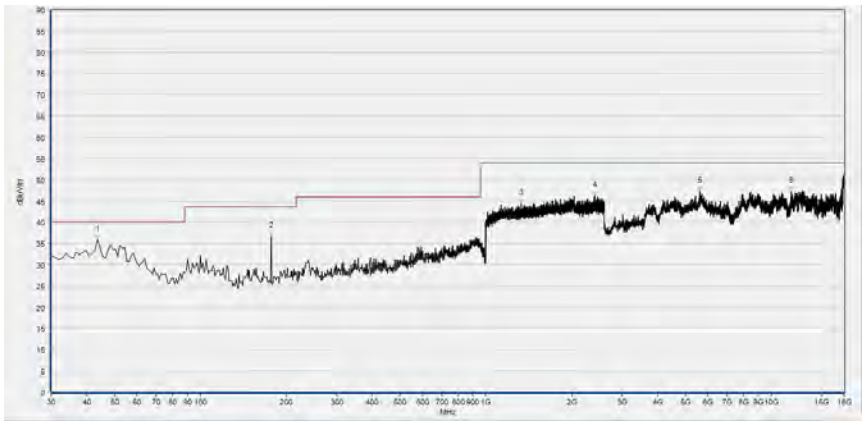
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
62.010	34.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
250.190	29.53	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
482.020	33.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1577.067	45.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	46.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12526.840	47.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

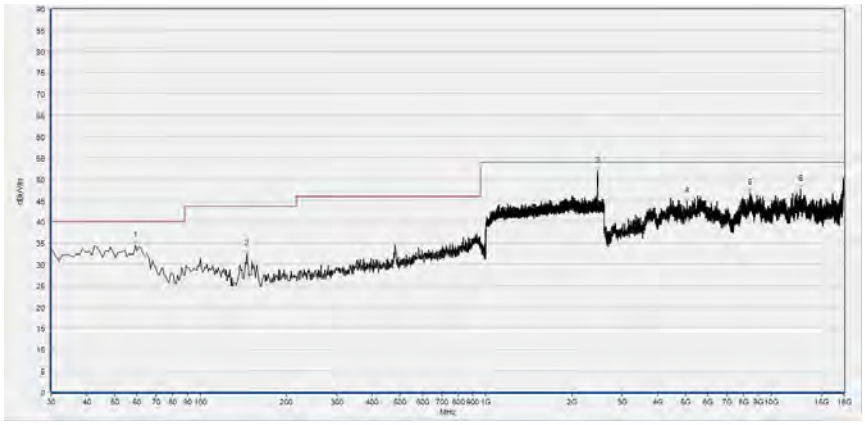
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.580	35.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
177.440	36.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1332.267	44.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2413.867	46.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5606.080	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11741.440	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

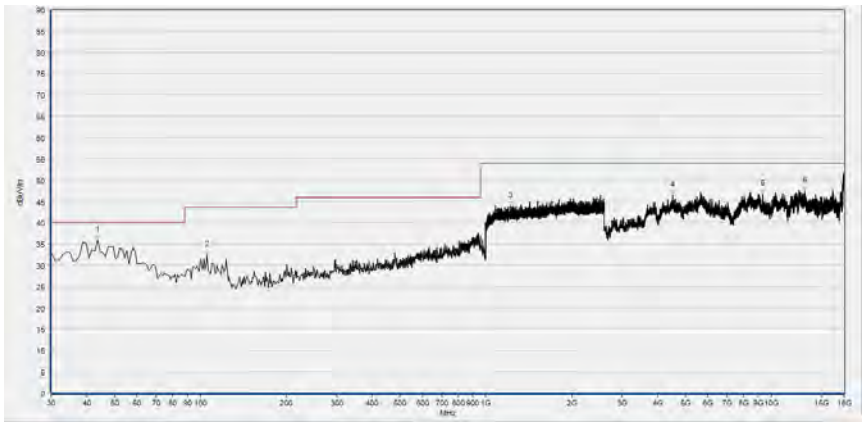


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
59.100	34.40	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
145.430	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2464.533	51.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5073.240	44.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8433.520	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12683.920	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

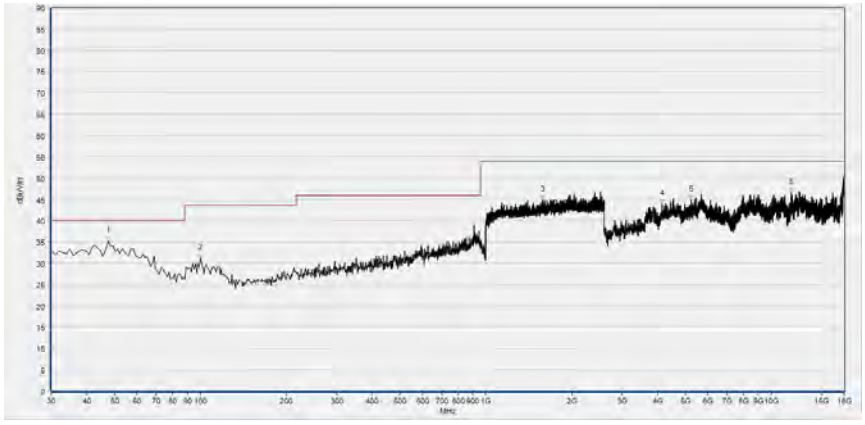
802.11n (HT20) Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.580	35.95	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
105.660	32.36	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1220.267	43.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4521.920	46.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9323.640	46.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13087.400	47.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

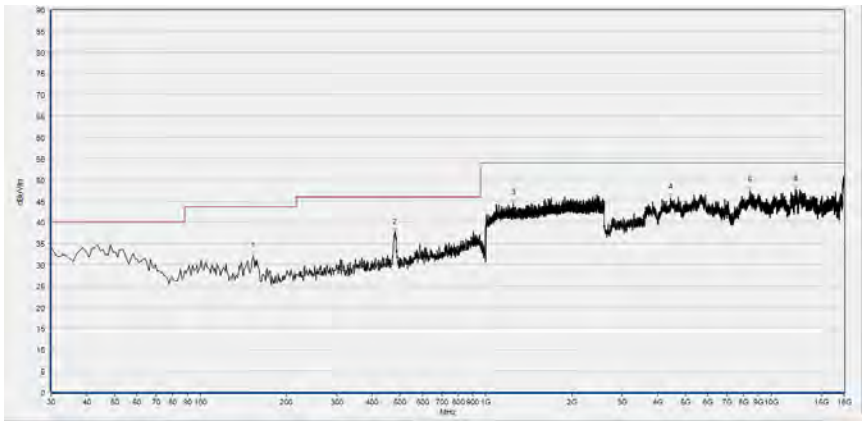
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
47.460	35.18	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.840	31.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1584.533	44.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4152.320	43.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5236.480	44.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11719.880	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

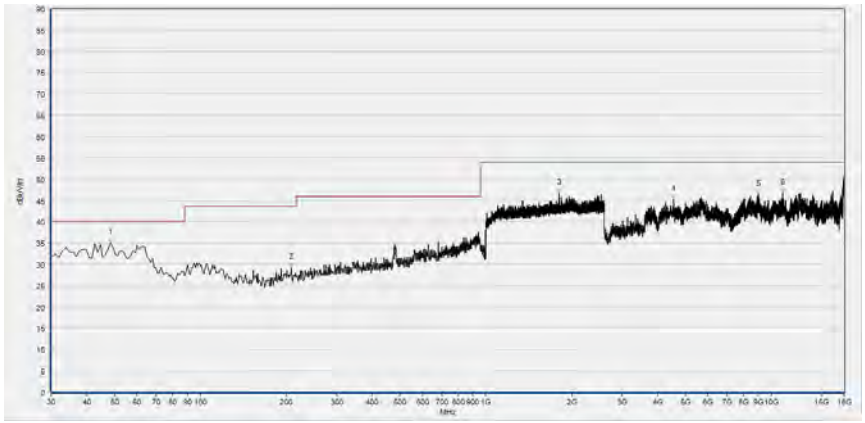
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
153.190	32.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
479.110	37.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1250.667	44.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4444.920	45.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	47.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12166.480	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

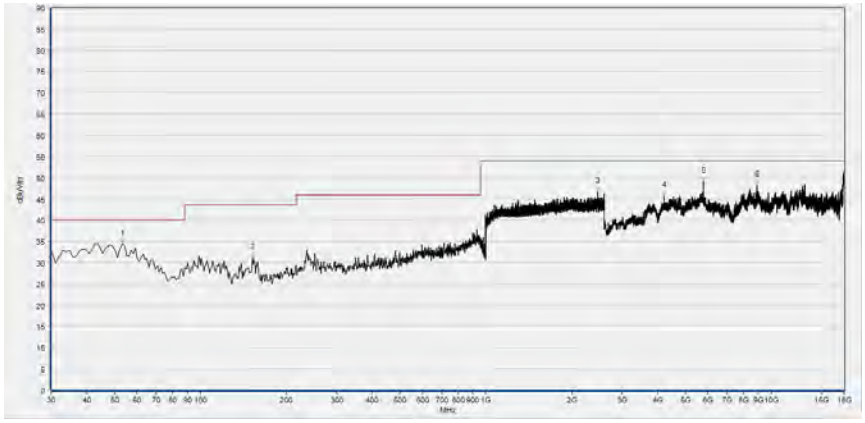
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.430	35.03	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
208.480	29.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1806.400	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4552.720	45.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9027.960	46.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10980.680	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

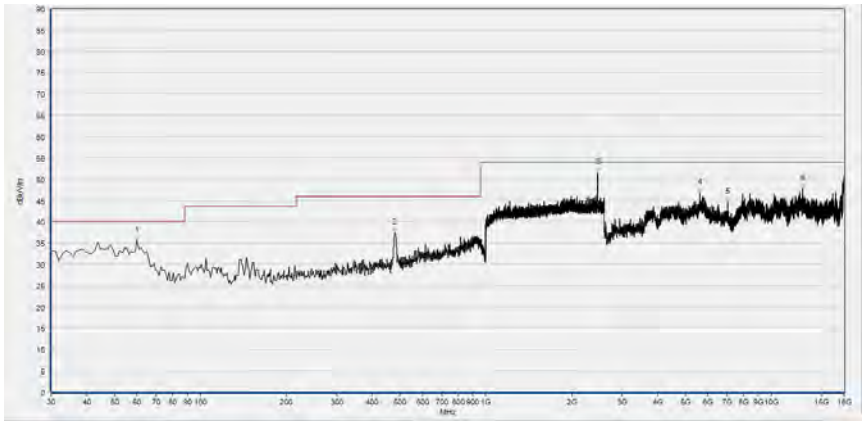
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.280	34.42	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
152.220	31.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2462.933	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4207.760	45.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5778.560	49.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8920.160	48.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

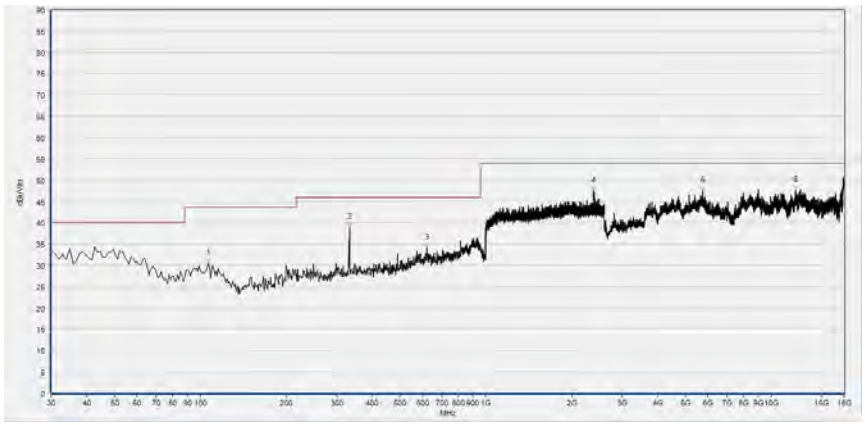


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.070	35.50	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
481.050	37.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2466.667	51.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5630.720	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7029.040	44.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12905.680	47.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

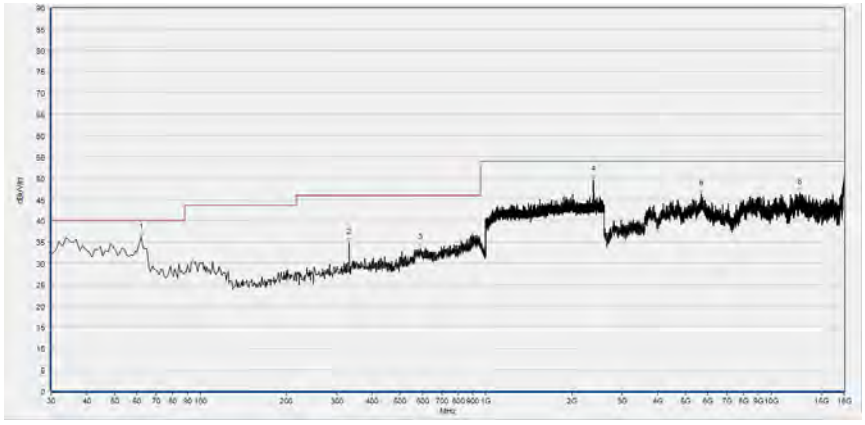
802.11ax (HEW20) Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	30.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
333.610	38.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
621.700	34.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2386.133	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	47.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12141.840	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

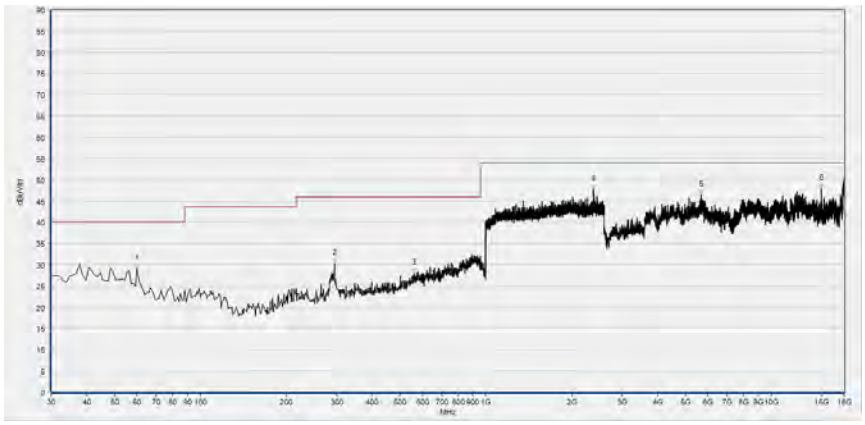
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
62.010	36.03	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
332.640	34.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
591.630	33.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2387.200	49.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5689.240	46.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12566.880	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

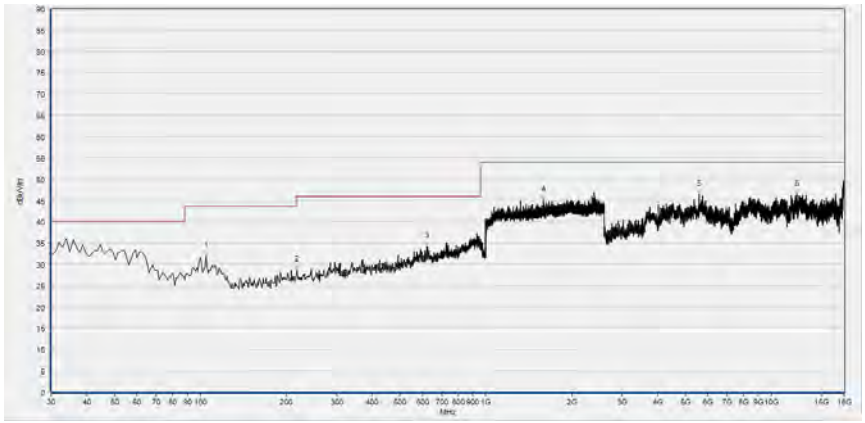
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.070	29.00	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
294.810	30.29	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
561.560	27.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2385.600	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5689.240	46.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
15009.320	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

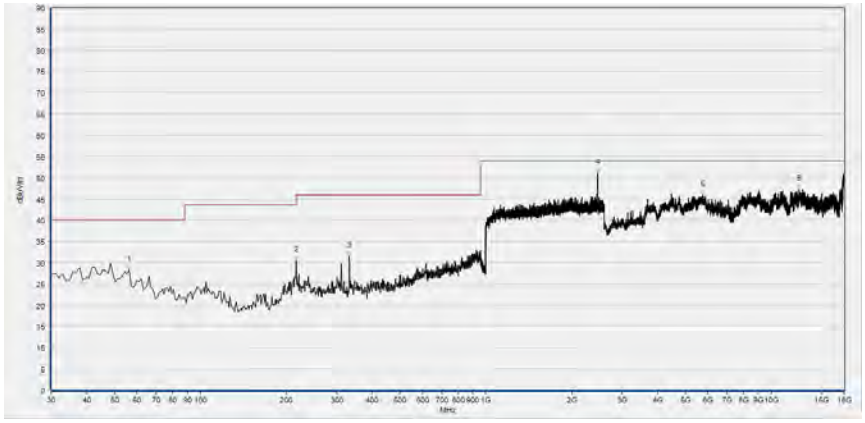
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	31.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
218.180	28.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
620.730	34.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1589.333	45.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5581.440	46.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12323.560	46.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

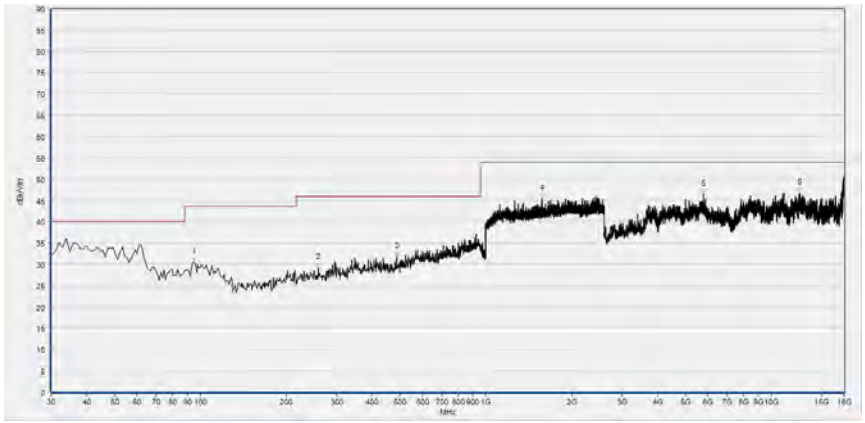
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
56.190	28.39	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
216.240	30.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
332.640	31.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2465.600	51.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	45.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12486.800	47.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

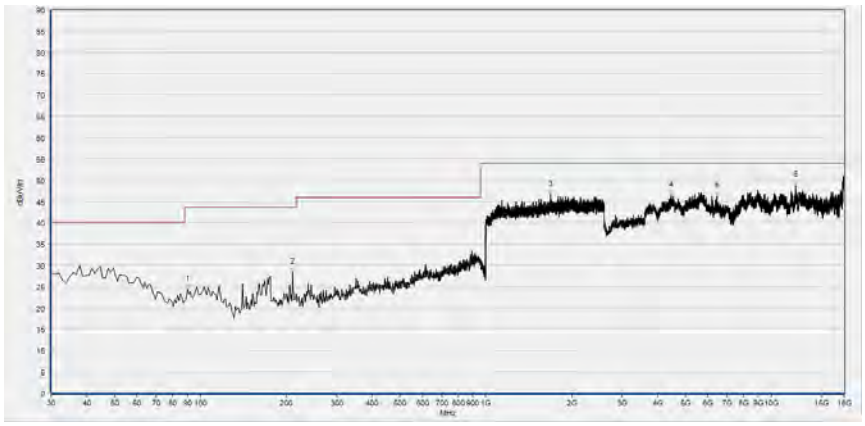


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.990	30.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
258.920	29.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
486.870	31.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1574.933	45.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5784.720	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12563.800	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

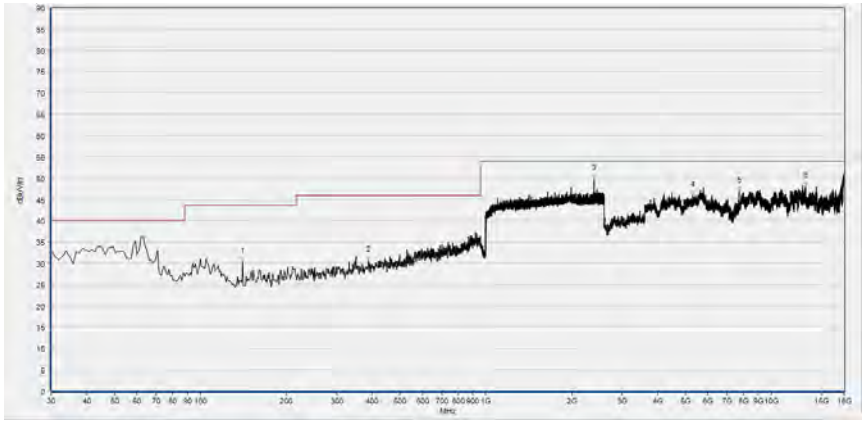
802.11ax (HEW20)(RU26) Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.140	24.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
210.420	28.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1681.067	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4460.320	46.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6434.600	46.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12197.280	48.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

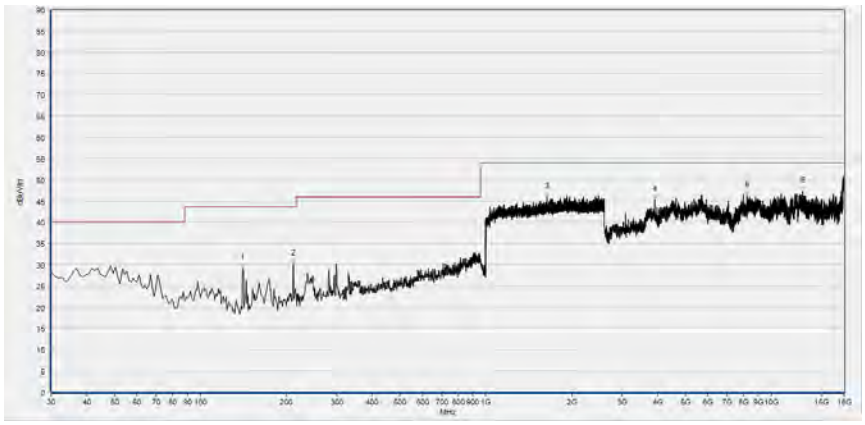
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
140.580	30.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
387.930	30.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2390.933	49.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5307.320	45.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7725.120	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13207.520	48.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

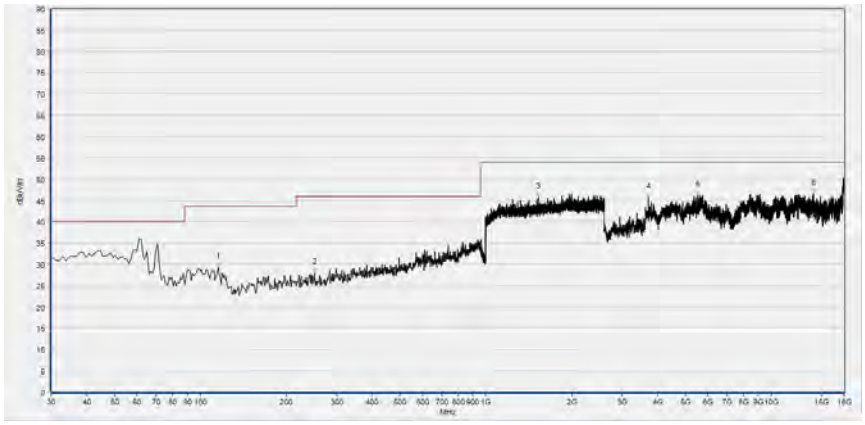
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
140.580	29.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
211.390	30.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1641.600	45.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3905.920	45.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8221.000	46.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12890.280	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

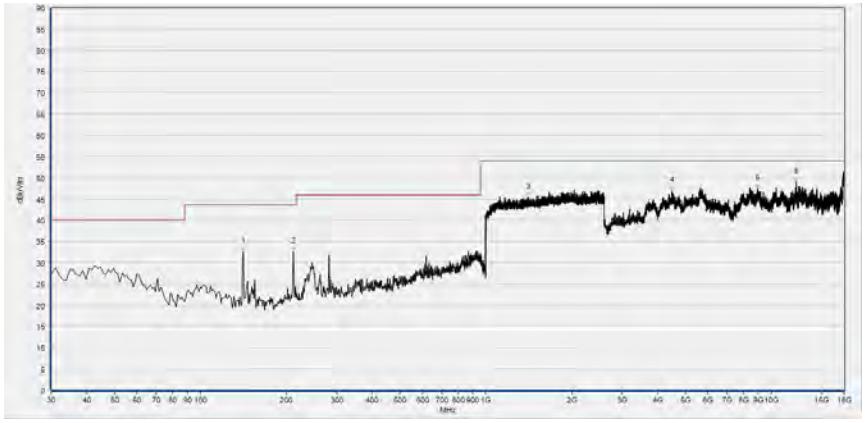
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.360	29.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
251.160	28.07	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1531.733	45.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3711.880	45.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5519.840	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14060.680	46.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

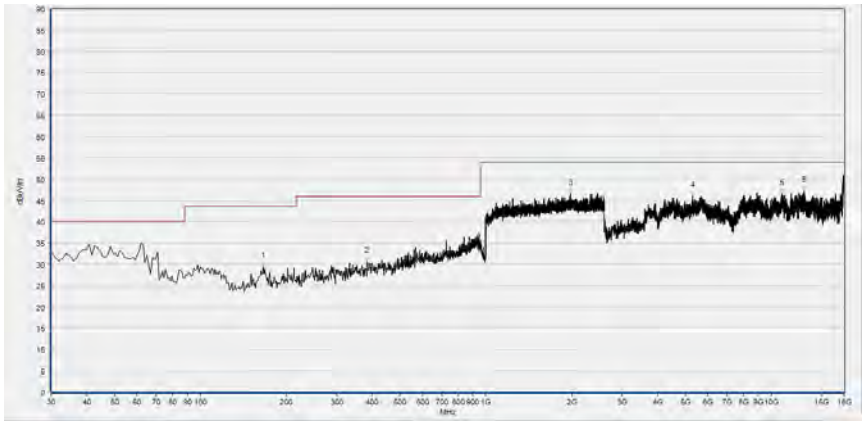
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
141.550	32.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
211.390	32.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1405.333	45.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4494.200	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8938.640	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12203.440	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

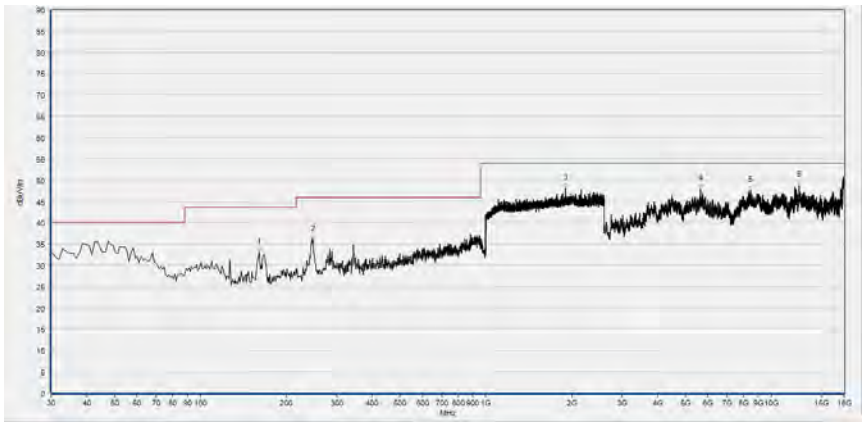


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
165.800	29.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
384.050	30.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1977.067	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5304.240	46.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10931.400	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13047.360	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

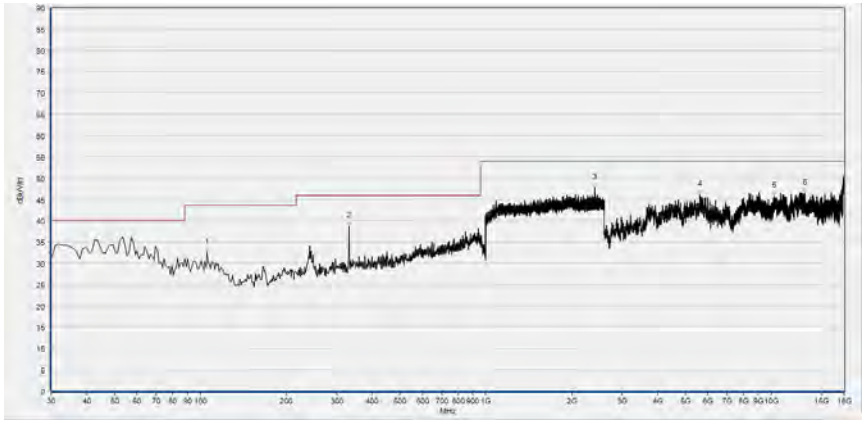
802.11ax (HEW20)(RU52) Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
160.950	33.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
248.250	35.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1899.200	48.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5658.440	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8448.920	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12523.760	48.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

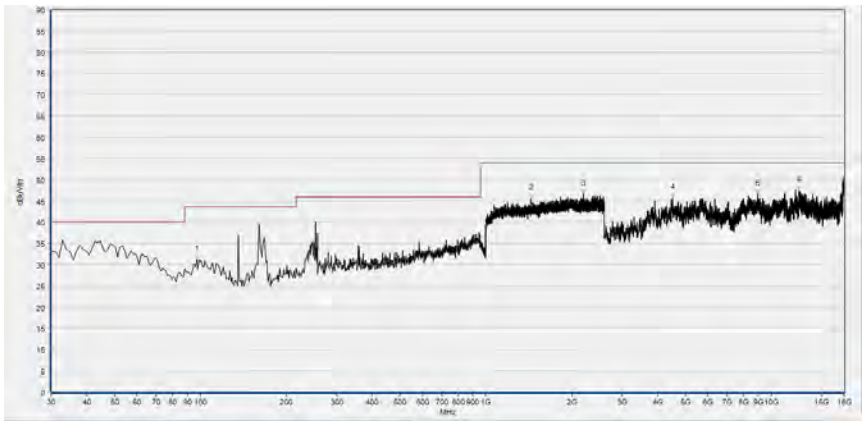
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
332.640	38.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2405.867	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5627.640	46.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10229.160	45.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13075.080	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

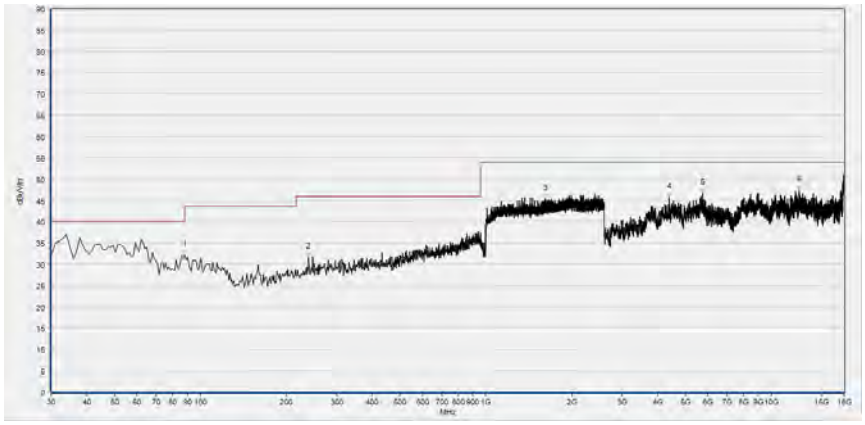
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	31.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1438.400	45.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2191.467	46.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4515.760	45.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8978.680	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12523.760	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

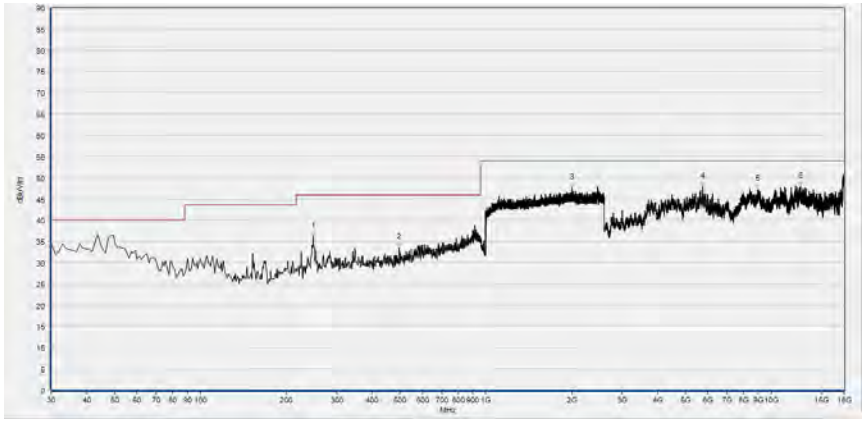
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
88.200	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.520	31.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1613.867	45.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4395.640	45.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5738.520	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12511.440	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

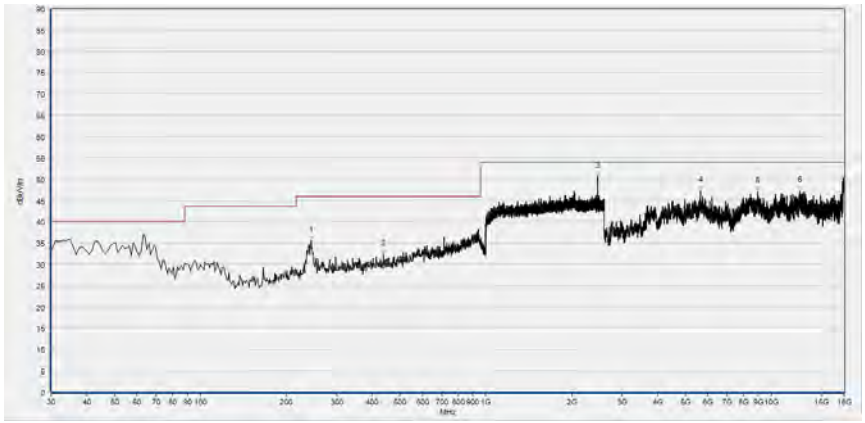
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
248.250	36.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
497.540	33.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2000.000	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8981.760	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12637.720	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

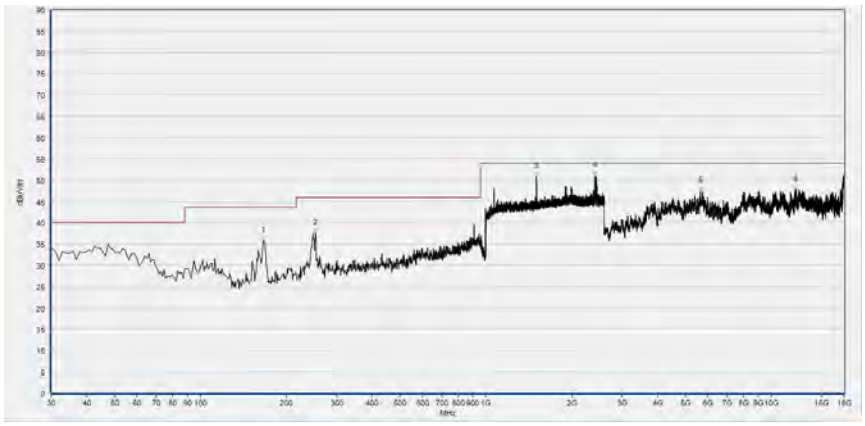


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
244.370	35.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
438.370	32.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2469.333	50.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8941.720	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12594.600	47.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

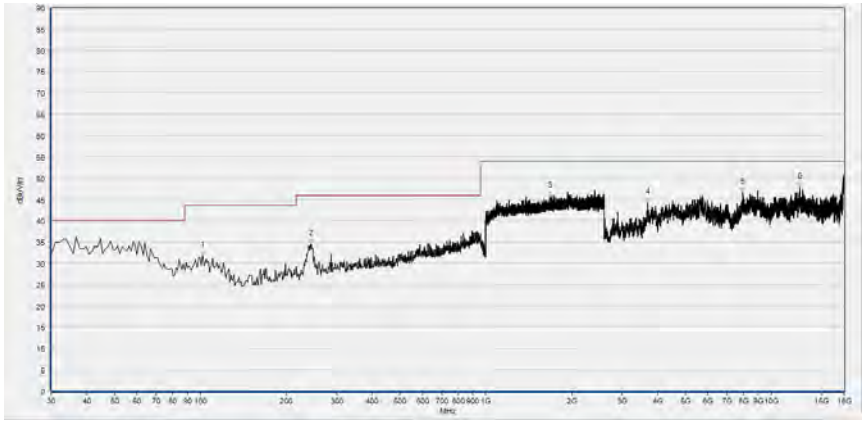
802.11ax (HEW20)(RU106) Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
165.800	35.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
253.100	37.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1505.600	50.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2403.733	50.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5658.440	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12163.400	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

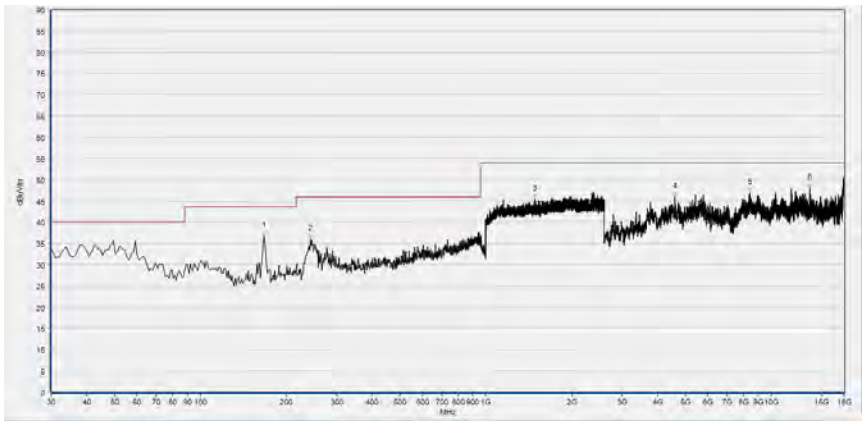
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
244.370	34.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1676.800	45.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3687.240	44.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7962.280	46.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12613.080	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

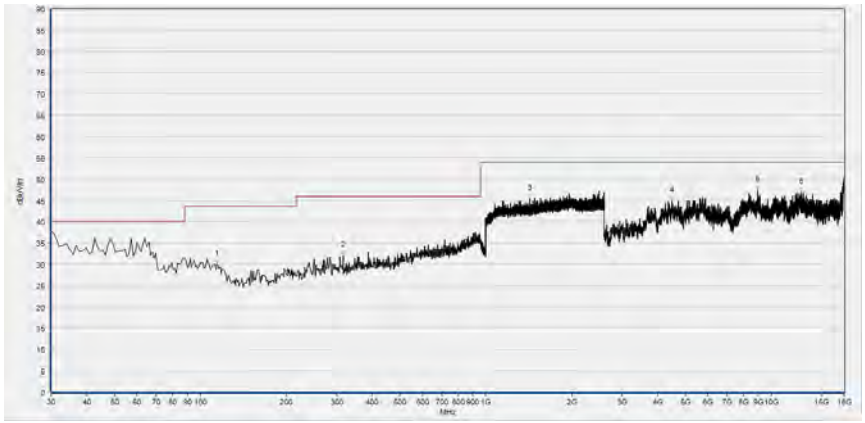
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
166.770	36.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
242.430	36.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1486.400	45.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4589.680	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8418.120	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13611.000	48.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

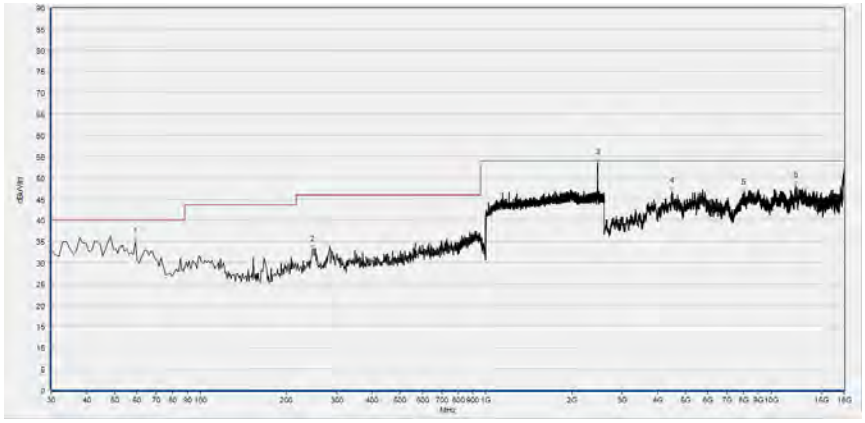
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	30.01	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
316.150	32.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1423.467	45.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4484.960	44.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8969.440	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12730.120	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

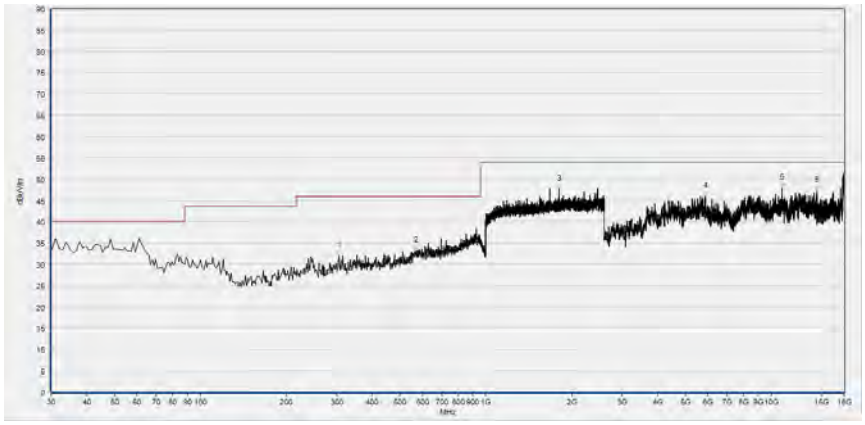
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
59.100	34.87	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
247.280	33.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2467.200	53.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4475.720	46.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7977.680	46.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12169.560	48.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
305.480	32.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
571.260	33.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1806.933	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5870.960	45.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10922.160	47.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14445.680	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Peak Output Power	±2.22dB
Power spectral density (PSD)	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77dB
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

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

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	(N/A.)	10dB	Resent	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2020.04.01	2021.03.31
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2020.04.01	2021.03.31
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2020.03.26	2021.03.25
LISN	812744	NSLK 8127	Schwarzbeck	2020.03.26	2021.03.25
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2020.07.24	2021.07.23
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
Adapter	J5164200005	AK933JH	OPPO	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test system	Townsend	V2.6
Power Panel	Agilent	V3.8
MORLAB EMCR V1.2	MORLAB	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

4.4 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2020.07.21	2021.07.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna – Horn	BBHA9170 #774	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9kHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2020.07.21	2021.07.20
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2020.07.21	2021.07.20
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2020.07.21	2021.07.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

END OF REPORT