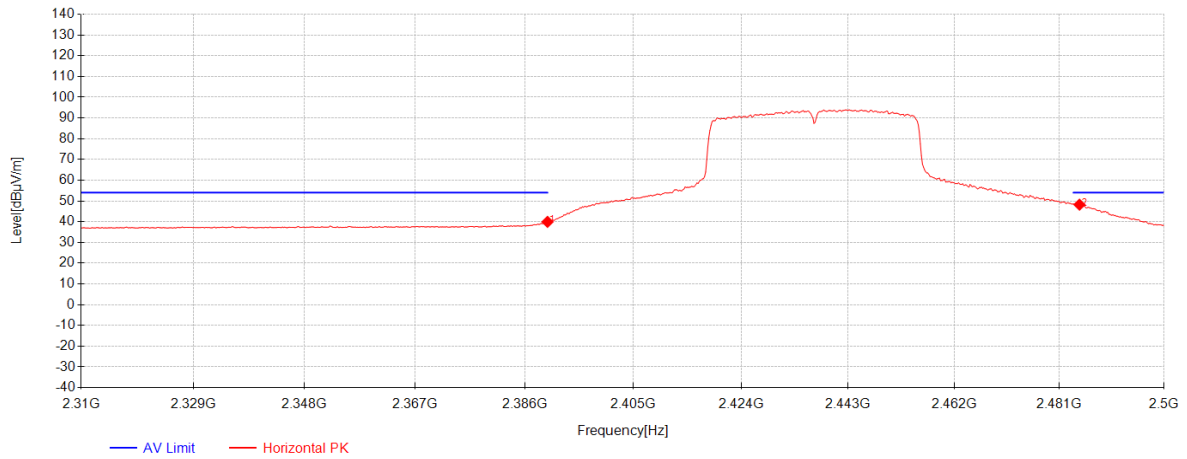
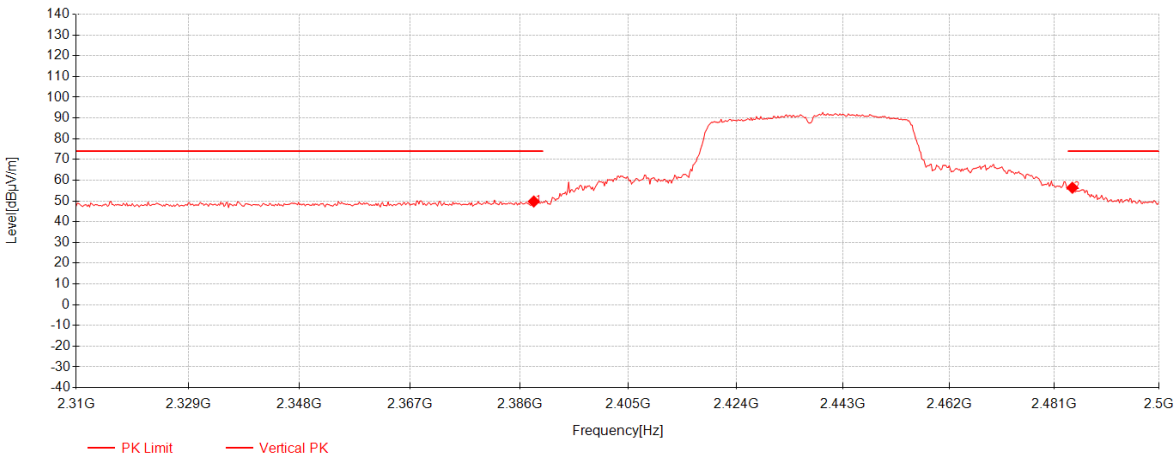


11n(HT40)_TX_CH_06_Horizontal_Average



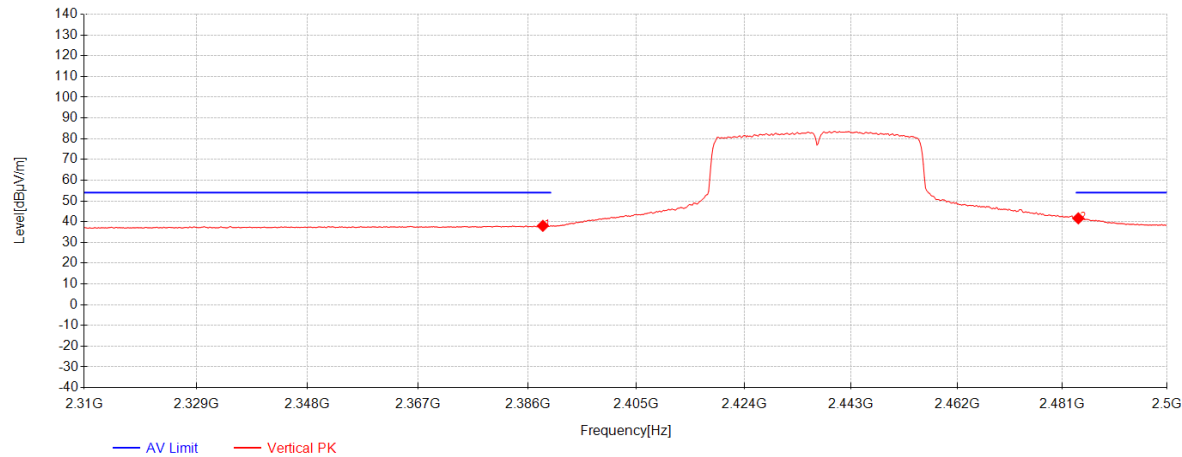
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.99	37.45	27.29	-24.82	39.92	54.00	14.08	Horizontal
2	2484.61	45.30	27.56	-24.63	48.22	54.00	5.78	Horizontal

11n(HT40)_TX_CH_06_Vetical_Peak



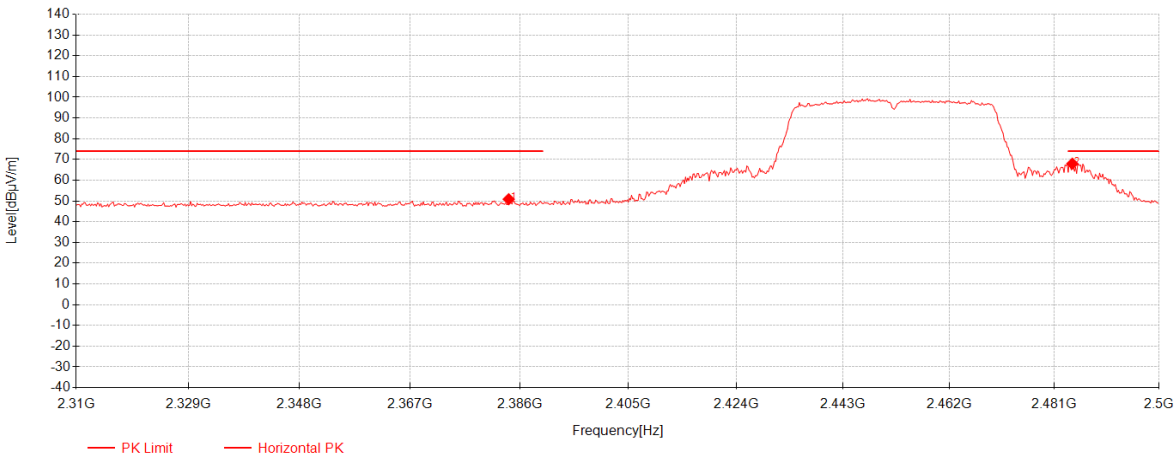
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.47	47.27	27.29	-24.82	49.74	74.00	24.26	Vertical
2	2484.23	53.44	27.56	-24.63	56.36	74.00	17.64	Vertical

11n(HT40)_TX_CH_06_Vetical_Average



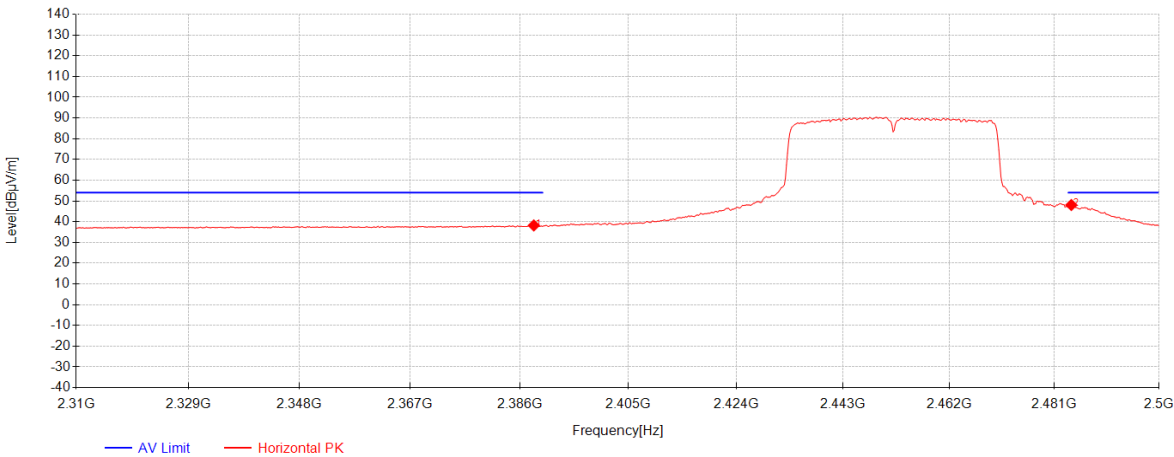
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.66	35.54	27.29	-24.82	38.01	54.00	15.99	Vertical
2	2483.85	38.71	27.55	-24.63	41.63	54.00	12.37	Vertical

11n(HT40)_TX_CH_09_Horizontal_Peak



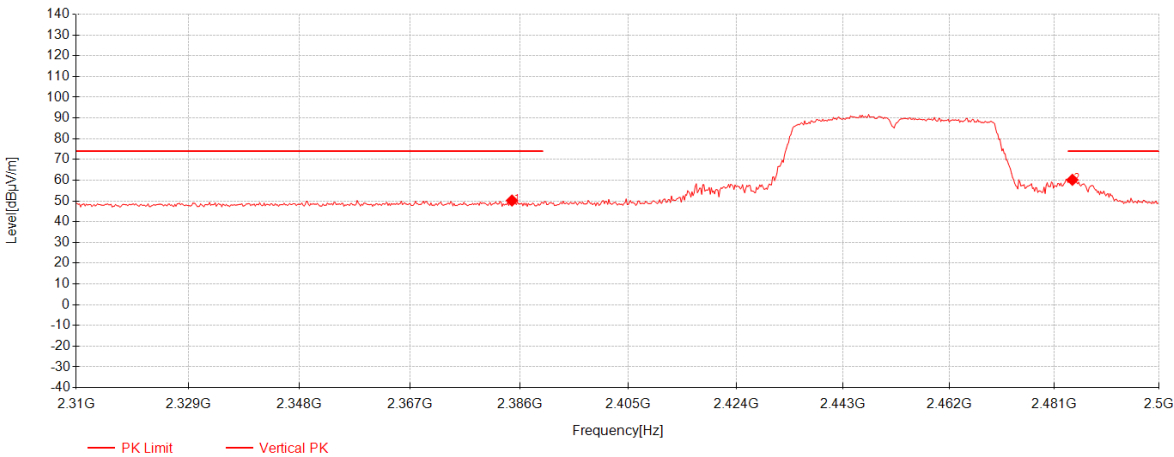
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.1	48.40	27.28	-24.82	50.85	74.00	23.15	Horizontal
2	2484.23	65.06	27.56	-24.63	67.98	74.00	6.02	Horizontal

11n(HT40)_TX_CH_09_Horizontal_Average



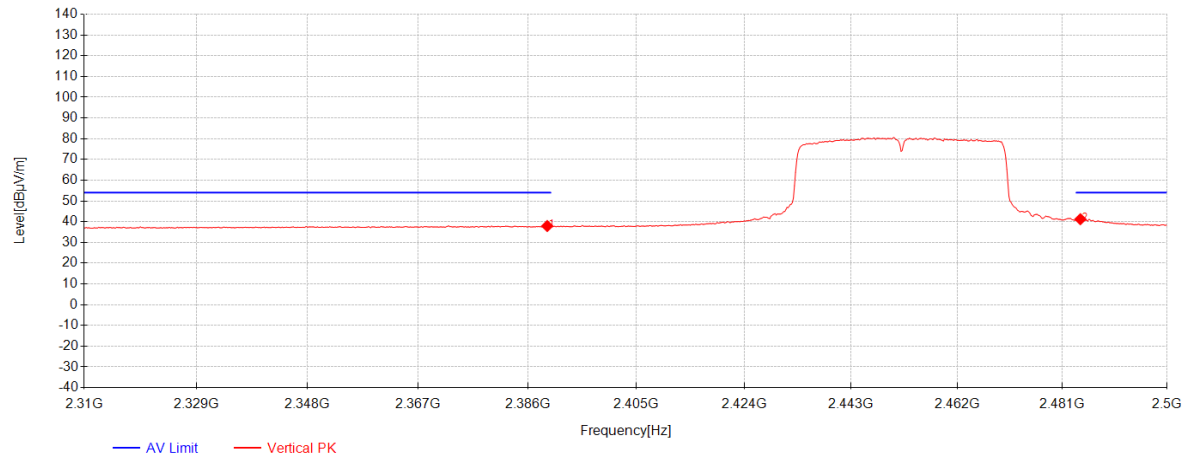
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.47	35.73	27.29	-24.82	38.20	54.00	15.80	Horizontal
2	2484.04	45.13	27.56	-24.63	48.05	54.00	5.95	Horizontal

11n(HT40)_TX_CH_09_Vetical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.67	47.76	27.28	-24.82	50.22	74.00	23.78	Vertical
2	2484.23	57.27	27.56	-24.63	60.19	74.00	13.81	Vertical

11n(HT40)_TX_CH_09_Vetical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.42	35.46	27.29	-24.82	37.93	54.00	16.07	Vertical
2	2484.23	38.28	27.56	-24.63	41.20	54.00	12.80	Vertical

7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

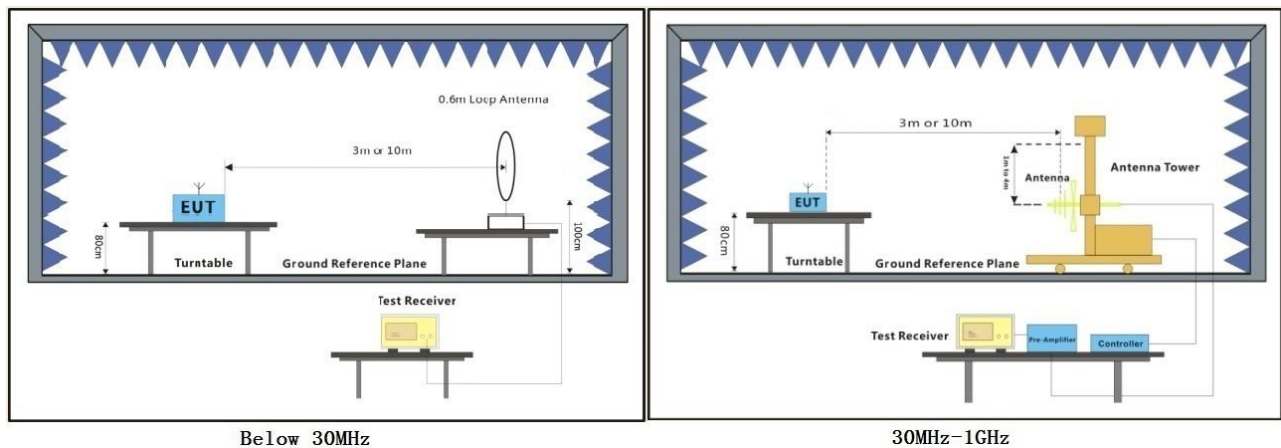
Humidity: 45 % RH

Atmospheric Pressure: 1024 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



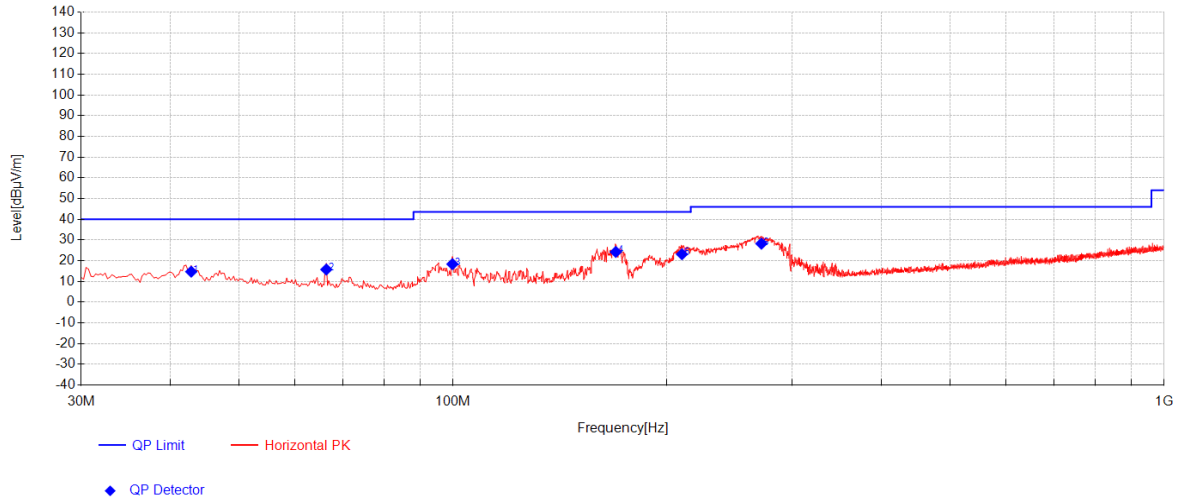
7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

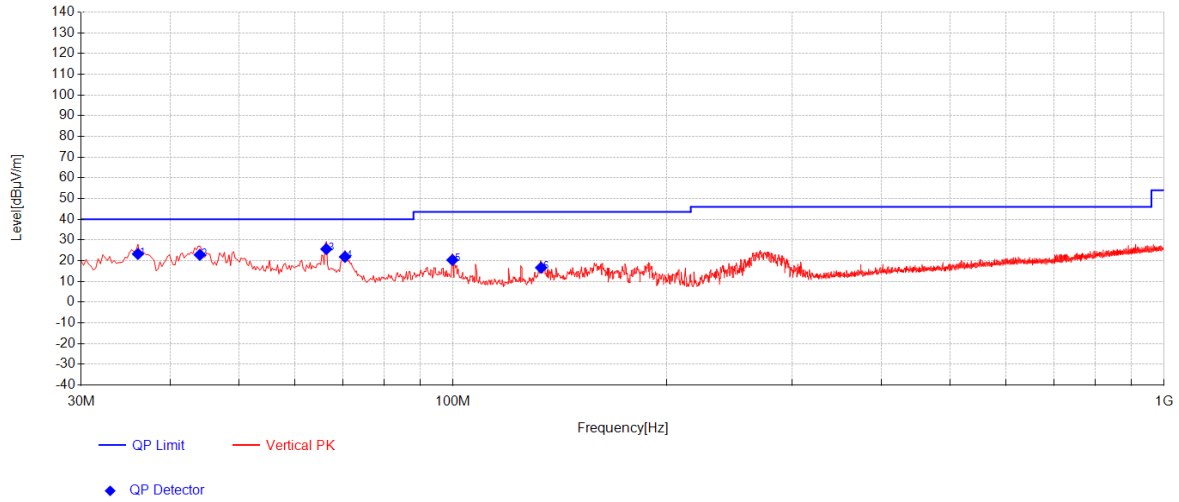
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

11n(HT20)_TX_CH_11_Horizontal



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8525	35.22	13.29	-33.81	14.69	40.00	25.31	154	19	Horizontal
2	66.375	38.24	10.96	-33.47	15.73	40.00	24.27	195	19	Horizontal
3	99.84	42.27	9.20	-33.13	18.34	43.50	25.16	165	189	Horizontal
4	169.4375	44.83	11.81	-32.43	24.21	43.50	19.29	174	290	Horizontal
5	209.935	45.19	10.10	-32.17	23.12	43.50	20.38	158	165	Horizontal
6	271.53	47.91	12.10	-31.79	28.22	46.00	17.78	132	19	Horizontal

11n(HT20)_TX_CH_11_Vertical



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.0625	44.27	12.89	-33.93	23.23	40.00	16.77	157	125	Vertical
2	44.065	43.29	13.32	-33.79	22.82	40.00	17.18	196	134	Vertical
3	66.375	48.11	10.96	-33.47	25.60	40.00	14.40	155	342	Vertical
4	70.4975	45.09	10.16	-33.42	21.83	40.00	18.17	136	171	Vertical
5	99.84	44.25	9.20	-33.13	20.32	43.50	23.18	184	248	Vertical
6	133.0625	37.14	12.28	-32.82	16.61	43.50	26.89	128	234	Vertical

7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

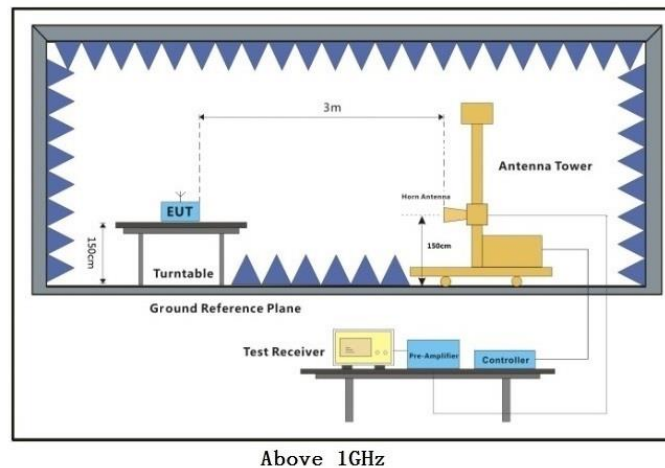
Humidity: 46 % RH

Atmospheric Pressure: 1024 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



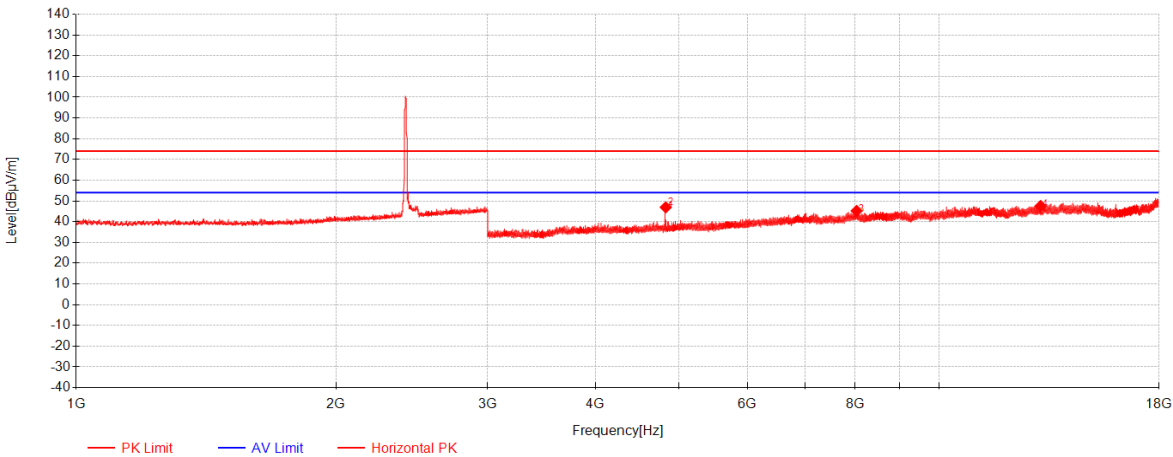
7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

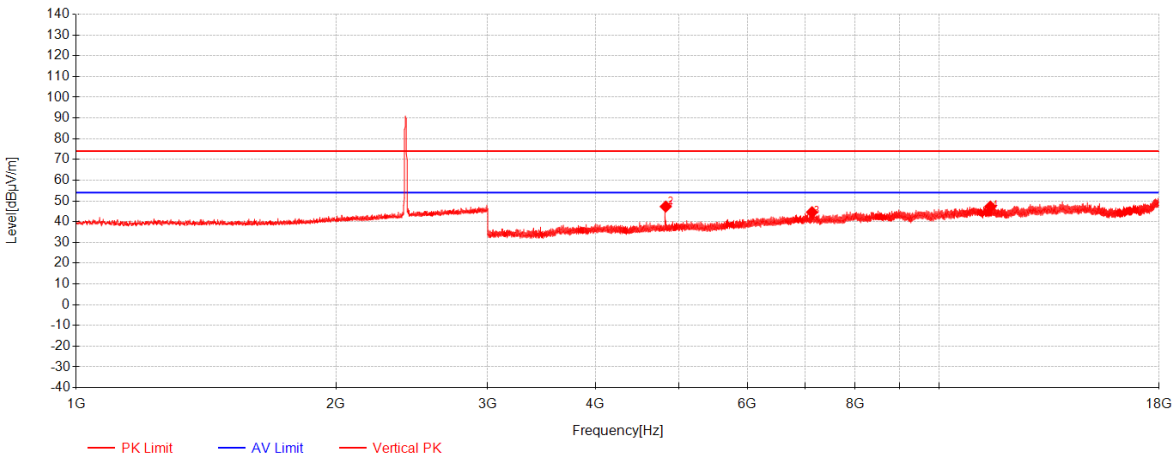
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq$ 98%) for Average detection (AV) at frequency above 1GHz.

11b_TX_CH_01_Horizontal



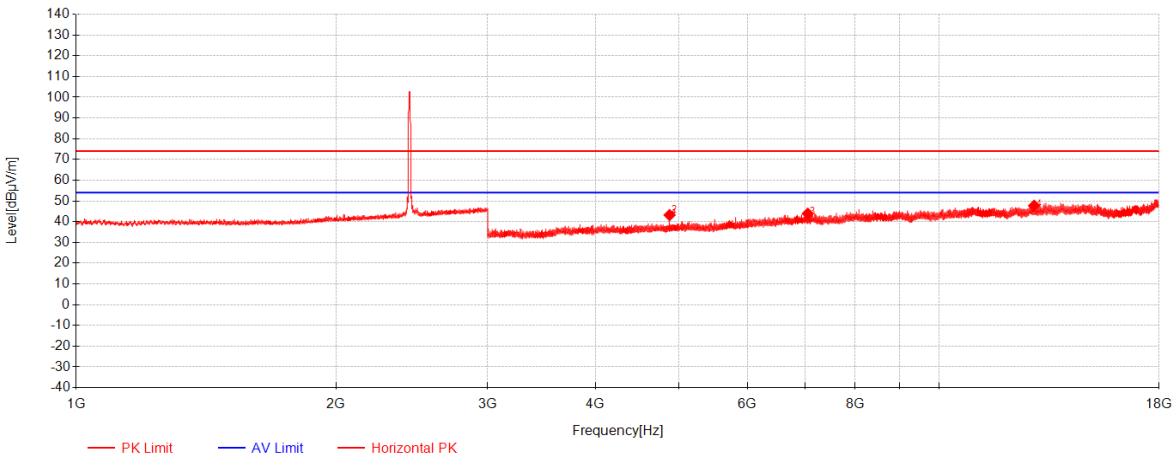
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.375	59.34	32.68	-45.09	46.93	54.00	7.07	Horizontal
2	4824	60.94	32.68	-45.09	48.53	74.00	25.47	Horizontal
3	8029.875	49.09	37.32	-41.18	45.23	74.00	28.77	Horizontal
4	13118.25	42.55	39.96	-34.92	47.59	74.00	26.41	Horizontal

11b_TX_CH_01_Vertical



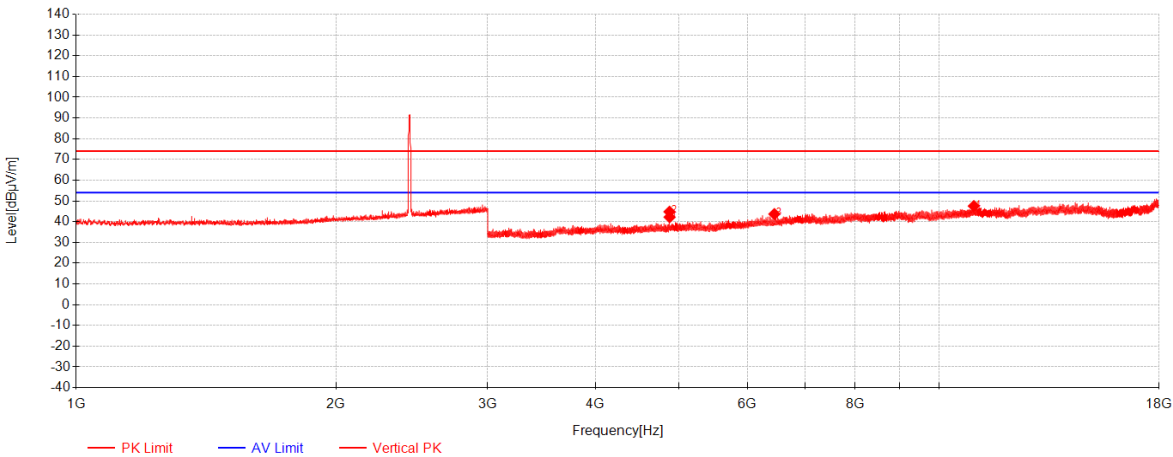
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.375	59.72	32.68	-45.09	47.31	54.00	6.69	Vertical
2	4824	61.28	32.68	-45.09	48.87	74.00	25.13	Vertical
3	7128	50.86	36.30	-42.59	44.57	74.00	29.43	Vertical
4	11473.875	44.30	39.02	-36.03	47.29	74.00	26.71	Vertical

11b_TX_CH_06_Horizontal



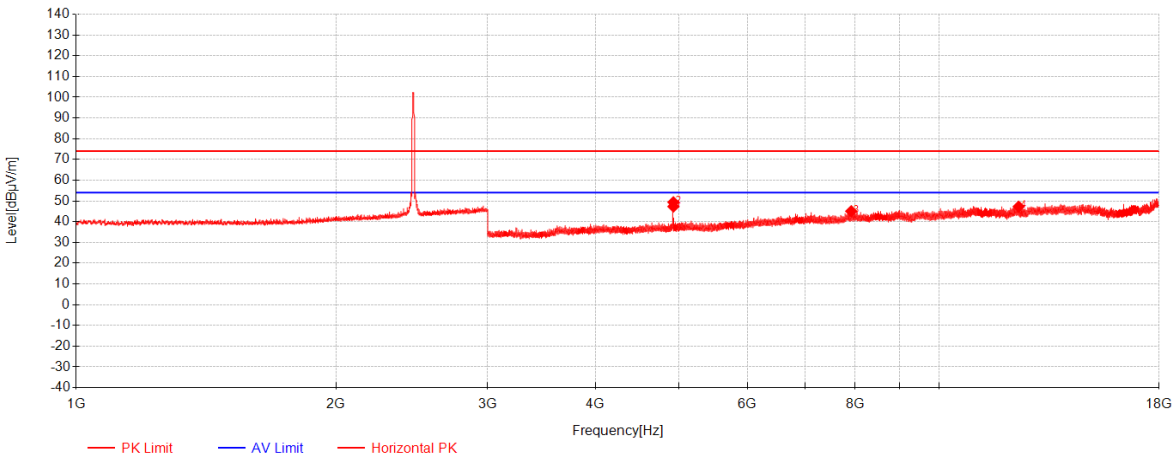
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.25	55.32	32.80	-44.92	43.20	54.00	10.80	Horizontal
2	4873.875	56.85	32.80	-44.92	44.73	74.00	29.27	Horizontal
3	7048.5	50.53	36.30	-42.92	43.91	74.00	30.09	Horizontal
4	12895.5	43.28	39.77	-35.31	47.74	74.00	26.26	Horizontal

11b_TX_CH_06_Vertical



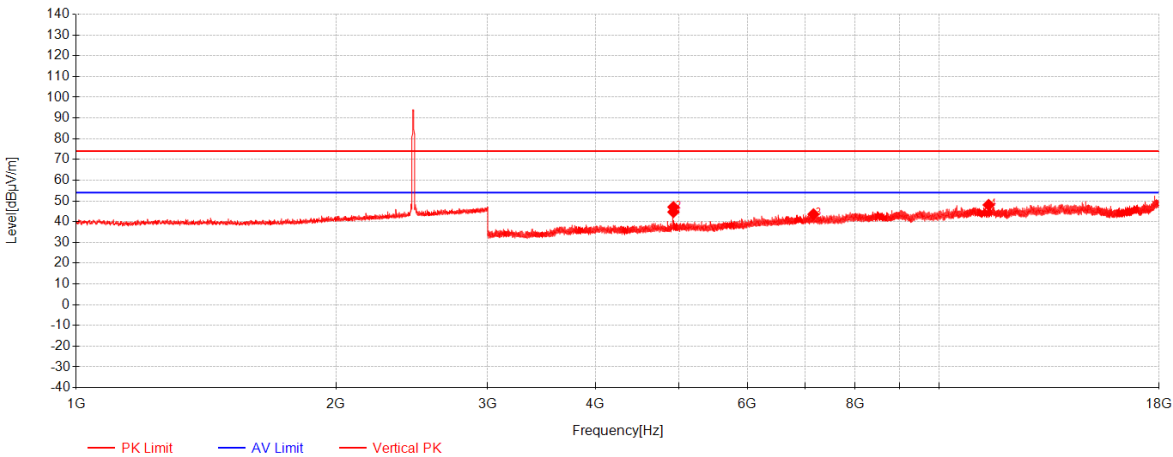
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.25	54.31	32.80	-44.92	42.19	54.00	11.81	Vertical
2	4873.875	56.92	32.80	-44.92	44.80	74.00	29.20	Vertical
3	6447	51.91	35.39	-43.61	43.69	74.00	30.31	Vertical
4	10978.5	44.40	39.27	-36.13	47.55	74.00	26.45	Vertical

11b_TX_CH_11_Horizontal



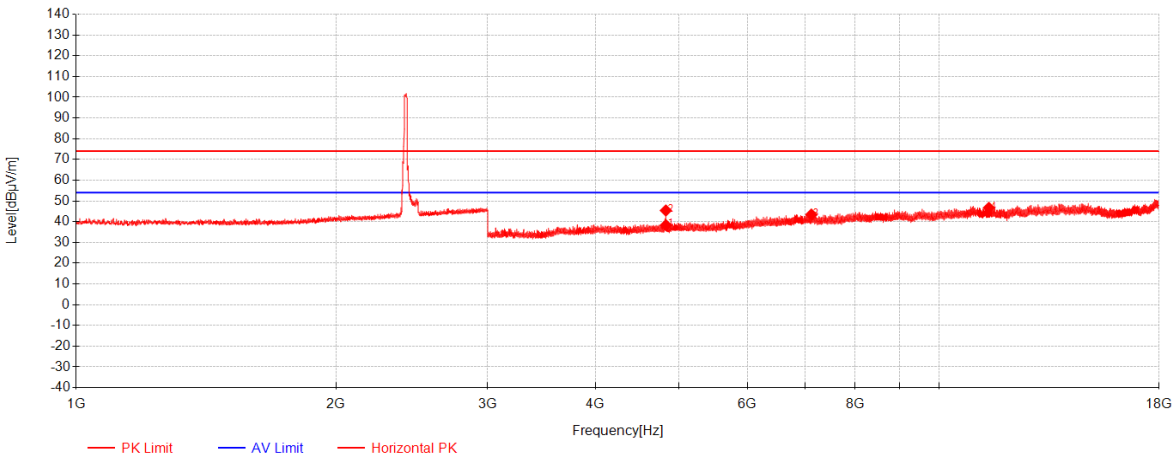
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.5	59.24	32.92	-44.84	47.32	54.00	6.68	Horizontal
2	4924.125	61.30	32.92	-44.84	49.38	74.00	24.62	Horizontal
3	7915.875	49.31	37.13	-41.39	45.05	74.00	28.95	Horizontal
4	12375.75	43.20	39.15	-35.08	47.27	74.00	26.73	Horizontal

11b_TX_CH_11_Vertical



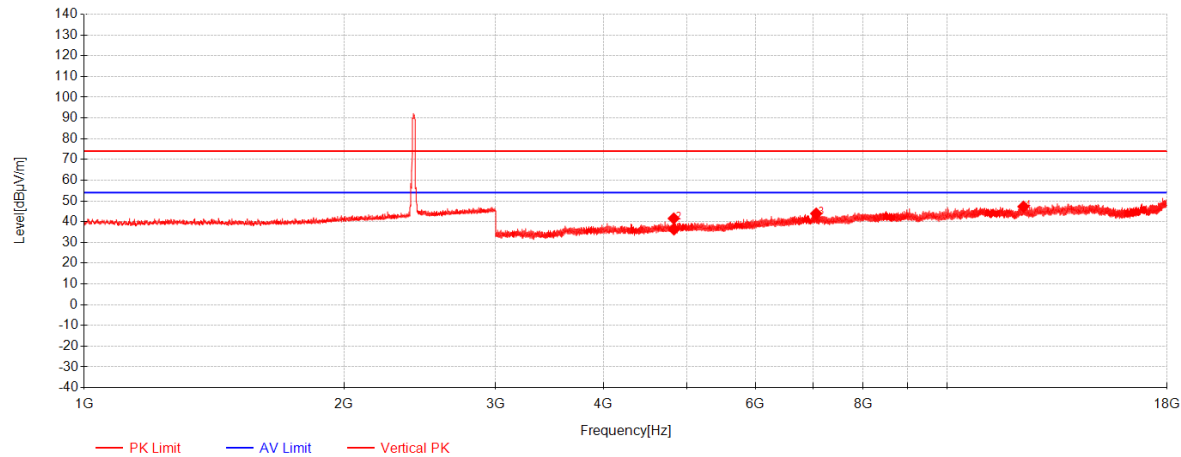
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.5	56.60	32.92	-44.84	44.68	54.00	9.32	Vertical
2	4924.125	58.96	32.92	-44.84	47.04	74.00	26.96	Vertical
3	7156.875	49.87	36.30	-42.59	43.58	74.00	30.42	Vertical
4	11420.25	45.26	39.05	-36.23	48.08	74.00	25.92	Vertical

11n(HT20)_TX_CH_01_Horizontal



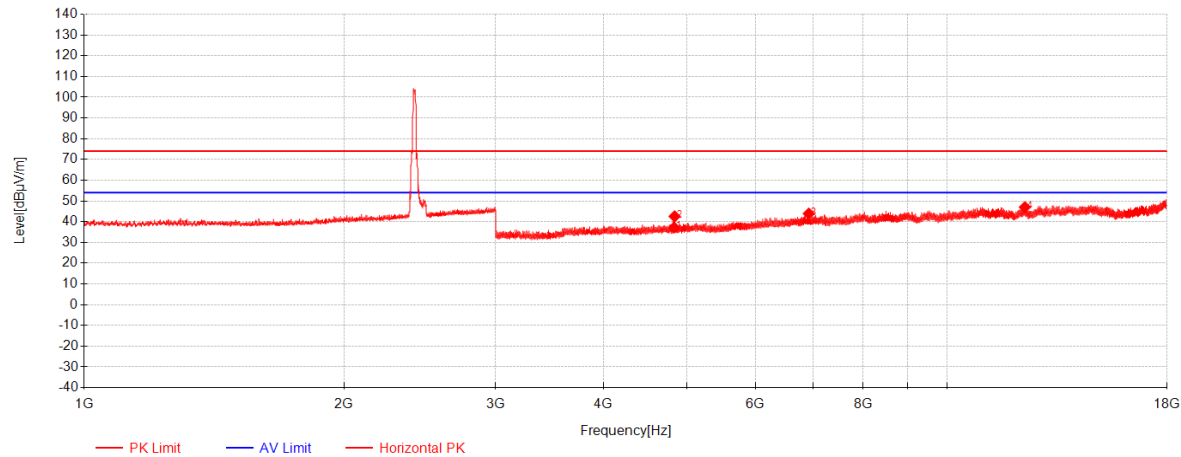
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4826.625	50.72	32.68	-45.08	38.32	54.00	15.68	Horizontal
2	4826.25	57.80	32.68	-45.08	45.40	74.00	28.60	Horizontal
3	7115.625	49.75	36.30	-42.59	43.46	74.00	30.54	Horizontal
4	11427.75	43.83	39.04	-36.20	46.68	74.00	27.32	Horizontal

11n(HT20)_TX_CH_01_Vertical



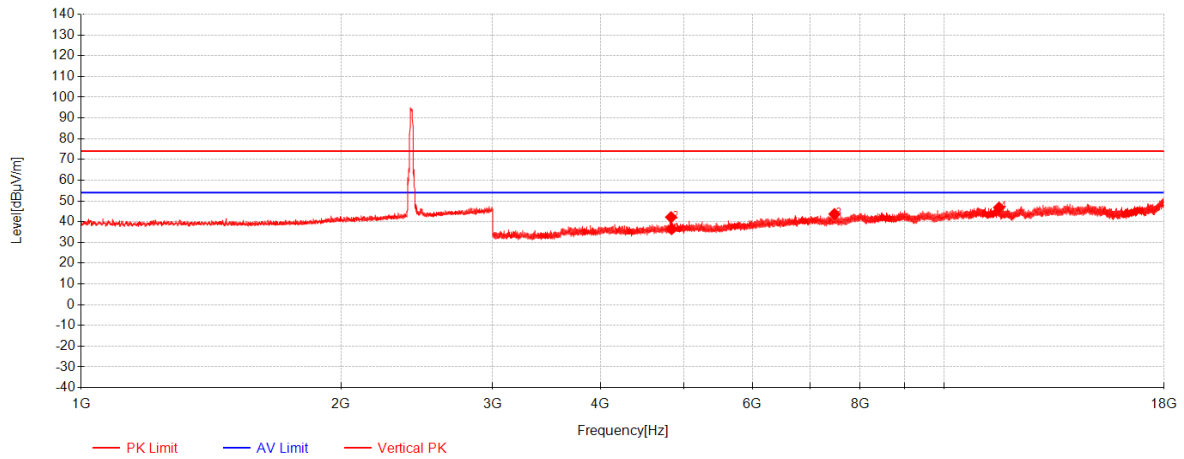
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4827.75	48.65	32.69	-45.08	36.26	54.00	17.74	Vertical
2	4824.375	53.97	32.68	-45.09	41.56	74.00	32.44	Vertical
3	7056.375	50.50	36.30	-42.87	43.93	74.00	30.07	Vertical
4	12268.875	43.24	39.02	-34.99	47.27	74.00	26.73	Vertical

11n(HT20)_TX_CH_02_Horizontal



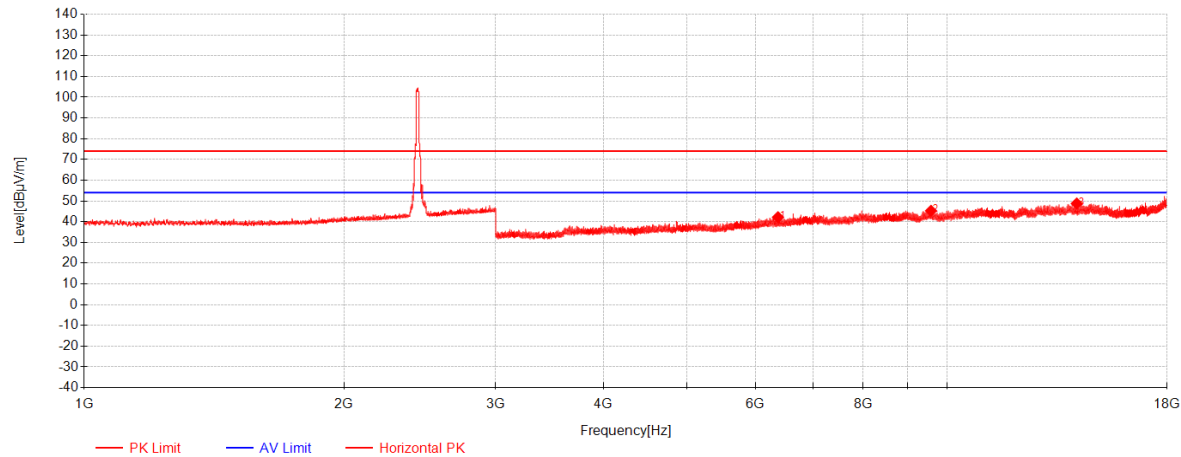
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4830	49.58	32.69	-45.07	37.20	54.00	16.80	Horizontal
2	4835.625	54.90	32.71	-45.05	42.56	74.00	31.44	Horizontal
3	6918.375	50.52	36.17	-42.81	43.88	74.00	30.12	Horizontal
4	12315.375	42.72	39.08	-34.80	47.00	74.00	27.00	Horizontal

11n(HT20)_TX_CH_02_Vertical



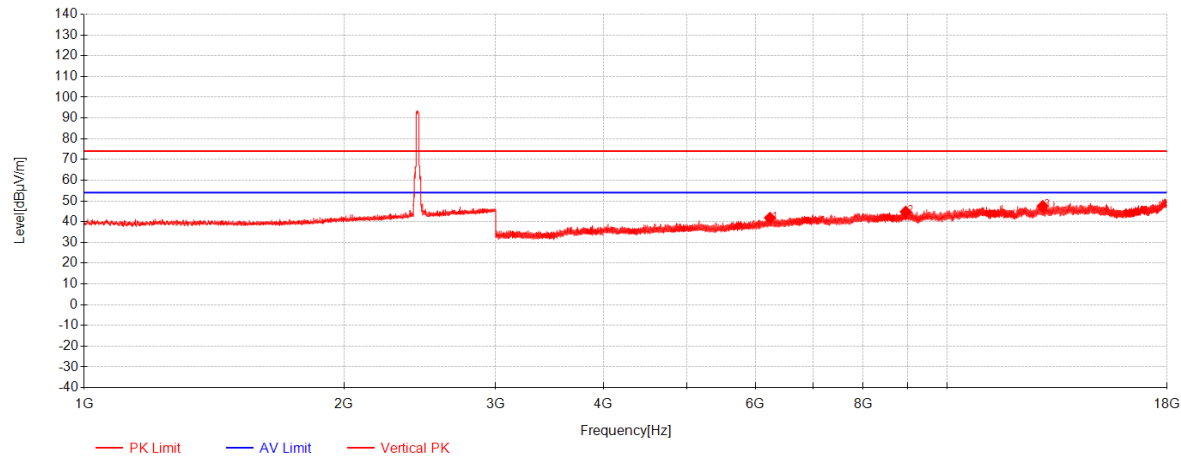
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4835.625	48.78	32.71	-45.05	36.44	54.00	17.56	Vertical
2	4829.25	54.56	32.69	-45.07	42.18	74.00	31.82	Vertical
3	7468.5	49.74	36.30	-42.35	43.69	74.00	30.31	Vertical
4	11587.5	43.45	38.95	-35.59	46.81	74.00	27.19	Vertical

11n(HT20)_TX_CH_06_Horizontal



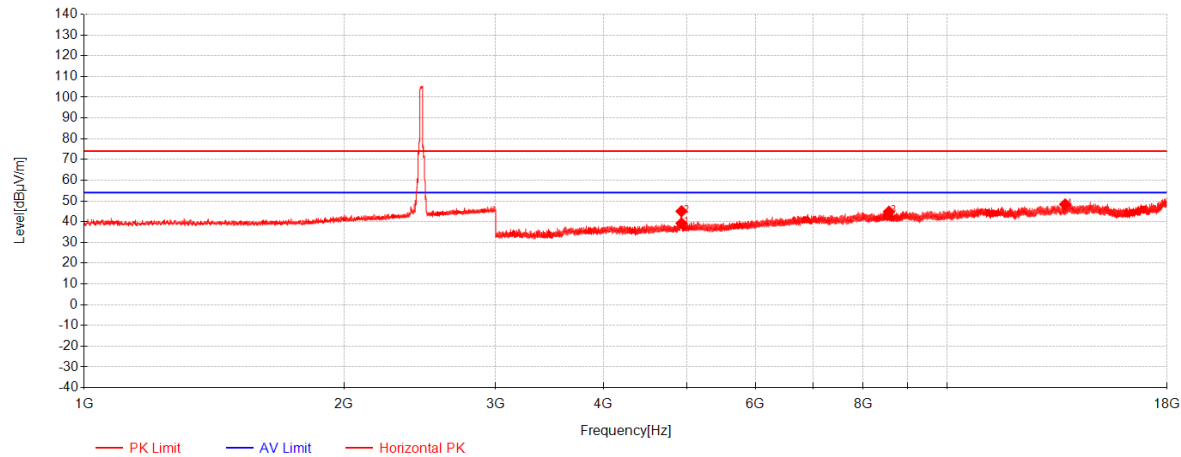
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6372.375	50.43	35.24	-43.53	42.15	74.00	31.85	Horizontal
2	9586.5	45.51	38.06	-38.32	45.25	74.00	28.75	Horizontal
3	14145.75	43.87	40.31	-35.43	48.76	74.00	25.24	Horizontal

11n(HT20)_TX_CH_06_Vertical



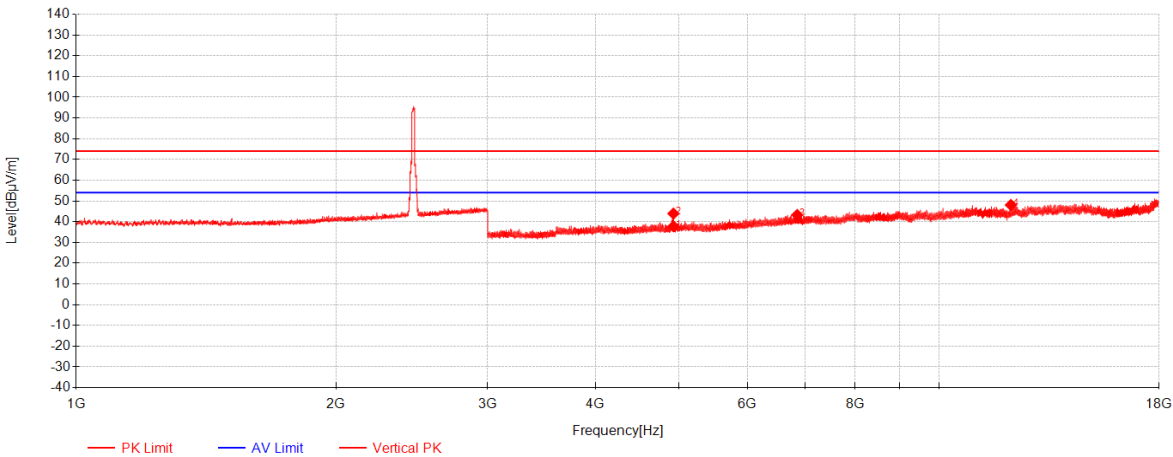
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6238.125	50.66	34.98	-43.78	41.85	74.00	32.15	Vertical
2	8962.125	46.30	37.97	-39.47	44.80	74.00	29.20	Vertical
3	12916.125	43.10	39.80	-35.34	47.56	74.00	26.44	Vertical

11n(HT20)_TX_CH_11_Horizontal



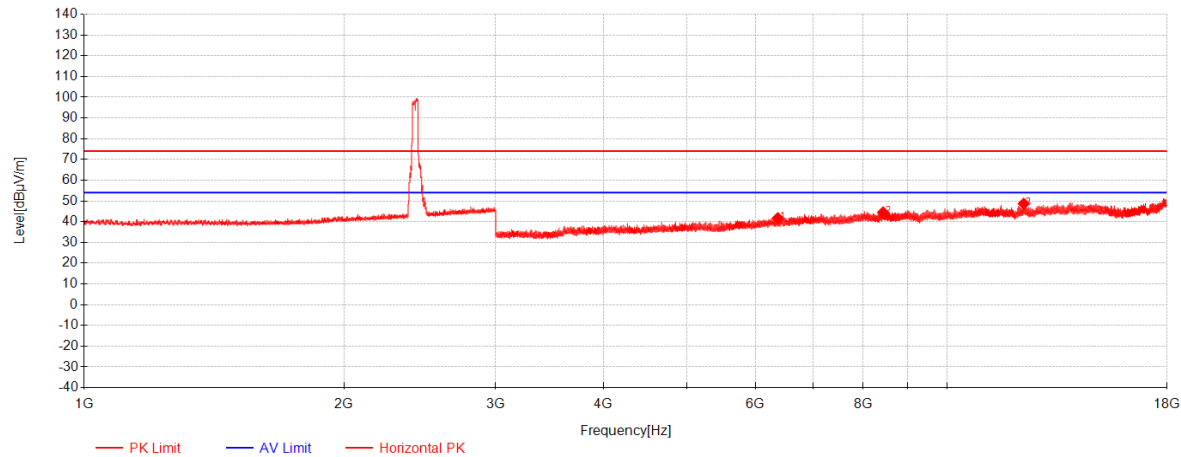
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4926	51.14	32.92	-44.84	39.22	54.00	14.78	Horizontal
2	4925.625	56.97	32.92	-44.84	45.05	74.00	28.95	Horizontal
3	8568	47.27	37.70	-40.14	44.82	74.00	29.18	Horizontal
4	13712.25	43.38	40.26	-35.28	48.36	74.00	25.64	Horizontal

11n(HT20)_TX_CH_11_Vertical



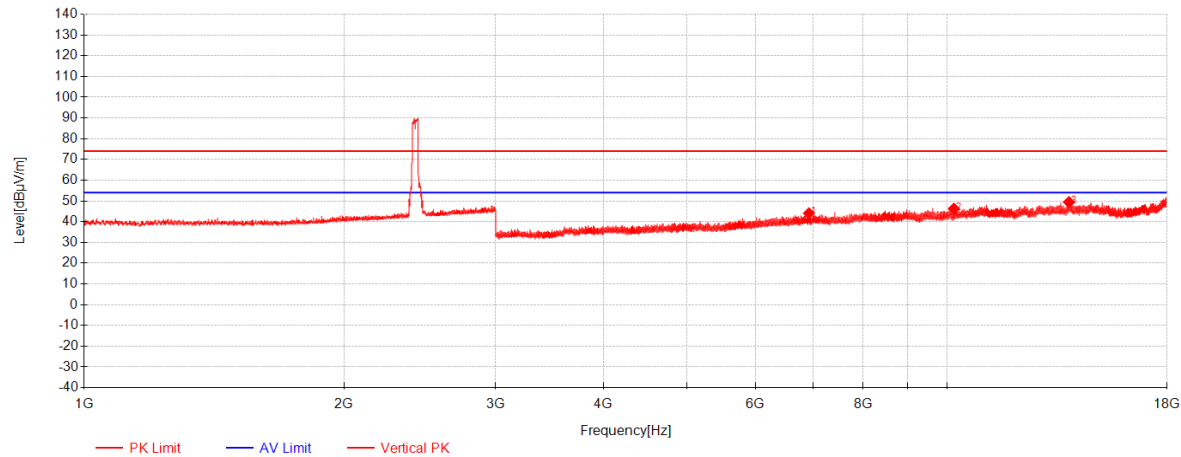
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.875	49.70	32.92	-44.84	37.78	54.00	16.22	Vertical
2	4924.5	55.84	32.92	-44.84	43.92	74.00	30.08	Vertical
3	6852.375	50.15	36.06	-42.93	43.28	74.00	30.72	Vertical
4	12120.375	44.34	38.84	-35.14	48.05	74.00	25.95	Vertical

11n(HT40)_TX_CH_03_Horizontal



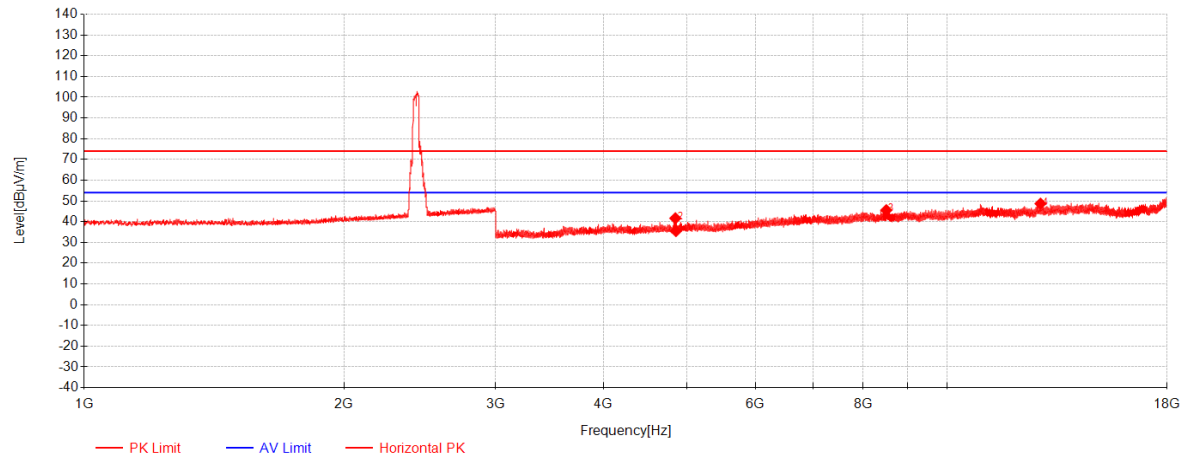
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6369.375	50.05	35.24	-43.54	41.75	74.00	32.25	Horizontal
2	8436	47.38	37.61	-40.49	44.50	74.00	29.50	Horizontal
3	12278.25	44.55	39.03	-34.91	48.67	74.00	25.33	Horizontal

11n(HT40)_TX_CH_03_Vertical



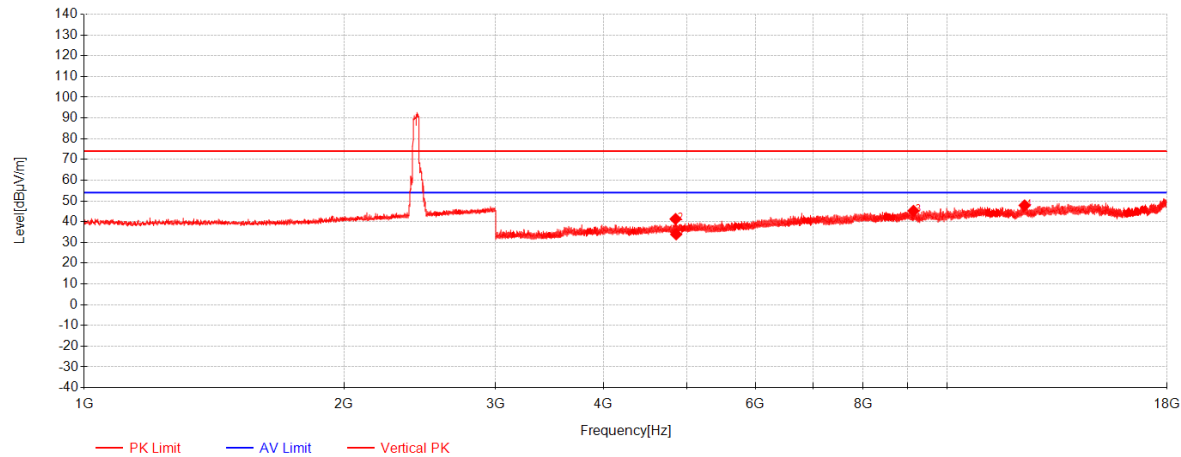
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6921.375	50.69	36.17	-42.82	44.04	74.00	29.96	Vertical
2	10189.5	44.94	38.33	-37.00	46.27	74.00	27.73	Vertical
3	13853.25	44.03	40.33	-34.89	49.46	74.00	24.54	Vertical

11n(HT40)_TX_CH_04_Horizontal



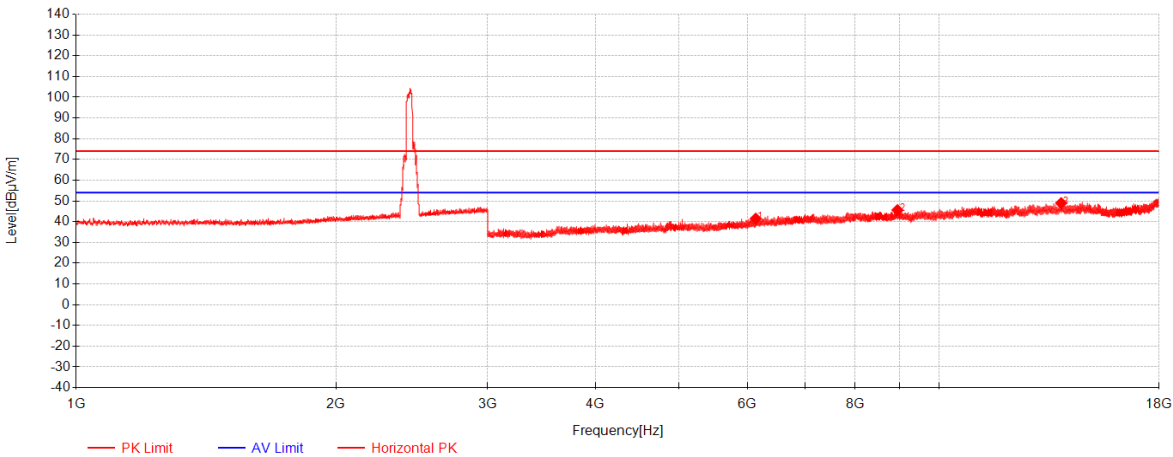
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4853.25	47.73	32.75	-44.99	35.49	54.00	18.51	Horizontal
2	4845.75	53.93	32.73	-45.01	41.65	74.00	32.35	Horizontal
3	8508.375	48.30	37.66	-40.39	45.56	74.00	28.44	Horizontal
4	12840.75	43.98	39.71	-34.99	48.70	74.00	25.30	Horizontal

11n(HT40)_TX_CH_04_Vertical



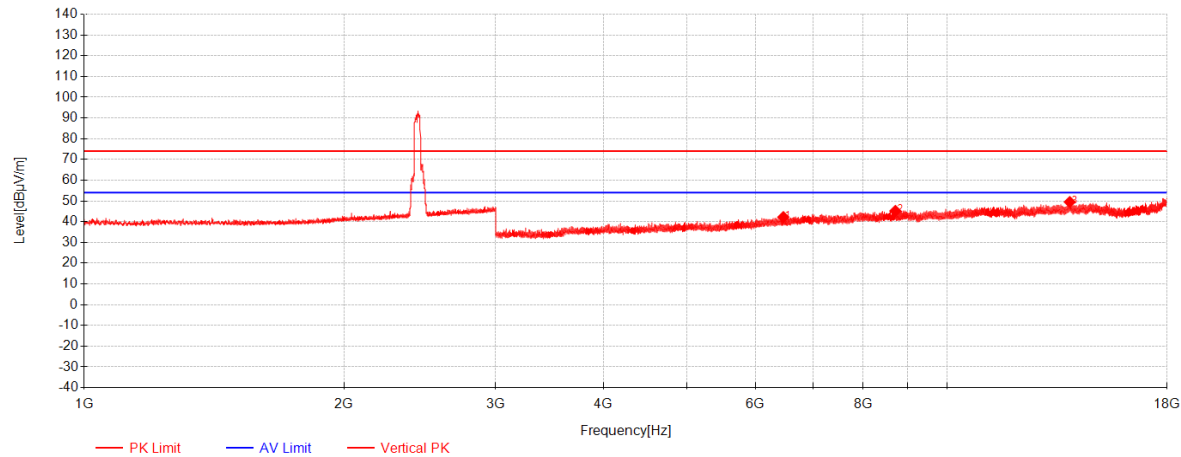
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4855.5	46.14	32.75	-44.98	33.91	54.00	20.09	Vertical
2	4848	53.58	32.74	-45.01	41.31	74.00	32.69	Vertical
3	9148.125	46.76	38.01	-39.54	45.24	74.00	28.76	Vertical
4	12306.375	43.56	39.07	-34.76	47.87	74.00	26.13	Vertical

11n(HT40)_TX_CH_06_Horizontal



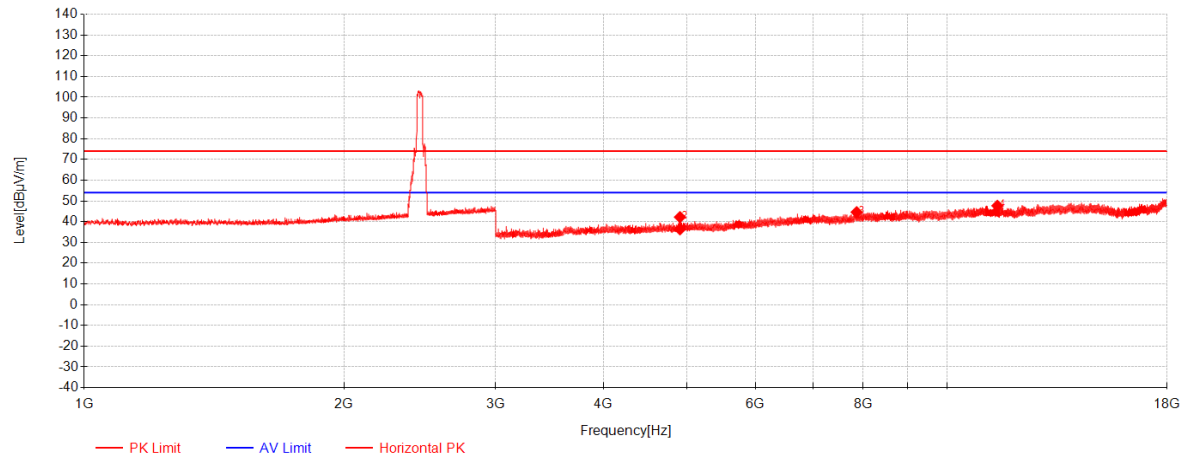
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6133.875	50.69	34.77	-43.99	41.47	74.00	32.53	Horizontal
2	8955.75	47.12	37.97	-39.49	45.60	74.00	28.40	Horizontal
3	13861.5	43.45	40.33	-34.82	48.97	74.00	25.03	Horizontal

11n(HT40)_TX_CH_06_Vertical



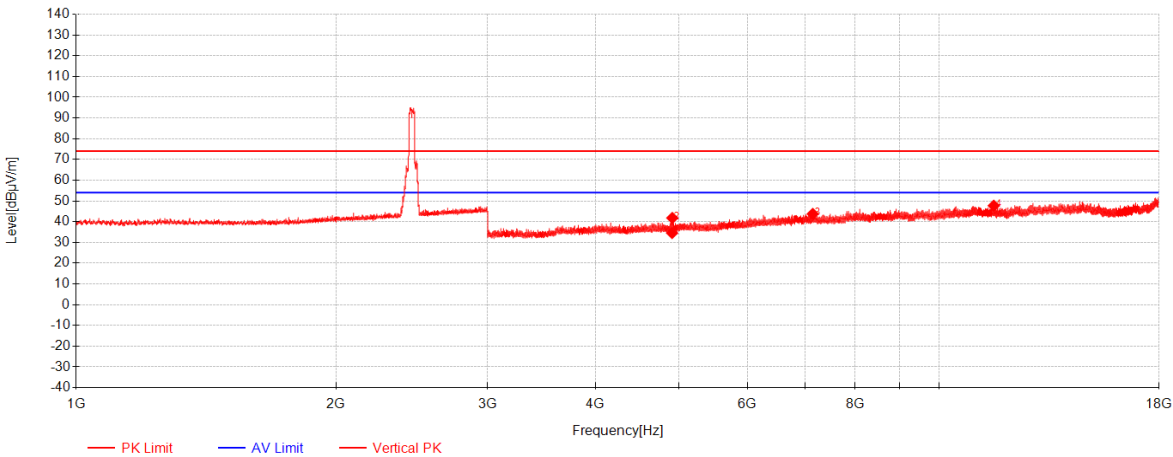
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6463.875	50.49	35.43	-43.68	42.23	74.00	31.77	Vertical
2	8716.5	47.38	37.80	-40.00	45.18	74.00	28.82	Vertical
3	13883.625	43.76	40.34	-34.61	49.50	74.00	24.50	Vertical

11n(HT40)_TX_CH_09_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4905.75	48.28	32.87	-44.83	36.32	54.00	17.68	Horizontal
2	4905.375	54.19	32.87	-44.83	42.23	74.00	31.77	Horizontal
3	7860.75	48.86	37.02	-41.27	44.61	74.00	29.39	Horizontal
4	11444.625	44.78	39.03	-36.13	47.68	74.00	26.32	Horizontal

11n(HT40)_TX_CH_09_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4906.5	46.50	32.88	-44.83	34.54	54.00	19.46	Vertical
2	4909.875	53.76	32.88	-44.83	41.81	74.00	32.19	Vertical
3	7142.625	50.06	36.30	-42.59	43.77	74.00	30.23	Vertical
4	11578.875	44.40	38.95	-35.62	47.73	74.00	26.27	Vertical

7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

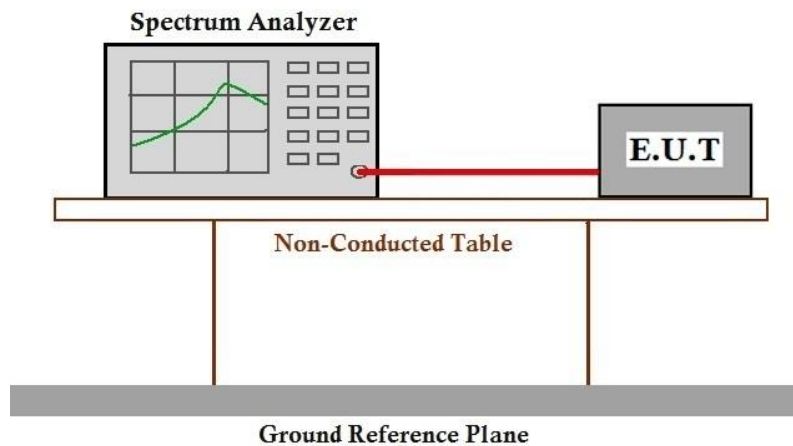
Operating Environment:

Temperature: 23 °C

Humidity: 56 % RH

Atmospheric Pressure: 1023 mbar

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2020) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Humidity: 56 % RH

Atmospheric Pressure: 1024 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.6.3 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2020) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Humidity: 56 % RH

Atmospheric Pressure: 1024 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 6.10.4

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Humidity: 56 % RH

Atmospheric Pressure: 1024 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.8.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Humidity: 56 % RH

Atmospheric Pressure: 1024 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested. Only the data of worst case is recorded in the report.

7.9.3 Measurement Procedure and Data

Please Refer to Appendix for Details