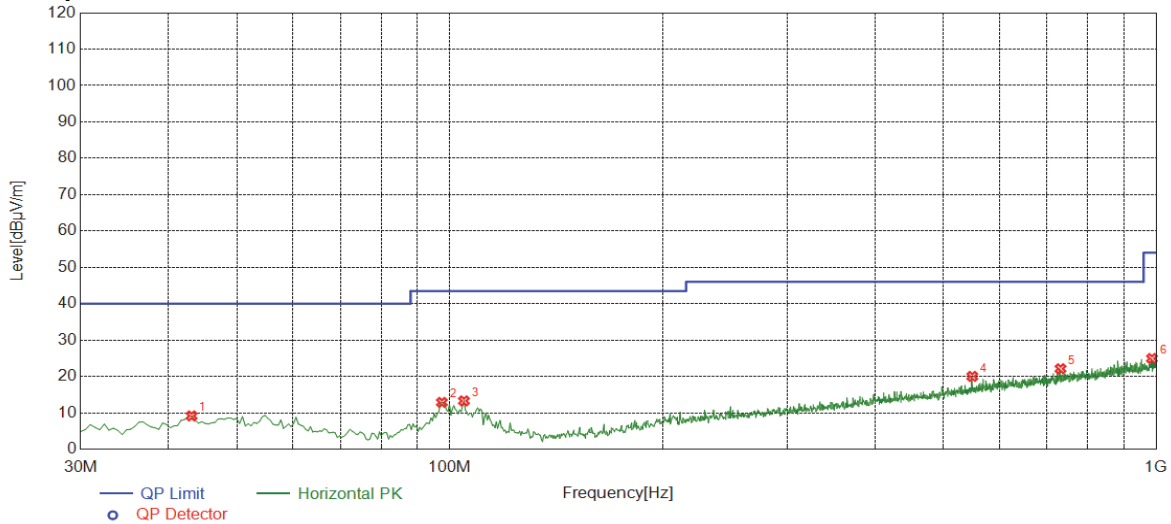


### 4.9.1.2 Charge + Transmitting, Horizontal

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.1016	9.15	-30.57	40.00	30.85	150	140	Horizontal
2	97.4487	12.87	-32.13	43.50	30.63	150	271	Horizontal
3	104.727	13.28	-31.68	43.50	30.22	150	64	Horizontal
4	549.209	20.02	-21.47	46.00	25.98	150	111	Horizontal
5	732.146	22.12	-17.92	46.00	23.88	150	89	Horizontal
6	986.413	24.94	-14.03	54.00	29.06	150	230	Horizontal



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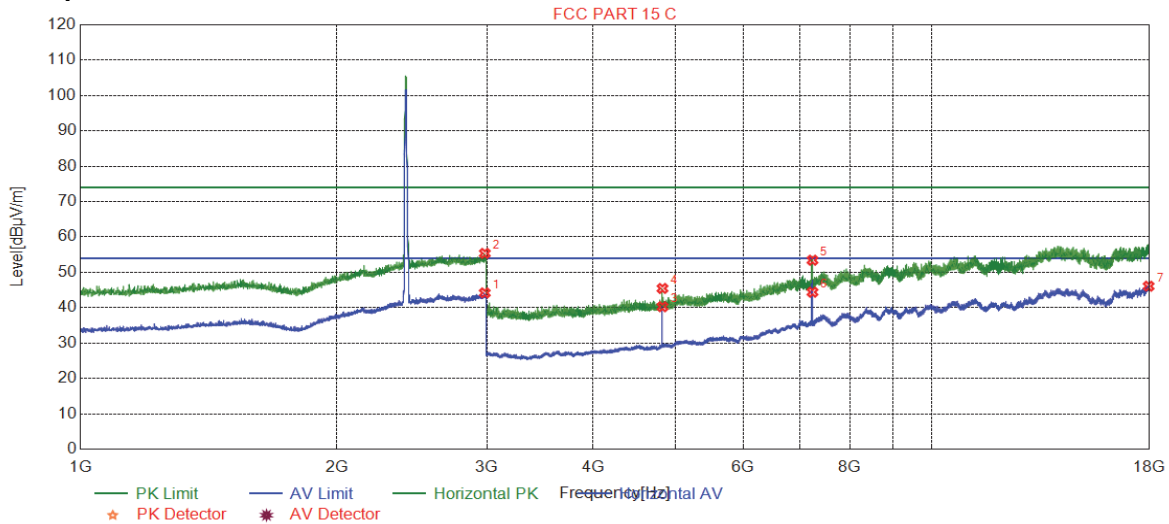
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## 4.9.2 Transmitter emission above 1GHz

### 4.9.2.1 ANT1

#### 4.9.2.1.1 802.11B\_Lowest Channel\_Horizontal

##### Test Graph



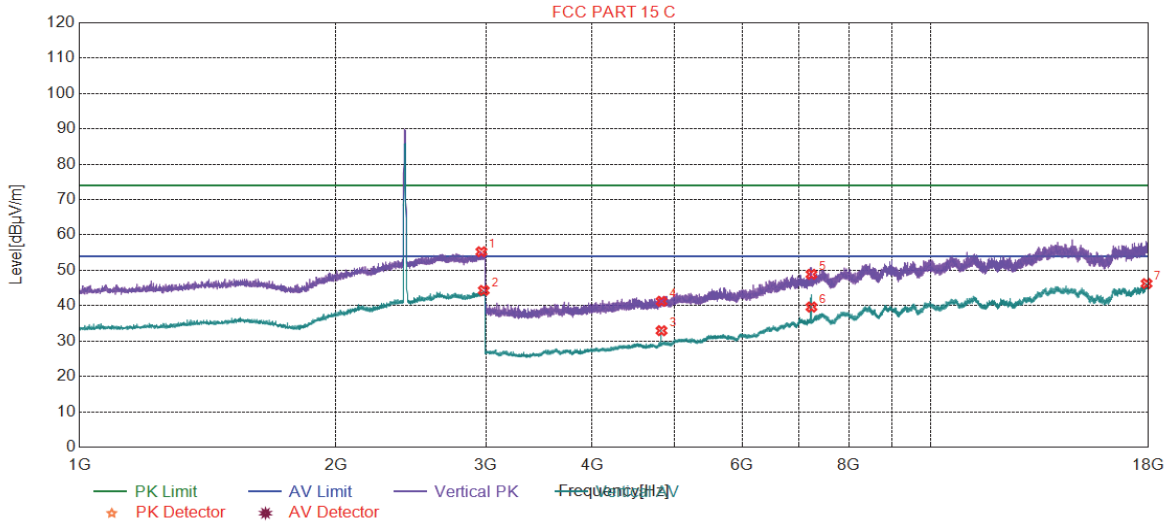
##### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.49	44.18	9.53	54.00	9.82	150	301	Horizontal
2	2983.99	55.36	9.52	74.00	18.64	150	164	Horizontal
3	4824.00	40.28	-18.21	54.00	13.72	150	342	Horizontal
4	4824.00	45.45	-18.21	74.00	28.55	150	314	Horizontal
5	7236.00	53.43	-9.99	74.00	20.57	150	360	Horizontal
6	7236.00	44.40	-9.99	54.00	9.60	150	18	Horizontal
7	17955.4	46.09	0.71	54.00	7.91	150	18	Horizontal



### 4.9.2.1.2 802.11B\_Lowest Channel\_Vertical

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.49	55.25	9.61	74.00	18.75	150	321	Vertical
2	2983.49	44.33	9.53	54.00	9.67	150	252	Vertical
3	4824.00	32.94	-18.21	54.00	21.06	150	260	Vertical
4	4824.00	41.25	-18.21	74.00	32.75	150	314	Vertical
5	7236.00	48.88	-9.99	74.00	25.12	150	269	Vertical
6	7236.00	39.63	-9.99	54.00	14.37	150	119	Vertical
7	17903.7	46.26	0.69	54.00	7.74	150	218	Vertical

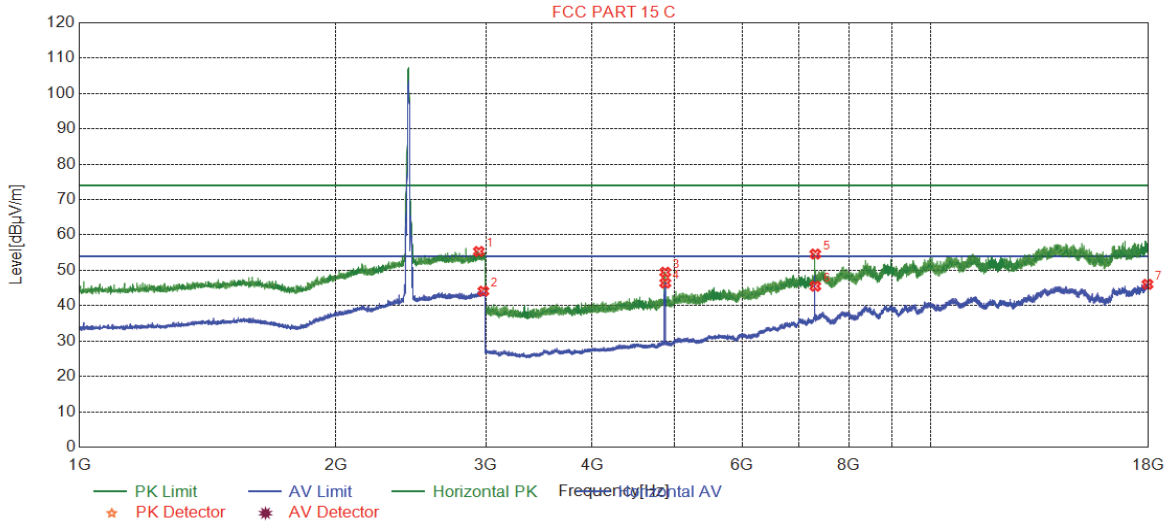


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### 4.9.2.1.3 802.11B\_ Middle Channel\_ Horizontal

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.98	55.34	9.62	74.00	18.66	150	11	Horizontal
2	2979.99	44.11	9.54	54.00	9.89	150	246	Horizontal
3	4874.00	49.46	-17.99	74.00	24.54	150	314	Horizontal
4	4874.00	46.41	-17.99	54.00	7.59	150	314	Horizontal
5	7311.00	54.61	-9.74	74.00	19.39	150	18	Horizontal
6	7311.00	45.52	-9.74	54.00	8.48	150	360	Horizontal
7	17947.7	46.06	0.70	54.00	7.94	150	360	Horizontal



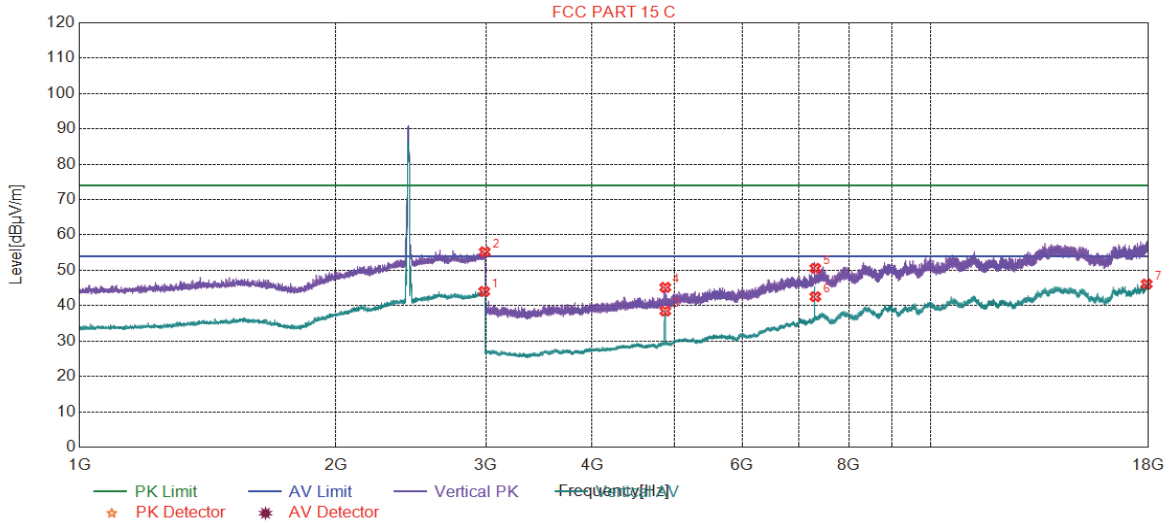
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**4.9.2.1.4 802.11B\_ Middle Channel\_ Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.99	44.04	9.51	54.00	9.96	150	86	Vertical
2	2990.99	55.23	9.49	74.00	18.77	150	334	Vertical
3	4874.00	38.49	-17.99	54.00	15.51	150	260	Vertical
4	4874.00	45.19	-17.99	74.00	28.81	150	233	Vertical
5	7311.00	50.58	-9.74	74.00	23.42	150	320	Vertical
6	7311.00	42.56	-9.74	54.00	11.44	150	119	Vertical
7	17907.0	46.12	0.69	54.00	7.88	150	270	Vertical

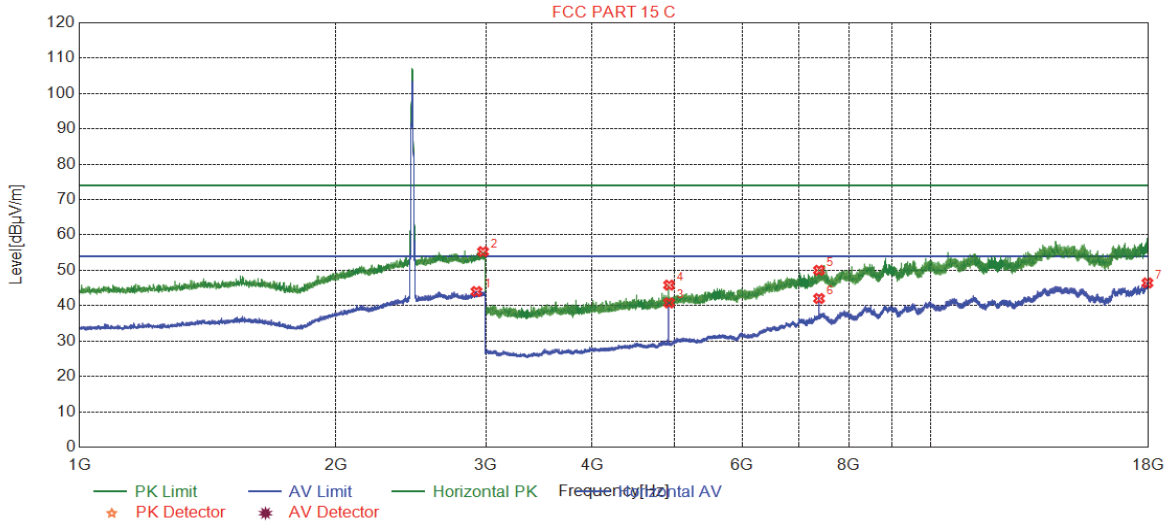


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### 4.9.2.1.5 802.11B\_Highest Channel\_Horizontal

#### Test Graph



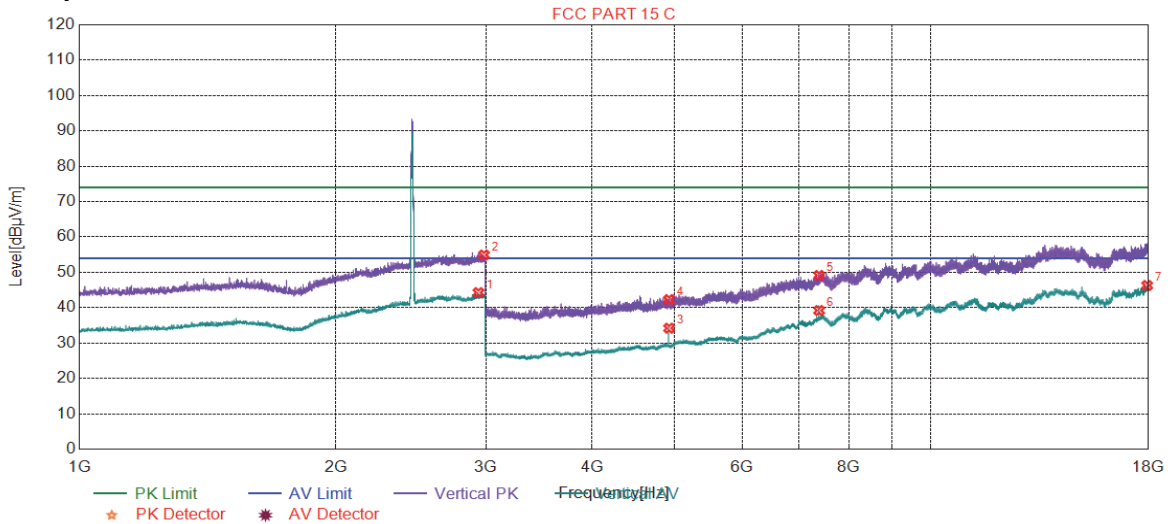
#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.48	44.01	9.42	54.00	9.99	150	82	Horizontal
2	2977.49	55.30	9.55	74.00	18.70	150	109	Horizontal
3	4924.00	40.80	-17.72	54.00	13.20	150	314	Horizontal
4	4924.00	45.82	-17.72	74.00	28.18	150	314	Horizontal
5	7386.00	50.01	-9.55	74.00	23.99	150	18	Horizontal
6	7386.00	42.04	-9.55	54.00	11.96	150	18	Horizontal
7	17945.5	46.44	0.70	54.00	7.56	150	18	Horizontal



### 4.9.2.1.6 802.11B\_Highest Channel\_Vertical

#### Test Graph



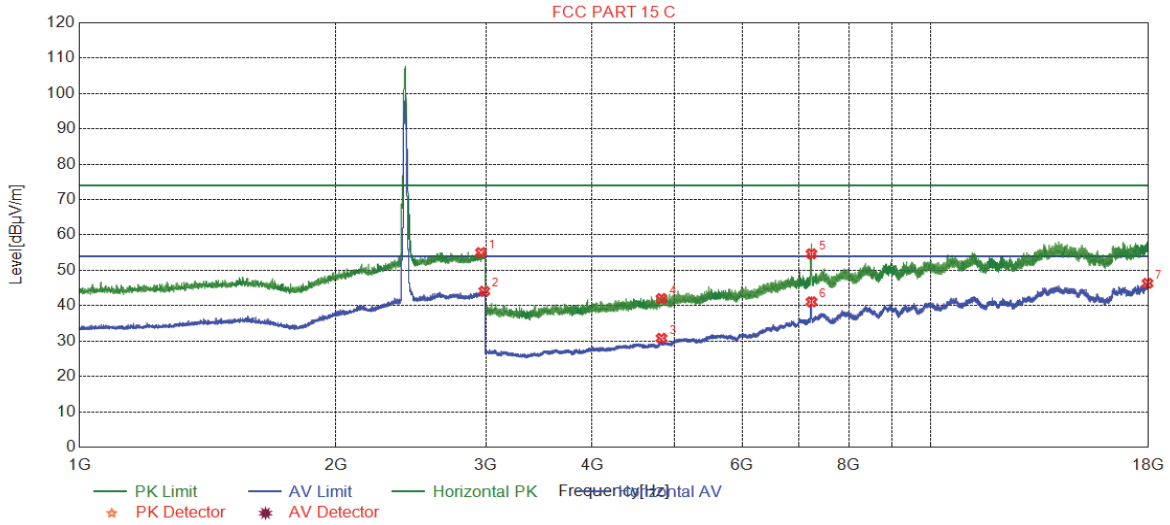
#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.98	44.28	9.58	54.00	9.72	150	73	Vertical
2	2984.99	54.91	9.52	74.00	19.09	150	18	Vertical
3	4924.00	34.21	-17.72	54.00	19.79	150	260	Vertical
4	4924.00	42.30	-17.72	74.00	31.70	150	260	Vertical
5	7386.00	49.13	-9.55	74.00	24.87	150	18	Vertical
6	7386.00	39.21	-9.55	54.00	14.79	150	119	Vertical
7	17931.2	46.29	0.70	54.00	7.71	150	323	Vertical



**4.9.2.1.7 802.11G\_Lowest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.49	55.04	9.63	74.00	18.96	150	123	Horizontal
2	2987.49	44.10	9.51	54.00	9.90	150	109	Horizontal
3	4824.00	30.80	-18.21	54.00	23.20	150	315	Horizontal
4	4824.00	42.05	-18.21	74.00	31.95	150	287	Horizontal
5	7236.00	54.68	-9.99	74.00	19.32	150	360	Horizontal
6	7236.00	41.09	-9.99	54.00	12.91	150	360	Horizontal
7	17949.3	46.33	0.70	54.00	7.67	150	360	Horizontal



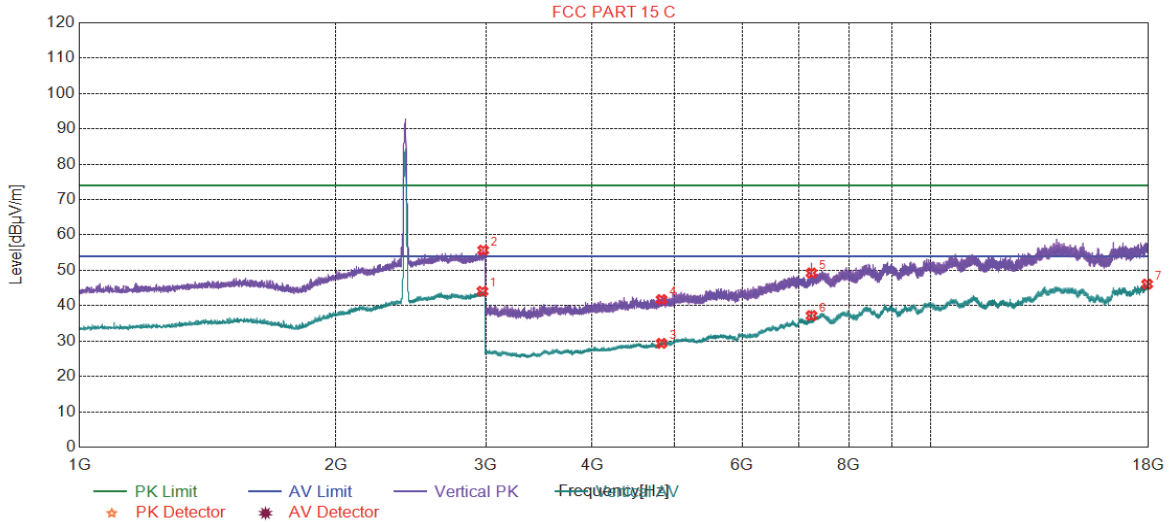
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### 4.9.2.1.8 802.11G\_Lowest Channel\_Vertical

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.99	44.07	9.57	54.00	9.93	150	196	Vertical
2	2978.99	55.70	9.55	74.00	18.30	150	358	Vertical
3	4824.00	29.36	-18.21	54.00	24.64	150	42	Vertical
4	4824.00	41.74	-18.21	74.00	32.26	150	260	Vertical
5	7236.00	49.25	-9.99	74.00	24.75	150	320	Vertical
6	7236.00	37.20	-9.99	54.00	16.80	150	119	Vertical
7	17931.2	46.11	0.70	54.00	7.89	150	119	Vertical

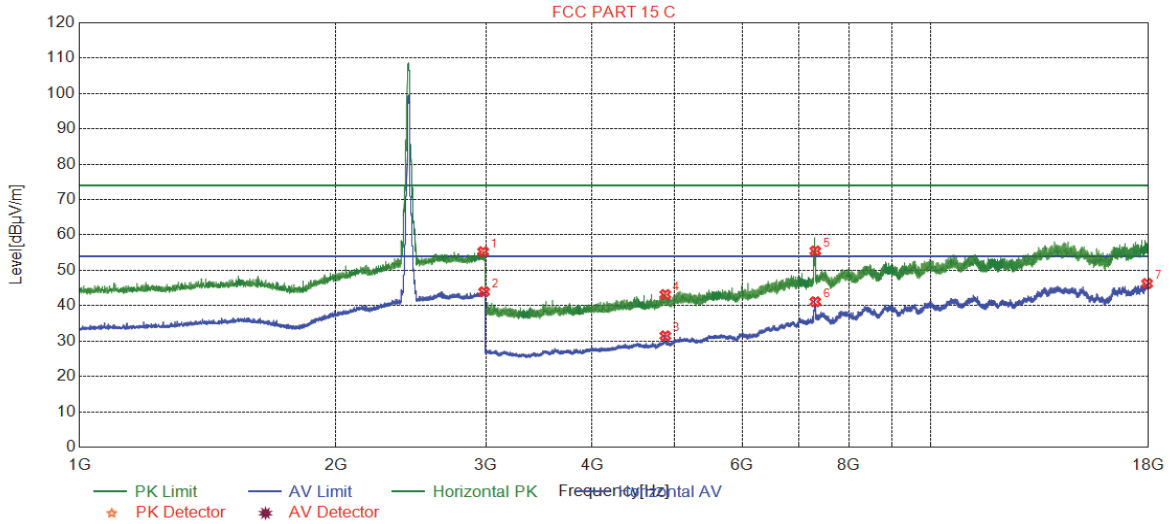


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**4.9.2.1.9 802.11G\_ Middle Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.49	55.29	9.55	74.00	18.71	150	233	Horizontal
2	2986.49	43.95	9.51	54.00	10.05	150	315	Horizontal
3	4874.00	31.49	-17.99	54.00	22.51	150	314	Horizontal
4	4874.00	43.16	-17.99	74.00	30.84	150	314	Horizontal
5	7311.00	55.48	-9.74	74.00	18.52	150	360	Horizontal
6	7311.00	41.12	-9.74	54.00	12.88	150	360	Horizontal
7	17927.3	46.27	0.70	54.00	7.73	150	319	Horizontal

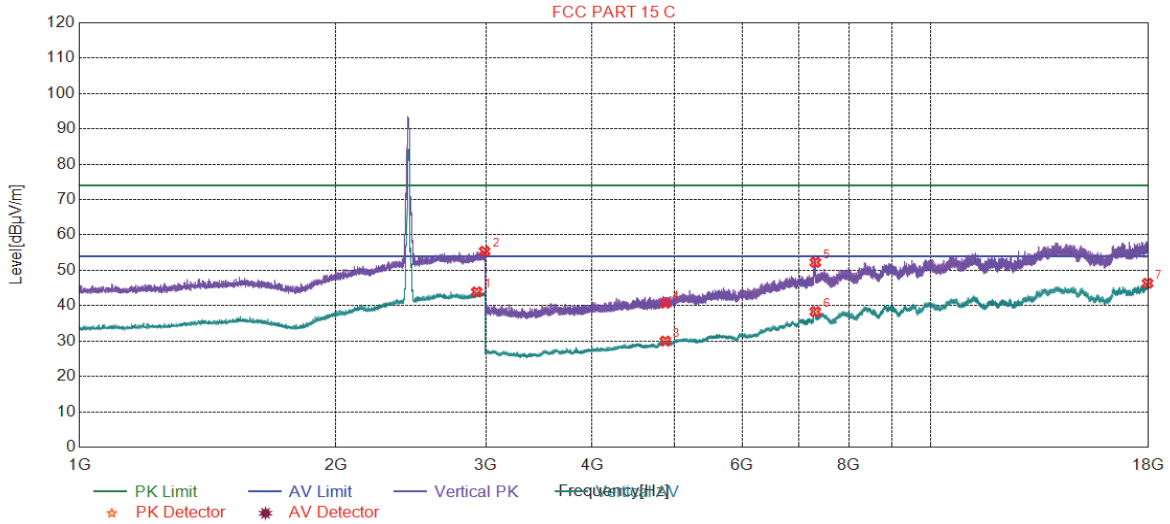


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**4.9.2.1.10 802.11G\_Middle Channel\_Vertical**

**Test Graph**



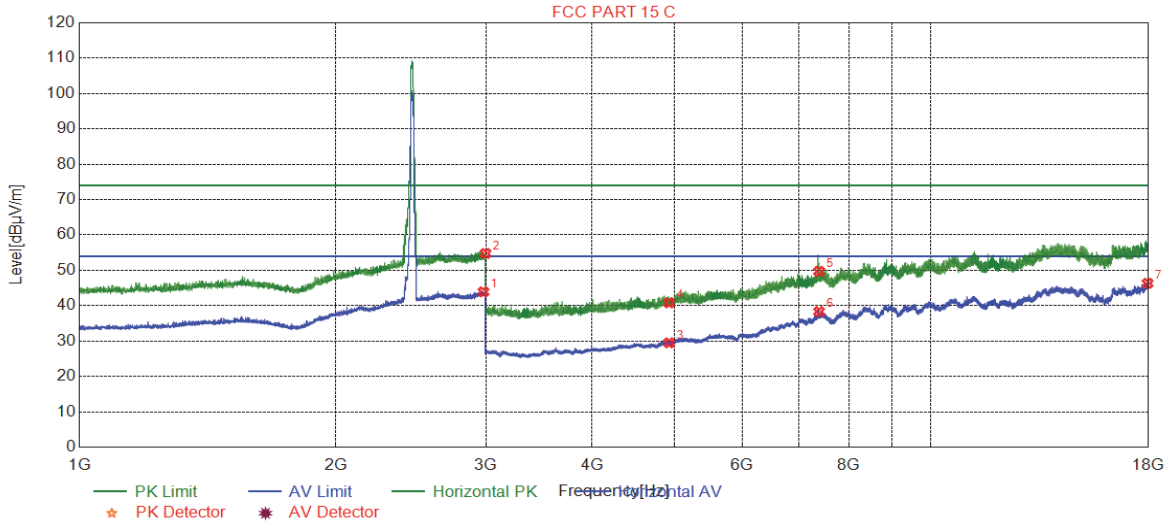
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2926.98	43.91	9.43	54.00	10.09	150	98	Vertical
2	2990.49	55.41	9.49	74.00	18.59	150	98	Vertical
3	4874.00	30.00	-17.99	54.00	24.00	150	260	Vertical
4	4874.00	40.71	-17.99	74.00	33.29	150	342	Vertical
5	7311.00	52.25	-9.74	74.00	21.75	150	119	Vertical
6	7311.00	38.32	-9.74	54.00	15.68	150	119	Vertical
7	17951.0	46.35	0.71	54.00	7.65	150	320	Vertical



**4.9.2.1.11 802.11G\_Highest Channel\_Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.99	43.94	9.54	54.00	10.06	150	273	Horizontal
2	2997.99	54.77	9.46	74.00	19.23	150	2	Horizontal
3	4924.00	29.51	-17.72	54.00	24.49	150	315	Horizontal
4	4924.00	40.82	-17.72	74.00	33.18	150	233	Horizontal
5	7386.00	49.71	-9.55	74.00	24.29	150	360	Horizontal
6	7386.00	38.35	-9.55	54.00	15.65	150	18	Horizontal
7	17952.6	46.35	0.71	54.00	7.65	150	69	Horizontal



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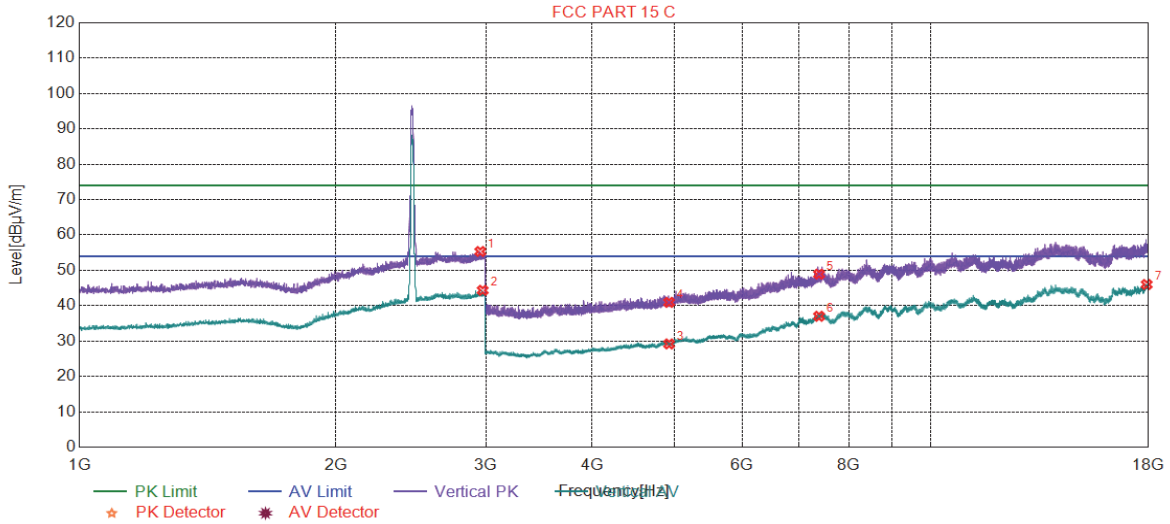
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**4.9.2.1.12 802.11G\_Highest Channel\_Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.48	55.32	9.65	74.00	18.68	150	100	Vertical
2	2974.99	44.35	9.57	54.00	9.65	150	292	Vertical
3	4924.00	29.20	-17.72	54.00	24.80	150	259	Vertical
4	4924.00	40.95	-17.72	74.00	33.05	150	314	Vertical
5	7386.00	48.92	-9.55	74.00	25.08	150	318	Vertical
6	7386.00	37.02	-9.55	54.00	16.98	150	268	Vertical
7	17910.8	46.01	0.69	54.00	7.99	150	268	Vertical

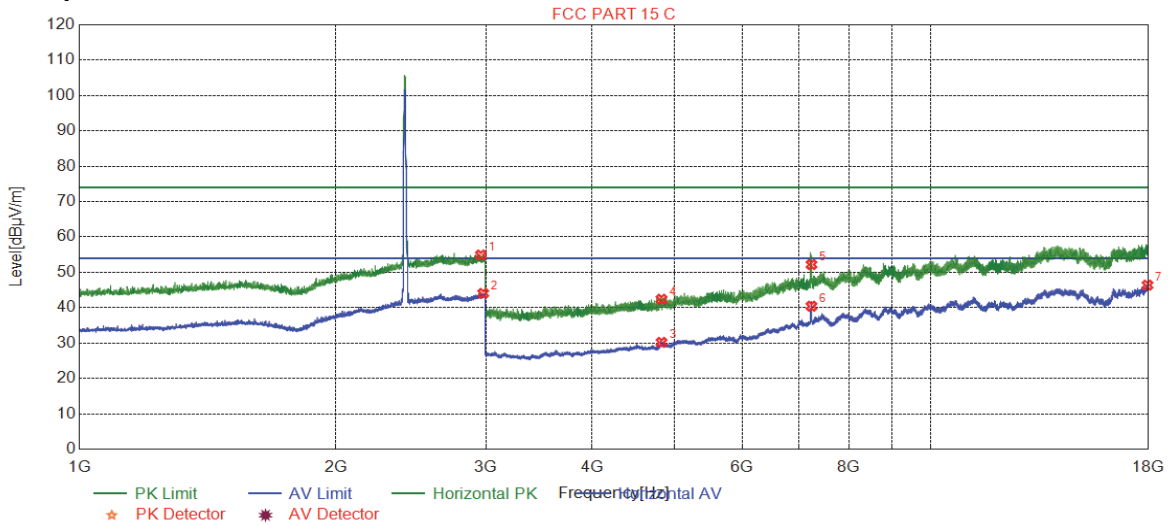


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**4.9.2.1.13 802.11N20\_Lowest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.99	54.92	9.63	74.00	19.08	150	138	Horizontal
2	2978.99	44.06	9.55	54.00	9.94	150	342	Horizontal
3	4824.00	30.21	-18.21	54.00	23.79	150	287	Horizontal
4	4824.00	42.41	-18.21	74.00	31.59	150	116	Horizontal
5	7236.00	52.20	-9.99	74.00	21.80	150	18	Horizontal
6	7236.00	40.44	-9.99	54.00	13.56	150	18	Horizontal
7	17948.2	46.39	0.70	54.00	7.61	150	220	Horizontal

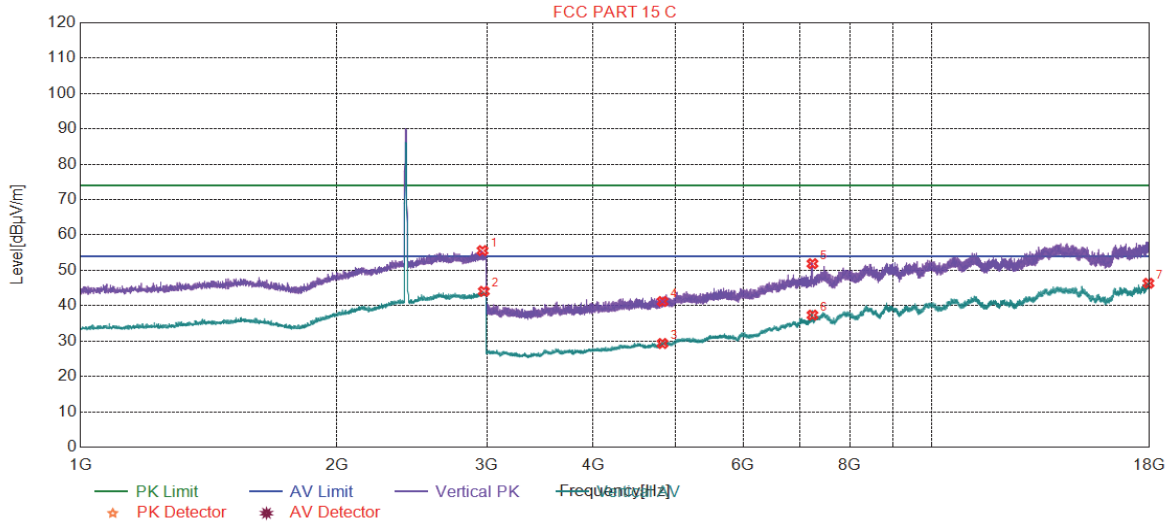


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**4.9.2.1.14 802.11N20\_Lowest Channel\_Vertical**

**Test Graph**



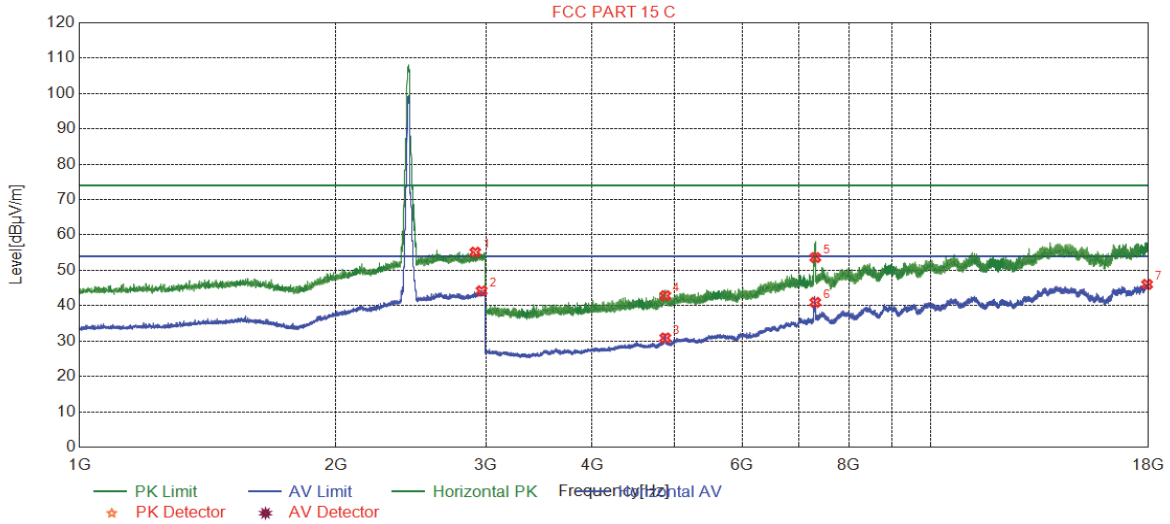
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.49	55.57	9.61	74.00	18.43	150	336	Vertical
2	2975.99	44.07	9.56	54.00	9.93	150	336	Vertical
3	4824.00	29.32	-18.21	54.00	24.68	150	260	Vertical
4	4824.00	41.19	-18.21	74.00	32.81	150	41	Vertical
5	7236.00	51.89	-9.99	74.00	22.11	150	320	Vertical
6	7236.00	37.34	-9.99	54.00	16.66	150	119	Vertical
7	17944.9	46.35	0.70	54.00	7.65	150	219	Vertical



**4.9.2.1.15 802.11N20\_ Middle Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.97	55.15	9.31	74.00	18.85	150	67	Horizontal
2	2965.99	44.22	9.61	54.00	9.78	150	192	Horizontal
3	4874.00	30.88	-17.99	54.00	23.12	150	342	Horizontal
4	4874.00	42.84	-17.99	74.00	31.16	150	342	Horizontal
5	7311.00	53.61	-9.74	74.00	20.39	150	360	Horizontal
6	7311.00	40.94	-9.74	54.00	13.06	150	18	Horizontal
7	17929.0	46.03	0.70	54.00	7.97	150	18	Horizontal



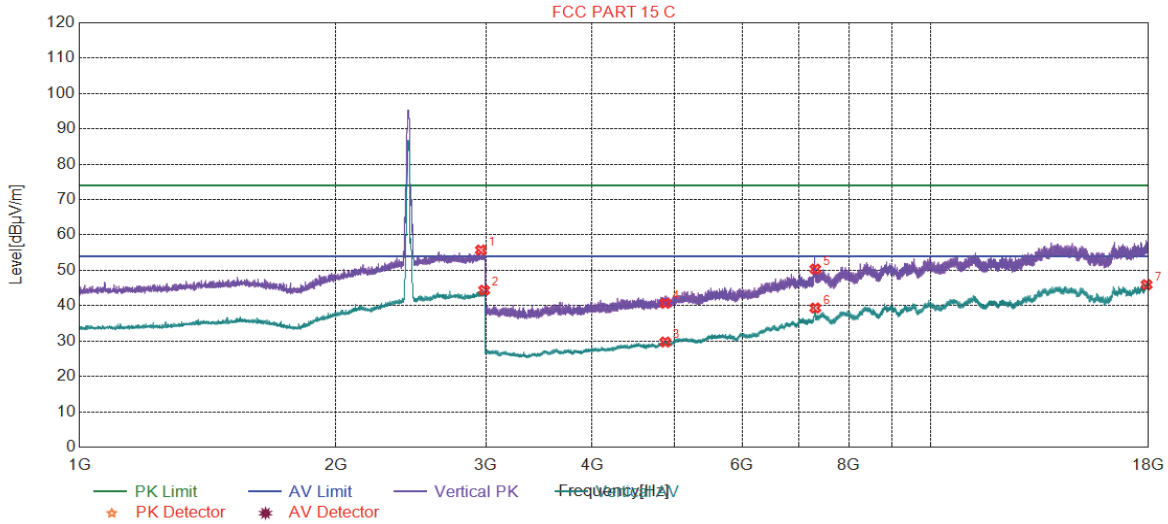
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**4.9.2.1.16 802.11N20\_Middle Channel\_Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.99	55.74	9.63	74.00	18.26	150	18	Vertical
2	2986.49	44.39	9.51	54.00	9.61	150	18	Vertical
3	4874.00	29.73	-17.99	54.00	24.27	150	342	Vertical
4	4874.00	40.68	-17.99	74.00	33.32	150	178	Vertical
5	7311.00	50.35	-9.74	74.00	23.65	150	319	Vertical
6	7311.00	39.35	-9.74	54.00	14.65	150	269	Vertical
7	17906.4	45.95	0.69	54.00	8.05	150	18	Vertical

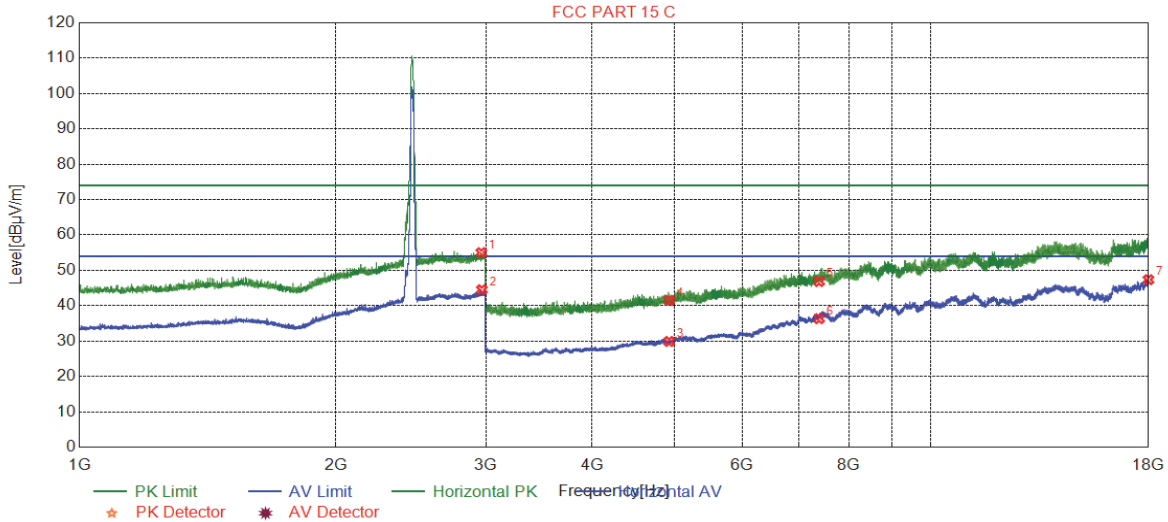


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**4.9.2.1.17 802.11N20\_ Highest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.49	55.01	9.62	74.00	18.99	150	107	Horizontal
2	2967.99	44.53	9.60	54.00	9.47	150	134	Horizontal
3	4924.00	29.89	-17.72	54.00	24.11	150	0	Horizontal
4	4924.00	41.53	-17.72	74.00	32.47	150	124	Horizontal
5	7386.00	46.85	-9.55	74.00	27.15	150	320	Horizontal
6	7386.00	36.34	-9.55	54.00	17.66	150	119	Horizontal
7	17993.3	47.36	0.72	54.00	6.64	150	360	Horizontal

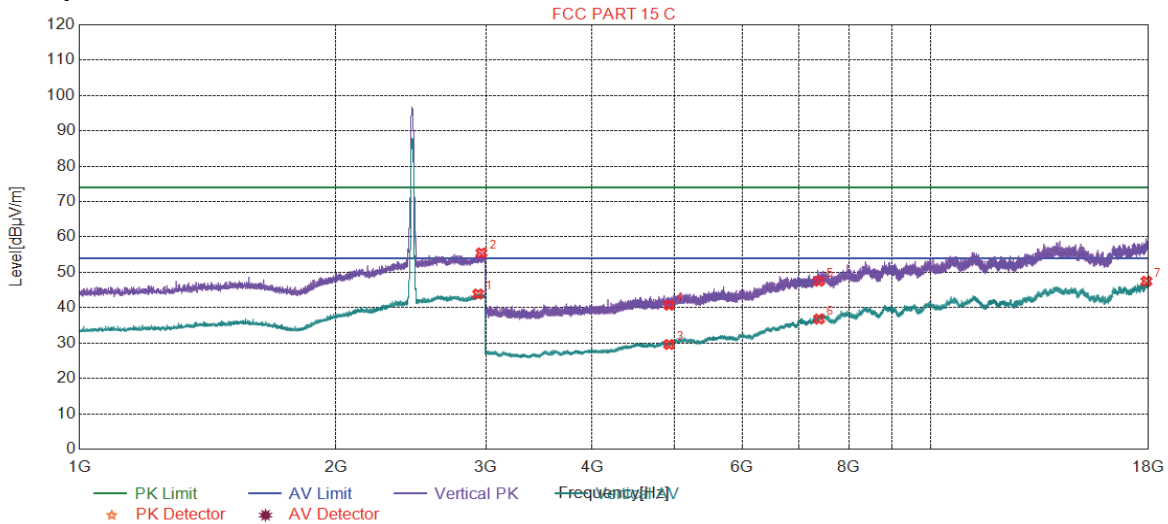


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**4.9.2.1.18 802.11N20\_ Highest Channel\_ Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.98	43.87	9.55	54.00	10.13	150	141	Vertical
2	2964.99	55.49	9.61	74.00	18.51	150	319	Vertical
3	4924.00	29.60	-17.72	54.00	24.40	150	96	Vertical
4	4924.00	40.73	-17.72	74.00	33.27	150	232	Vertical
5	7386.00	47.50	-9.55	74.00	26.50	150	169	Vertical
6	7386.00	36.82	-9.55	54.00	17.18	150	320	Vertical
7	17898.2	47.48	0.67	54.00	6.52	150	219	Vertical

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, 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. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz		54.0	Average Value
		74.0	Peak Value
Test Setup:			

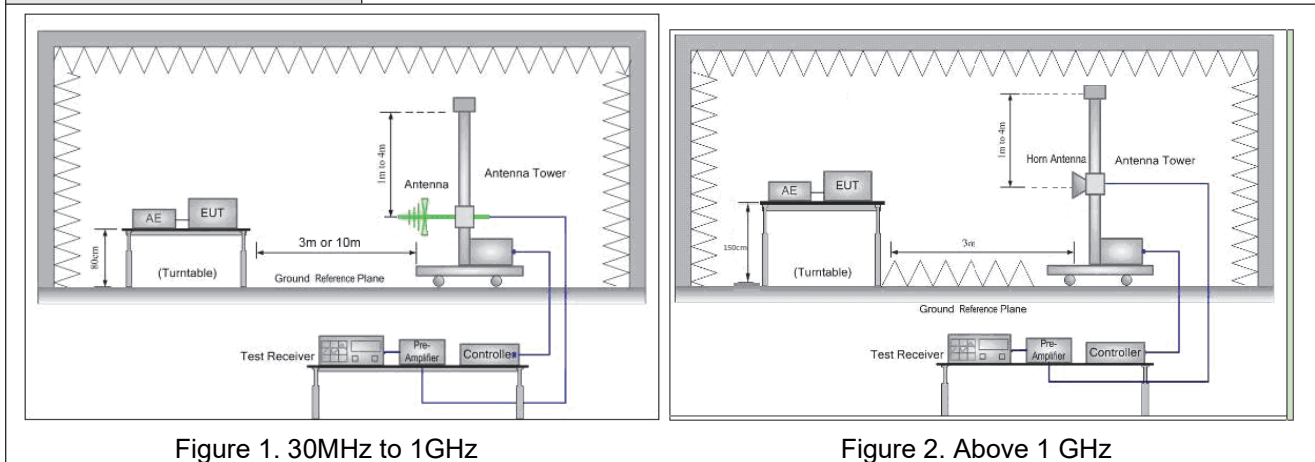


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ul style="list-style-type: none"> <li>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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. 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.</li> <li>d. 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.</li> <li>e. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

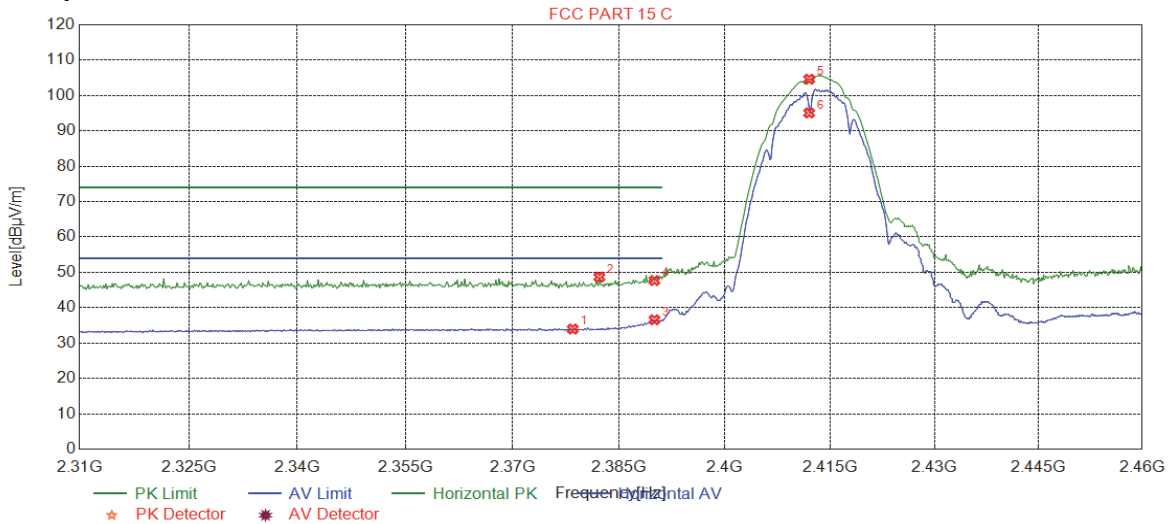


Test plot as follows:

**4.10.1 ANT1**

**4.10.1.1 802.11B\_Lowest Channel\_Horizontal**

Test Graph



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.46	33.98	7.78	54.00	20.02	150	145	Horizontal
2	2382.22	48.66	7.78	74.00	25.34	150	162	Horizontal
3	2390.00	36.59	7.77	54.00	17.41	150	308	Horizontal
4	2390.00	47.69	7.77	74.00	26.31	150	312	Horizontal
5	2412.00	104.61	7.81	0.00	-104.61	150	308	Horizontal
6	2412.00	95.08	7.81	0.00	-95.08	150	312	Horizontal

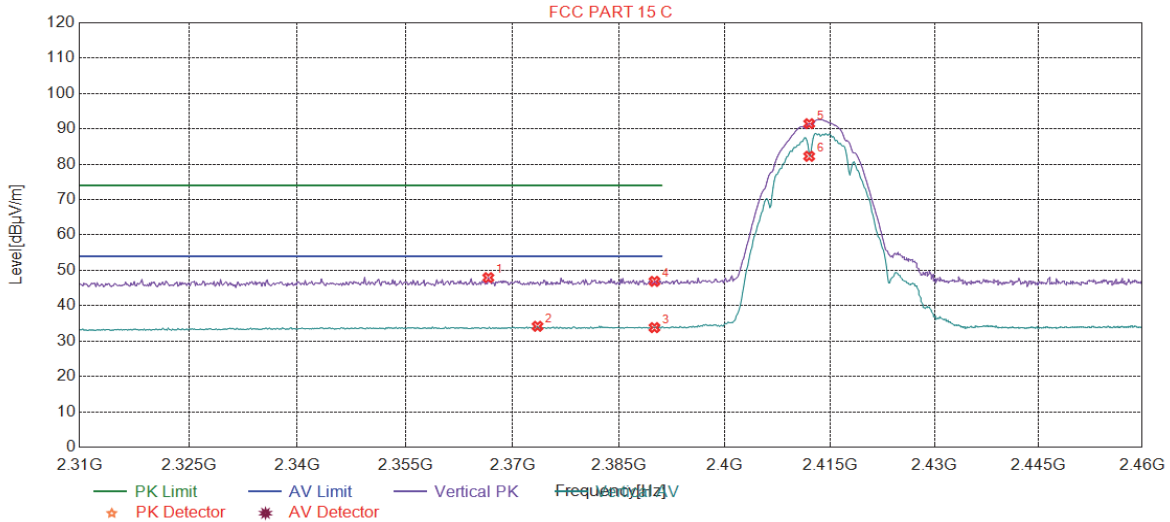


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### 4.10.1.2 802.11B\_Lowest Channel\_Vertical

#### Test Graph



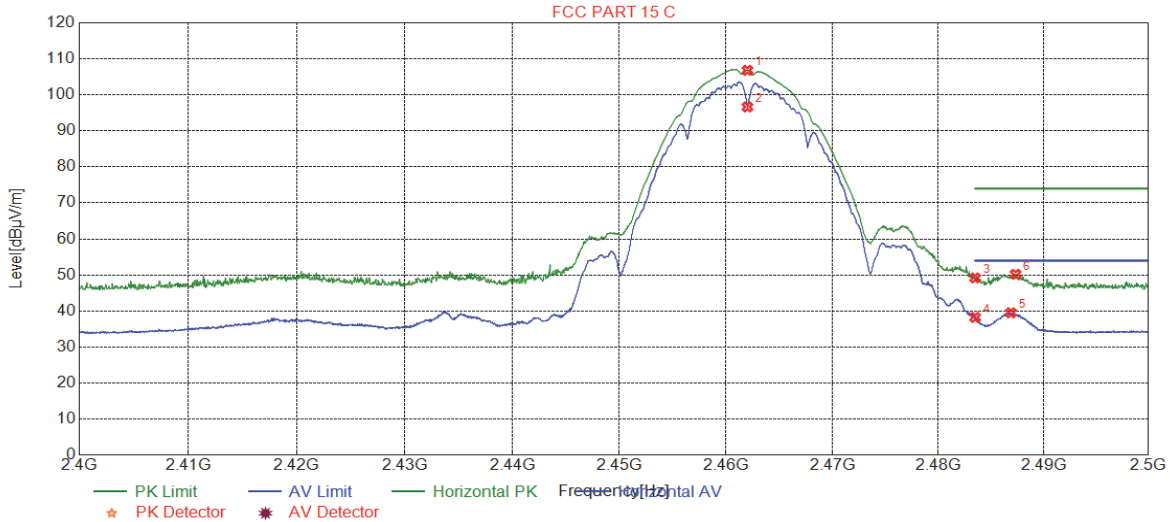
#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.60	47.94	7.79	74.00	26.06	150	278	Vertical
2	2373.51	34.18	7.79	54.00	19.82	150	171	Vertical
3	2390.00	33.81	7.77	54.00	20.19	150	311	Vertical
4	2390.00	46.88	7.77	74.00	27.12	150	1	Vertical
5	2412.00	91.47	7.81	0.00	-91.47	150	250	Vertical
6	2412.00	82.25	7.81	0.00	-82.25	150	254	Vertical



### 4.10.1.3 802.11B\_Highest Channel\_Horizontal

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.81	7.98	0.00	-106.81	150	326	Horizontal
2	2462.00	96.64	7.98	0.00	-96.64	150	336	Horizontal
3	2483.50	49.18	8.01	74.00	24.82	150	210	Horizontal
4	2483.50	38.22	8.01	54.00	15.78	150	315	Horizontal
5	2486.89	39.52	8.01	54.00	14.48	150	326	Horizontal
6	2487.34	50.19	8.01	74.00	23.81	150	298	Horizontal



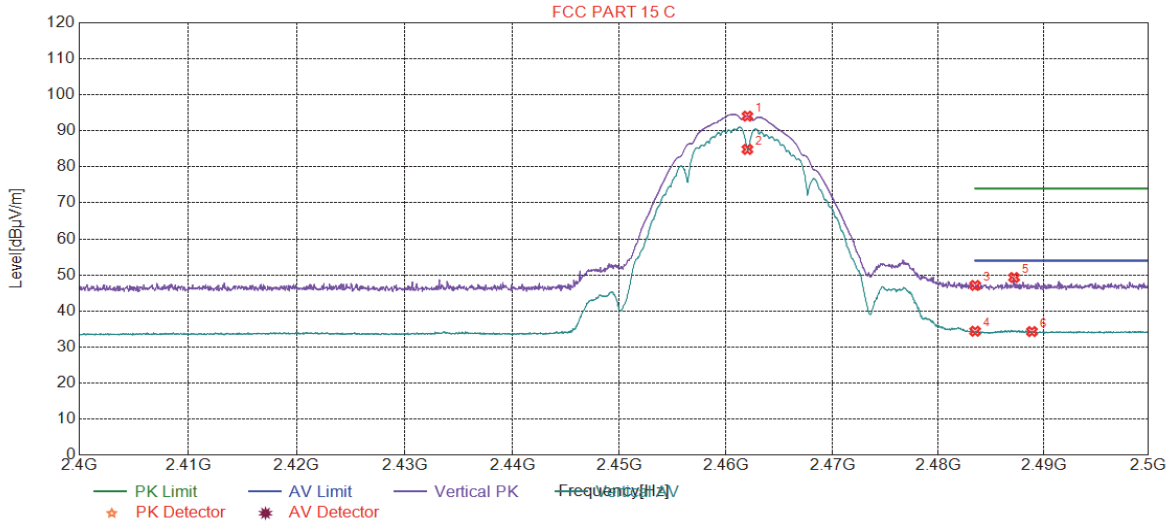
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**4.10.1.4 802.11B\_Highest Channel\_Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.08	7.98	0.00	-94.08	150	0	Vertical
2	2462.00	84.86	7.98	0.00	-84.86	150	0	Vertical
3	2483.50	47.10	8.01	74.00	26.90	150	77	Vertical
4	2483.50	34.37	8.01	54.00	19.63	150	1	Vertical
5	2487.19	49.29	8.01	74.00	24.71	150	215	Vertical
6	2488.89	34.29	8.02	54.00	19.71	150	346	Vertical

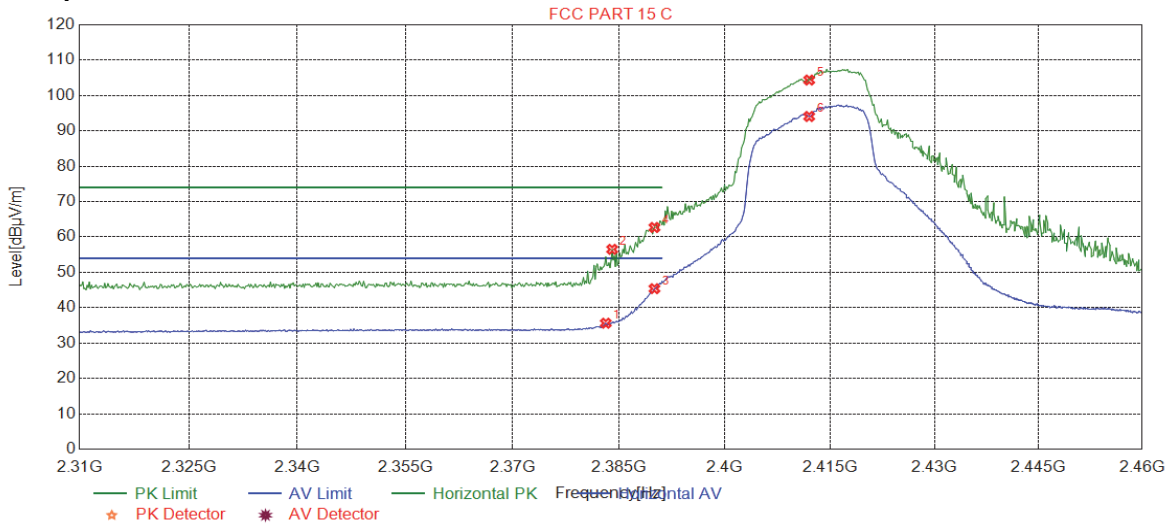


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**4.10.1.6 802.11G\_Lowest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.12	35.63	7.78	54.00	18.37	150	271	Horizontal
2	2384.02	56.51	7.78	74.00	17.49	150	342	Horizontal
3	2390.00	45.39	7.77	54.00	8.61	150	267	Horizontal
4	2390.00	62.69	7.77	74.00	11.31	150	309	Horizontal
5	2412.00	104.38	7.81	0.00	-104.38	150	346	Horizontal
6	2412.00	94.07	7.81	0.00	-94.07	150	342	Horizontal

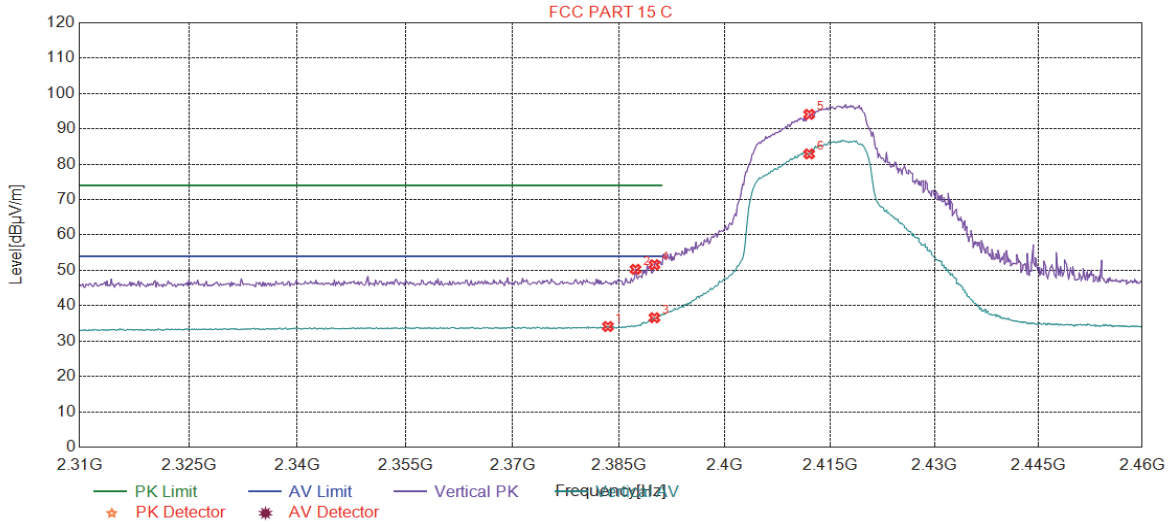


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**4.10.1.7 802.11G\_Lowest Channel\_Vertical**

**Test Graph**



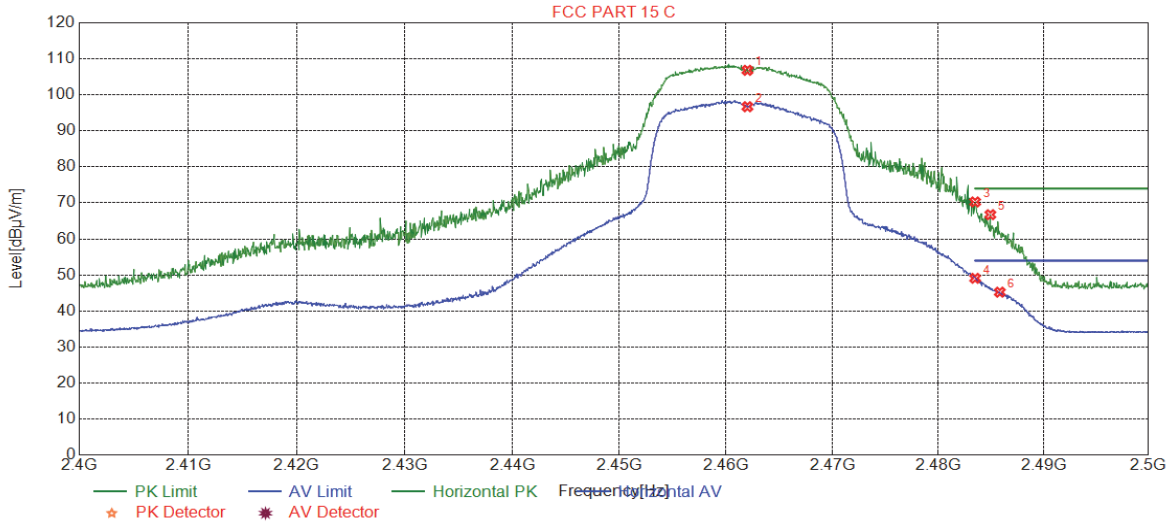
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.42	34.12	7.78	54.00	19.88	150	271	Vertical
2	2387.32	50.29	7.77	74.00	23.71	150	323	Vertical
3	2390.00	36.61	7.77	54.00	17.39	150	271	Vertical
4	2390.00	51.57	7.77	74.00	22.43	150	267	Vertical
5	2412.00	94.11	7.81	0.00	-94.11	150	31	Vertical
6	2412.00	82.92	7.81	0.00	-82.92	150	27	Vertical



**4.10.1.8 802.11G\_Highest Channel\_Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.81	7.98	0.00	-106.81	150	332	Horizontal
2	2462.00	96.70	7.98	0.00	-96.70	150	316	Horizontal
3	2483.50	70.27	8.01	74.00	3.73	150	300	Horizontal
4	2483.50	49.08	8.01	54.00	4.92	150	316	Horizontal
5	2484.94	66.74	8.01	74.00	7.26	150	305	Horizontal
6	2485.84	45.23	8.01	54.00	8.77	150	316	Horizontal



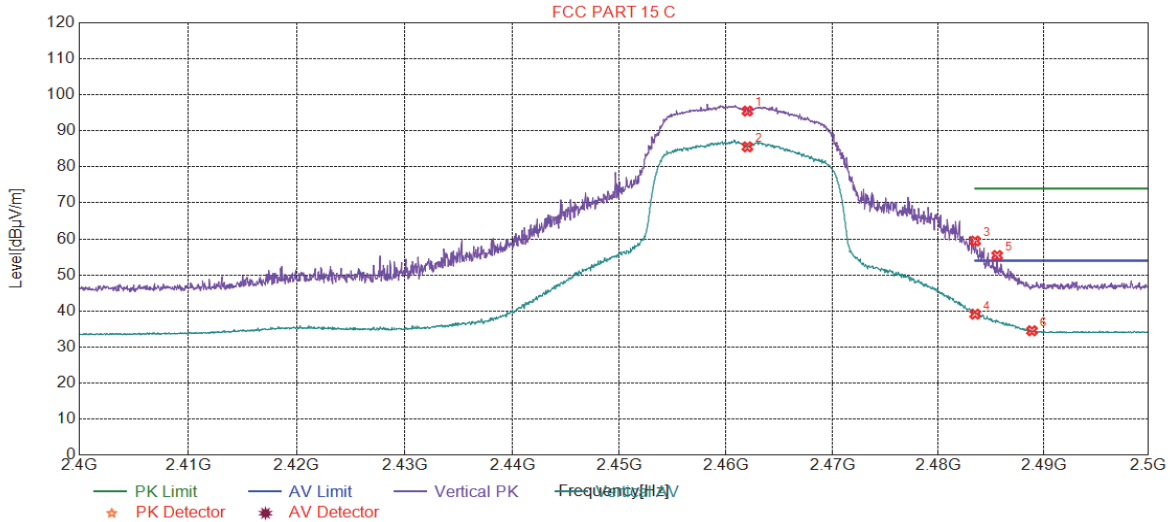
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### 4.10.1.9 802.11G\_Highest Channel\_Vertical

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	95.50	7.98	0.00	-95.50	150	27	Vertical
2	2462.00	85.57	7.98	0.00	-85.57	150	38	Vertical
3	2483.50	59.41	8.01	74.00	14.59	150	32	Vertical
4	2483.50	39.13	8.01	54.00	14.87	150	32	Vertical
5	2485.59	55.40	8.01	74.00	18.60	150	38	Vertical
6	2488.89	34.51	8.02	54.00	19.49	150	32	Vertical

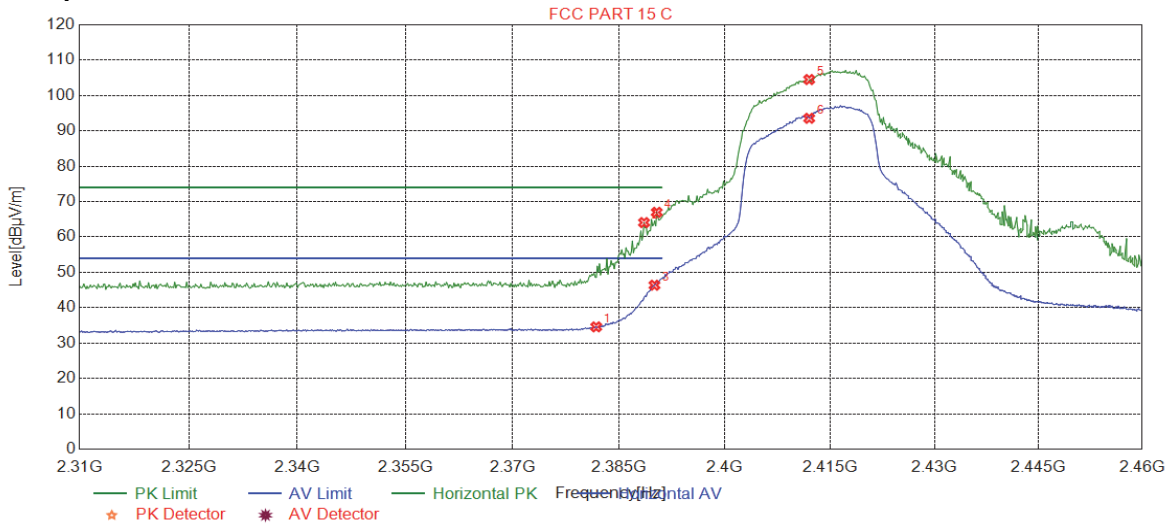


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**4.10.1.11 802.11N20\_ Lowest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.77	34.59	7.78	54.00	19.41	150	307	Horizontal
2	2388.52	64.08	7.77	74.00	9.92	150	262	Horizontal
3	2390.00	46.36	7.77	54.00	7.64	150	262	Horizontal
4	2390.33	66.98	7.77	74.00	7.02	150	299	Horizontal
5	2412.00	104.52	7.81	0.00	-104.52	150	339	Horizontal
6	2412.00	93.56	7.81	0.00	-93.56	150	339	Horizontal

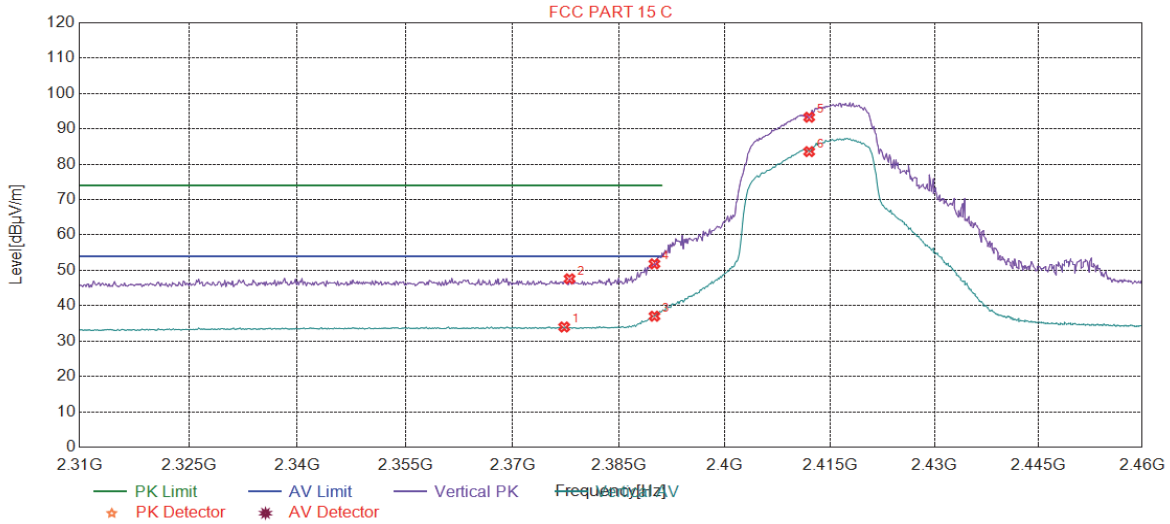


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**4.10.1.12 802.11N20\_Lowest Channel\_Vertical**

**Test Graph**



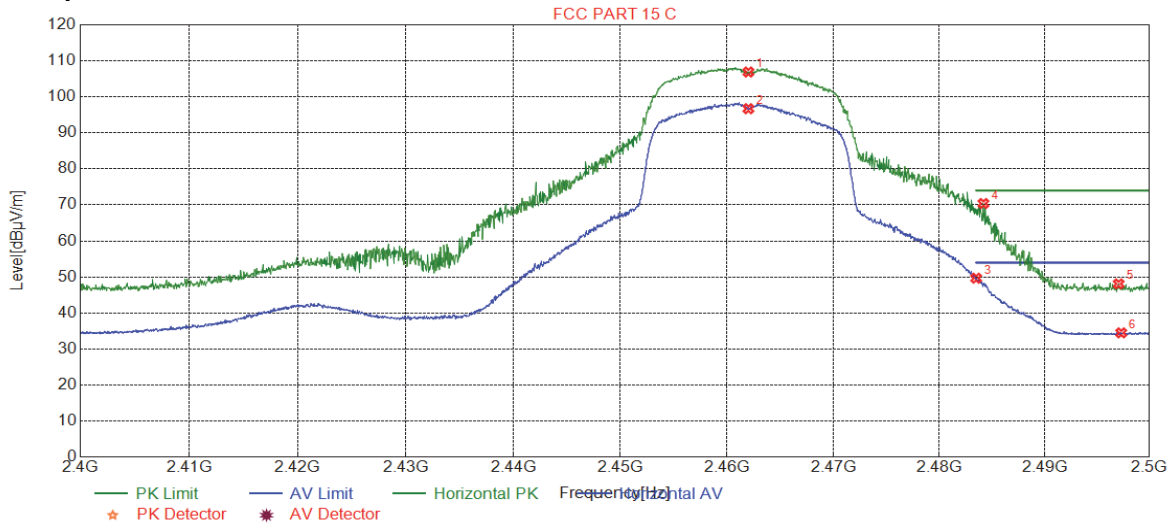
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.26	33.99	7.78	54.00	20.01	150	78	Vertical
2	2378.01	47.62	7.78	74.00	26.38	150	53	Vertical
3	2390.00	37.03	7.77	54.00	16.97	150	36	Vertical
4	2390.00	51.84	7.77	74.00	22.16	150	33	Vertical
5	2412.00	93.29	7.81	0.00	-93.29	150	29	Vertical
6	2412.00	83.58	7.81	0.00	-83.58	150	33	Vertical



**4.10.1.13 802.11N20\_ Highest Channel\_ Horizontal**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.89	7.98	0.00	-106.89	150	259	Horizontal
2	2462.00	96.70	7.98	0.00	-96.70	150	253	Horizontal
3	2483.50	49.66	8.01	54.00	4.34	150	302	Horizontal
4	2484.19	70.40	8.01	74.00	3.60	150	286	Horizontal
5	2497.04	48.08	8.03	74.00	25.92	150	335	Horizontal
6	2497.29	34.49	8.03	54.00	19.51	150	297	Horizontal



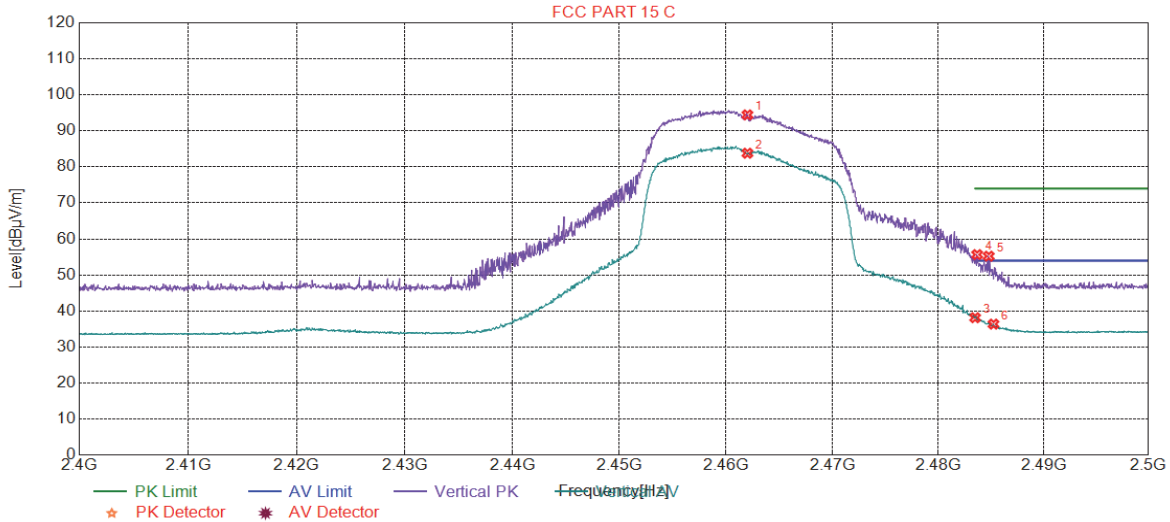
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**4.10.1.14 802.11N20\_ Highest Channel\_ Vertical**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.44	7.98	0.00	-94.44	150	24	Vertical
2	2462.00	83.79	7.98	0.00	-83.79	150	19	Vertical
3	2483.50	38.13	8.01	54.00	15.87	150	52	Vertical
4	2483.69	55.64	8.01	74.00	18.36	150	139	Vertical
5	2484.79	55.21	8.01	74.00	18.79	150	62	Vertical
6	2485.24	36.36	8.01	54.00	17.64	150	46	Vertical

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

**Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor**

All Modes have been tested, but only the worst case data displayed in this report.



## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2012/04/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/40002.

The End



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